



VEM  CHEM

Explosion-protected motors

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Product description

Explosion-protected motors

In production areas and service rooms in which potentially explosive gas and vapour-air mixtures may arise or else the formation of combustible dusts is possible, all electrical equipment must be designed specifically for use in hazardous areas. Explosion-protected motors for protection type 'Increased safety "e" ("eb")' are a technically and economically optimum solution for use in explosive atmospheres of Zone 1, Equipment Group II, Category 2. The motor series K..R ... Ex e can also be supplied with efficiency classifications IE1 to IE3. Motors for use in Zone 2, Zone 21 and Zone 22 are supplied both in standard versions (series K...) and with enhanced efficiency (series W...), including IE classification.

Directive 2014/34/EU (ATEX) (old: Directive 94/9/EC)

Since 26th February 2014, equipment and protective systems intended for use in potentially explosive atmospheres must comply with Directive 2014/34/EU, which thus supersedes Directive 94/9/EU.

The fundamental health- and safety-related demands placed on equipment and protective systems intended for use in potentially explosive atmospheres have not changed with introduction of the new Directive 2014/34/EU. The *Notified Bodies* have applied the stipulations of the new directive since 20th April 2016. Certificates issued previously in accordance with Directive 94/9/EU nevertheless remain fully valid.

Products which were placed on the market before 20th April 2016 and thus possess an EC Declaration of Conformity in accordance with Directive 94/9/EC can also be sold with this EC Declaration of Conformity after the above date. Products which were placed on the market or taken into service for the first time after 20th April 2016, however, require an EU Decla-

Motors of the VEM type series have been tested and certified by Physikalisch-Technische Bundesanstalt Braunschweig (*Notified Body no. 102*), IBExU Freiberg (*Notified Body no. 0637*) and Dekra Exam Bochum (*Notified Body no. 0158*). All member states of the European Union recognise these test certificates.

The aforementioned test certificates are similarly accepted as approval by CENELEC members outside the EU. Where a special design influences explosion protection (different frequency, output, coolant temperature, etc.), additional or renewed certification may be necessary.

ration of Conformity in accordance with Directive 2014/34/EU. All VEM series have been tested regarding compliance with the new ATEX Directive and additional risk assessments have been conducted for the individual products. Corresponding EU Declarations of Conformity can be supplied.

Physikalisch-Technische Bundesanstalt Braunschweig and IBExU Freiberg, as *Notified Bodies* in accordance with Article 9 of the Directive of the Council of the European Community of 23rd March 1994 (94/9/EC), have confirmed that VEM motors comply with the fundamental health- and safety-related demands applicable to the design and manufacture of equipment and protective systems intended for use in potentially explosive atmospheres in accordance with Annex II of the directive. The quality assurance system is certified to ISO 9001:2008 by DNV GL Business Assurance, Essen and by IBExU Institut für Sicherheitstechnik GmbH, *Notified Body no. 0637*, and is monitored in accordance with Article 10(1) of Directive 2014/34/EU.

DNV-GL

MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 156816-2014-AQ-GER-DAKKS
Initial certification date: 19. March 1999
Valid: 08. June 2014 - 06. June 2017

This is to certify that the management system of

VEM motors GmbH
Carl-Friedrich-Gauß-Straße 1, 38855 Wernigerode, Germany
and the sites as mentioned in the appendix accompanying this certificate

has been found to conform to the Quality Management System standard:

ISO 9001:2008

This certificate is valid for the following scope:
Development, production and sale of electric motors, generators and drive systems for common appliance and apparatus for potentially explosive areas

Place and date:
Essen, 09. June 2015

For the issuing office:
DNV GL - Business Assurance
Schmieringhof 14, 45329 Essen, Germany
Thomas Beck
Management Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
AQ-2010-110-0181 DNV GL Business Assurance Zertifizierung und Umweltgütekriterien GmbH, Schmieringhof 14, 45329 Essen, Germany.
TEL: +49 201 7296-222 www.dnvgl.de/assurance

DNV-GL

Certificate No: 156816-2014-AQ-GER-DAKKS
Place and date: Essen, 09. June 2015

Appendix to Certificate

VEM motors GmbH
Locations included in the certification are as follows:

Site Name	Site Address	Site Scope
VEM motors GmbH	Carl-Friedrich-Gauß-Str. 1, 38855 Wernigerode, Germany	Development, production and sale of electric motors, generators and drive systems for common appliance and apparatus for potentially explosive areas
VEM motors Thurm GmbH	Außere Dresdner Straße 35, 08066 Zwickau, Germany	Development, production and sale of electric motors, generators and drive systems for common appliance and apparatus for potentially explosive areas
VEM Slovakia s.r.o.	Vrbovská cesta 102, SK-921 01, Piešťany, Slovakia (Slovak Republic)	Production of units/modules for electric motors, generators and drive systems for common appliance and products for use in potentially explosive areas.
VEM Competence Center Berlin	Marzahner Straße 34, 13053 Berlin, Germany	Sale of electric motors, generators and drive systems for common appliance and apparatus for potentially explosive areas.
VEM Competence Center Düsseldorf	Gothaer Straße 4, 40880 Ratingen, Germany	Sale of electric motors, generators and drive systems for common appliance and apparatus for potentially explosive areas.
VEM Competence Center Leipzig	Bitterfelder Straße 1, 04129 Leipzig, Germany	Sale of electric motors, generators and drive systems for common appliance and apparatus for potentially explosive areas.
VEM Competence Center München	Max-Planck-Straße 17 85716 Unterschleißheim, Germany	Sale of electric motors, generators and drive systems for common appliance and apparatus for potentially explosive areas.

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
AQ-2010-110-0181 DNV GL Business Assurance Zertifizierung und Umweltgütekriterien GmbH, Schmieringhof 14, 45329 Essen, Germany.
TEL: +49 201 7296-222 www.dnvgl.de/assurance

IBExU Institut für Sicherheitstechnik GmbH An-Institut der TU Bergakademie Freiberg

[1] PRODUCT QUALITY ASSURANCE NOTIFICATION according to Directive 94/9/EC, Annex VII



- Translation -

- [2] Equipment or Protective Systems intended for use in Potentially explosive atmospheres, Directive 94/9/EC
- [3] Notification Number: **IBExU14ATEX Q014**
- [4] Product Category: **Explosion-protected three-phase synchronous motors**
Electrical equipment of the equipment group II, Categories 2 G and 2 D
- [5] Manufacturer: **VEM motors GmbH**
- [6] Address: **Carl-Friedrich-Gauß-Straße 1
38655 Wernigerode
Germany**
- [7] Production site: **see [5]**
- [8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, notifies to the manufacturer that he applies in the production site according to [7] a quality assurance system for the final inspection and testing of equipment of the product category mentioned in [4] which complies with Annex VII of the Directive.
- [9] This notification is based on audit report no. IB-14-0-027 issued the 25 July 2014. It is valid until 10 July 2017. This notification can be withdrawn if the manufacturer no longer satisfies the requirements of Annex VII. Results of surveillance audit of the quality assurance system are a part of this notification.
- [10] According to Article 10 (1) of the Directive 94/9/EC the CE marking shall be followed by the identification Number 0637 identifying the notified body involved in the production control stage.

IBExU Institut für Sicherheitstechnik GmbH
Fuchsmühlweg 7 09599 Freiberg, Germany
t +49 (0) 3731 3805 0 f +49 (0) 3731 23660

Authorized for certifications
- Explosion protection -

Freiberg, 30 July 2014

By order

(Dipl.-Ing. Wilamowski)



Certificates without signature and seal are not valid. Certificates may only be duplicated completely and unchanged. In case of doubts, the German text shall prevail.

Page 1 of 1
IBExU14ATEX Q014

IBExU Institut für Sicherheitstechnik GmbH An-Institut der TU Bergakademie Freiberg

[1] PRODUCT QUALITY ASSURANCE NOTIFICATION according to Directive 94/9/EC, Annex VII



- Translation -

- [2] Equipment or Protective Systems intended for use in Potentially explosive atmospheres, Directive 94/9/EC
- [3] Notification Number: **IBExU14ATEX Q015**
- [4] Product Category: **Explosion-protected three-phase synchronous motors**
Electrical equipment of the equipment group II, Categories 2 G and 2 D
- [5] Manufacturer: **VEM motors Thurm GmbH**
- [6] Address: **Außere Dresdener Straße 35
09599 Zwickau
Germany**
- [7] Production site: **see [5]**
- [8] IBExU Institut für Sicherheitstechnik GmbH, NOTIFIED BODY number 0637 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, notifies to the manufacturer that he applies in the production site according to [7] a quality assurance system for the final inspection and testing of equipment of the product category mentioned in [4] which complies with Annex VII of the Directive.
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EU Declaration of Conformity (according to Annex VI of EC Directive 2014/54/EU)

Manufacturer: **VEM motors GmbH**
Address: **Carl-Friedrich-Gauß-Str. 1
D-38655 Wernigerode**

Product description: **Explosion-protected three-phase synchronous motors with squirrel-cage rotor of the series (IE)-JK... / (IE)-JKL... (Y2, Y3) / (IE)-JW... / (IE)-JB...**
Motors in energy efficient design according to IECEN 60034-30-1 receive the marking "IE" before the type designation, whereas " " = 1.2, 3.4 according to the energy class of the motors.

The object of the declaration described above is in conformity with the relevant Union harmonization legislation:

2014/54/EU Directive of the European Parliament and of the Council of 26 February 2014 on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres (recast), Official Journal of the European Union L96/299-306 of 29.03.2014

2006/42/EC Directive of the European Parliament and of the Council of 17 May 2006 on machinery, and amending Directive 90/269/EEC (recast), Official Journal of the European Union L157/24-46 vom 09.06.2006

This declaration of conformity is issued under the sole responsibility of the manufacturer. We confirm conformity of the product indicated above with the standards:

Reference number and date of issue: **EN 60079-0:2013+A11:2013**
EN 60079-1:2015
EN 60079-3:2015
EN 60034 with all relevant parts and supplements

The motors for which an EC type examination certificate from a notified body or a type examination certificate of an independent test laboratory is available, but it is related to some older standard editions, than these motors also fulfil the basic requirements for security and health protection from directive 2014/54/EU (ATEX)

The designated product is intended for incorporation into a machinery, and it must not be put into operation until the relevant machinery into which the product has been incorporated has been declared being in conformity with the provisions of Directive 2006/42/EC

The Quality Management System has been certified by IBExU Institut für Sicherheitstechnik GmbH with the Approval No. IBExU14ATEXQ014 and IBExU14ATEXQ015.

Wernigerode, 2015-10-27

Zwickau, 2016-10-27

(Dipl.-Ing. Wilamowski)

(Dipl.-Ing. Wilamowski)

This declaration confirms compliance with the above-mentioned directives but is not a guarantee of product liability.

VEM Holding GmbH – Pörsner Landstraße 178 – D-01267 Dresden
Telefon +49 351 258-0 Fax +49 351 258-1328

Series (IE)-JK... / (IE)-JKL... (Y2, Y3) / (IE)-JW... / (IE)-JB...

Motor type IEC-size	EU	AS	Group category/ I (Dust) or II (Dust)	Type of protection, temperature class, equipment protection level (EPL)
IEB-JK... 66 up to 400 IEB-JKL... 43 up to 400 IEB-JW... 43 up to 400 IEB-JB... 43 up to 400	CE	0037	II 2G	Ex db IIC T3... T6 or Ex db IIC T3... T6 Gb or Ex db IIC T3... T6 or Ex db IIC T3... T6 Gb
	CE	0037	II 2G	Ex db IIC T3... T6 or Ex db IIC T3... T6 Gb or Ex db IIC T3... T6 or Ex db IIC T3... T6 Gb
	CE	0037	II 2G	Ex db IIB+H2 T3... T6 or Ex db IIB+H2 T3... T6 Gb or Ex db IIB+H2 T3... T6 or Ex db IIB+H2 T3... T6 Gb
	CE	0037	II 2G	Ex db IIB+H2 T3... T6 or Ex db IIB+H2 T3... T6 Gb or Ex db IIB+H2 T3... T6 or Ex db IIB+H2 T3... T6 Gb
	CE	0037	II 2G	Ex db IIC T2, T3 or T4 Gc (Ex db IIC T2, T3 or T4 Gc)
	CE	0037	II 2G	Ex db IIC T1/T2, T3 or T4 Gc (Ex db IIC T1/T2, T3 or T4 Gc)
	CE	0037	II 2G	Ex db IIC T1/T2, T3 or T4 Gc (Ex db IIC T1/T2, T3 or T4 Gc)
	CE	0037	II 2G	Ex db IIC T1/T2, T3 or T4 Gc (Ex db IIC T1/T2, T3 or T4 Gc)
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IEB-JK... 66 up to 400 IEB-JKL... 43 up to 400 IEB-JW... 43 up to 400 IEB-JB... 43 up to 400	CE	0037	II 2G	Ex db IIC T3... T6 or Ex db IIC T3... T6 Gb or Ex db IIC T3... T6 or Ex db IIC T3... T6 Gb
	CE	0037	II 2G	Ex db IIC T3... T6 or Ex db IIC T3... T6 Gb or Ex db IIC T3... T6 or Ex db IIC T3... T6 Gb
	CE	0037	II 2G	Ex db IIB+H2 T3... T6 or Ex db IIB+H2 T3... T6 Gb or Ex db IIB+H2 T3... T6 or Ex db IIB+H2 T3... T6 Gb
	CE	0037	II 2G	Ex db IIB+H2 T3... T6 or Ex db IIB+H2 T3... T6 Gb or Ex db IIB+H2 T3... T6 or Ex db IIB+H2 T3... T6 Gb
	CE	0037	II 2G	Ex db IIC T2, T3 or T4 Gc (Ex db IIC T2, T3 or T4 Gc)
	CE	0037	II 2G	Ex db IIC T1/T2, T3 or T4 Gc (Ex db IIC T1/T2, T3 or T4 Gc)
	CE	0037	II 2G	Ex db IIC T1/T2, T3 or T4 Gc (Ex db IIC T1/T2, T3 or T4 Gc)
	CE	0037	II 2G	Ex db IIC T1/T2, T3 or T4 Gc (Ex db IIC T1/T2, T3 or T4 Gc)
	CE	0037	II 2G	Ex db IIC T1/T2, T3 or T4 Gc (Ex db IIC T1/T2, T3 or T4 Gc)
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	CE	0037	II 2G	Ex db IIC T1/T2, T3 or T4 Gc (Ex db IIC T1/T2, T3 or T4 Gc)
	CE	0037	II 2G	Ex db IIC T1/T2, T3 or T4 Gc (Ex db IIC T1/T2, T3 or T4 Gc)

1) conductive dust

NE 0637 — IBExU Inst. für Sicherheitstechnik GmbH, Fuchsmühlweg 7, 09599 Freiberg (Germany)

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Telefon +49 351 258-0 Fax +49 351 258-1328

Marking according to old and new explosion protection standards

Motors assigned to Category 3 bear only a CE marking on their rating plate.

The specification of an NB (*Notified Body*) ID number for quality assurance to Directive 2014/34/EU (old: Directive 94/9 EC) is excluded for these motors.

Machine type IEC size	EU	NB	Group/category G (gas) or D (dust)	Explosion protection type, temperature class, equipment protection level (EPL)
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¹⁾ conductive dust

[Where a maximum surface temperature is specified: Zone 2 (gas): Entire surface including rotor and windings; Zones 21, 22 (dust): External surface (housing, shaft)]

*Notified Body
ID number*

0637... IBExU Institut für Sicherheitstechnik GmbH, Freiberg

Detailed information on explosion protection can be found in our Ex manual "Latest news on explosion protection 2017".

Explosion protection type – Increased safety “e” (new: “eb”)

Design regulations: EN 60079-0/EN 60079-7

Definition/protection principle:

Explosion protection type for which additional measures are taken in order to prevent the occurrence of impermissibly high temperatures and the formation of sparks or arcs in use according to specifications or in specified unusual conditions with an increased degree of certainty:

- Prevention of sparks and other ignition sources
- Housing at least IP 54, if bare live parts are present in the interior
- Housing at least IP 44, if all live parts in the interior are insulated
- Observance of creepage distances and clearances
- Particular attention paid to the insulating materials and seals
- Temperatures of the exterior and interior surfaces must remain below the ignition temperature both in normal operation and in the event of a fault (locking of the motor)
- Protective devices (temperature monitoring and/or overcurrent switch with I_A/I_N-t_E time characteristic) to be provided by the user
- Regarding operation on a frequency converter, see Chapter 4

Tests:

- Insulation test
- Temperature measurements in defined fault cases
- Additional tests for certain equipment (TMS full protection)

Fields of application:

Equipment for Zones 1 and 2, Categories 2G and 3G (Gb, Gc)

Explosion protection type – Flameproof enclosure “d” (“db”)

Design regulations: EN 60079-0/EN 60079-1

Definition/protection principle:

Explosion protection type where components capable of igniting an explosive atmosphere are arranged in an enclosure which withstands the pressure arising inside the enclosure from explosion of an explosive mixture and prevents propagation of the explosion to the explosive atmosphere surrounding the enclosure:

- Observance of the explosion group
- Pressure-resistant housing
- Observance of required gap widths and lengths
- Terminal box with protection type ‘Flameproof enclosure “d”’ or ‘Increased safety “e”’
- Temperature of the exterior surface must remain below the ignition temperature of the gases present in the surrounding atmosphere

- An explosion may occur inside the enclosure, but the enclosure must withstand the pressure of this explosion and no flames or potentially ignitable hot gases must escape to the outside atmosphere via cracks or gaps in the enclosure

Tests:

- Reference pressure, resistance to pressure
- Sparkover
- Tightness of sealed gaps

Fields of application:

Equipment for Zones 1 and 2, Categories 2G and 3G (Gb, Gc)

Explosion protection type “n”, non-sparking (new: Increased safety “ec”)

Design regulations: EN 60079-0/EN 60079-15 (neu EN 60079-7)

Definition/protection principle:

Explosion protection type which ensures that electrical equipment is unable to ignite a potentially explosive surrounding atmosphere in normal operation. The design guarantees that the risk of arcing or sparks which could constitute an ignition hazard during normal use is minimised:

- Prevention of sparks and other ignition sources
- Housing at least IP 54
- Observance of creepage distances and clearances
- Particular attention paid to the insulating materials and seals

Temperatures of the exterior and interior surfaces must remain below the ignition temperature in normal operation

Tests:

- Insulation test
- Temperature measurement
- Additional tests for certain equipment (converter-fed operation)

Fields of application:

Equipment for Zone 2, Category 3G (Gc)

Explosion protection type – Protection by enclosure “tx IIY Dx”

Design regulations: EN 60079-0/EN 60079-31

Protection principle:

Housings which constitute a hazard are themselves enclosed in a correspondingly non-vulnerable housing. The maximum surface temperature must be demonstrated in accordance with the applicable category.

Minimum degree of protection IP 5X/6X (EN 60529)

New: Pressure test before the dust test with an overpressure of

- 4 kPa for equipment for protection level „ta“
 - 2 kPa for equipment for protection level „tb“ or „tc“
- Limitation of the prospective short-circuit current to 10 kA for EPL Da

Temperature limitation dependent on EPL

Determination of surface temperature for EPL Da with a dust layer of at least 500 mm on all accessible surfaces.

Tests:

- IP protection type test
- Ageing resistance of the plastic materials used in the equipment
- Impact test
- Tightness
- Thermal test under overload or fault conditions

Group classification:

- IIIA, combustible lint
- IIIB, non-conductive dust
- IIIC, conductive dust

Protection against ingress of dust according to Tab. 1, EN 60079-31

Group	Protection level	Housing degree of protection
III A (lint, fibres)	ta	IP 6X
	tb	IP 5X
	tc	IP 5X
III B (non-conductive dust)	ta	IP 6X
	tb	IP 6X
	tc	IP 5X
III C (conductive dust)	ta	IP 6X
	tb	IP 6X
	tc	IP 6X

Flange dimensions

Flanges with threaded holes

Flange type to E DIN EN 50347	Flange type to DIN 42948	LA c ₁	M e ₁	N b ₁	P a ₁	S s ₁	T f ₁
FT 65	C 80	6.5	65	50	80	M5	2.5
FT 75	C 90	8	75	60	90	M5	2.5
FT 85	C 105	8.5	85	70	105	M6	2.5
FT 100	C 120	8	100	80	120	M6	3
FT 115	C 140	10	115	95	140	M8	3
FT 130	C 160	10	130	110	160	M8	3.5
FT 165	C 200	12	165	130	200	M10	3.5
FT 215	C 250	12	215	180	250	M12	4

Flanges with through-holes

Flange type to E DIN EN 50347	Flange type to DIN 42948	LA c ₁	M e ₁	N b ₁	P a ₁	S s ₁	T f ₁
FF 100	A 120	9	100	80	120	7	3
FF 115	A 140	9	115	95	140	9	3
FF 130	A 160	9	130	110	160	9	3.5
FF 165	A 200	10	165	130	200	11	3.5
FF 215	A 250	11	215	180	250	14	4
FF 265	A 300	12	265	230	300	14	4
FF 300	A 350	13	300	250	350	18	5
FF 350	A 400	15	350	300	400	18	5
FF 400	A 450	16	400	350	450	18	5
FF 500	A 550	18	500	450	550	18	5
FF 600	A 660	22	600	550	660	22	6
FF 740	A 800	25	740	680	800	22	6

According to DIN EN 50347, the different sizes of FF flanges possess through-holes, while FT flanges possess threaded holes. The flange designations A and C defined in DIN 42948 remain valid.

Flange assignments which deviate from the standard are specified in the flange assignment tables. For tolerances for the dimension N (b₁), refer to the corresponding dimension tables LA (c₁) depth of engagement

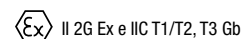
Overview of technical data

The most important technical data are summarised in the following table.
Further information can be taken from the catalogue section "Introduction" (Chapter 1).

Product group	Squirrel-cage rotor, IEC/DIN
Explosion protection type	Increased safety „e“ („eb“)
Rated output	Ex e (Ex eb)/(IE.) – KPR/KPER/K..R, 0.12 to 320 kW
Sizes	Ex e (Ex eb)/(IE.) – KPR/KPER/K..R, 56 to 400
Housing material	Grey cast iron
Rated torque	0.4 Nm to 4500 Nm
Efficiency classification/ efficiency determination	IEC/EN 60034-30-1 / IEC/EN 60034-2-1, ≤ 1 kW direct measurement, > 1 kW residual loss method
Method of connection	Single-speed motors are designed in star-delta configuration as standard.
Stator winding insulation	Thermal class 155, optional 155 [F(B)], 180 to IEC/EN 60034-1
Degree of protection	IP 55 to IEC/EN 60034-5, optionally IP 56 or higher
Type of cooling	IC 411, IC 416, to IEC/EN 60034-6
Coolant temperature/ installation altitude	Standard -20 °C to +40 °C, (max. +55 °C) Deviating coolant temperatures upon request Altitude 1000 m above sea level
Rated voltage	Standard voltages to EN 60038 50 Hz: 230 V, 400 V, 500 V, 690 V, 60 Hz: 275 V, 460 V, 480 V, 600 V
Duty types	Continuous duty S1 and converter-fed operation
Types of construction	IM B3, IM B35, IM B5 and derived types to IEC/EN 60034-7
Paint finish	Normal finish "Morderate", colour RAL 7031, blue-grey Special finish "Worldwide", colour RAL 7031, blue-grey
Vibration severity grade	Grade "A" as standard for machines with no special vibration requirements
Shaft ends	to DIN 748 (IEC 60072), balanced with half-key
Limit speeds	Please refer to the section of "Limit speeds" in catalogue section "Motors for converter-fed operation", Chapter 4.
Bearing design	Please refer to the tables of bearing design data.
Motor mass	Please refer to the technical selection lists.
Terminal boxes	Please refer to the section "Terminal boxes".
Documentation	An operating and maintenance manual, a terminal plan and a safety data sheet are supplied with each motor.
Tolerances	Please refer to the section "Tolerances" in catalogue section "Introduction", Chapter 1.
Options	Please refer to the section "Overview of modifications" in catalogue section "Introduction", Chapter 1.

Motor selection data

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3



Type of explosion protection – Increased safety „e“ („eb“)
for operation in Zone 1 according to EN 60079-7

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																	Design point 400 V, 50 Hz			
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cos φ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _c -time	ATEX no.	J	m	
				kW	Nm	rpm	100 %	75 %	50 %	-	400 V	-	-	-	-	T2 T3		kgm ²	kg	
Synchronous speed 3000 rpm – 2-pole version																				
IE3-KPER 63 G2 Ex e IIC	T1-T3	±10 %	55	0.18	0.6	2750	IE3- 65.9	65.7	63.6	0.86	0.47	4.2	2.1	1.9	2.2	28 24	IBExU02ATEX1110/26	0.00015	5	
IE3-KPR 63 KY2 Ex e IIC	T1-T3	±10 %	40	0.25	0.7	2850	IE3- 69.7	67.7	61.6	0.78	0.69	5.2	2.5	2.5	2.9	36 32	IBExU02ATEX1110/23	0.00025	6	
IE3-KPER 71 G2 Ex e IIC	T1-T3	±10 %	40	0.37	1.2	2840	IE3- 73.8	72.7	69.3	0.82	0.88	6	2.7	2.7	3	22 19	IBExU02ATEX1111/09	0.00032	8	
IE3-KPER 80 K2 Ex e IIC	T1-T3	±10 %	40	0.55	1.8	2850	IE3- 77.8	76.8	76.0	0.82	1.24	6.5	3	2.7	3	25 23	IBExU02ATEX1111/01	0.00057	10.7	
IE3-KPR 80 K2 Ex e IIC	T1-T3	±10 %	50	0.75	2.5	2870	IE3- 80.7	81.7	81.2	0.88	1.56	6.8	2.6	2.9	2.5	33 29	IBExU02ATEX1112/51	0.00132	15	
IE3-KPR 80 G2 Ex e IIC	T1-T3	±10 %	50	1.10	3.7	2870	IE3- 82.7	83.7	82.8	0.89	2.25	7.3	3	3.2	2.7	25 22	IBExU02ATEX1112/50	0.0017	18	
IE3-KPR 90 S2 Ex e IIC	T1-T3	±10 %	50	1.30	4.3	2870	IE3- 83.5	84.5	84.5	0.91	2.6	6.1	1.8	2.5	1.7	52 41	IBExU02ATEX1113/41	0.00275	24	
IE3-KPR 90 L2 Ex e IIC	T1-T3	±10 %	65	1.85	6.1	2880	IE3- 85.1	86.1	85.6	0.92	3.6	7.2	2.3	3.1	2	30 21	IBExU02ATEX1113/45	0.00333	29	
IE3-KPR 100 L2 Ex e IIC	T1-T3	±10 %	50	2.50	8.2	2910	IE3- 86.4	87.1	84.9	0.89	4.9	6.8	1.7	2.7	1.6	34 25	IBExU02ATEX1114/36	0.0045	31	
IE3-KPER 112 MX2 Ex e IIC	T1-T3	±10 %	50	3.30	10.8	2910	IE3- 87.4	88.0	87.4	0.88	6.5	7.8	1.7	3.3	1.7	27 17	IBExU02ATEX1115/41	0.0055	38	
IE3-K11R 112 M2 Ex e IIC	T1-T3	±10 %	55	3.30	10.8	2916	IE3- 87.4	87.5	86.2	0.89	6.5	6.3	1.1	2.5	0.9	45 20	IBExU02ATEX1153/06	0.011	59	
IE3-K11R 112 M2 Ex e IIC	T1-T3	±10 %	55	4.10	13.4	2931	IE3- 89.2	89.5	88.4	0.87	8	7.9	1.3	2.6	1	28 11	PTB09ATEX3004/06	0.011	59	
IE3-KPER 132 S2T Ex e IIC	T1-T3	±10 %	40	4.60	15.0	2920	IE3- 88.6	87.8	86.1	0.85	9.1	9.3	2.8	2.4	3.8	18 9	IBExU02ATEX1116/01	0.0068	48	
IE3-K11R 132 S2 Ex e IIC	T1-T3	±10 %	55	4.60	15.0	2922	IE3- 88.6	88.7	87.7	0.86	9.2	7.8	1.6	2.9	1.2	23 9	IBExU99ATEX1142/87	0.011	61	
IE3-K11R 132 S2G Ex e IIC	T1-T3	±10 %	4.60	15.0	2922	IE3- 88.6	88.8	87.8	0.86	9.2	7.8	1.6	2.9	1.2				0.011	61	
IE3-K11R 132 SX2 Ex e IIC	T1-T3	±10 %	55	5.5	18	2935	IE3- 89.2	88.3	86.4	0.90	10.4	7.8	2.4	3.2	1.9	22 8	IBExU99ATEX1142/85	0.0168	78	
IE3-K11R 132 SX2G Ex e IIC	T1,T2	±10 %	55	6.6	22	2920	IE3- 89.7	88.5	87.5	0.91	12.4	6.7	2.0	2.7	1.6	19	IBExU99ATEX1142/86			
	T1-T3	±10 %	55	5.5	13	2934	IE3- 89.6	89.7	88.4	0.90	10.2	8.0	2.5	3.3	1.8	22 9	IBExU99ATEX1142/90	0.0168	78	
	T1,T2	±10 %	55	6.6	22	2915	IE3- 89.7	89.7	89.2	0.91	12.3	6.6	2.1	2.7	1.5	18	IBExU99ATEX1142/91			
IE3-K11R 160 M2 Ex e IIC	T1-T3	±10 %	50	7.5	24	2948	IE3- 90.9	91.1	90.0	0.92	13.7	7.3	1.9	2.5	1.5	35 18	IBExU99ATEX1105/118	0.0575	125	
	T1,T2	±10 %	50	9.5	31	2927	IE3- 90.8	90.6	90.5	0.90	17.9	5.6	1.5	2.0	1.2	30	IBExU99ATEX1105/119			
IE3-K11R 160 M2G Ex e IIC	T1-T3	±10 %	50	7.5	24	2947	IE3- 91.3	91.8	91.3	0.91	13.8	7.5	1.9	2.7	1.6	35 17	IBExU99ATEX1105/105	0.0575	130	
	T1,T2	±10 %	50	9.5	31	2933	IE3- 90.8	91.5	91.6	0.89	17.8	5.8	1.5	2.1	1.2	30	IBExU99ATEX1105/106			
IE3-K11R 160 MX2 Ex e IIC	T1-T3	±10 %	55	10.0	32	2951	IE3- 92.7	93.2	92.9	0.90	18	7.6	1.9	2.6	1.5	28 12	IBExU99ATEX1105/97	0.0675	140	
	T1,T2	±10 %	50	13.0	42	2922	IE3- 91.6	92.0	92.7	0.92	24	5.7	1.5	2.2	1.2	22	IBExU99ATEX1105/99			
IE3-K11R 160 MX2G Ex e IIC	T1-T3	±10 %	10.0	32	2940	IE3- 90.9	91.6	91.3	0.92	17.3	7.2	1.9	2.6	1.5	35 16			0.0675	135	
	T1,T2	±10 %	13.0	43	2915	IE3-														
IE3-K11R 160 L2 Ex e IIC	T1-T3	±10 %	40	12.5	41	2946	IE3- 91.7	92.1	91.9	0.92	23	7.3	2.0	2.7	1.5	25 8	IBExU99ATEX1105/114	0.078	155	
	T1,T2	±10 %	40	16.0	52	2916	IE2- 90.9	92.4	92.0	0.92	30.5	5.5	1.5	2.1	1.2	14	IBExU99ATEX1105/115			
IE3-K11R 160 L2G Ex e IIC	T1-T3	±10 %	45	12.5	41	2942	IE3- 91.5	92.4	92.5	0.91	22.5	7.3	2.0	2.7	1.5	19 7	IBExU99ATEX1105/127	0.078	155	
	T1,T2	±10 %	45	16.0	52	2912	IE2- 90.9	92.4	92.0	0.92	28	5.8	1.5	2.1	1.2	13	IBExU99ATEX1105/128			
IE3-K11R 180 M2 Ex e IIC	T1-T3	±10 %	55	15	49	2952	IE3- 91.9	91.3	90.4	0.92	27.5	7.1	1.8	2.6	1.4	35 13	IBExU99ATEX1138/49	0.128	210	
	T1,T2	±10 %	50	19.0	62	2930	IE2- 91.0	90.8	90.8	0.92	35	5.6	1.4	2.0	1.1	28	IBExU99ATEX1138/50			
IE3-K11R 180 M2G Ex e IIC	T1-T3	±10 %	55	15	48	2957	IE3- 92.6	93.3	93.2	0.92	27.0	7.2	1.8	2.7	1.3	35 14	IBExU99ATEX1138/61	0.128	195	
	T1,T2	±10 %	45	19.0	62	2936	IE3- 92.4	92.7	93.4	0.92	34.5	5.6	1.4	2.1	1.1	29 8	IBExU99ATEX1138/62			
IE3-K11R 200 L2 Ex e IIC	T1-T3	±10 %	50	20	65	2959	IE3- 93.1	93.4	92.9	0.90	36.5	7.1	1.5	2.3	1.0	35 14	IBExU99ATEX1143/49	0.36	315	
	T1,T2	±10 %	40	25.0	81	2947	IE3- 93.0	93.2	93.3	0.90	46.5	5.5	1.2	1.8	0.8	29	IBExU99ATEX1143/50			
IE3-K11R 200 L2G Ex e IIC	T1-T3	±10 %	50	20	65	2961	IE3- 93.0	93.6	93.2	0.91	36.5	7.2	1.5	2.2	1.0	30 14	IBExU99ATEX1143/61	0.36	315	
	T1,T2	±10 %	40	25.0	81	2949	IE3- 93.0	93.3	93.4	0.91	46	5.6	1.2	1.8	0.8	28	IBExU99ATEX1143/62			
IE3-K11R 200 LX2 Ex e IIC	T1-T3	±10 %	55	24	77	2965	IE3- 93.4	93.7	93.1	0.91	43.5	7.6	1.6	2.4	1.1	26 9	IBExU99ATEX1143/51	0.36	315	
	T1,T2	±10 %	50	31	101	2944	IE2- 92.2	93.0	93.3	0.91	57	5.8	1.2	1.9	0.9	18	IBExU99ATEX1143/52			
IE3-K11R 200 LX2G Ex e IIC	T1-T3	±10 %	24	77	2965	IE3- 93.4	93.7	93.1	0.91	43.5	7.6	1.6	2.4	1.1	26 9			0.36	315	
	T1,T2	±10 %	31	101	2944	IE3- 92.2	93.0	93.3	0.91	57	5.8	1.2	1.9	0.9	18					
IE3-K11R 225 M2 Ex e IIC	T1-T3	±10 %	55	28	90	2969	IE3- 93.2	92.9	92.1	0.90	51	7.4	1.4	2.5	1.1	29 12	IBExU99ATEX1144/43	0.375	390	
	T1,T2	±10 %	40	38.0	123	2952	IE2- 92.6	92.8	92.8	0.90	71	5.2	1.1	1.8	0.8	23	IBExU99ATEX1144/44			
IE3-K11R 225 M2G Ex e IIC	T1-T3	±10 %	28	90	2971	IE3-												0.375	390	
	T1,T2	±10 %	38.0	123	2952	IE3-														
IE3-K11R 250 M2 Ex e IIC	T1-T3	±10 %	50	36	116	2971	IE3- 93.7	93.3	92.0	0.93	63	7.5	1.8	2.5	1.5	34 15	PTB08ATEX3042/10	0.65	510	
	T1,T2	±10 %	50	47.0	152	2959	IE2- 93.0	93.3	92.8	0.92	86	5.6	1.4	1.9	1.2	28	PTB08ATEX3042/11			
IE3-K11R 250 M2G Ex e IIC	T1-T3	±10 %	45	36	115	2977	IE3- 93.8	93.9	93.2	0.93	63	7.5	1.7	2.6	1.5	40 20	IBExU99ATEX1131/42	0.65	510	
	T1,T2	±10 %	45	47.0	151	2966	IE3- 94.1	94.0	93.9	0.92	84	5.6	1.3	2.0	1.1	35	IBExU99ATEX1131/43			
IE3-K11R 280 S2 Ex e IIC	T1-T3	±10 %	50	47	151	2977	IE3- 94.4	94.2	93.1	0.92	82	7.9	1.7	2.8	1.6	28 12	IBExU99ATEX1030/50	0.675	560	
	T1,T2	±10 %	45	68	220	2957	IE2- 93.6	94.0	93.9	0.91	122	5.3	1.8	1.9	1.1	19	IBExU99ATEX1030/51			
IE3-K11R 280 S2G Ex e IIC	T1-T3	±10 %	40	47	151	2977	IE3- 94.2	94.4	93.7	0.93	82	7.9	1.9	2.7	1.6	26 10	IBExU99ATEX1030/62	0.675	560	
	T1,T2	±10 %	68.0	218	2976	IE3-														
IE3-K11R 280 M2 Ex e IIC	T1-T3	±10 %	50	58	186	2979	IE3- 94.9	95.0	94.6	0.90	104	7.4	1.2	2.1	1.1	27 11	IBExU99ATEX1030/58	1.21	760	
	T1,T2	±10 %	58.0	186	2979	IE3- 94.9	95.0	94.6	0.90	104	7.4	1.2	2.1	1.1	27	IBExU99ATEX1030/58				
IE3-K11R 280 M2G Ex e IIC	T1-T3	±10 %	58	187	2969	IE3-												1.21	730	

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3 Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7

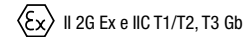
II 2G Ex e IIC T1/T2, T3 Gb

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																Design point 400 V, 50 Hz				
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cos φ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m	
				kW	Nm	rpm	100 %	75 %	50 %	-	400 V	-	-	-	-	T2	T3			
Synchronous speed 3000 rpm – 2-pole version																				
IE3-K11R 315 S2 Ex e IIC	T1-T3	±10 %		68	218	2975	IE3-												1.44	820
IE3-K11R 315 S2G Ex e IIC	T1-T3			68	218	2978	IE3- 94.7	94.6	93.9	0.89	123	7.7	1.3	2.2	1.2	20	8	IBExU99ATEX1137/95	1.44	850
IE3-K11R 315 M2 Ex e IIC	T1-T3			80	257	2975	IE3-												1.76	980
IE3-K11R 315 M2G Ex e IIC	T1-T3			80	257	2975	IE3-												1.76	980
IE3-K11R 315 MY2 Ex e IIC	T1-T3			110	353	2980	IE3- 95.2	95.2	94.8	0.93	180	6.9	1.0	2.4	0.7	35	11		2.82	1270
IE3-K11R 315 MY2G Ex e IIC	T1-T3		110	353	2980	IE3- 95.2	94.8	94.0	0.93	190	6.4	1.0	2.4	0.7	30	11	IBExU99ATEX1137/92	2.82	1270	
IE3-K11R 315 L2 Ex e IIC	T1-T3		125	401	2980	IE3-													3.66	1450
IE3-K11R 315 L2G Ex e IIC	T1-T3		125	401	2980	IE3-													3.66	1450
IE3-K11R 315 LX2 Ex e IIC	T1-T3		150	480	2985	IE3-													4.43	1630
IE3-K11R 315 LX2G Ex e IIC	T1-T3		150	480	2985	IE3-													4.43	1630
IE3-K12R 355 M2 Ex e	T1-T3		170	545	2980	IE3-													4.2	2000
IE3-K42R 355 MX2 Ex e	T1-T3		200	641	2980	IE3-													5.5	2200
IE3-K42R 355 L2 Ex e	T1-T3		240	769	2980	IE3-													7.1	2445
IE3-K42R 400 M2 Ex e	T1-T3		270	865	2980	IE3-													8.44	3060
IE3-K42R 400 L2 Ex e	T1-T3		300	961	2980	IE3-													10.41	3400

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3



Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data															Design point 400 V, 50 Hz					
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time		ATEX no.	J	m
				kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	T2	T3		kgm²	kg
Synchronous speed 1500 rpm – 4-pole version																				
IE3-KPER 63 G4 Ex e IIC	T1-T3	±10 %	45	0.12	0.9	1355	IE3- 64.8	65.2	62.3	0.75	0.37	3.3	1.9	1.9	2.1	75	65	IBExU02ATEX1110/14	0.0002	5.2
IE3-KPR 63 G4 Ex e IIC	T1-T3	±5 %	55	0.18	1.2	1405	IE3- 69.9	68.0	62.2	0.7	0.55	4.1	2.1	2.1	2.6	70	60	IBExU02ATEX1110/29	0.0005	7.1
IE3-KPR 71 K4 Ex e IIC	***	***	***	0.25	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
IE3-KPR 71 G4 Ex e IIC	T1-T3	±10 %	60	0.37	2.5	1440	IE3- 77.3	77.6	75	0.69	1.02	5.8	2.9	2.9	3.3	45	40	IBExU02ATEX1111/39	0.0011	11.0
IE3-KPR 80 K4 Ex e IIC	***	***	***	0.55	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
IE3-KPR 80 GX4 Ex e IIC	T1-T3	±10 %	60	0.75	5.0	1445	IE3- 82.5	81.9	79	0.74	1.78	7.3	3.4	4.2	3.4	22	19	IBExU02ATEX1112/59	***	17.5
IE3-KPR 90 S4 Ex e IIC	T1-T3	±10 %	65	1.00	6.6	1450	IE3- 83.7	83.3	80.6	0.8	2.25	7.8	3.3	4.0	3.1	35	30	IBExU02ATEX1113/46	0.0045	28.0
IE3-KPR 90 LX4 Ex e IIC	T1-T3	±10 %	60	1.35	9.0	1435	IE3- 84.9	85.0	83.4	0.84	2.85	7.2	3.3	3.6	2.8	30	27	IBExU02ATEX1113/47	0.0058	31.0
IE3-KPR 100 L4 Ex e IIC	T1-T3	±10 %	65	2.00	13.2	1445	IE3- 86.3	86.7	85.4	0.81	4.25	7.5	3.3	3.8	3.0	30	26	IBExU02ATEX1114/45	0.011	45.0
IE3-KPR 100 LZ4 Ex e IIC	T1-T3	±10 %	65	2.50	16.5	1445	IE3- 87.1	87.6	86.4	0.83	5.2	7.6	2.9	3.7	2.7	28	24	IBExU02ATEX1114/44	0.013	50.0
IE3-KPR 112 M4 Ex e IIC	T1-T3	±10 %	55	3.6	24	1452	IE3- 88.7	89.9	90.0	0.89	6.9	7.2	1.9	3.1	1.6	17	15	***	0.02	65
IE3-K11R 112 M4 Ex e IIC	T1-T3	±10 %	55	3.6	24	1452	IE3- 88.7	89.9	90.0	0.89	6.9	7.2	1.9	3.1	1.6	17	15	PTB09ATEX3004/08	0.02	65
IE3-K11R 132 S4 Ex e IIC	T1-T3	±10 %	55	5.0	33	1465	IE3- 90.4	91.1	90.6	0.86	9.7	6.8	1.9	2.9	1.6	30	28	IBExU99ATEX1142/84	0.035	90
IE3-K11R 132 M4 Ex e IIC	T1-T3	±10 %	55	6.8	45	1457	IE3- 90.2	90.8	90.7	0.86	13.4	7.1	2.0	3.1	1.5	20	18	IBExU99ATEX1142/80	0.035	88
IE3-K11R 160 M4 Ex e IIC	T1-T3	±10 %	55	10.0	65	1471	IE3- 91.2	91.2	90.4	0.85	19.6	7.2	2.3	3.0	2.1	26	9	IBExU99ATEX1105/102	0.078	125
IE3-K11R 160 L4 Ex e IIC	T1-T3	±10 %	55	13.5	88	1473	IE3- 92.0	92.1	91.5	0.87	26	7.8	2.6	3.1	2.1	18	7	PTB08ATEX3038/26	0.115	168
IE3-K11R 180 M4 Ex e IIC	T1-T3	±10 %	55	15.0	97	1478	IE3- 92.2	91.9	90.8	0.84	29.5	7.3	1.9	2.7	1.7	35	12	IBExU99ATEX1138/51	0.168	215
	T1,T2	±10 %	55	17	110	1473	IE3- 92.4	91.9	91.2	0.86	32.5	6.7	1.6	2.4	1.5	35		IBExU99ATEX1138/52		
IE3-K11R 180 L4 Ex e IIC	T1-T3	±10 %	50	17.50	113	1479	IE3- 92.6	92.5	91.4	0.86	33.5	8.0	2.0	2.9	1.7	30	12	IBExU99ATEX1138/55	0.168	240
	T1,T2	±10 %	45	20	129	1476	IE3- 92.8	92.5	91.8	0.86	38	7.0	1.7	2.5	1.5	30		IBExU99ATEX1138/56		
IE3-K11R 200 L4C Ex e IIC	T1-T3	±10 %	55	24.0	154	1485	IE3- 93.2	93.7	93.3	0.87	45	7.2	1.4	2.3	1.2	35	11	IBExU99ATEX1143/53	0.313	345
	T1,T2	±10 %	55	27	174	1481	IE3- 93.4	94.6	94.3	0.87	51	6.3	1.3	2.1	1.1	30		IBExU99ATEX1138/54		
IE3-K11R 225 S4 Ex e IIC	T1-T3	±10 %	50	30.00	193	1483	IE3- 93.8	94.2	93.9	0.85	58	7.8	2.2	2.4	1.7	26	10	IBExU99ATEX1144/37	0.525	445
	T1,T2	±10 %	50	33	213	1480	IE3- 93.7	93.8	93.9	0.85	64	7.0	2.0	2.2	1.6	24		IBExU99ATEX1144/38		
IE3-K11R 225 M4 Ex e IIC	T1-T3	±10 %	40	36.00	232	1481	IE3- 93.9	94.3	94.2	0.84	69	7.2	2.0	2.2	1.6	21	7	IBExU99ATEX1144/39	0.525	450
	T1,T2	±10 %	40	40	259	1477	IE3- 94.1	94.1	94.2	0.85	78	6.4	1.8	2.0	1.4	17		IBExU99ATEX1144/40		
IE3-K11R 250 M4 Ex e IIC	T1-T3	±10 %	45	44.0	283	1486	IE3- 94.2	94.0	93.4	0.85	84	7.5	1.9	2.2	1.5	28	9	IBExU99ATEX1131/35	0.95	545
	T1,T2	±10 %	45	50	322	1484	IE3- 94.4	94.1	93.7	0.85	96	6.5	1.7	1.9	1.3	24		IBExU99ATEX1131/37		
IE3-K11R 280 S4 Ex e IIC	T1-T3	±10 %	45	58.0	372	1488	IE3- 95.4	95.5	95.0	0.82	113	7.8	1.4	2.2	1.2	35	16	IBExU99ATEX1030/52	1.96	775
	T1,T2	±10 %	45	68	438	1484	IE3- 95.0	95.4	95.2	0.83	132	6.7	1.2	1.8	1.0	30		IBExU99ATEX1030/53		
IE3-K11R 280 M4 Ex e IIC	T1-T3	±10 %	55	70.0	449	1488	IE3- 95.0	95.1	94.6	0.83	135	8.0	1.6	2.3	1.4	23	8	IBExU99ATEX1030/54	2.27	855
	T1,T2	±10 %	50	80	514	1485	IE3- 95.1	95.0	94.9	0.83	154	7.0	1.4	2.0	1.2	20		IBExU99ATEX1030/55		
IE3-K11R 315 S4 Ex e IIC	T1-T3	±10 %	40	84	539	1489	IE3- 95.1	95.1	94.6	0.84	161	8.0	1.5	2.2	1.4	23	8	IBExU99ATEX1030/85	2.73	995
	T1,T2	±10 %	40	100	643	1485	IE3- 95.3	95.2	95.0	0.84	194	6.6	1.2	1.8	1.1	18		IBExU99ATEX1030/86		
IE3-K11R 315 M4 Ex e IIC	T1-T3	±10 %	50	100	641	1491	IE3- 95.3	95.2	94.5	0.85	186	7.7	1.3	2.4	1.0	26	7	IBExU99ATEX1137/90	4.02	1175
	T1-T3	±10 %	45	120	770	1489	IE3- 95.5	95.3	95.0	0.86	225	6.4	1.1	2.0	0.9	21		IBExU99ATEX1137/91		
IE3-K11R 315 MY4 Ex e IIC	T1-T3	±10 %	40	115	737	1490	IE3- 95.5	95.3	94.5	0.85	218	6.9	1.1	2.1	0.9	35	14	IBExU99ATEX1137/89	4.82	1200
	T1,T2		40	115	738	1489	IE3-													
IE3-K11R 315 L4 Ex e IIC	T1-T3		40	135	865	1491	IE3-												5.93	1450
	T1,T2		165	1065	1480	IE3-														
IE3-K11R 315 LX4 Ex e IIC	T1-T3		40	170	1090	1490	IE3-												6.82	1630
	T1,T2		200	1291	1480	IE3-														
IE3-K12R 355 M4 Ex e IIC	T1-T3		40	215	1375	1493	IE3- 96.0	95.8	95.1	0.84	390	7.9	1.4	2.6	1.2	21	7	IBExU01ATEX1009/18	7.9	2150
IE3-K42R 355 MX4 Ex e	T1-T3		40	240	1538	1490	IE3-												9.5	2400
	T1,T2		275	1774	1480	IE3-														
IE3-K42R 355 L4 Ex e	T1-T3		40	275	1758	1494	IE3-												10	2500
	T1,T2		315	2033	1480	IE3-														
IE3-K42R 400 M4 Ex e	T1-T3		40	300	1918	1494	IE3-												12.6	2900
IE3-K42R 400 L4 Ex e	T1-T3		40	320	2046	1494	IE3-												16.29	3450

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.
*** upon request

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3 Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7

Ex II 2G Ex e IIC T1/T2, T3 Gb

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																		Design point 400 V, 50 Hz			
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cos φ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m		
				kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	T2	T3				
							100 %	75 %	50 %	-	A	-	-	-	-	s	s		kgm ²	kg	
Synchronous speed 1000 rpm – 6-pole version																					
IE3-KPR 80 G6 Ex e IIC	T1-T3	±10 %	60	0.55	5.60	945	IE3-	77.2	77.5	75	0.48	1.53	4.2	2.2	2.4	2.2	84	73	IBExU02ATEX1112/53	0.00425	18
IE3-KPR 90 L6 Ex e IIC	T1-T3	±10 %	50	0.95	9.45	960	IE3-	80.2	78.6	74.7	0.67	2.65	5.6	3.1	3.5	2.8	46	41	IBExU02ATEX1113/42	0.00720	30.0
IE3-KPR 100 LX6 Ex e IIC	T1-T3	±10 %	50	1.30	12.9	960	IE3-	81.8	81.5	78.6	0.72	3.20	6.0	2.4	3.2	2.4	97	87	IBExU02ATEX1114/39	0.01390	36.0
IE3-KPER 112 MV6 Ex e IIC	T1-T3	±10 %	50	1.90	18.8	965	IE3-	83.6	82.6	78.9	0.68	5.1	6.8	3.6	4.3	3.5	42	37	IBExU02ATEX1115/28	0.01550	48.0
IE3-K11R 132 S6 Ex e IIC	T1-T3	±10 %	55	2.60	26	960	IE3-	86.0	86.9	85.9	0.80	5.9	6.0	2.1	3.1	1.3	25	21	PTB08ATEX3037/18	0.023	60
IE3-K11R 132 M6 Ex e IIC	T1-T3	±10 %	50	3.50	35	965	IE3-	86.7	87.3	86.5	0.82	7.6	5.1	1.7	2.4	1.5	50	43	PTB08ATEX3037/19	0.053	75
IE3-K11R 132 MX6 Ex e IIC	T1-T3	±10 %	55	4.80	47	971	IE3-	88.5	88.7	87.4	0.80	10.2	6.6	2.2	3.1	1.8	44	38	PTB08ATEX3037/20	0.0636	105
IE3-K11R 160 M6 Ex e IIC	T1-T3	±10 %	55	6.60	65	975	IE3-	89.1	89.2	87.9	0.83	13.5	5.7	2.1	2.5	1.7	78	34	PTB08ATEX3038/27	0.145	145
IE3-K11R 160 L6 Ex e IIC	T1-T3	±10 %	55	9.70	95	975	IE3-	90.0	89.7	88.3	0.83	19.6	6.9	2.8	3.0	2.0	40	11	IBExU99ATEX1105/104	0.166	160
IE3-K11R 180 L6 Ex e IIC	T1-T3	±10 %	50	13.2	129	980	IE3-	91.2	91.4	90.5	0.87	26	6.2	2.1	2.8	1.9	55	22	IBExU99ATEX1138/48	0.268	215
IE3-K11R 200 L6 Ex e IIC	T1-T3	±10 %	55	16.5	160	983	IE3-	91.5	91.5	90.3	0.88	31	7.5	2.3	3.1	2.0	45	18	IBExU99ATEX1143/56	0.648	325
IE3-K11R 200 LX6 Ex e IIC	T1-T3	±10 %	55	20.0	194	984	IE3-	92.0	91.5	90.1	0.88	38	7.8	2.4	3.0	1.9	40	14	IBExU99ATEX1143/48	0.782	360
IE3-K11R 225 M6 Ex e IIC	T1-T3	±10 %	45	27.0	262	984	IE3-	92.7	92.1	90.9	0.85	52	7.3	2.7	2.9	2.1	28	7	IBExU99ATEX1144/45	0.92	420
IE3-K11R 250 M6 Ex e IIC	T1-T3	±10 %	55	33.0	320	986	IE3-	93.1	92.6	91.6	0.86	62.5	6.5	2.4	2.5	1.7	30	11	IBExU99ATEX1131/39	1.48	550
IE3-K11R 280 S6 Ex e IIC	T1-T3	±10 %	50	40.0	386	989	IE3-	93.5	93.1	92.1	0.86	76	7.5	2.0	2.6	1.7	40	19	IBExU99ATEX1030/47	2.63	715
IE3-K11R 280 M6 Ex e IIC	T1-T3	±10 %	50	46.0	444	990	IE3-	93.8	93.6	93.0	0.87	86	7.6	2.1	2.6	1.7	30	13	IBExU99ATEX1030/56	2.63	740
	T1-T3	±10 %	50	50.0	482	990	IE3-	93.9	93.7	93.3	0.88	94	7.0	1.9	2.4	1.6	28	11	IBExU99ATEX1030/57		
IE3-K11R 315 S6 Ex e IIC	T1-T3	±10 %	40	64.0	618	989	IE3-												3.6	880	
IE3-K11R 315 M6 Ex e IIC	T1-T3	±10 %	40	76.0	732	992	IE3-												6	1050	
IE3-K11R 315 MV6 Ex e IIC	T1-T3	±10 %	40	85.0	820	990	IE3-												6.67	1250	
IE3-K11R 315 L6 Ex e IIC	T1-T3	±10 %	40	95	914	993	IE3-	95.0	94.6	93.9	0.87	175	8.0	2.2	2.5	1.5	35	14	IBExU99ATX1137/87	8.6	1470
IE3-K11R 315 LX6 Ex e IIC	T1-T3	±10 %	40	110	1061	990	IE3-												8.6	1460	
IE3-K12R 355 M6 Ex e IIC	T1-T3	±10 %	40	125	1202	993	IE3-												8.2	1650	
IE3-K42R 355 MX6 Ex e	T1-T3	±10 %	40	160	1539	993	IE3-												12.1	2200	
IE3-K42R 355 L6 Ex e	T1-T3	±10 %	40	180	1731	993	IE3-												14	2400	
IE3-K42R 355 LX6 Ex e	T1-T3	±10 %	40	200	1923	993	IE3-												14	2400	
IE3-K42R 400 M6 Ex e	T1-T3	±10 %	40	230	2212	993	IE3-												16.54	2900	
IE3-K42R 400 L6 Ex e	T1-T3	±10 %	40	250	2404	993	IE3-												20.63	3200	
Synchronous speed 750 rpm – 8-pole version																					
IE3-K11R 132 S8 Ex e IIC	T1-T3	±10 %	55	1.9	25	713	IE3-	82.1	92.8	81.2	0.71	4.8	4.7	1.9	2.7	1.8	60	50	IBExU99ATEX1142/101	0.018	60
IE3-K11R 132 M8 Ex e IIC	T1-T3	±10 %	55	2.6	34	725	IE3-	84.4	84.6	82.6	0.70	6.4	4.4	1.6	2.2	1.5	65	55	IBExU99ATEX1142/99	0.043	80
IE3-K11R 160 M8 Ex e IIC	T1-T3	±10 %	40	3.5	46	720	IE3-												0.053	86	
IE3-K11R 160 MX8 Ex e IIC	T1-T3	±10 %	40	4.8	64	720	IE3-												0.113	114	
IE3-K11R 160 L8 Ex e IIC	T1-T3	±10 %	50	6.6	86	730	IE3-	88.1	88.2	86.6	0.75	14.7	5.2	2.1	2.6	1.9	70	35	IBExU99ATEX1105/130	0.145	150
IE3-K11R 180 L8 Ex e IIC	T1-T3	±10 %	55	9.7	126	734	IE3-	89.6	89.5	87.8	0.75	21	5.8	2.1	2.8	1.8	55	30	IBExU99ATEX1138/63	0.228	195
IE3-K11R 200 L8 Ex e IIC	T1-T3	±10 %	55	13.2	173	730	IE3-	89.5	89.7	88.7	0.77	29	5.2	2.0	2.4	1.6	50	16	IBExU99ATEX1143/67	0.268	230
IE3-K11R 225 S8 Ex e IIC	T1-T3	±10 %	40	16.5	216	730	IE3-												0.44	265	
IE3-K11R 225 M8 Ex e IIC	T1-T3	±10 %	40	20.0	260	735	IE3-												0.825	360	
IE3-K11R 250 M8 Ex e IIC	T1-T3	±10 %	40	27.0	350	737	IE3-												1.35	465	
IE3-K11R 280 S8 Ex e IIC	T1-T3	±10 %	40	33.0	427	738	IE3-	92.2	92.3	91.2	0.79	68	5.9	2.3	2.4	1.8	35	12		1.55	570
IE3-K11R 280 M8 Ex e IIC	T1-T3	±10 %	40	40.0	516	740	IE3-												2.63	690	
IE3-K11R 315 S8 Ex e IIC	T1-T3	±10 %	50	50	644	741	IE3-	93.5	93.7	93.1	0.80	100	6.5	1.8	2.2	1.5	45	18	IBExU99ATEX1137/94	3.33	845
IE3-K11R 315 M8 Ex e IIC	T1-T3	±10 %	40	68	878	740	IE3-												3.33	800	
IE3-K11R 315 MY8 Ex e IIC	T1-T3	±10 %	40	80	1030	742	IE3-												6	1050	
IE3-K11R 315 L8 Ex e IIC	T1-T3	±10 %	40	95	1221	743	IE3-												6.76	1250	
IE3-K11R 315 LX8 Ex e IIC	T1-T3	±10 %	40	115	1484	740	IE3-												8.71	1430	
IE3-K12R 355 M8 Ex e IIC	T1-T3	±10 %	40	140	1807	740	IE3-												9.5	1850	
IE3-K42R 355 MX8 Ex e	T1-T3	±10 %	40	180	2323	740	IE3-												13.4	2200	
IE3-K42R 355 L8 Ex e	T1-T3	±10 %	40	150	1936	740	IE3-												15.8	2400	
IE3-K42R 355 LX8 Ex e	T1-T3	±10 %	40	180	2323	740	IE3-												15.8	2400	
IE3-K42R 400 M8 Ex e	T1-T3	±10 %	40	200	2581	740	IE3-												17.94	3000	
IE3-K42R 400 L8 Ex e	T1-T3	±10 %	40	230	2940	747	IE3-	95.2	95.2	95	0.77	470	7.5	1.3	2.3	1.2	10	26	IBExU15ATEX1075/02	22.34	3330

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

 II 2G Ex e IIC T1/T2, T3 Gb

Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																	Design point 400 V, 50 Hz			
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m	
				kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	T2	T3		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version																				
IE3-KPER 63 G2 Ex e IIC	T1-T3	±10 %	55	0.18	0.6	2750	IE3- 65.9	65.7	63.6	0.86	0.47	4.2	2.1	1.9	2.2	28	24	IBExU02ATEX1110/26	0.00015	5
IE3-KPR 63 KY2 Ex e IIC	T1-T3	±10 %	40	0.25	0.7	2850	IE3- 69.7	67.7	61.6	0.78	0.69	5.2	2.5	2.5	2.9	36	32	IBExU02ATEX1110/23	0.00025	6
IE3-KPER 71 G2 Ex e IIC	T1-T3	±10 %	40	0.37	1.2	2840	IE3- 73.8	72.7	69.3	0.82	0.88	6	2.7	2.7	3	22	19	IBExU02ATEX1111/09	0.00032	8
IE3-KPER 80 K2 Ex e IIC	T1-T3	±10 %	40	0.55	1.8	2850	IE3- 77.8	76.8	76.0	0.82	1.24	6.5	3	2.7	3	25	23	IBExU02ATEX1111/01	0.00057	
IE3-KPR 80 K2 Ex e IIC	T1-T3	±10 %	50	0.75	2.5	2870	IE3- 80.7	81.7	81.2	0.88	1.56	6.8	2.6	2.9	2.5	33	29	IBExU02ATEX1112/51	0.00132	15
IE3-KPR 80 G2 Ex e IIC	T1-T3	±10 %	50	1.10	3.7	2870	IE3- 82.7	83.7	82.8	0.89	2.25	7.3	3	3.2	2.7	25	22	IBExU02ATEX1112/50	0.0017	18
IE3-KPR 90 S2 Ex e IIC	T1-T3	±10 %	50	1.30	4.3	2870	IE3- 83.5	84.5	84.5	0.91	2.6	6.1	1.8	2.5	1.7	52	41	IBExU02ATEX1113/41	0.00275	24
IE3-KPR 90 L2 Ex e IIC	T1-T3	±10 %	65	1.85	6.1	2880	IE3- 85.1	86.1	85.6	0.92	3.6	7.2	2.3	3.1	2	30	21	IBExU02ATEX1113/45	0.00333	29
IE3-KPR 100 L2 Ex e IIC	T1-T3	±10 %	50	2.50	8.2	2910	IE3- 86.4	87.1	84.9	0.89	4.9	6.8	1.7	2.7	1.6	34	25	IBExU02ATEX1114/36	0.0045	31
IE3-KPER 112 MX2 Ex e IIC	T1-T3	±10 %	50	3.30	10.8	2910	IE3- 87.4	88.0	87.4	0.88	6.5	7.8	1.7	3.3	1.7	27	17	IBExU02ATEX1115/41	0.0055	38
IE3-K11R 112 M2 Ex e IIC	T1-T3	±10 %	55	3.30	10.8	2916	IE3- 87.4	87.5	86.2	0.89	6.5	6.3	1.1	2.5	0.9	45	20	IBExU02ATEX1153/06	0.011	59
IE3-K11R 112 M2 Ex e IIC	T1-T3	±10 %	55	4.10	13.4	2931	IE3- 89.2	89.5	88.4	0.87	8	7.9	1.3	2.6	1	28	11	PTB09ATEX3004/06	0.011	59
IE3-K11R 132 S2 Ex e IIC	T1-T3	±10 %	55	4.60	15.0	2922	IE3- 88.6	88.7	87.7	0.86	9.2	7.8	1.6	2.9	1.2	23	9	IBExU99ATEX1142/87	0.011	61
	T1-T3	±10 %		4.60	15.0	2922	IE3- 88.6	88.8	87.8	0.86	9.2	7.8	1.6	2.9	1.2				0.011	61
IE3-K11R 132 S2G Ex e IIC	T1-T3	±10 %	55	5.5	18	2935	IE3- 89.2	88.3	86.4	0.90	10.4	7.8	2.4	3.2	1.9	22	8	IBExU99ATEX1142/85	0.0168	78
	T1,T2	±10 %	55	6.6	22	2920	IE3- 89.7	88.5	87.5	0.91	12.4	6.7	2.0	2.7	1.6	19		IBExU99ATEX1142/86		
IE3-K11R 132 SX2G Ex e IIC	T1-T3	±10 %	55	5.5	13	3934	IE3- 89.6	89.7	88.4	0.90	10.2	8.0	2.5	3.3	1.8	22	9	IBExU99ATEX1142/90	0.0168	78
	T1,T2	±10 %	55	6.6	22	2915	IE3- 89.7	89.7	89.2	0.91	12.3	6.6	2.1	2.7	1.5	18		IBExU99ATEX1142/91		
IE3-K11R 160 M2 Ex e IIC	T1-T3	±10 %	50	7.5	24	2948	IE3- 90.9	91.1	90.0	0.92	13.7	7.3	1.9	2.5	1.5	35	18	IBExU99ATEX1105/118	0.0575	125
	T1,T2	±10 %	50	9.5	31	2927	IE3- 90.8	90.6	90.5	0.90	17.9	5.6	1.5	2.0	1.2	30		IBExU99ATEX1105/119		
IE3-K11R 160 M2G Ex e IIC	T1-T3	±10 %	50	7.5	24	2947	IE3- 91.3	91.8	91.3	0.91	13.8	7.5	1.9	2.7	1.6	35	17	IBExU99ATEX1105/105	0.0575	130
	T1,T2	±10 %	50	9.5	31	2933	IE3- 90.8	91.5	91.6	0.89	17.8	5.8	1.5	2.1	1.2	30		IBExU99ATEX1105/106		
IE3-K11R 160 MX2 Ex e IIC	T1-T3	±10 %	55	10.0	32	2951	IE3- 92.7	93.2	92.9	0.90	18	7.6	1.9	2.6	1.5	28	12	IBExU99ATEX1105/97	0.0675	140
	T1,T2	±10 %	50	13.0	42	2922	IE3- 91.6	92.0	92.7	0.92	24	5.7	1.5	2.2	1.2	22		IBExU99ATEX1105/99		
IE3-K11R 160 MX2G Ex e IIC	T1-T3	±10 %		10.0	32	2940	IE3- 90.9	91.6	91.3	0.92	17.3	7.2	1.9	2.6	1.5	35	16		0.0675	135
	T1,T2	±10 %		13.0	43	2915	IE3-													
IE3-K11R 160 L2 Ex e IIC	T1-T3	±10 %	40	12.5	41	2946	IE3- 91.7	92.1	91.9	0.92	23	7.3	2.0	2.7	1.5	25	8	IBExU99ATEX1105/114	0.078	155
	T1,T2	±10 %	40	16.0	52	2916	IE2- 90.9	92.4	92.0	0.92	30.5	5.5	1.5	2.1	1.2	14		IBExU99ATEX1105/115		
IE3-K11R 160 L2G Ex e IIC	T1-T3	±10 %	45	12.5	41	2942	IE3- 91.5	92.4	92.5	0.91	22.5	7.3	2.0	2.7	1.5	19	7	IBExU99ATEX1105/127	0.078	155
	T1,T2	±10 %	45	16.0	52	2912	IE2- 90.9	92.4	92.0	0.92	28	5.8	1.5	2.1	1.2	13		IBExU99ATEX1105/128		
IE3-K11R 180 M2 Ex e IIC	T1-T3	±10 %	55	15	49	2952	IE3- 91.9	91.3	90.4	0.92	27.5	7.1	1.8	2.6	1.4	35	13	IBExU99ATEX1138/49	0.128	210
	T1,T2	±10 %	50	19.0	62	2930	IE2- 91.0	90.8	90.8	0.92	35	5.6	1.4	2.0	1.1	28		IBExU99ATEX1138/50		
IE3-K11R 180 M2G Ex e IIC	T1-T3	±10 %	55	15	48	2957	IE3- 92.6	93.3	93.2	0.92	27.0	7.2	1.8	2.7	1.3	35	14	IBExU99ATEX1138/61	0.128	195
	T1,T2	±10 %	45	19.0	62	2936	IE3- 92.4	92.7	93.4	0.92	34.5	5.6	1.4	2.1	1.1	29	8	IBExU99ATEX1138/62		
IE3-K11R 200 L2 Ex e IIC	T1-T3	±10 %	50	20	65	2959	IE3- 93.1	93.4	92.9	0.90	36.5	7.1	1.5	2.3	1.0	35	14	IBExU99ATEX1143/49	0.36	315
	T1,T2	±10 %	40	25.0	81	2947	IE3- 93.0	93.2	93.3	0.90	46.5	5.5	1.2	1.8	0.8	29		IBExU99ATEX1143/50		
IE3-K11R 200 L2G Ex e IIC	T1-T3	±10 %	50	20	65	2961	IE3- 93.0	93.6	93.2	0.91	36.5	7.2	1.5	2.2	1.0	30	14	IBExU99ATEX1143/61	0.36	315
	T1,T2	±10 %	40	25.0	81	2949	IE3- 93.0	93.3	93.4	0.91	46	5.6	1.2	1.8	0.8	28		IBExU99ATEX1143/62		
IE3-K11R 200 LX2 Ex e IIC	T1-T3	±10 %	55	24	77	2965	IE3- 93.4	93.7	93.1	0.91	43.5	7.6	1.6	2.4	1.1	26	9	IBExU99ATEX1143/51	0.36	315
	T1,T2	±10 %	50	31	101	2944	IE2- 92.2	93.0	93.3	0.91	57	5.8	1.2	1.9	0.9	18		IBExU99ATEX1143/52		
IE3-K11R 200 LX2G Ex e IIC	T1-T3	±10 %		24	77	2965	IE3- 93.4	93.7	93.1	0.91	43.5	7.6	1.6	2.4	1.1	26	9		0.36	315
	T1,T2	±10 %		31	101	2944	IE3- 92.2	93.0	93.3	0.91	57	5.8	1.2	1.9	0.9	18				
IE3-K11R 225 M2 Ex e IIC	T1-T3	±10 %	55	28	90	2969	IE3- 93.2	92.9	92.1	0.90	51	7.4	1.4	2.5	1.1	29	12	IBExU99ATEX1144/43	0.375	390
	T1,T2	±10 %	40	38.0	123	2952	IE2- 92.6	92.8	92.8	0.90	71	5.2	1.1	1.8	0.8	23		IBExU99ATEX1144/44		
IE3-K11R 225 M2G Ex e IIC	T1-T3	±10 %		28	90	2971	IE3-												0.375	390
	T1,T2	±10 %		38.0	123	2952	IE3-													
IE3-K11R 250 M2 Ex e IIC	T1-T3	±10 %	50	36	116	2971	IE3- 93.7	93.3	92.0	0.93	63	7.5	1.8	2.5	1.5	34	15	PTB08ATEX3042/10	0.65	510
	T1,T2	±10 %	50	47.0	152	2959	IE2- 93.0	93.3	92.8	0.92	86	5.6	1.4	1.9	1.2	28		PTB08ATEX3042/11		
IE3-K11R 250 M2G Ex e IIC	T1-T3	±10 %	45	36	115	2977	IE3- 93.8	93.9	93.2	0.93	63	7.5	1.7	2.6	1.5	40	20	IBExU99ATEX1131/42	0.65	510
	T1,T2	±10 %	45	47.0	151	2966	IE3- 94.1	94.0	93.9	0.92	84	5.6	1.3	2.0	1.1	35		IBExU99ATEX1131/43		
IE3-K11R 280 S2 Ex e IIC	T1-T3	±10 %	50	47	151	2977	IE3- 94.4	94.2	93.1	0.92	82	7.9	1.7	2.8	1.6	28	12	IBExU99ATEX1030/50	0.675	560
	T1,T2	±10 %	45	68	220	2957	IE2- 93.6	94.0	93.9	0.91	122	5.3	1.8	1.9	1.1	19		IBExU99ATEX1030/51		
IE3-K11R 280 S2G Ex e IIC	T1-T3	±10 %	40	47	151	2977	IE3- 94.2	94.4	93.7	0.93	82	7.9	1.9	2.7	1.6	26	10	IBExU99ATEX1030/62	0.675	560
	T1,T2	±10 %		68.0	218	2976	IE3-													
IE3-K11R 280 M2 Ex e IIC	T1-T3	±10 %	50	58	186	2979	IE3- 94.9	95.0	94.6	0.90	104	7.4	1.2	2.1	1.1	27	11	IBExU99ATEX1030/58	1.21	760
	T1,T2	±10 %		58.0	186	2979	IE3- 94.9	95.0	94.6	0.90	104	7.4	1.2	2.1	1.1	27		IBExU99ATEX1030/58		
IE3-K11R 280 M2G Ex e IIC	T1-T3	±10 %		58	187	2969	IE3-												1.21	730

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

II 2G Ex e IIC T1/T2, T3 Gb

Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

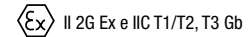
Motor selection data														Design point 400 V, 50 Hz						
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B (IEC/EN 60034-30-1)			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time		ATEX no.	J	m
				kW	Nm	rpm	100 %	75 %	50 %	-	400 V	-	-	-	-	T2	T3		kgm²	kg
Synchronous speed 3000 rpm – 2-pole version																				
IE3-K11R 315 S2 Ex e IIC	T1-T3			68	218	2975	IE3-												1.44	820
IE3-K11R 315 S2G Ex e IIC	T1-T3	±10 %		68	218	2978	IE3- 94.7	94.6	93.9	0.89	123	7.7	1.3	2.2	1.2	20	8	IBExU99ATEX1137/95	1.44	850
IE3-K11R 315 M2 Ex e IIC	T1-T3			80	257	2975	IE3-												1.76	980
IE3-K11R 315 M2G Ex e IIC	T1-T3			80	257	2975	IE3-												1.76	980
IE3-K11R 315 MY2 Ex e IIC	T1-T3			110	353	2980	IE3- 95.2	95.2	94.8	0.93	180	6.9	1.0	2.4	0.7	35	11		2.82	1270
IE3-K11R 315 MY2G Ex e IIC	T1-T3	±10 %		110	353	2980	IE3- 95.2	94.8	94.0	0.93	190	6.4	1.0	2.4	0.7	30	11	IBExU99ATEX1137/92	2.82	1270
IE3-K11R 315 L2 Ex e IIC	T1-T3			125	401	2980	IE3-												3.66	1450
IE3-K11R 315 L2G Ex e IIC	T1-T3			125	401	2980	IE3-												3.66	1450
IE3-K11R 315 LX2 Ex e IIC	T1-T3			150	480	2985	IE3-												4.43	1630
IE3-K11R 315 LX2G Ex e IIC	T1-T3			150	480	2985	IE3-												4.43	1630
IE3-K12R 355 M2 Ex e IIC	T1-T3			190	609	2980	IE3-												4.2	2000
IE3-K42R 355 MX2 Ex e IIC	T1-T3			220	705	2980	IE3-												5.5	2200
IE3-K42R 355 L2 Ex e IIC	T1-T3			250	801	2980	IE3-												7.1	2445
IE3-K42R 400 M2 Ex e IIC	T1-T3						IE3-												8.44	3060
IE3-K42R 400 L2 Ex e IIC	T1-T3						IE3-												10.41	3400

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3



Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																	Design point 400 V, 50 Hz			
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cos φ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m	
				kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	T2 T3		kgm ²	kg	
							100 %	75 %	50 %	-	A	-	-	-	-	s s				
Synchronous speed 1500 rpm – 4-pole version																				
IE3-KPER 63 G4 Ex e IIC	T1-T3	±10 %	45	0.12	0.9	1355	IE3- 64.8	65.2	62.3	0.75	0.37	3.3	1.9	1.9	2.1	75	65	IBEXU02ATEX1110/14	0.0002	5.2
IE3-KPR 63 G4 Ex e IIC	T1-T3	±5 %	55	0.18	1.2	1405	IE3- 69.9	68.0	62.2	0.7	0.55	4.1	2.1	2.1	2.6	70	60	IBEXU02ATEX1110/29	0.0005	7.1
IE3-KPR 71 K4 Ex e IIC	***	***	***	0.25	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
IE3-KPR 71 G4 Ex e IIC	T1-T3	±10 %	60	0.37	2.5	1440	IE3- 77.3	77.6	75	0.69	1.02	5.8	2.9	2.9	3.3	45	40	IBEXU02ATEX1111/39	0.0011	11.0
IE3-KPR 80 K4 Ex e IIC	***	***	***	0.55	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***	***
IE3-KPR 80 GX4 Ex e IIC	T1-T3	±10 %	60	0.75	5.0	1445	IE3- 82.5	81.9	79	0.74	1.78	7.3	3.4	4.2	3.4	22	19	IBEXU02ATEX1112/59	***	17.5
IE3-KPR 90 S4 Ex e IIC	T1-T3	±10 %	65	1.00	6.6	1450	IE3- 83.7	83.3	80.6	0.8	2.25	7.8	3.3	4.0	3.1	35	30	IBEXU02ATEX1113/46	0.0045	28.0
IE3-KPR 90 LX4 Ex e IIC	T1-T3	±10 %	60	1.35	9.0	1435	IE3- 84.9	85.0	83.4	0.84	2.85	7.2	3.3	3.6	2.8	30	27	IBEXU02ATEX1113/47	0.0058	31.0
IE3-KPR 100 L4 Ex e IIC	T1-T3	±10 %	65	2.00	13.2	1445	IE3- 86.3	86.7	85.4	0.81	4.25	7.5	3.3	3.8	3.0	30	26	IBEXU02ATEX1114/45	0.011	45.0
IE3-KPR 100 LZ4 Ex e IIC	T1-T3	±10 %	65	2.50	16.5	1445	IE3- 87.1	87.6	86.4	0.83	5.2	7.6	2.9	3.7	2.7	28	24	IBEXU02ATEX1114/44	0.013	50.0
IE3-KPR 112 M4 Ex e IIC	T1-T3	±10 %	55	3.6	24	1452	IE3- 88.7	89.9	90.0	0.89	6.9	7.2	1.9	3.1	1.6	17	15	***	0.02	65
IE3-K11R 112 M4 Ex e IIC	T1-T3	±10 %	55	3.6	24	1452	IE3- 88.7	89.9	90.0	0.89	6.9	7.2	1.9	3.1	1.6	17	15	PTB09ATEX3004/08	0.02	65
IE3-K11R 132 S4 Ex e IIC	T1-T3	±10 %	55	5.0	33	1465	IE3- 90.4	91.1	90.6	0.86	9.7	6.8	1.9	2.9	1.6	30	28	IBEXU99ATEX1142/84	0.035	90
IE3-K11R 132 M4 Ex e IIC	T1-T3	±10 %	55	6.8	45	1457	IE3- 90.2	90.8	90.7	0.86	13.4	7.1	2.0	3.1	1.5	20	18	IBEXU99ATEX1142/80	0.035	88
IE3-K11R 160 M4 Ex e IIC	T1-T3	±10 %	55	10.0	65	1471	IE3- 91.2	91.2	90.4	0.85	19.6	7.2	2.3	3.0	2.1	26	9	IBEXU99ATEX1105/102	0.078	125
IE3-K11R 160 L4 Ex e IIC	T1-T3	±10 %	55	13.5	88	1473	IE3- 92.0	92.1	91.5	0.87	26	7.8	2.6	3.1	2.1	18	7	PTB08ATEX3038/26	0.115	168
IE3-K11R 180 M4 Ex e IIC	T1-T3	±10 %	55	15.0	97	1478	IE3- 92.2	91.9	90.8	0.84	29.5	7.3	1.9	2.7	1.7	35	12	IBEXU99ATEX1138/51	0.168	215
	T1,T2	±10 %	55	17	110	1473	IE3- 92.4	91.9	91.2	0.86	32.5	6.7	1.6	2.4	1.5	35		IBEXU99ATEX1138/52		
IE3-K11R 180 L4 Ex e IIC	T1-T3	±10 %	50	17.50	113	1479	IE3- 92.6	92.5	91.4	0.86	33.5	8.0	2.0	2.9	1.7	30	12	IBEXU99ATEX1138/55	0.168	240
	T1,T2	±10 %	45	20	129	1476	IE3- 92.8	92.5	91.8	0.86	38	7.0	1.7	2.5	1.5	30		IBEXU99ATEX1138/56		
IE3-K11R 200 L4C Ex e IIC	T1-T3	±10 %	55	24.0	154	1485	IE3- 93.2	93.7	93.3	0.87	45	7.2	1.4	2.3	1.2	35	11	IBEXU99ATEX1143/53	0.313	345
	T1,T2	±10 %	55	27	174	1481	IE3- 93.4	94.6	94.3	0.87	51	6.3	1.3	2.1	1.1	30		IBEXU99ATEX1138/54		
IE3-K11R 225 S4 Ex e IIC	T1-T3	±10 %	50	30.00	193	1483	IE3- 93.8	94.2	93.9	0.85	58	7.8	2.2	2.4	1.7	26	10	IBEXU99ATEX1144/37	0.525	445
	T1,T2	±10 %	50	33	213	1480	IE3- 93.7	93.8	93.9	0.85	64	7.0	2.0	2.2	1.6	24		IBEXU99ATEX1144/38		
IE3-K11R 225 M4 Ex e IIC	T1-T3	±10 %	40	36.00	232	1481	IE3- 93.9	94.3	94.2	0.84	69	7.2	2.0	2.2	1.6	21	7	IBEXU99ATEX1144/39	0.525	450
	T1,T2	±10 %	40	40	259	1477	IE3- 94.1	94.1	94.2	0.85	78	6.4	1.8	2.0	1.4	17		IBEXU99ATEX1144/40		
IE3-K11R 250 M4 Ex e IIC	T1-T3	±10 %	45	44.0	283	1486	IE3- 94.2	94.0	93.4	0.85	84	7.5	1.9	2.2	1.5	28	9	IBEXU99ATEX1131/35	0.95	545
	T1,T2	±10 %	45	50	322	1484	IE3- 94.4	94.1	93.7	0.85	96	6.5	1.7	1.9	1.3	24		IBEXU99ATEX1131/37		
IE3-K11R 280 S4 Ex e IIC	T1-T3	±10 %	45	58.0	372	1488	IE3- 95.4	95.5	95.0	0.82	113	7.8	1.4	2.2	1.2	35	16	IBEXU99ATEX1030/52	1.96	775
	T1,T2	±10 %	45	68	438	1484	IE3- 95.0	95.4	95.2	0.83	132	6.7	1.2	1.8	1.0	30		IBEXU99ATEX1030/53		
IE3-K11R 280 M4 Ex e IIC	T1-T3	±10 %	55	70.0	449	1488	IE3- 95.0	95.1	94.6	0.83	135	8.0	1.6	2.3	1.4	23	8	IBEXU99ATEX1030/54	2.27	855
	T1,T2	±10 %	50	80	514	1485	IE3- 95.1	95.0	94.9	0.83	154	7.0	1.4	2.0	1.2	20		IBEXU99ATEX1030/55		
IE3-K11R 315 S4 Ex e IIC	T1-T3	±10 %	40	84	539	1489	IE3- 95.1	95.1	94.6	0.84	161	8.0	1.5	2.2	1.4	23	8	IBEXU99ATEX1030/85	2.73	995
	T1,T2	±10 %	40	100	643	1485	IE3- 95.3	95.2	95.0	0.84	194	6.6	1.2	1.8	1.1	18		IBEXU99ATEX1030/86		
IE3-K11R 315 M4 Ex e IIC	T1-T3	±10 %	50	100	641	1491	IE3- 95.3	95.2	94.5	0.85	186	7.7	1.3	2.4	1.0	26	7	IBEXU99ATEX1137/90	4.02	1175
	T1-T3	±10 %	45	120	770	1489	IE3- 95.5	95.3	95.0	0.86	225	6.4	1.1	2.0	0.9	21		IBEXU99ATEX1137/91		
IE3-K11R 315 MY4 Ex e IIC	T1-T3	±10 %	40	115	737	1490	IE3- 95.5	95.3	94.5	0.85	218	6.9	1.1	2.1	0.9	35	14	IBEXU99ATEX1137/89	4.82	1200
IE3-K11R 315 L4 Ex e IIC	T1-T3			135	865	1491	IE3-												5.93	1450
IE3-K11R 315 LX4 Ex e IIC	T1-T3			170	1090	1490	IE3-												6.82	1630
IE3-K12R 355 M4 Ex e IIC	T1-T3		40	215	1375	1493	IE3- 96.0	95.8	95.1	0.84	390	7.9	1.4	2.6	1.2	21	7	IBEXU01ATEX1009/18	7.9	2150
IE3-K42R 355 MX4 Ex e IIC	T1-T3		40	240	1538	1490	IE3-												9.5	2400
IE3-K42R 355 L4 Ex e IIC	T1-T3		40	275	1758	1494	IE3-												10	2500
IE3-K42R 400 M4 Ex e IIC	T1-T3		40	300	1918	1494	IE3-												12.6	2900
IE3-K42R 400 L4 Ex e IIC	T1-T3		40	320	2046	1494	IE3-												16.29	3450

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

***) upon request

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Ex II 2G Ex e IIC T1/T2, T3 Gb

Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

Motor selection data															Design point 400 V, 50 Hz				
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cos φ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m
				kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	T2	T3		
							100 %	75 %	50 %	-	A	-	-	-	-	s	s	kgm²	kg
Synchronous speed 1000 rpm – 6-pole version																			
IE3-KPR 80 G6 Ex e IIC	T1-T3	±10 %	60	0.55	5.60	945	IE3- 77.2	77.5	75	0.48	1.53	4.2	2.2	2.4	2.2	84	73	IBEXU02ATEX1112/53	0.00425 18
IE3-KPR 90 L6 Ex e IIC	T1-T3	±10 %	50	0.95	9.45	960	IE3- 80.2	78.6	74.7	0.67	2.65	5.6	3.1	3.5	2.8	46	41	IBEXU02ATEX1113/42	0.00720 30.0
IE3-KPR 100 LX6 Ex e IIC	T1-T3	±10 %	50	1.30	12.9	960	IE3- 81.8	81.5	78.6	0.72	3.20	6.0	2.4	3.2	2.4	97	87	IBEXU02ATEX1114/39	0.01390 36.0
IE3-KPER 112 MV6 Ex e IIC	T1-T3	±10 %	50	1.90	18.8	965	IE3- 83.6	82.6	78.9	0.68	5.1	6.8	3.6	4.3	3.5	42	37	IBEXU02ATEX1115/28	0.01550 48.0
IE3-K11R 160 L6 Ex e IIC	T1-T3	±10 %	55	2.60	26	960	IE3- 86.0	86.9	85.9	0.80	5.9	6.0	2.1	3.1	1.3	25	21	PTB08ATEX3037/18	0.023 60
IE3-K11R 132 M6 Ex e IIC	T1-T3	±10 %	50	3.50	35	965	IE3- 86.7	87.3	86.5	0.82	7.6	5.1	1.7	2.4	1.5	50	43	PTB08ATEX3037/19	0.053 75
IE3-K11R 132 MX6 Ex e IIC	T1-T3	±10 %	55	4.80	47	971	IE3- 88.5	88.7	87.4	0.80	10.2	6.6	2.2	3.1	1.8	44	38	PTB08ATEX3037/20	0.0636 105
IE3-K11R 160 M6 Ex e IIC	T1-T3	±10 %	55	6.60	65	975	IE3- 89.1	89.2	87.9	0.83	13.5	5.7	2.1	2.5	1.7	78	34	PTB08ATEX3038/27	0.145 145
IE3-K11R 160 L6 Ex e IIC	T1-T3	±10 %	55	9.70	95	975	IE3- 90.0	89.7	88.3	0.83	19.6	6.9	2.8	3.0	2.0	40	11	IBEXU99ATEX1105/104	0.166 160
IE3-K11R 180 L6 Ex e IIC	T1-T3	±10 %	50	13.2	129	980	IE3- 91.2	91.4	90.5	0.87	26	6.2	2.1	2.8	1.9	55	22	IBEXU99ATEX1138/48	0.268 215
IE3-K11R 200 L6 Ex e IIC	T1-T3	±10 %	55	16.5	160	983	IE3- 91.5	91.5	90.3	0.88	31	7.5	2.3	3.1	2.0	45	18	IBEXU99ATEX1143/56	0.648 325
IE3-K11R 200 LX6 Ex e IIC	T1-T3	±10 %	55	20.0	194	984	IE3- 92.0	91.5	90.1	0.88	38	7.8	2.4	3.0	1.9	40	14	IBEXU99ATEX1143/48	0.782 360
IE3-K11R 225 M6 Ex e IIC	T1-T3	±10 %	45	27.0	262	984	IE3- 92.7	92.1	90.9	0.85	52	7.3	2.7	2.9	2.1	28	7	IBEXU99ATEX1144/45	0.92 420
IE3-K11R 250 M6 Ex e IIC	T1-T3	±10 %	55	33.0	320	986	IE3- 93.1	92.6	91.6	0.86	62.5	6.5	2.4	2.5	1.7	30	11	IBEXU99ATEX1131/39	1.48 550
IE3-K11R 280 S6 Ex e IIC	T1-T3	±10 %	50	40.0	386	989	IE3- 93.5	93.1	92.1	0.86	76	7.5	2.0	2.6	1.7	40	19	IBEXU99ATEX1030/47	2.63 715
IE3-K11R 280 M6 Ex e IIC	T1-T3	±10 %	50	46.0	444	990	IE3- 93.8	93.6	93.0	0.87	86	7.6	2.1	2.6	1.7	30	13	IBEXU99ATEX1030/56	2.63 740
	T1-T3	±10 %	50	50.0	482	990	IE3- 93.9	93.7	93.3	0.88	94	7.0	1.9	2.4	1.6	28	11	IBEXU99ATEX1030/57	
IE3-K11R 315 S6 Ex e IIC	T1-T3			64.0	618	989	IE3-												3.6 880
IE3-K11R 315 M6 Ex e IIC	T1-T3			76.0	732	992	IE3-												6 1050
IE3-K11R 315 MV6 Ex e IIC	T1-T3			85.0	820	990	IE3-												6.67 1250
IE3-K11R 315 L6 Ex e IIC	T1-T3	±10 %	40	95	914	993	IE3- 95.0	94.6	93.9	0.87	175	8.0	2.2	2.5	1.5	35	14	IBEXU99ATX1137/87	8.6 1470
IE3-K11R 315 LX6 Ex e IIC	T1-T3			110	1061	990	IE3-												8.6 1460
IE3-K12R 355 M6 Ex e IIC	T1-T3			125	1202	993	IE3-												8.2 1650
IE3-K42R 355 MX6 Ex e IIC	T1-T3	±10 %	40	160	1539	993	IE3-												12.1 2200
IE3-K42R 355 L6 Ex e IIC	T1-T3	±10 %	40	180	1731	993	IE3-												14 2400
IE3-K42R 355 LX6 Ex e IIC	T1-T3	±10 %	40	200	1923	993	IE3-												14 2400
IE3-K42R 400 M6 Ex e IIC	T1-T3	±10 %	40	230	2212	993	IE3-												16.54 2900
IE3-K42R 400 L6 Ex e IIC	T1-T3	±10 %	40	250	2404	993	IE3-												20.63 3200
Synchronous speed 750 rpm – 8-pole version																			
IE3-K11R 132 S8 Ex e IIC	T1-T3	±10 %	55	1.9	25	713	IE3- 82.1	92.8	81.2	0.71	4.8	4.7	1.9	2.7	1.8	60	50	IBEXU99ATEX1142/101	0.018 60
IE3-K11R 132 M8 Ex e IIC	T1-T3	±10 %	55	2.6	34	725	IE3- 84.4	84.6	82.6	0.70	6.4	4.4	1.6	2.2	1.5	65	55	IBEXU99ATEX1142/99	0.043 80
IE3-K11R 160 M8 Ex e IIC	T1-T3			3.5	46	720	IE3-												0.053 86
IE3-K11R 160 MX8 Ex e IIC	T1-T3			4.8	64	720	IE3-												0.113 114
IE3-K11R 160 L8 Ex e IIC	T1-T3	±10 %	50	6.6	86	730	IE3- 88.1	88.2	86.6	0.75	14.7	5.2	2.1	2.6	1.9	70	35	IBEXU99ATEX1105/130	0.145 150
IE3-K11R 180 L8 Ex e IIC	T1-T3	±10 %	55	9.7	126	734	IE3- 89.6	89.5	87.8	0.75	21	5.8	2.1	2.8	1.8	55	30	IBEXU99ATEX1138/63	0.228 195
IE3-K11R 200 L8 Ex e IIC	T1-T3	±10 %	55	13.2	173	730	IE3- 89.5	89.7	88.7	0.77	29	5.2	2.0	2.4	1.6	50	16	IBEXU99ATEX1143/67	0.268 230
IE3-K11R 225 S8 Ex e IIC	T1-T3			16.5	216	730	IE3-												0.44 265
IE3-K11R 225 M8 Ex e IIC	T1-T3			20.0	260	735	IE3-												0.825 360
IE3-K11R 250 M8 Ex e IIC	T1-T3			27.0	350	737	IE3-												1.35 465
IE3-K11R 280 S8 Ex e IIC	T1-T3	±10 %		33.0	427	738	IE3- 92.2	92.3	91.2	0.79	68	5.9	2.3	2.4	1.8	35	12		1.55 570
IE3-K11R 280 M8 Ex e IIC	T1-T3			40.0	516	740	IE3-												2.63 690
IE3-K11R 315 S8 Ex e IIC	T1-T3	±10 %	50	50	644	741	IE3- 93.5	93.7	93.1	0.80	100	6.5	1.8	2.2	1.5	45	18	IBEXU99ATEX1137/94	3.33 845
IE3-K11R 315 M8 Ex e IIC	T1-T3			68	878	740	IE3-												3.33 800
IE3-K11R 315 MY8 Ex e IIC	T1-T3			80	1030	742	IE3-												6 1050
IE3-K11R 315 L8 Ex e IIC	T1-T3			95	1221	743	IE3-												6.76 1250
IE3-K11R 315 LX8 Ex e IIC	T1-T3			115	1484	740	IE3-												8.71 1430
IE3-K12R 355 M8 Ex e IIC	T1-T3			140	1807	740	IE3-												9.5 1850
IE3-K42R 355 MX8 Ex e IIC	T1-T3	±10 %	40	180	2323	740	IE3-												13.4 2200
IE3-K42R 355 L8 Ex e IIC	T1-T3	±10 %	40	150	1936	740	IE3-												15.8 2400
IE3-K42R 355 LX8 Ex e IIC	T1-T3	±10 %	40	180	2323	740	IE3-												15.8 2400
IE3-K42R 400 M8 Ex e IIC	T1-T3	±10 %	40	200	2581	740	IE3-												17.94 3000
IE3-K42R 400 L8 Ex e IIC	T1-T3	±10 %	40	230	2940	747	IE3- 95.2	95.2	95	0.77	470	7.5	1.3	2.3	1.2	10	26	IBEXU15ATEX1075/02	22.34 3330

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

 II 2G Ex e IIC T1/T2, T3 Gb

Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																	Design point 400 V, 50 Hz		
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m
				kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	T2 T3 s s		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version																			
IE2-KPR 80 K2 Ex e IIC T2/T3	T1-T3	±5 %	50	0.75	2.5	2870	IE2- 77.4	79.9	79.4	0.88	1.56	6.8	2.6	2.9	2.5	33	29	IBExU02ATEX1112/51	0.00132
IE2-KPR 80 G2 Ex e IIC T2/T3	T1-T3	±5 %	50	1.10	3.7	2870	IE2- 79.6	80.6	79.7	0.89	2.25	7.3	3.0	3.2	2.7	25	22	IBExU02ATEX1112/50	0.00170
IE2-KPR 90 S2 Ex e IIC T2/T3	T1-T3	±5 %	50	1.30	4.3	2870	IE2- 80.5	81.5	81.5	0.91	2.6	6.1	1.8	2.5	1.7	52	41	IBExU02ATEX1113/41	0.00275
IE2-KPR 90 L2 Ex e IIC T2/T3	T1-T3	±5 %	50	1.85	6.2	2860	IE2- 82.3	84.3	82.5	0.89	3.8	6.3	2.0	2.6	1.8	28	21	IBExU02ATEX1113/36	0.00275
IE2-KPR 100 L2 Ex e IIC T2/T3	T1-T3	±5 %	50	2.50	8.2	2910	IE2- 83.8	84.5	82.3	0.89	4.9	6.8	1.7	2.7	1.6	34	25	IBExU02ATEX1114/36	0.00450
IE2-KPER 112 MX2 Ex e IIC T2/T3	T1-T3	±5 %	50	3.30	10.8	2910	IE2- 85.0	85.6	85	0.88	6.5	7.8	1.7	3.3	1.7	27	17	IBExU02ATEX1115/41	0.0055
IE2-K11R 112 M2 Ex e IIC	T1-T3	±10 %	40	4.60	15	2907	IE2- 86.7	87.2	85.4	0.88	9.1	6.8	1.7	2.8	1.3	26	9	IBExU02ATEX1153/05	0.011 56
IE2-K11R 132 S2 Ex e IIC	T1-T3	±10 %	40	4.60	15	2907	IE2- 86.7	87.2	85.4	0.88	9.1	6.8	1.7	2.8	1.3	26	9	IBExU99ATEX1142/92	0.011 56
IE2-K11R 132 S2G Ex e IIC	T1-T3	±10 %	55	4.60	15	2911	IE2- 88.5	89.4	88.9	0.87	9	6.9	1.4	2.7	1.1	25	9	PTB08ATEX3037/21	0.011 58
IE2-K11R 132 SX2 Ex e IIC	T1-T3	±10 %	40	5.5	18	2929	IE2- 88.7	88.4	86.6	0.90	10.2	7.5	2.3	3.1	1.8	25	10	IBExU99ATEX1142/88	0.0168 75
IE2-K11R 132 SX2G Ex e IIC	T1, T2	±10 %	40	6.6	22	2906	IE2- 87.7	88.1	87.2	0.91	12.5	6.1	1.9	2.6	1.5	21		IBExU99ATEX1142/89	
	T1-T3	±10 %	55	5.5	18	2932	IE2- 88.7	88.4	86.6	0.90	10.2	7.6	2.4	3.2	1.9	25	10	IBExU99ATEX1142/72	0.0168 75
	T1, T2	±10 %	55	6.6	22	2916	IE2- 87.7	88.1	87.2	0.91	12.5	6.3	2.0	2.6	1.6	21		IBExU99ATEX1142/74	
IE2-K11R 160 M2 Ex e IIC	T1-T3	±10 %	55	7.5	24	2944	IE2- 90.0	90.5	89.7	0.92	13	7.0	1.7	2.5	1.4	40	21	IBExU99ATEX1105/116	0.0258 125
	T1, T2	±10 %	55	9.5	31	2918	IE2- 89.1	90.5	90.6	0.92	16.6	5.5	1.4	2.0	1.1	35	13	IBExU99ATEX1105/117	
IE2-K11R 160 M2G Ex e IIC	T1-T3	±10 %	55	7.5	24	2941	IE2- 90.0	90.5	89.7	0.92	13.7	6.7	1.7	2.5	1.4	35	16	IBExU99ATEX1105/123	0.0258 125
	T1, T2	±10 %	50	9.5	31	2916	IE2- 89.1	90.5	90.6	0.92	18	5.1	1.4	2.0	1.1	29		IBExU99ATEX1105/124	
IE2-K11R 160 MX2 Ex e IIC	T1-T3	±10 %	55	10.0	32	2925	IE2- 90.4	91.0	90.6	0.92	18.3	6.8	1.7	2.4	1.3	30	13	IBExU99ATEX1105/93	0.0675 140
	T1, T2	±10 %	55	13.0	43	2904	IE2- 89.9	90.7	91.2	0.90	25	4.9	1.3	1.8	1.0	18		IBExU99ATEX1105/95	
IE2-K11R 160 MX2G Ex e IIC	T1-T3	±10 %	55	10.0	32	2945	IE2- 91.4	92.2	92.0	0.93	18.2	7.0	1.7	2.4	1.3	30	12	IBExU99ATEX1105/123	0.0675 140
	T1, T2	±10 %	50	13.0	43	2914	IE2- 89.9	91.3	92.2	0.92	24.5	5.1	1.3	1.8	1.0	20		IBExU99ATEX1105/111	
IE2-K11R 160 L2 Ex e IIC	T1-T3	±10 %	40	12.5	41	2946	IE2- 91.4	91.8	91.6	0.92	23	7.3	2.0	2.7	1.5	25	8	IBExU99ATEX1105/112	0.0675 135
	T1, T2	±10 %	40	16.0	52	2916	IE2- 90.9	92.4	92.0	0.92	30.5	5.5	1.6	2.1	1.2	14		IBExU99ATEX1105/113	
IE2-K11R 160 L2G Ex e IIC	T1-T3	±10 %	45	12.5	41	2942	IE2- 91.4	92.4	92.5	0.91	22.5	7.3	2.0	2.7	1.5	19	7	IBExU99ATEX1105/108	0.0675 135
	T1, T2	±5 %	45	16.0	52	2912	IE2- 90.5	91.3	92.4	0.92	28	5.8	1.6	2.1	1.2	13		IBExU99ATEX1105/109	
	T1-T3	±10 %	55	15	49	2957	IE2- 91.8	92.1	91.5	0.91	27.5	7.1	1.7	2.6	1.4	27	12	PTB08ATEX3039/14	0.105 180
IE2-K11R 180 M2 Ex e IIC	T1, T2	±10 %	50	19.0	62	2934	IE2- 91.0	91.8	91.9	0.92	35.5	5.5	1.4	2.0	1.1	21		PTB08ATEX3039/15	
	T1-T3	±10 %	55	15	48	2955	IE2- 91.8	92.8	92.6	0.92	27.0	7.3	1.7	2.6	1.4	35	13	IBExU99ATEX1138/45	0.105 180
	T1, T2	±10 %	50	19.0	62	2936	IE2- 91.3	92.4	92.2	0.92	34.5	5.6	1.3	2.1	1.1	25		IBExU99ATEX1138/47	
IE2-K11R 200 L2 Ex e IIC	T1-T3	±10 %	50	20	64	2955	IE2- 92.2	92.4	91.8	0.91	36.5	7.6	1.9	2.8	1.4	24	7	IBExU99ATEX1143/43	0.128 215
	T1, T2	±10 %	50	25.0	81	2939	IE2- 91.6	92.2	92.3	0.91	46	6.1	1.5	2.2	1.1	16		IBExU99ATEX1143/55	
IE2-K11R 200 L2G Ex e IIC	T1-T3	±5 %	40	20	64	2954	IE2- 92.1	92.9	92.9	0.92	34	8.0	1.9	2.8	1.4	24	8	IBExU99ATEX1143/37	0.128 215
	T1, T2	±5 %	40	25	81	2931	IE2- 91.6	92.3	93.0	0.93	43.5	6.4	1.5	2.2	1.1	17		IBExU99ATEX1143/58	
IE2-K11R 200 LX2 Ex e IIC	T1-T3	±5 %	40	24	77	2961	IE2- 92.7	93.0	92.5	0.91	41.5	7.9	1.8	2.7	1.3	21	8	IBExU99ATEX1143/39	0.193 290
	T1, T2	±5 %	40	31	101	2938	IE2- 92.1	92.8	92.8	0.90	54.5	6.0	1.4	2.1	1.0	15		IBExU99ATEX1143/40	
IE2-K11R 200 LX2G Ex e IIC	T1-T3	±5 %	24	77	2961	IE2- 92.7	93.0	92.5	0.91	41.5	7.9	1.8	2.7	1.3	-	-			0.193 190
	T1, T2	±5 %	31	101	2938	IE2- 92.1	92.8	92.8	0.90	54.5	6.0	1.4	2.1	1.0	-	-			
	T1-T3	±5 %	50	28	89	2971	IE2- 92.1	91.8	90.2	0.91	48	7.6	1.5	2.5	0.9	35	17	IBExU99ATEX1144/31	0.375 400
IE2-K11R 225 M2 Ex e IIC	T1, T2	±5 %	40	38	122	2952	IE2- 92.5	92.0	91.4	0.90	66.5	5.5	1.1	1.8	0.7	28		IBExU99ATEX1144/32	
	T1-T3	±5 %	28	89	2971	IE2- 92.1	91.8	90.2	0.91	48	7.6	1.5	2.5	0.9	-	-			0.375 295
	T1, T2	±5 %	38	122	2952	IE2- 92.5	92.0	91.4	0.90	66	5.5	1.1	1.8	0.7	-	-			
IE2-K11R 250 M2 Ex e IIC	T1-T3	±5 %	40	36	115	2976	IE2- 93.0	92.4	90.5	0.92	60.5	7.8	1.8	2.5	1.5	40	20	IBExU99ATEX1131/29	0.65 500
	T1, T2	±5 %	40	47	151	2966	IE2- 93.0	92.7	91.8	0.92	79	6.0	1.4	1.9	1.1	35		IBExU99ATEX1131/31	
IE2-K11R 250 M2G Ex e IIC	T1-T3	±5 %	36	115	2976	IE2- 93.0	92.4	90.5	0.92	60.5	7.8	1.8	2.5	1.5	-	-			0.65 500
	T1, T2	±5 %	47	151	2966	IE2- 93.0	92.7	91.8	0.92	79	6.0	1.4	1.9	1.1	-	-			
IE2-K11R 280 S2 Ex e IIC	T1-T3	±10 %	40	47	151	2963	IE2- 93.0	92.2	90.8	0.93	79	7.1	1.6	2.3	1.4	30	15	IBExU99ATEX1030/41	0.68 545
	T1, T2	±5 %	40	47	151	2963	IE2- 93.0	92.2	90.8	0.93	79	7.1	1.6	2.3	1.4	30		IBExU99ATEX1030/41	
IE2-K11R 280 S2G Ex e IIC	T1-T3	±10 %	40	47	151	2969	IE2- 93.5	93.7	92.9	0.92	83	6.8	1.6	2.3	1.4	30	13	IBExU99ATEX1030/46	0.68 545
	T1, T2	±10 %	40	47	151	2969	IE2- 93.5	93.7	92.9	0.92	83	6.8	1.6	2.3	1.4	30		IBExU99ATEX1030/46	
IE2-K11R 280 M2 Ex e IIC	T1-T3	±5 %	40	58	186	2969	IE2- 93.6	93.5	92.4	0.92	98	8.0	1.9	2.6	1.6	22	9	IBExU99ATEX1030/35	0.68 570
	T1, T2	±5 %	40	76	245	2956	IE2- 93.6	93.5	93.1	0.91	129	6.1	1.4	2.0	1.2	16		IBExU99ATEX1030/37	
IE2-K11R 280 M2G Ex e IIC	T1-T3	±5 %	58	186	2969	IE2- 93.6	93.5	92.4	0.92	98	8.0	1.9	2.6	1.6	-	-			0.68 550
	T1, T2	±5 %	76.0	245	2956	IE2- 93.6	93.5	93.1	0.91	129	6.1	1.4	2.0	1.2	-	-			

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2 Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7

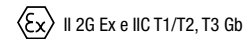
II 2G Ex e IIC T1/T2, T3 Gb

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																	Design point 400 V, 50 Hz			
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m	
				kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	T2	T3			
							100 %	75 %	50 %	-	A	-	-	-	-	s	s	kgm²	kg	
Synchronous speed 3000 rpm – 2-pole version																				
IE2-K11R 315 S2 Ex e IIC	T1-T3	±5 %	55	68	216	2975	IE2- 94.2	94.3	93.7	0.89	118	7.7	1.3	2.1	1.2	24	9	IBExU99ATEX1137/74	1.44	850
	T1, T2	±5 %	55	68	216	2975	IE2- 94.2	94.3	93.7	0.89	118	7.7	1.3	2.1	1.2	24				
IE2-K11R 315 S2G Ex e IIC	T1-T3	±5 %		68	216	2975	IE2- 94.2	94.3	93.7	0.89	118	7.7	1.3	2.1	1.2	-	-		1.44	850
	T1, T2	±5 %		68	216	2975	IE2- 94.2	94.3	93.7	0.89	118	7.7	1.3	2.1	1.2	-	-			
IE2-K11R 315 M2 Ex e IIC	T1-T3	±5 %	50	80	255	2973	IE2- 93.9	93.7	92.7	0.89	138	7.4	1.2	1.8	1.0	23	8	IBExU99ATEX1137/76	1.76	970
	T1, T2	±5 %	50	80	255	2973	IE2- 93.9	93.7	92.7	0.89	138	7.4	1.2	1.8	1.0	23				
IE2-K11R 315 M2G Ex e IIC	T1-T3	±5 %		80	255	2973	IE2- 93.9	93.7	92.7	0.89	138	7.4	1.2	1.8	1.0	-	-		1.76	970
	T1, T2	±5 %		80	255	2973	IE2- 93.9	93.7	92.7	0.89	138	7.4	1.2	1.8	1.0	-	-			
IE2-K11R 315 MY2 Ex e IIC	T1-T3	±5 %	40	110	349	2980	IE2- 95.1	95.2	94.8	0.93	180	6.9	1.0	2.4	0.7	35	11	IBExU99ATEX1137/64	2.82	1270
	T1, T2	±5 %	40	110	349	2970	IE2- 95.1	95.2	94.8	0.93	180	6.9	1.0	2.4	0.7	35				
IE2-K11R 315 MY2G Ex e IIC	T1-T3	±5 %		110	349	2980	IE2- 95.1	95.2	94.8	0.93	180	6.9	1.0	2.4	0.7	-	-		2.82	1200
	T1, T2	±5 %		110	349	2970	IE2- 95.1	95.2	94.8	0.93	180	6.9	1.0	2.4	0.7	-	-			
IE2-K11R 315 L2 Ex e IIC	T1-T3			125	401	2980	IE2-									-	-		3.66	1450
IE2-K11R 315 L2G Ex e IIC	T1-T3			125	401	2980	IE2-									-	-		3.66	1450
IE2-K11R 315 LX2 Ex e IIC	T1-T3			150	480	2985	IE2-									-	-		4.43	1630
IE2-K11R 315 LX2G Ex e IIC	T1-T3			150	480	2985	IE2-									-	-		4.43	1630
IE2-K12R 355 M2 Ex e IIC	T1-T3			190	609	2980	IE2-									-	-		4.2	2000
IE2-K12R 355 MX2 Ex e IIC	T1-T3			220	705	2980	IE2-									-	-		4.5	2200
IE2-K12R 355 L2 Ex e IIC	T1-T3			250	801	2980	IE2-									-	-		7.1	2400

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2



Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																Design point 400 V, 50 Hz			
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m
				kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	T2 s	T3 s	kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version																			
IE2-KPR 80 G4 Ex e IIC	T1-T3	±5 %	50	0.75	5.0	1430	IE2- 79.6	80.4	78.8	0.8	1.70	6.3	3.0	3.2	2.9	37	32	IBExU02ATEX1112/52	0.00260 17.0
IE2-KPR 90 S4 Ex e IIC	T1-T3	±5 %	50	1.00	6.6	1440	IE2- 81.0	81.1	78.7	0.78	2.3	6.8	3.1	3.5	2.9	34	30	IBExU02ATEX1113/40	0.00400 23.0
IE2-KPR 90 L4 Ex e IIC	T1-T3	±5 %	50	1.35	8.9	1450	IE2- 82.3	81.9	78.4	0.73	3.2	7.4	3.5	4.1	3.4	22	20	IBExU02ATEX1113/37	0.00450 28.0
IE2-KPR 100 L4 Ex e IIC	T1-T3	±5 %	50	2.00	13.3	1440	IE2- 83.9	84.2	82.9	0.83	4.3	6.7	2.5	3.1	2.4	30	26	IBExU02ATEX1114/37	0.00900 36.0
IE2-KPR 100 LX4 Ex e IIC	T1-T3	±5 %	50	2.50	16.6	1440	IE2- 84.8	85.5	84.7	0.83	5.3	7.3	2.7	3.5	2.5	27	24	IBExU02ATEX1114/38	0.01100 45.0
IE2-KPER 112 MZ4 Ex e IIC	T1-T3	±5 %	50	3.60	23.9	1440	IE2- 86.2	86.8	85.6	0.82	7.5	7.4	2.6	3.4	2.3	18	16	IBExU02ATEX1115/29	0.0130 50.0
IE2-K11R 132 S4 Ex e IIC	T1-T3	±10 %	40	5.0	33	1469	IE2- 89.0	89.2	87.6	0.82	10.1	7.7	2.2	3.3	1.8	21	18	IBExU99ATEX1142/93	0.028 70
IE2-K11R 132 M4 Ex e IIC	T1-T3	±10 %	55	6.8	45	1464	IE2- 89.5	90.2	89.8	0.85	13.4	7.2	2.1	3.1	1.7	20	18	IBExU99ATEX1142/78	0.035 88
IE2-K11R 160 M4 Ex e IIC	T1-T3	±10 %	40	10.0	65	1468	IE2- 90.0	90.7	90.0	0.87	18.5	7.1	2.3	2.6	1.8	30	16	IBExU99ATEX1105/60	0.078 120
IE2-K11R 160 L4 Ex e IIC	T1-T3	±10 %	40	13.5	87	1471	IE2- 91.4	92.1	91.8	0.88	24	7.8	2.3	2.8	1.9	27	14	IBExU99ATEX1105/72	0.115 140
IE2-K11R 180 M4 Ex e IIC	T1-T3	±10 %	55	15.0	97	1479	IE2- 91.5	91.7	90.8	0.86	28.5	7.9	2.1	2.9	1.7	35	14	IBExU99ATEX1138/57	0.168 215
IE2-K11R 180 L4 Ex e IIC	T1, T2	±10 %	55	17.0	111.0	1475	IE2- 91.0	91.6	91.2	0.87	32.5	6.9	1.8	2.5	1.6	35			
	T1-T3	±5 %	40	17.5	112	1477	IE2- 92.1	92.3	91.5	0.86	31.5	7.9	2.0	2.9	1.6	30	14	IBExU99ATEX1138/36	0.168 215
IE2-K11R 200 L4 Ex e IIC	T1, T2	±5 %	40	20.0	129.0	1472	IE2- 91.5	92.1	91.8	0.87	36	7.0	1.7	2.5	1.4	30			
	T1-T3	±10 %	50	24.0	155	1481	IE2- 91.8	92.3	91.5	0.85	46	7.8	1.7	2.4	1.5	25	8	IBExU99ATEX1143/59	0.275 310
IE2-K11R 225 S4 Ex e IIC	T1, T2	±10 %	50	27.0	175.0	1478	IE2- 92.1	92.5	92.0	0.85	52	6.9	1.7	2.4	1.5	22			
	T1-T3	±5 %	40	30.0	188	1480	IE2- 93.0	93.3	92.8	0.85	55	7.3	1.9	2.0	1.6	35	16	IBExU99ATEX1144/28	0.525 405
IE2-K11R 225 M4 Ex e IIC	T1, T2	±5 %	40	33.0	208.0	1477	IE2- 92.6	93.2	93.0	0.85	60	6.7	1.7	1.9	1.4	30			
	T1-T3	±5 %	40	36.0	227	1480	IE2- 93.1	93.6	93.2	0.84	66	7.5	1.9	2.1	1.6	22	7	IBExU99ATEX1144/26	0.525 405
IE2-K12R 225 M4 Ex e IIC	T1, T2	±5 %	40	40.0	253.0	1476	IE2- 92.9	93.5	93.4	0.85	74	6.8	1.7	1.9	1.5	19			
	T1-T3	±10 %	40	36.0	227	1482	IE2- 92.9	93.5	93.3	0.85	70	7.1	1.9	1.6	2.1	28	8	IBExU99ATEX1144/46	0.619 435
IE2-K11R 250 M4 Ex e IIC	T1, T2	±10 %	40	40.0	253	1478	IE2- 92.9	93.4	93.6	0.85	78	6.3	1.7	1.5	1.9	26			
	T1-T3	±10 %	50	44.0	277	1486	IE2- 93.1	93.2	92.5	0.85	85	7.6	1.9	2.3	1.5	27	8	IBExU99ATEX1031/40	0.95 545
IE2-K11R 280 S4 Ex e IIC	T1, T2	±10 %	50	50.0	316	1483	IE2- 93.3	93.2	92.8	0.85	96	6.7	1.6	2.0	1.3	24			
	T1-T3	±10 %	50	58.0	373	1483	IE2- 94.1	93.9	92.8	0.83	114	7.2	1.3	2.0	1.2	30	13	IBExU99ATEX1030/48	1.96 785
IE2-K11R 280 M4 Ex e IIC	T1, T2	±10 %	45	68.0	437	1473	IE2- 93.8	93.8	93.1	0.83	134	6.2	1.1	1.7	1.0	30			
	T1-T3	±10 %	45	70.0	448	1486	IE2- 93.9	93.9	93.1	0.84	135	7.2	1.3	2.0	1.2	28	11	IBExU99ATEX1030/59	1.96 810
IE2-K11R 315 S4 Ex e IIC	T1, T2	±10 %	40	80.0	514	1484	IE2- 94.1	93.9	93.5	0.84	156	6.2	1.2	1.7	1.1	25			
	T1-T3	±5 %	40	84	538	1487	IE2- 94.4	94.5	93.9	0.84	153	7.2	1.5	2.2	1.4	21	8	IBExU99ATEX1137/69	2.27 890
IE2-K11R 315 M4 Ex e IIC	T1, T2	±5 %	40	100	641	1482	IE2- 94.4	94.6	94.3	0.85	181	6.1	1.3	1.8	1.2	18			
	T1-T3		40	100	643	1485	IE2-												
IE2-K11R 315 MY4 Ex e IIC	T1-T3			115	738	1489	IE2-												2.73 975
IE2-K11R 315 L4 Ex e IIC	T1-T3	±10 %	55	135	860	1491	IE2- 95.1	95.3	94.8	0.86	250	7.5	1.2	2.0	0.9	29	10	IBExU99ATEX1137/81	4.82 1270
IE2-K11R 315 LX4 Ex e IIC	T1-T3	±5 %	40	170	1085	1491	IE2- 95.1	95.2	94.7	0.86	301	7.2	1.0	2.0	0.9	29	8	IBExU99ATEX1137/79	5.93 1510
IE2-K12R 355 M4 Ex e IIC	T1-T3	±5 %	40	215	1377	1493	IE2- 95.8	95.7	92.1	0.84	390	7.9	1.4	2.6	1.2	21	7	IBExU01ATEX1009/12	6.82 1695
IE2-K12R 355 MX4 Ex e IIC	T1-T3			240	1538	1490	IE2-												7.9 2150
IE2-K12R 355 L4 Ex e IIC																			9.5 2400
																			10 2500

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2 Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7

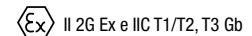
II 2G Ex e IIC T1/T2, T3 Gb

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																Design point 400 V, 50 Hz				
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m	
				kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	T2	T3			
							100 %	75 %	50 %	-	A	-	-	-	-	s	s	kgm ²	kg	
Synchronous speed 1000 rpm – 6-pole version																				
IE2-KPR 90 L6 Ex e IIC	T1-T3	±5 %	50	0.95	9.45	960	IE2- 77.3	75.8	72	0.67	2.65	5.6	3.1	3.5	2.8	46	41	IBExU02ATEX1113/42	0.00720	30.0
IE2-KPR 100 LX6 Ex e IIC	T1-T3	±5 %	50	1.30	12.9	960	IE2- 79.0	81.1	78.2	0.72	3.20	6.0	2.4	3.2	2.4	97	87	IBExU02ATEX1114/39	0.01390	36.0
IE2-KPER 112 M6 Ex e IIC	T1-T3	±5 %	50	1.90	18.8	965	IE2- 81.1	80.2	76.6	0.67	5.1	6.8	3.6	4.3	3.5	42	37	IBExU02ATEX1115/28	0.01550	48.0
IE2-K11R 132 S6 Ex e IIC	T1-T3	±10 %	40	2.60	26	959	IE2- 84.4	85.3	84.6	0.83	5.6	5.7	1.8	2.8	1.3	35	30	IBExU99ATEX1142/94	0.023	60
IE2-K11R 132 M6 Ex e IIC	T1-T3	±10 %	50	3.50	35	952	IE2- 84.9	86.2	85.7	0.83	7.1	5.8	1.7	2.8	1.1	30	27	IBExU99ATEX1142/82	0.029	60
IE2-K11R 132 MX6 Ex e IIC	T1-T3	±10 %	55	4.80	48	966	IE2- 86.8	87.5	86.4	0.82	10.2	5.4	1.8	2.5	1.5	45	40	IBExU99ATEX1142/76	0.053	90
IE2-K11R 160 M6 Ex e IIC	T1-T3	±10 %	50	6.60	65	969	IE2- 87.7	88.1	87.0	0.80	13.9	6.1	2.0	2.8	1.7	30	29	IBExU99ATEX1105/91	0.0656	105
IE2-K11R 160 L6 Ex e IIC	T1-T3	±10 %	40	9.7	96	972	IE2- 88.5	88.8	87.7	0.84	19.7	5.7	2.3	2.7	2.0	60	24	IBExU99A-TEX1105/122	0.145	145
IE2-K11R 180 L6 Ex e IIC	T1-T3	±10 %	50	13.2	129	977	IE2- 89.4	89.3	87.7	0.84	26.5	6.4	2.1	2.7	1.9	45	16	IBExU99ATEX1138/42	0.228	190
IE2-K11R 200 L6 Ex e IIC	T1-T3	±5 %	40	16.5	161	979	IE2- 90.4	90.2	88.5	0.84	31.5	7.3	2.4	3.0	2.2	35	13	IBExU99ATEX1143/44	0.268	200
IE2-K11R 200 LX6 Ex e IIC	T1-T3	±10 %	40	20.0	195	980	IE2- 90.6	90.6	89.4	0.86	39	6.5	2.4	2.7	1.8	40	14	IBExU99ATEX1143/47	0.443	295
IE2-K11R 225 M6 Ex e IIC	T1-T3	±10 %	40	27.0	262	981	IE2- 91.5	91.9	91.2	0.85	50	6.5	2.7	2.6	2.0	30	9	IBExU99ATEX1144/36	0.825	385
IE2-K11R 250 M6 Ex e IIC	T1-T3	±10 %	40	33.0	320	983	IE2- 92.0	92.1	91.4	0.86	64	6.0	2.5	2.3	1.7	29	8	IBExU99ATEX1131/33	1.28	490
IE2-K11R 280 S6 Ex e IIC	T1-T3	±5 %	40	40.0	386	986	IE2- 92.7	92.9	92.1	0.86	72.5	7.3	2.5	2.6	2.0	25	8	IBExU99ATEX1030/43	1.48	570
IE2-K11R 280 M6 Ex e IIC	T1-T3	±10 %	45	46.0	436	990	IE2- 92.8	93.6	93.0	0.86	87	7.3	2.0	2.6	1.6	37	15	PTB08ATEX3043/15	2.63	740
	T1, T2	±10 %	45	50.0	478	989	IE2- 93.5	93.8	93.4	0.87	94	6.7	1.8	2.4	1.5	34		PTB08ATEX3043/17		
IE2-K11R 315 S6 Ex e IIC	T1-T3	±5 %	40	64.0	618	989	IE2- 93.6	93.7	93.5	0.88	113	7.0	1.9	2.4	1.5	30	12	IBExU99ATEX1137/67	3.33	850
	T1, T2	±5 %	40	68.0	657	988	IE2- 93.5	93.6	93.5	0.88	120	6.6	1.8	2.2	1.4	29		IBExU99ATEX1137/68		
IE2-K12R 315 S6 Ex e IIC	T1-T3	±10 %	40	64.0	613	991	IE2- 93.7	93.6	93.3	0.88	118	7.4	1.6	2.5	1.4	30	12	IBExU99ATEX1137/72	3.33	850
	T1, T2	±10 %	40	68.0	653	989	IE2- 93.8	93.5	93.3	0.89	126	6.9	1.5	2.4	1.3	30		IBExU99ATEX1137/82		
IE2-K11R 315 M6 Ex e IIC	T1-T3			76.0	732	992	IE2-										-		3.6	1148
	T1, T2			82	791	990	IE2-													
IE2-K11R 315 MY6 Ex e IIC	T1-T3			85.0	820	990	IE2-											-	6	1250
	T1, T2			92	890	987	IE2-													
IE2-K11R 315 L6 Ex e IIC	T1-T3			95	921	985	IE2-											-	6.67	1250
IE2-K11R 315 LX6 Ex e IIC	T1-T3			110	1061	990	IE2-											-	8.6	1460
	T1, T2			120	1158	990	IE2-													
IE2-K12R 355 M6 Ex e IIC	T1-T3			125	1202	993	IE2-											-	8.2	1850
	T1, T2			135	1302	990	IE2-													
IE2-K12R 355 MX6 Ex e IIC	T1-T3			160	1539	993	IE2-											-	12.1	2200
	T1, T2			175	1688	990	IE2-													
IE2-K12R 355 L6 Ex e IIC	T1-T3			200	1923	993	IE2-											-	14	2400
	T1, T2			215	2074	990	IE2-													
IE2-K42R 400 M6 Ex e IIC	T1-T3	±10 %	40	230	2208	995	IE2- 95.1	95.2	95.1	0.84	438	7.6	1.1	2.1	1.1	11	15	IBExU15ATEX1075/01	16.54	3000
Synchronous speed 750 rpm – 8-pole version																				
IE2-K11R 132 S8 Ex e IIC	T1-T3			1.9	26	700												-	0.018	53
IE2-K11R 132 M8 Ex e IIC	T1-T3			2.6	35	705												-	0.043	70
IE2-K11R 160 M8 Ex e IIC	T1-T3			3.5	46	720												-	0.053	86
IE2-K11R 160 MX8 Ex e IIC	T1-T3			4.8	64	720												-	0.113	114
IE2-K11R 160 L8 Ex e IIC	T1-T3			6.6	86	730												-	0.145	136
IE2-K11R 180 L8 Ex e IIC	T1-T3			9.7	128	725												-	0.228	175
IE2-K11R 200 L8 Ex e IIC	T1-T3	±10 %	55	13.2	173	730	IE2- 89.1	89.4	88.5	0.77	29	5.2	2.0	2.4	1.6	50	16	IBExU99ATEX1143/66	0.268	230
IE2-K11R 225 S8 Ex e IIC	T1-T3			16.5	216	730												-	0.44	265
IE2-K11R 225 M8 Ex e IIC	T1-T3			20.0	260	735												-	0.825	360
IE2-K11R 250 M8 Ex e IIC	T1-T3			27.0	350	737												-	1.35	465
IE2-K11R 280 S8 Ex e IIC	T1-T3	±10 %	40	33.0	425	738	IE2- 92.2	92.3	91.2	0.79	68	5.9	2.3	2.4	1.8	12	35	IBExU99ATEX1030/63	1.55	570
IE2-K11R 280 M8 Ex e IIC	T1-T3			40.0	516	740												-	2.63	690
IE2-K11R 315 S8 Ex e IIC	T1-T3			50	645	740												-	3.33	800
IE2-K11R 315 M8 Ex e IIC	T1-T3			68	878	740												-	3.33	800
IE2-K11R 315 MY8 Ex e IIC	T1-T3			80	1030	742												-	6	1050
IE2-K11R 315 L8 Ex e IIC	T1-T3			95	1221	743												-	6.76	1250
IE2-K11R 315 LX8 Ex e IIC	T1-T3			115	1484	740												-	8.71	1430
IE2-K12R 355 M8 Ex e IIC	T1-T3			140	1807	740												-	9.5	1850
IE2-K12R 355 MX8 Ex e IIC	T1-T3			180	2323	740												-	13.4	2200
IE2-K12R 355 L8 Ex e IIC	T1-T3			210	2710	740												-	15.8	2400

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2



Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

Motor selection data															Design point 400 V, 50 Hz				
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m
				kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	T2 T3		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version																			
IE2-KPR 80 K2 Ex e IIC	T1-T3	±5 %	50	0.75	2.5	2870	IE2- 77.4	79.9	79.4	0.88	1.56	6.8	2.6	2.9	2.5	33	29	IBExU02ATEX1112	0.00132
IE2-KPR 80 G2 Ex e IIC	T1-T3	±5 %	50	1.10	3.7	2870	IE2- 79.6	80.6	79.7	0.89	2.25	7.3	3.0	3.2	2.7	25	22	IBExU02ATEX1112	0.00170
IE2-KPR 90 S2 Ex e IIC	T1-T3	±5 %	50	1.30	4.3	2870	IE2- 80.5	81.5	81.5	0.91	2.6	6.1	1.8	2.5	1.7	52	41	IBExU02ATEX1113	0.00275
IE2-KPR 90 L2 Ex e IIC	T1-T3	±5 %	50	1.85	6.2	2860	IE2- 82.3	84.3	82.5	0.89	3.8	6.3	2.0	2.6	1.8	28	21	IBExU02ATEX1113	0.00275
IE2-KPR 100 L2 Ex e IIC	T1-T3	±5 %	50	2.50	8.2	2910	IE2- 83.8	84.5	82.3	0.89	4.9	6.8	1.7	2.7	1.6	34	25	IBExU02ATEX1114	0.00450
IE2-KPER 112 M2 Ex e IIC	T1-T3	±5 %	50	3.30	10.8	2910	IE2- 85.0	85.6	85	0.88	6.5	7.8	1.7	3.3	1.7	27	17	IBExU02ATEX1115	0.0055
IE2-K11R 112 M2 Ex e IIC	T1-T3	±10 %	40	4.60	15	2907	IE2- 86.7	87.2	85.4	0.88	9.1	6.8	1.7	2.8	1.3	26	9	IBExU02ATEX1153/05	0.011 58
IE2-K11R 132 S2 Ex e IIC	T1-T3	±10 %	40	4.60	15	2911	IE2- 88.5	89.4	88.9	0.87	9	6.9	1.4	2.7	1.1	25	7	PTB08ATEX3037/21	0.011 58
IE2-K11R 132 S2G Ex e IIC	T1-T3	±10 %	40	5.5	18	2929	IE2- 88.7	88.4	86.6	0.90	10.2	7.5	2.3	3.1	1.8	25	10	IBExU99ATEX1142/88	0.0168 75
IE2-K11R 132 S2G Ex e IIC	T1,T2	±10 %	40	6.6	22	2906	IE2- 87.7	88.1	87.2	0.91	12.5	6.1	1.9	2.6	1.5	21		IBExU99ATEX1142/89	
	T1-T3	±10 %	55	5.5	18	2932	IE2- 88.7	88.4	86.6	0.90	10.2	7.6	2.4	3.2	1.9	25	10	IBExU99ATEX1142/72	0.0168 75
IE2-K11R 132 S2G Ex e IIC	T1,T2	±10 %	55	6.6	22	2916	IE2- 87.7	88.1	87.2	0.91	12.5	6.3	2.0	2.6	1.6	21		IBExU99ATEX1142/74	
	T1-T3	±10 %	55	7.5	24	2944	IE2- 90.0	90.5	89.7	0.92	13	7.0	1.7	2.5	1.4	40	21	IBExU99ATEX1105/116	0.0258 125
IE2-K11R 160 M2 Ex e IIC	T1,T2	±10 %	55	9.5	31	2918	IE2- 89.1	90.5	90.6	0.92	16.6	5.5	1.4	2.0	1.1	35	13	IBExU99ATEX1105/117	
	T1-T3	±10 %	55	7.5	24	2941	IE2- 90.0	90.5	89.7	0.92	13.7	6.7	1.7	2.5	1.4	35	16	IBExU99ATEX1105/123	0.0258 125
IE2-K11R 160 M2G Ex e IIC	T1,T2	±10 %	50	9.5	31	2916	IE2- 89.1	90.5	90.6	0.92	18	5.1	1.4	2.0	1.1	29		IBExU99ATEX1105/124	
	T1-T3	±10 %	55	10.0	32	2925	IE2- 90.4	91.0	90.6	0.92	18.3	6.8	1.7	2.4	1.3	30	13	IBExU99ATEX1105/93	0.0675 140
IE2-K11R 160 M2G Ex e IIC	T1,T2	±10 %	55	13.0	43	2904	IE2- 89.9	90.7	91.2	0.90	25	4.9	1.3	1.8	1.0	18		IBExU99ATEX1105/95	
	T1-T3	±10 %	55	10.0	32	2945	IE2- 91.4	92.2	92.0	0.92	18.2	7.0	1.7	2.4	1.3	30	12	IBExU99ATEX1105/110	0.0675 140
IE2-K11R 160 L2 Ex e IIC	T1,T2	±10 %	50	13.0	43	2914	IE2- 89.9	91.3	92.2	0.92	24.5	5.1	1.3	1.8	1.0	20		IBExU99ATEX1105/111	
	T1-T3	±10 %	40	12.5	41	2946	IE2- 91.4	91.8	91.6	0.92	23	7.3	2.0	2.7	1.5	25	8	IBExU99ATEX1105/112	0.0675 135
IE2-K11R 160 L2G Ex e IIC	T1,T2	±10 %	40	16.0	52	2916	IE2- 90.9	92.4	92.0	0.92	30.5	5.5	1.6	2.1	1.2	14		IBExU99ATEX1105/113	
	T1-T3	±10 %	45	12.5	41	2942	IE2- 91.4	92.4	92.5	0.91	22.5	7.3	2.0	2.7	1.5	19	7	IBExU99ATEX1105/108	0.0675 135
IE2-K11R 160 L2G Ex e IIC	T1,T2	±5 %	45	16.0	52	2912	IE2- 90.5	91.3	92.4	0.92	28	5.8	1.6	2.1	1.2	13		IBExU99ATEX1105/109	
	T1-T3	±10 %	55	15	49	2957	IE2- 91.8	92.1	91.5	0.91	27.5	7.1	1.7	2.6	1.4	27	12	PTB08ATEX3039/14	0.105 180
IE2-K11R 180 M2 Ex e IIC	T1,T2	±10 %	50	19.0	62	2934	IE2- 91.0	91.8	91.9	0.92	35.5	5.5	1.4	2.0	1.1	21		PTB08ATEX3039/15	
	T1-T3	±10 %	55	15	48	2955	IE2- 91.8	91.8	92.6	0.92	27.0	7.3	1.7	2.6	1.4	35	13	IBExU99ATEX1138/45	0.105 180
IE2-K11R 180 M2G Ex e IIC	T1,T2	±10 %	50	19.0	62	2936	IE2- 91.3	92.4	92.2	0.92	34.5	5.6	1.3	2.1	1.1	25		IBExU99ATEX1138/47	
	T1-T3	±10 %	50	20	64	2955	IE2- 92.2	92.4	91.8	0.91	36.5	7.6	1.9	2.8	1.4	24	7	IBExU99ATEX1143/43	0.128 215
IE2-K11R 200 L2 Ex e IIC	T1,T2	±10 %	50	25.0	81	2939	IE2- 91.6	92.2	92.3	0.91	46	6.1	1.5	2.2	1.1	16		IBExU99ATEX1143/55	
	T1-T3	±5 %	40	20	64	2954	IE2- 92.1	92.9	92.9	0.92	34	8.0	1.9	2.8	1.4	24	8	IBExU99ATEX1143/57	0.128 215
IE2-K11R 200 L2G Ex e IIC	T1,T2	±5 %	40	25	81	2931	IE2- 91.6	92.3	93.0	0.93	43.5	6.4	1.5	2.2	1.1	17		IBExU99ATEX1143/58	
	T1-T3	±5 %	40	24	77	2961	IE2- 92.7	93.0	92.5	0.91	41.5	7.9	1.8	2.7	1.3	21	8	IBExU99ATEX1143/39	0.193 290
IE2-K11R 200 LX2 Ex e IIC	T1,T2	±5 %	40	31	101	2938	IE2- 92.1	92.8	92.8	0.90	54.5	6.0	1.4	2.1	1.0	15		IBExU99ATEX1143/40	
	T1-T3	±5 %		24	77	2961	IE2- 92.7	93.0	92.5	0.91	41.5	7.9	1.8	2.7	1.3	-	-		0.193 190
IE2-K11R 200 LX2G Ex e IIC	T1,T2	±5 %		31	101	2938	IE2- 92.1	92.8	92.8	0.90	54.5	6.0	1.4	2.1	1.0	-			
	T1-T3	±5 %	50	28	89	2971	IE2- 92.1	91.8	90.2	0.91	48	7.6	1.5	2.5	0.9	35	17	IBExU99ATEX1144/31	0.375 400
IE2-K11R 225 M2 Ex e IIC	T1,T2	±5 %	40	38	122	2952	IE2- 92.5	92.0	91.4	0.90	66.5	5.5	1.1	1.8	0.7	28		IBExU99ATEX1144/32	
	T1-T3	±5 %		28	89	2971	IE2- 92.1	91.8	90.2	0.91	48	7.6	1.5	2.5	0.9	-	-		0.375 295
IE2-K11R 225 M2G Ex e IIC	T1,T2	±5 %		38	122	2952	IE2- 92.5	92.0	91.4	0.90	66	5.5	1.1	1.8	0.7	-			
	T1-T3	±5 %	40	36	115	2976	IE2- 93.0	92.4	90.5	0.92	60.5	7.8	1.8	2.5	1.5	40	20	IBExU99ATEX1131/29	0.65 500
IE2-K11R 250 M2 Ex e IIC	T1,T2	±5 %	40	47	151	2966	IE2- 93.0	92.7	91.8	0.92	79	6.0	1.4	1.9	1.1	35		IBExU99ATEX1131/31	
	T1-T3	±5 %		36	115	2976	IE2- 93.0	92.4	90.5	0.92	60.5	7.8	1.8	2.5	1.5	-	-		0.65 500
IE2-K11R 250 M2G Ex e IIC	T1,T2	±5 %		47	151	2966	IE2- 93.0	92.7	91.8	0.92	79	6.0	1.4	1.9	1.1	-			
	T1-T3	±5 %	40	47	151	2963	IE2- 93.0	92.2	90.8	0.93	79	7.1	1.6	2.3	1.4	30	15	IBExU99ATEX1030/41	0.68 545
IE2-K11R 280 S2 Ex e IIC	T1,T2	±5 %	40	47	151	2963	IE2- 93.0	92.2	90.8	0.93	79	7.1	1.6	2.3	1.4	30		IBExU99ATEX1030/41	
	T1-T3	±5 %	40	47	151	2963	IE2- 93.0	92.2	90.8	0.93	79	7.1	1.6	2.3	1.4	30		IBExU99ATEX1030/41	
IE2-K11R 280 S2G Ex e IIC	T1,T2	±10 %	40	47	151	2969	IE2- 93.5	93.7	92.9	0.92	83	6.8	1.6	2.3	1.4	30	13	IBExU99ATEX1030/46	0.68 545
	T1,T2	±10 %	40	47	151	2969	IE2- 93.5	93.7	92.9	0.92	83	6.8	1.6	2.3	1.4	30		IBExU99ATEX1030/46	
IE2-K11R 280 M2 Ex e IIC	T1-T3	±5 %	40	58	186	2969	IE2- 93.6	93.5	92.4	0.92	98	8.0	1.9	2.6	1.6	22	9	IBExU99ATEX1030/35	0.68 570
	T1,T2	±5 %	40	76	245	2956	IE2- 93.6	93.5	93.1	0.91	129	6.1	1.4	2.0	1.2	16		IBExU99ATEX1030/37	
IE2-K11R 280 M2G Ex e IIC	T1-T3	±5 %		58	186	2969	IE2- 93.6	93.5	92.4	0.92	98	8.0	1.9	2.6	1.6	-	-		0.68 550

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

II 2G Ex e IIC T1/T2, T3 Gb

Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																	Design point 400 V, 50 Hz			
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cos φ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m	
				kW	Nm	rpm	(IEC/EN 60034-30-1)				400 V					T2	T3			
							100 %	75 %	50 %	-	A	-	-	-	-	s	s	kgm ²	kg	
Synchronous speed 3000 rpm – 2-pole version																				
IE2-K11R 315 S2 Ex e IIC	T1-T3	±5 %	55	68	216	2975	IE2- 94.2	94.3	93.7	0.89	118	7.7	1.3	2.1	1.2	24	9	IBExU99ATEX1137/74	1.44	850
IE2-K11R 315 S2G Ex e IIC	T1-T3	±5 %		68	216	2975	IE2- 94.2	94.3	93.7	0.89	118	7.7	1.3	2.1	1.2	-	-		1.44	850
IE2-K11R 315 M2 Ex e IIC	T1-T3	±5 %	50	80	255	2973	IE2- 93.9	93.7	92.7	0.89	138	7.4	1.2	1.8	1.0	23	8	IBExU99ATEX1137/76	1.76	970
IE2-K11R 315 M2G Ex e IIC	T1-T3	±5 %		80	255	2973	IE2- 93.9	93.7	92.7	0.89	138	7.4	1.2	1.8	1.0	-	-		1.76	970
IE2-K11R 315 MY2 Ex e IIC	T1-T3	±5 %	40	110	349	2980	IE2- 95.1	95.2	94.8	0.93	180	6.9	1.0	2.4	0.7	35	11	IBExU99ATEX1137/64	2.82	1270
IE2-K11R 315 MY2G Ex e IIC	T1-T3	±5 %		110	349	2980	IE2- 95.1	95.2	94.8	0.93	180	6.9	1.0	2.4	0.7	-	-		2.82	1200
IE2-K11R 315 L2 Ex e IIC	T1-T3			125	401	2980	IE2-												3.66	1450
IE2-K11R 315 L2G Ex e IIC	T1-T3			125	401	2980	IE2-												3.66	1450
IE2-K11R 315 LX2 Ex e IIC	T1-T3			150	480	2985	IE2-												4.43	1630
IE2-K11R 315 LX2G Ex e IIC	T1-T3			150	480	2985	IE2-												4.43	1630
IE2-K12R 355 M2 Ex e IIC	T1-T3			190	609	2980	IE2-												4.2	2000
IE2-K12R 355 M2G Ex e IIC	T1-T3			220	705	2980	IE2-												4.5	2200
IE2-K12R 355 L2 Ex e IIC	T1-T3			250	801	2980	IE2-												7.1	2400

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

 II 2G Ex e IIC T1/T2, T3 Gb

Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																Design point 400 V, 50 Hz			
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m
				kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	s	s	kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version																			
IE2-KPR 80 G4 Ex e IIC	T1-T3	±5 %	50	0.75	5.0	1430	IE2- 79.6	80.4	78.8	0.8	1.70	6.3	3.0	3.2	2.9	37	32	IBExU02ATEX1112	0.00260 17.0
IE2-KPR 90 S4 Ex e IIC	T1-T3	±5 %	50	1.00	6.6	1440	IE2- 81.0	81.1	78.7	0.78	2.3	6.8	3.1	3.5	2.9	34	30	IBExU02ATEX1113	0.00400 23.0
IE2-KPR 90 L4 Ex e IIC	T1-T3	±5 %	50	1.35	8.9	1450	IE2- 82.3	81.9	78.4	0.73	3.2	7.4	3.5	4.1	3.4	22	20	IBExU02ATEX1113	0.00450 28.0
IE2-KPR 100 L4 Ex e IIC	T1-T3	±5 %	50	2.00	13.3	1440	IE2- 83.9	84.2	82.9	0.83	4.3	6.7	2.5	3.1	2.4	30	26	IBExU02ATEX1114	0.00900 36.0
IE2-KPR 100 LX4 Ex e IIC	T1-T3	±5 %	50	2.50	16.6	1440	IE2- 84.8	85.5	84.7	0.83	5.3	7.3	2.7	3.5	2.5	27	24	IBExU02ATEX1114	0.01100 45.0
IE2-KPER 112 MZ4 Ex e IIC	T1-T3	±5 %	50	3.60	23.9	1440	IE2- 86.2	86.8	85.6	0.82	7.5	7.4	2.6	3.4	2.3	18	16	IBExU02ATEX1115	0.0130 50.0
IE2-K11R 132 S4 Ex e IIC	T1-T3	±10 %	40	5.0	33	1469	IE2- 89.0	89.2	87.6	0.82	10.1	7.7	2.2	3.3	1.8	21	18	IBExU99ATEX1142/93	0.028 70
IE2-K11R 132 M4 Ex e IIC	T1-T3	±10 %	55	6.8	45	1464	IE2- 89.5	90.2	89.8	0.85	13.4	7.2	2.1	3.1	1.7	20	18	IBExU99ATEX1142/78	0.035 88
IE2-K11R 160 M4 Ex e IIC	T1-T3	±10 %	40	10.0	65	1468	IE2- 90.0	90.7	90.0	0.87	19.4	6.8	2.3	2.6	1.8	30	16	IBExU99ATEX1105/120	0.078 120
IE2-K11R 160 L4 Ex e IIC	T1-T3	±10 %	40	13.5	87	1471	IE2- 91.4	92.1	91.8	0.88	24	7.3	2.3	2.8	1.9	26	13	IBExU99ATEX1105/121	0.115 140
IE2-K11R 180 M4 Ex e IIC	T1-T3	±10 %	55	15.0	97	1479	IE2- 91.5	91.7	90.8	0.86	28.5	7.9	2.1	2.9	1.7	35	14	IBExU99ATEX1138/57	0.168 215
IE2-K11R 180 L4 Ex e IIC	T1-T3	±10 %	55	17.5	112	1478	IE2- 91.9	92.1	91.2	0.85	33.5	7.6	2.0	2.9	1.6	30	10	IBExU99ATEX1138/59	0.168 215
	T1,T2	±10 %	55	20.0	129	1472	IE2- 91.6	92.1	91.7	0.86	38	6.7	1.7	2.5	1.4	27		IBExU99ATEX1138/60	
IE2-K11R 200 L4 Ex e IIC	T1-T3	±10 %	50	24.0	155	1481	IE2- 91.8	92.3	91.5	0.85	46	7.8	1.7	2.4	1.5	25	8	IBExU99ATEX1143/59	0.275 310
	T1,T2	±10 %	50	27.0	175	1478	IE2- 92.1	92.5	92.0	0.85	52	6.9	1.7	2.4	1.5	22		IBExU99ATEX1143/60	
IE2-K11R 225 S4 Ex e IIC	T1-T3	±5 %	40	30.0	188	1480	IE2- 93.0	93.3	92.8	0.85	55	7.3	1.9	2.0	1.6	35	16	IBExU99ATEX1144/28	0.525 405
	T1,T2	±5 %	40	33.0	208	1477	IE2- 92.6	93.2	93.0	0.85	60	6.7	1.7	1.9	1.4	30		IBExU99ATEX1144/29	
IE2-K11R 225 M4 Ex e IIC	T1-T3	±5 %	40	36.0	227	1480	IE2- 93.1	93.6	93.2	0.84	66	7.5	1.9	2.1	1.6	22	7	IBExU99ATEX1144/26	0.525 405
	T1,T2	±5 %	40	40.0	253	1476	IE2- 92.9	93.5	93.4	0.85	74	6.8	1.7	1.9	1.5	19		IBExU99ATEX1144/27	
IE2-K12R 225 M4 Ex e IIC	T1-T3	±10 %	40	36.0	227	1482	IE2- 92.9	93.5	93.3	0.85	70	7.1	1.9	1.6	2.1	28	8	IBExU99ATEX1144/46	0.619 435
	T1,T2	±10 %	40	40.0	253	1478	IE2- 92.9	93.4	93.6	0.85	78	6.3	1.7	1.5	1.9	26		IBExU99ATEX1144/47	
IE2-K11R 250 M4 Ex e IIC	T1-T3	±10 %	50	44.0	277	1486	IE2- 93.1	93.2	92.5	0.85	85	7.6	1.9	2.3	1.5	27	8	IBExU99ATEX1031/40	0.95 545
	T1,T2	±10 %	50	50.0	316	1483	IE2- 93.3	93.2	92.8	0.85	96	6.7	1.6	2.0	1.3	24		IBExU99ATEX1131/41	
IE2-K11R 280 S4 Ex e IIC	T1-T3	±10 %	50	58.0	373	1483	IE2- 94.1	93.9	92.8	0.83	114	7.2	1.3	2.0	1.2	30	13	IBExU99ATEX1030/48	1.96 785
	T1,T2	±10 %	45	68.0	437	1473	IE2- 93.8	93.8	93.1	0.83	134	6.2	1.1	1.7	1.0	30		IBExU99ATEX1030/49	
IE2-K11R 280 M4 Ex e IIC	T1-T3	±10 %	45	70.0	448	1486	IE2- 93.9	93.9	93.1	0.84	135	7.2	1.3	2.0	1.2	28	11	IBExU99ATEX1030/59	1.96 810
	T1,T2	±10 %	40	80.0	514	1484	IE2- 94.1	93.9	93.5	0.84	156	6.2	1.2	1.7	1.1	25		IBExU99ATEX1030/60	
IE2-K11R 315 S4 Ex e IIC	T1-T3	±5 %	40	84	538	1487	IE2- 94.4	94.5	93.9	0.84	153	7.2	1.5	2.2	1.4	21	8	IBExU99ATEX1137/69	2.27 890
	T1,T2	±5 %	40	100.0	641	1482	IE2- 94.4	94.6	94.3	0.85	181	6.1	1.3	1.8	1.2	18		IBExU99ATEX1137/71	
IE2-K11R 315 M4 Ex e IIC	T1-T3		40	100	643	1485	IE2-									-	-		2.73 975
IE2-K11R 315 MY4 Ex e IIC	T1-T3			115	738	1489	IE2-									-	-		4.82 1270
IE2-K11R 315 L4 Ex e IIC	T1-T3	±10 %	55	135	860	1491	IE2- 95.1	95.3	94.8	0.86	250	7.5	1.2	2.0	0.9	29	10	IBExU99ATEX1137/81	5.93 1510
IE2-K11R 315 LX4 Ex e IIC	T1-T3	±5 %	40	170	1085	1491	IE2- 95.1	95.2	94.7	0.86	301	7.2	1.0	2.0	0.9	29	8	IBExU99ATEX1137/79	6.82 1695
IE2-K12R 355 M4 Ex e IIC	T1-T3	±5 %	40	215	1377	1493	IE2- 95.8	95.7	92.1	0.84	390	7.9	1.4	2.6	1.2	21	7	IBExU01ATEX1009/12	7.9 2150
IE2-K12R 355 MX4 Ex e IIC	T1-T3			240	1538	1490	IE2-									-	-		9.5 2400
IE2-K12R 355 L4 Ex e IIC	T1-T3			275	1758	1494	IE2-									-	-		10 2500

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Ex II 2G Ex e IIC T1/T2, T3 Gb

Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																Design point 400 V, 50 Hz			
Type	Temperature class	Voltage tolerance	max. Coolant temperature °C	P _B kW	M _B Nm	n _B rpm	η _B (IEC/EN 60034-30-1)	cos φ _B	I _B A	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m		
							100 % 75 % 50 %	-	400 V	-	-	-	-	T2 T3			kgm ²	kg	
Synchronous speed 1000 rpm – 6-pole version																			
IE2-KPR 90 L6 Ex e IIC	T1-T3	±5 %	50	0.95	9.45	960	IE2- 77.3	75.8	72	0.67	2.65	5.6	3.1	3.5	2.8	46	41	IBExU02ATEX1113	0.00720 30.0
IE2-KPR 100 LX6 Ex e IIC	T1-T3	±5 %	50	1.30	12.9	960	IE2- 79.0	81.1	78.2	0.72	3.20	6.0	2.4	3.2	2.4	97	87	IBExU02ATEX1114	0.01390 36.0
IE2-KPER 112 MV6 Ex e IIC	T1-T3	±5 %	50	1.90	18.8	965	IE2- 81.1	80.2	76.6	0.67	5.1	6.8	3.6	4.3	3.5	42	37	IBExU02ATEX1115	0.01550 48.0
IE2-K11R 132 S6 Ex e IIC	T1-T3	±10 %	40	2.60	26	959	IE2- 84.4	85.3	84.6	0.83	5.6	5.7	1.8	2.8	1.3	35	30	IBExU99ATEX1142/94	0.023 60
IE2-K11R 132 M6 Ex e IIC	T1-T3	±10 %	50	3.50	35	952	IE2- 84.9	86.2	85.7	0.83	7.1	5.8	1.7	2.8	1.1	30	27	IBExU99ATEX1142/82	0.029 60
IE2-K11R 132 MX6 Ex e IIC	T1-T3	±10 %	55	4.80	48	966	IE2- 86.8	87.5	86.4	0.82	10.2	5.4	1.8	2.5	1.5	45	40	IBExU99ATEX1142/76	0.053 90
IE2-K11R 160 M6 Ex e IIC	T1-T3	±10 %	50	6.60	65	969	IE2- 87.7	88.1	87.0	0.80	13.9	6.1	2.0	2.8	1.7	30	29	IBExU99ATEX1105/91	0.0656 105
IE2-K11R 160 L6 Ex e IIC	T1-T3	±10 %	40	9.7	96	972	IE2- 88.5	88.8	87.7	0.84	19.7	5.7	2.3	2.7	2.0	60	24	IBExU99ATEX1105/122	0.145 145
IE2-K11R 180 L6 Ex e IIC	T1-T3	±10 %	50	13.2	129	977	IE2- 89.4	89.3	87.7	0.84	26.5	6.4	2.1	2.7	1.9	45	16	IBExU99ATEX1138/42	0.228 190
IE2-K11R 200 L6 Ex e IIC	T1-T3	±5 %	40	16.5	161	979	IE2- 90.4	90.2	88.5	0.84	31.5	7.3	2.4	3.0	2.2	35	13	IBExU99ATEX1143/44	0.268 200
IE2-K11R 200 LX6 Ex e IIC	T1-T3	±10 %	40	20.0	195	980	IE2- 90.6	90.6	89.4	0.86	39	6.5	2.4	2.7	1.8	40	14	IBExU99ATEX1143/47	0.443 295
IE2-K11R 225 M6 Ex e IIC	T1-T3	±10 %	40	27.0	262	981	IE2- 91.5	91.9	91.2	0.85	50	6.5	2.7	2.6	2.0	30	9	IBExU99ATEX1144/36	0.825 385
IE2-K11R 250 M6 Ex e IIC	T1-T3	±10 %	40	33.0	320	983	IE2- 92.0	92.1	91.4	0.86	64	6.0	2.5	2.3	1.7	29	8	IBExU99ATEX1131/33	1.28 490
IE2-K11R 280 S6 Ex e IIC	T1-T3	±5 %	40	40.0	386	986	IE2- 92.7	92.9	92.1	0.86	72.5	7.3	2.5	2.6	2.0	25	8	IBExU99ATEX1030/43	1.48 570
IE2-K11R 280 M6 Ex e IIC	T1-T3	±10 %	45	46.0	436	990	IE2- 92.8	93.6	93.0	0.86	87	7.3	2.0	2.6	1.6	37	15	PTB08ATEX3043/15	2.63 740
	T1,T2	±10 %	45	50.0	478	989	IE2- 93.5	93.8	93.4	0.87	94	6.7	1.8	2.4	1.5	34		PTB08ATEX3043/17	
IE2-K11R 315 S6 Ex e IIC	T1-T3	±5 %	40	64.0	618	989	IE2- 93.6	93.7	93.5	0.88	113	7.0	1.9	2.4	1.5	30	12	IBExU99ATEX1137/67	3.33 850
	T1,T2	±5 %	40	68.0	657	988	IE2- 93.5	93.6	93.5	0.88	120	6.6	1.8	2.2	1.4	29		IBExU99ATEX1137/68	
IE2-K12R 315 S6 Ex e IIC	T1-T3	±10 %	40	64.0	613	991	IE2- 93.7	93.6	93.3	0.88	118	7.4	1.6	2.5	1.4	30	12	IBExU99ATEX1137/72	3.33 850
	T1,T2	±10 %	40	68.0	653	989	IE2- 93.8	93.5	93.3	0.89	126	6.9	1.5	2.4	1.3	30		IBExU99ATEX1137/82	
IE2-K11R 315 M6 Ex e IIC	T1-T3			76.0	732	992	IE2-									-			3.6 1148
IE2-K11R 315 MV6 Ex e IIC	T1-T3			85.0	820	990	IE2-									-			6 1250
IE2-K11R 315 L6 Ex e IIC	T1-T3			95	921	985	IE2-									-			6.67 1250
IE2-K11R 315 LX6 Ex e IIC	T1-T3			110	1061	990	IE2-									-			8.6 1460
IE2-K12R 355 M6 Ex e IIC	T1-T3			125	1202	993	IE2-									-			8.2 1850
IE2-K12R 355 MX6 Ex e IIC	T1-T3			160	1539	993	IE2-									-			12.1 2200
IE2-K12R 355 L6 Ex e IIC	T1-T3			200	1923	993	IE2-									-			14 2400
IE2-K42R 400 M6 Ex e IIC	T1-T3	±10 %	40	230	2208	995	IE2- 95.1	95.2	95.1	0.8	438.0	7.6	1.1	2	1	11	15	IBExU15ATEX1075/01	16.54 3000
Synchronous speed 750 rpm – 8-pole version																			
IE2-K11R 132 S8 Ex e IIC	T1-T3			1.9	26	700										-	-		0.018 53
IE2-K11R 132 M8 Ex e IIC	T1-T3			2.6	35	705										-	-		0.043 70
IE2-K11R 160 M8 Ex e IIC	T1-T3			3.5	46	720										-	-		0.053 86
IE2-K11R 160 MX8 Ex e IIC	T1-T3			4.8	64	720										-	-		0.113 114
IE2-K11R 160 L8 Ex e IIC	T1-T3			6.6	86	730										-	-		0.145 136
IE2-K11R 180 L8 Ex e IIC	T1-T3			9.7	128	725										-	-		0.228 175
IE2-K11R 200 L8 Ex e IIC	T1-T3	±10 %	55	13.2	173	730	IE2- 89.1	89.4	88.5	0.77	29	5.2	2.0	2.4	1.6	50	16	IBExU99ATEX1143/66	0.268 230
IE2-K11R 225 S8 Ex e IIC	T1-T3			16.5	216	730										-	-		0.44 265
IE2-K11R 225 M8 Ex e IIC	T1-T3			20.0	260	735										-	-		0.825 360
IE2-K11R 250 M8 Ex e IIC	T1-T3			27.0	350	737										-	-		1.35 465
IE2-K11R 280 S8 Ex e IIC	T1-T3	±10 %	40	33.0	425	738	IE2- 92.2	92.3	91.2	0.79	68	5.9	2.3	2.4	1.8	12	35	IBExU99ATEX1030/63	1.55 570
IE2-K11R 280 M8 Ex e IIC	T1-T3			40.0	516	740										-	-		2.63 690
IE2-K11R 315 S8 Ex e IIC	T1-T3			50	645	740										-	-		3.33 800
IE2-K11R 315 M8 Ex e IIC	T1-T3			68	878	740										-	-		3.33 800
IE2-K11R 315 MY8 Ex e IIC	T1-T3			80	1030	742										-	-		6 1050
IE2-K11R 315 L8 Ex e IIC	T1-T3			95	1221	743										-	-		6.76 1250
IE2-K11R 315 LX8 Ex e IIC	T1-T3			115	1484	740										-	-		8.71 1430
IE2-K12R 355 M8 Ex e IIC	T1-T3			140	1807	740										-	-		9.5 1850
IE2-K12R 355 MX8 Ex e IIC	T1-T3			180	2323	740										-	-		13.4 2200
IE2-K12R 355 L8 Ex e IIC	T1-T3			210	2710	740										-	-		15.8 2400

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)
for operation in Zone 1 according to EN 60079-7

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data															Design point 400 V, 50 Hz			
Type	Temperature class	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time		ATEX no.	J	m
		kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	T2	T3		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version																		
KPER 63 K2 Ex e IIC	T1-T3	0.18	0.60	2870	61	63	57	0.80	0.53	3.7	1.6	1.6	2.0	30	29	IBExU02ATEX1110	0.00013	4.9
KPER 63 G2 Ex e IIC	T1-T3	0.25	0.85	2800	65	67	61	0.74	0.75	4.1	1.9	1.9	2.2	15	13	IBExU02ATEX1110	0.00015	5.2
KPER 71 K2 Ex e IIC	T1-T3	0.37	1.3	2740	67	70	67	0.84	0.97	4.1	1.7	1.7	2.2	18	16	IBExU02ATEX1111	0.00025	6.7
KPER 71 G2 Ex e IIC	T1-T3	0.55	1.9	2770	73	75	71	0.79	1.43	4.8	2.2	2.2	2.5	13	11	IBExU02ATEX1111	0.00032	7.6
KPER 80 K2 Ex e IIC	T1-T3	0.75	2.55	2810	74	75	73	0.84	1.76	5.3	1.9	1.9	2.4	16	14	IBExU02ATEX1112	0.00057	10.7
KPER 80 G2 Ex e IIC	T1-T3	1.1	3.7	2830	77	76	72	0.82	2.6	5.6	2.5	2.3	2.5	10	8	IBExU02ATEX1112	0.00072	11.5
KPER 90 S2 Ex e IIC	T1-T3	1.3	4.35	2850	78	81	80	0.88	2.75	6.5	2.4	2.2	2.6	16	14	IBExU02ATEX1113	0.00132	16
KPER 90 L2 Ex e IIC	T1-T3	1.85	6.15	2870	83	84	83	0.86	3.85	7.4	3.0	3.0	3.2	12	9	IBExU02ATEX1113	0.00170	19
KPER 100 L2 Ex e IIC	T1-T3	2.5	8.3	2870	82	83	82	0.87	5.2	6.8	2.5	2.4	2.7	14	11	IBExU02ATEX1114	0.00275	25
KPER 112 M2 Ex e IIC	T1-T3	3.3	10.8	2910	85	85	82	0.82	6.9	7.7	2.3	2.1	3.1	16	11	IBExU02ATEX1115	0.0045	32
KPER 112 MX2 Ex e IIC	T1-T3	4.1	13.5	2910	87	88	86	0.87	8.1	7.9	2.5	1.9	3.3	18	11	IBExU02ATEX1115	0.0055	38
K11R 132 S2 Ex e IIC	T1-T3	4.60	15	2900	87.5	87.0	85.5	0.88	8.6	7.0	1.4	1.2	2.8	29	13	PTB08ATEX3037/09	0.0110	57
	T1,T2	4.6	15	2900	87.5	87.0	85.5	0.88	8.6	7.0	1.4	1.2	2.8	29		PTB08ATEX3037/09		
K11R 132 S2G Ex e IIC	T1-T3	4.60	15	2920	90.5	90.7	89.0	0.88	8.3	7.2	1.4	1.2	2.8	14	28	IBExU99ATEX1142/50	0.0110	57
	T1,T2	4.6	15	2920	90.5	90.7	89.0	0.88	8.3	7.2	1.4	1.2	2.8	28		IBExU99ATEX1142/50		
K11R 132 SX2 Ex e IIC	T1-T3	5.5	18	2925	89.0	88.5	87.0	0.86	10.4	8.5	1.9	1.3	3.3	16	6	PTB08ATEX3037/10	0.0110	57
	T1,T2	5.5	18	2925	89.0	88.5	87.0	0.86	10.4	8.5	1.9	1.3	3.3	16		PTB08ATEX3037/10		
K12R 132 SX2 Ex e IIC	T1-T3	5.5	18	2930	89.5	89.0	86.0	0.92	9.6	7.4	2.1	1.3	2.6	35	18	IBExU99ATEX1142/21	0.0258	88
	T1,T2	6.6	22	2910	90.0	89.5	88.5	0.93	11.6	6.2	1.7	1.1	2.1	30		IBExU99ATEX1142/23		
K12R 132 SX2G Ex e IIC	T1-T3	5.5	18	2930	90.0	89.4	87.5	0.93	9.5	6.8	2.0	1.5	2.6	18	35	IBExU99ATEX1142/48	0.0258	88
	T1,T2	6.6	22	2910	90.0	89.5	88.5	0.93	11.5	5.6	1.7	1.2	2.2	30		IBExU99ATEX1142/49		
K11R 160 M2 Ex e IIC	T1-T3	7.5	24	2945	87.5	87.0	82.5	0.90	13.7	6.9	1.9	1.6	2.7	40	21	PTB08ATEX3038/11	0.0575	120
	T1,T2	9.5	31	2917	87.5			0.90	17.4	5.4	1.5	1.3	2.1	40		PTB08ATEX3038/12		
K11R 160 M2G Ex e IIC	T1-T3	7.5	24	2950	91.5	91.0	89.0	0.92	12.9	7.3	1.8	1.4	2.5	21	40	IBExU99ATEX1105/50	0.0575	120
	T1,T2	9.5	31	2927	90.8	91.1	90.6	0.92	16.4	5.8	1.4	1.1	2.0	35		IBExU99ATEX1105/51		
K11R 160 MX2 Ex e IIC	T1-T3	10	33	2935	89.5	89.0	87.5	0.90	17.9	6.5	1.8	1.5	2.5	30	13	PTB08ATEX3038/13	0.0575	120
	T1,T2	13	43	2900	88.0			0.90	23.5	5.0	1.4	1.1	1.9	20		PTB08ATEX3038/14		
K11R 160 MX2G Ex e IIC	T1-T3	10	32	2940	91.5	91.4	90.0	0.92	17.1	6.8	1.6	1.3	2.2	12	29	IBExU99ATEX1105/52	0.0575	120
	T1,T2	13	43	2900	89.5	91.0	90.0	0.92	23.0	5.1	1.3	1.0	1.7	20		IBExU99ATEX1105/53		
K11R 160 L2 Ex e IIC	T1-T3	12.5	41	2945	90.0	89.5	88.0	0.91	22	7.3	1.8	1.4	2.8	24	11	PTB08ATEX3038/15	0.0675	138
	T1,T2	16	52	2920	89.5			0.91	28.5	5.6	1.4	1.1	2.2	20		PTB08ATEX3038/16		
K11R 160 L2G Ex e IIC	T1-T3	12.5	40	2950	93.2	92.9	91.0	0.90	21.5	7.5	1.9	1.5	2.7	10	25	IBExU99ATEX1105/48	0.0675	138
	T1,T2	16	52	2925	91.6	92.3	92.0	0.90	28.0	5.7	1.5	1.1	2.1	18		IBExU99ATEX1105/49		
K11R 180 M2 Ex e IIC	T1-T3	15	49	2945	91.0	90.0	88.5	0.92	26	7.0	1.8	1.5	2.6	35	16	PTB08ATEX3039/06	0.105	175
	T1,T2	19	62	2920	90.5			0.92	33	5.4	1.5	1.3	2.1	26		PTB08ATEX3039/07		
K11R 180 M2G Ex e IIC	T1-T3	15	49	2950	92.0	92.2	91.0	0.89	26.5	7.2	1.5	1.2	2.4	17	40	IBExU99ATEX1138/28	0.105	175
	T1,T2	19	62	2930	92.5	92.2	91.2	0.91	32.5	5.8	1.2	1.0	1.9	30		IBExU99ATEX1138/29		
K11R 200 L2 Ex e IIC	T1-T3	20	65	2935	91.5	91.5	90.0	0.92	34	6.6	1.8	1.3	2.4	27	10	PTB08ATEX3040/05	0.128	210
	T1,T2	25	82	2910	90.5			0.93	43	5.2	1.4	1.2	1.9	17		PTB08ATEX3040/06		
K11R 200 L2G Ex e IIC	T1-T3	20	65	2945	92.7	92.3	91.0	0.93	33.5	6.7	1.3	1.2	2.3	13	35	IBExU99ATEX1143/30	0.128	210
	T1,T2	25	82	2920	92.3	92.0	91.6	0.92	42.5	5.3	1.1	1.0	1.8	24		IBExU99ATEX1143/31		
K11R 200 LX2 Ex e IIC	T1-T3	24	78	2950	93.0	92.5	91.5	0.90	41	7.0	1.6	1.2	2.5	26	10	PTB08ATEX3040/07	0.193	255
	T1,T2	31	101	2925	91.5			0.90	54	5.3	1.4	1.2	2.2	16		PTB08ATEX3040/08		
K11R 200 LX2G Ex e IIC	T1-T3	24	78	2953	93.5	93.0	91.0	0.91	41	7.0	1.5	1.1	2.4	27	12	IBExU99ATEX1143/15	0.193	255
	T1,T2	31	101	2934	93.7	93.0	92.5	0.91	52.5	5.4	1.1	0.9	1.9	18		IBExU99ATEX1143/16		
K11R 225 M2 Ex e IIC	T1-T3	28	90	2970	93.0	92.5	91.0	0.91	47.5	7.6	1.5	1.0	2.6	30	15	PTB08ATEX3041/05	0.375	360
	T1,T2	38	123	2950	93.0			0.91	65	5.4	1.2	0.9	2.0	27		PTB08ATEX3041/06		
K11R 225 M2G Ex e IIC	T1-T3	28	90	2968	94.3	94.0	93.0	0.92	47	7.8	1.4	1.0	2.7	30	16	IBExU99ATEX1144/15	0.375	360
	T1,T2	38	123	2951	94.0	94.0	93.5	0.91	64	5.7	1.0	0.8	1.9	25		IBExU99ATEX1144/16		
K11R 250 M2 Ex e IIC	T1-T3	36	116	2970	93.2	92.5	90.5	0.93	60	7.2	1.9	1.5	2.6	40	19	PTB08ATEX3042/03	0.650	490
	T1,T2	47	152	2955	93.0			0.92	79	5.4	1.4	1.1	1.9	35		PTB08ATEX3042/04		
K11R 250 M2G Ex e IIC	T1-T3	36	116	2970	94.5	94.2	93.0	0.92	59.5	7.2	1.7	1.4	2.4	45	23	IBExU99ATEX1131/18	0.650	490
	T1,T2	47	152	2958	94.2	94.2	93.5	0.92	79	5.4	1.3	1.1	1.9	40		IBExU99ATEX1131/19		

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7

II 2G Ex e IIC T1/T2, T3 Gb

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data																Design point 400 V, 50 Hz			
Type	Temperature class	P _B	M _B	n _B	η _B			cos φ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time		ATEX no.	J	m	
		kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	T2	T3		kgm ²	kg	
															s	s			
Synchronous speed 3000 rpm – 2-pole version																			
K11R 280 S2 Ex e IIC	T1-T3	47	151	2970	93.7	93.5	92.0	0.88	82	7.1	1.4	1.3	2.2	50	25	PTB08ATEX3043/03	1.210	730	
	T1,T2	68	219	2960															
K11R 280 S2 Ex e IIC	T1-T3	68	218	2975	93.7	92.5	90.0	0.89	117	7.8	1.4	1.3	2.3	9	23	IBExU99ATEX1030/14	1.210	730	
	T1,T2	68	218	2975	93.7	92.5	90.0	0.89	117	7.8	1.4	1.3	2.3	23		IBExU99ATEX1030/14			
K11R 280 S2G Ex e IIC	T1-T3	47	151	2976	94.5	93.8	92.5	0.89	81	8.0	1.4	1.1	2.1	35	18	IBExU99ATEX1030/23	1.210	730	
	T1,T2	68	219	2970															
K11R 280 M2 Ex e IIC	T1-T3	58	186	2975	94.1	93.0	91.0	0.88	101	7.1	1.4	1.3	2.1	40	18	PTB08ATEX3043/04	1.440	815	
	T1,T2	76	244	2970	94.5			0.90	130	6.6	1.1	1.0	1.7	30		PTB08ATEX3043/05			
K11R 280 M2G Ex e IIC	T1-T3	58	186	2970	94.7	94.6	93.0	0.90	98	7.3	1.1	1.0	2.1	45	21	IBExU99ATEX1030/24	1.440	815	
	T1,T2	76	244	2970	94.5			0.90	130	6.6	1.1	1.0	1.7						
K11R 315 S2 Ex e IIC	T1-T3	68	218	2975	95.0	94.5	93.5	0.90	116	7.5	1.8	1.6	2.3	28	11	PTB08ATEX3044/02	1.44	850	
	T1,T2	95	307	2960	94.5			0.89	162	5.8	1.4	1.3	1.8	18		IBExU99ATEX1137/02			
K11R 315 S2G Ex e IIC	T1-T3	68	218	2974	94.3	93.5	92.0	0.90	116	7.8	1.5	1.3	2.1	24	9	IBExU99ATEX1137/39	1.44	850	
	T1,T2	95	307	2960	94.5			0.89	162	5.8	1.4	1.3	1.8						
K11R 315 M2 Ex e IIC	T1-T3	80	257	2975	95.3	94.7	94.0	0.90	134	7.5	1.8	1.6	2.2	29	12	PTB08ATEX3044/03	1.76	970	
	T1,T2	112	361	2960	95.0			0.89	191	7.5	1.2	1.2	2.1						
K11R 315 M2G Ex e IIC	T1-T3	80	257	2975	95.3	95.0	94.0	0.90	135	7.1	1.3	1.2	2.3	35	15	IBExU99ATEX1137/56	1.76	970	
	T1,T2	112	362	2958	94.7			0.89	154	7.0	0.9	0.8	1.7						
K11R 315 MY2 Ex e IIC	T1-T3	110	354	2970	95.0	94.5	93.5	0.92	182	7.3	1.5	1.3	3.0	26	11	PTB08ATEX3044/04	2.82	1150	
	T1,T2	110	354	2970	95.0	94.5	93.5	0.92	182	7.3	1.5	1.3	3.0	26					
K11R 315 MY2G Ex e IIC	T1-T3	110	354	2970	95.2	95.0	93.0	0.93	180	6.5	1.3	1.2	2.7	30	11	IBExU99ATEX1137/41	2.82	1150	
	T1,T2	110	354	2970	95.0	94.5	93.5	0.92	182	7.3	1.5	1.3	3.0						
K11R 315 L2 Ex e IIC	T1-T3	125	401	2980	95.3	95.0	93.5	0.93	205	8.0	1.5	1.3	2.8	30	12	IBExU99ATEX1137/40	3.66	1460	
	T1,T2	165	528	2985															
K11R 315 L2G Ex e IIC	T1-T3	125	401	2980	95.3	95.0	93.5	0.93	205	8.0	1.5	1.3	2.8				3.66	1460	
	T1,T2	165	528	2985															
K11R 315 LX2 Ex e IIC	T1-T3	150	480	2985	95.8	95.4	93.5	0.95	240	8.0	1.1	0.9	2.7	30	12	IBExU99ATEX1137/30	4.43	1630	
	T1,T2	200	640	2985															
K11R 315 LX2G Ex e IIC	T1-T3	150	480	2985	95.8	95.4	93.5	0.95	240	8.0	1.1	0.9	2.7				4.43	1630	
	T1,T2	200	640	2985															
K12R 355 M2 Ex e IIC	T1-T3	190	609	2980	95.0			0.91	310	8.0	1.4	1.1	2.6				4.20	2000	
	T1,T2	220	706	2974										8		IBEXU01ATX1009/05			
K12R 355 MX2 Ex e IIC	T1-T3	220	705	2980	95.0			0.91	360	8.0	1.4	1.1	2.6				5.50	2200	
	T1,T2	250	800	2985															
K12R 355 L2 Ex e IIC	T1-T3	250	796	2986	95.1	95.5	95.2	0.93	406	6.4	1.3	0.7	1.9	9	6	IBExU01ATX1009/17	9.50	2400	
	T1,T2	300	960	2985										17		IBEXU01ATX1009/06			

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor
Type of explosion protection – Increased safety „e“ („eb“)
for operation in Zone 1 according to EN 60079-7

II 2G Ex e IIC T1/T2, T3 Gb

for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data															Design point 400 V, 50 Hz			
Type	Temperature class	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time		ATEX no.	J	m
		kW	Nm	rpm	(IEC/EN 60034-2)				400 V					T2	T3			
						100 %	75 %	50 %	-	A	-	-	-	-	s	s		kgm ²
Synchronous speed 1500 rpm – 4-pole version																		
KPER 63 K4 Ex e IIC	T1-T3	0.12	0.85	1370	56	56	46	0.68	0.48	2.9	1.8	1.8	2.2	70	50	IBExU02ATEX1110	0.00019	4.8
KPER 63 G4 Ex e IIC	T1-T3	0.18	1.25	1360	60	59	52	0.69	0.63	3.2	1.9	1.9	2.2	35	30	IBExU02ATEX1110	0.00024	5.2
KPER 71 K4 Ex e IIC	T1-T3	0.25	1.75	1380	65	63	58	0.73	0.79	3.4	1.4	1.4	1.8	27	24	IBExU02ATEX1111	0.00040	6.8
KPER 71 G4 Ex e IIC	T1-T3	0.37	2.6	1370	67	67	64	0.75	1.08	3.6	1.6	1.6	2.0	21	18	IBExU02ATEX1111	0.00050	7.8
KPER 80 K4 Ex e IIC	T1-T3	0.55	3.8	1380	69	71	67	0.76	1.59	3.9	1.8	1.8	2.0	16	13	IBExU02ATEX1112	0.00087	10.6
KPER 80 G4 Ex e IIC	T1-T3	0.75	5.15	1390	72	73	70	0.74	2.0	4.4	2.0	2.0	2.3	17	14	IBExU02ATEX1112	0.00107	11.7
KPER 90 S4 Ex e IIC	T1-T3	1.0	6.75	1410	77	78	75	0.80	2.4	5.1	2.4	2.3	2.5	19	17	IBExU02ATEX1113	0.00207	15.5
KPER 90 L4 Ex e IIC	T1-T3	1.35	9.15	1410	79	80	79	0.81	3.1	5.5	2.3	1.8	2.5	14	12	IBExU02ATEX1113	0.00260	18.0
KPER 100 L4 Ex e IIC	T1-T3	2.0	13.5	1420	80	82	80	0.80	4.65	6.0	2.8	2.6	2.9	13	11	IBExU02ATEX1114	0.00400	23.5
KPER 100 LX4 Ex e IIC	T1-T3	2.5	16.6	1440	83	83	81	0.78	5.6	6.7	2.3	2.2	2.9	12	11	IBExU02ATEX1114	0.00725	30.0
KPER 112 M4 Ex e IIC	T1-T3	3.6	23.9	1440	85	85	84	0.77	8.1	7.0	2.8	2.1	2.9	9	7	IBExU02ATEX1115	0.0090	37.0
K11R 132 S4 Ex e IIC	T1-T3	5.0	33	1435	84.5	84.0	83.0	0.83	10.2	6.5	2.0	1.6	2.8	15	10	PTB08ATEX3037/11	0.0150	53
K11R 132 M4 Ex e IIC	T1-T3	6.8	45	1455	87.5	87.0	86.0	0.82	13.6	6.1	2.1	1.8	2.7	29	12	PTB08ATEX3037/12	0.028	72
K11R 160 M4 Ex e IIC	T1-T3	10	65	1465	91.0	90.5	89.5	0.89	18	6.3	2.0	1.7	2.5	40	18	PTB08ATEX3038/17	0.078	123
K11R 160 L4 Ex e IIC	T1-T3	13.5	88	1470	90.5	90.0	88.0	0.86	25	7.7	2.5	2.0	3.0	26	9	PTB08ATEX3038/18	0.090	136
K11R 180 M4 Ex e IIC	T1-T3	15	97	1475	90.5	90.0	88.0	0.87	27.5	6.8	1.9	1.6	2.5	45	15	PTB08ATEX3039/08	0.138	180
K11R 180 L4 Ex e IIC	T1,T2	17	111.0	1465	90.5			0.88	31	6.0	1.7	1.4	2.3	35		PTB08ATEX3039/09		
	T1-T3	17.5	113	1475	90.5	90.0	88.0	0.85	33	7.1	2.1	1.8	2.8	25	9	PTB08ATEX3039/10	0.138	185
K11R 200 L4 Ex e IIC	T1,T2	20	130.0	1470	90.5			0.86	37	6.3	1.8	1.6	2.4	24		PTB08ATEX3039/11		
	T1-T3	24	155	1477	92.7	92.5	91.0	0.87	43	6.8	1.8	1.5	2.4	35	12	PTB08ATEX3040/09	0.275	270
K11R 225 S4 Ex e IIC	T1,T2	27	175.0	1470	92.5			0.88	48	6.0	1.6	1.5	2.2	30		PTB08ATEX3040/10		
	T1-T3	30	194	1475	93.0	92.5	92.0	0.85	55	6.1	1.6	1.4	1.9	30	14	PTB08ATEX3041/07	0.525	380
K12R 225 S4 Ex e IIC	T1,T2	33	214.0	1472	92.9			0.85	60	5.6	1.5	1.2	1.7	30		PTB08ATEX3041/08		
	T1-T3	30	194	1482	92.8	93.3	92.8	0.84	58	7.1	1.9	2.1	1.6	29	9	IBExU99ATEX1144/41	0.525	380
K11R 225 M4 Ex e IIC	T1,T2	33	214.0	1479	92.5	93.2	93.0	0.85	64	6.4	1.7	1.9	1.5	27		IBExU99ATEX1144/42		
	T1-T3	36	232	1480	94.0	93.5	92.5	0.85	65	7.4	2.2	1.7	2.3	22	7	PTB08ATEX3041/09	0.525	385
K11R 250 M4 Ex e IIC	T1,T2	40	259.0	1475	93.5			0.85	73	6.6	2.0	1.6	2.1	19		PTB08ATEX3041/10		
	T1-T3	44	283	1485	94.0	93.5	92.5	0.86	79	7.2	1.8	1.6	2.1	30	10	PTB08ATEX3042/05	0.95	530
K11R 280 S4 Ex e IIC	T1,T2	50	323.0	1480	94.0			0.86	90	6.3	1.7	1.5	1.9	27		PTB08ATEX3042/06		
	T1-T3	58	373	1485	94.2	93.7	92.5	0.84	106	7.2	1.8	1.6	2.2	40	13	PTB08ATEX3043/06	1.96	765
K11R 280 M4 Ex e IIC	T1,T2	68	439.0	1480	94.0			0.85	124	6.1	1.6	1.4	1.9	30		IBExU99ATEX1030/02		
	T1-T3	70	450	1485	95.0	94.5	93.5	0.84	127	7.5	2.0	1.8	2.4	35	13	PTB08ATEX3043/07	2.27	840
K11R 315 S4 Ex e IIC	T1,T2	80	515.0	1483	94.5			0.84	147	6.5	1.7	1.6	2.0	30		PTB08ATEX3043/08		
	T1-T3	84	540	1485	95.0	94.8	94.0	0.84	152	7.2	2.0	1.8	2.2	25	9	PTB08ATEX3044/05	2.27	875
K11R 315 M4 Ex e IIC	T1,T2	100	645.0	1480	95.1			0.84	183	6.0	1.7	1.6	1.9	20		IBExU99ATEX1137/15		
	T1-T3	100	643	1485	95.0	95.0	94.5	0.84	181	6.8	1.8	1.7	2.2	30	10	PTB08ATEX3044/06	2.73	1000
K11R 315 MY4 Ex e IIC	T1,T2	120	775.0	1478	95.3			0.85	216	5.6	1.2	1.0	1.5	30		IBExU99ATEX1137/01		
	T1-T3	115	738	1489	95.4	95.2	94.5	0.85	205	7.1	1.5	1.4	2.4	35	14	PTB08ATEX3044/07	4.82	1200
K11R 315 L4 Ex e IIC	T1-T3	135	865	1491	96.0	95.5	93.7	0.86	236	7.6	1.4	1.3	2.4	40	18	IBExU99ATEX1137/16	5.93	1450
	T1,T2	165	1065.0	1480														
K11R 315 LX4 Ex e IIC	T1-T3	170	1090	1490	96.0	95.5	95.0	0.85	300	7.1	1.2	1.1	2.4	45	18	IBExU99ATEX1137/35	6.82	1630
	T1,T2	200	1291.0	1480														
K12R 355 M4 Ex e IIC	T1-T3	215	1377	1491	96.6	96.0	95.0	0.85	380	8.0	1.4	1.1	2.7	30	8	IBExU01ATEX1009/01	5.60	2150
	T1,T2	245	1581.0	1480														
K12R 355 MX4 Ex e IIC	T1-T3	240	1538	1490	96.5			0.85	425	8.0	1.5	1.2	2.8				7.90	2400
	T1,T2	275	1774.0	1480														
K12R 355 L4 Ex e IIC	T1-T3	275	1758	1494	97.1	96.6	95.3	0.84	485	7.9	1.3	1.2	2.7	40	13	IBExU01ATEX1009/02	9.50	2500
	T1,T2	315	2033.0	1480														

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
 for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
 Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7

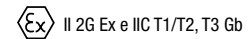
II 2G Ex e IIC T1/T2, T3 Gb

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data															Design point 400 V, 50 Hz			
Type	Temperature class	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _k /I _B	M _k /M _B	M _s /M _B	M _k /M _B	t _E -time		ATEX no.	J	m
					(IEC/EN 60034-2)				400 V						T2	T3		
		kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	-	s	s		kgm ²
Synchronous speed 1000 rpm – 6-pole version																		
KPER 80 K6 Ex e IIC	T1-T3	0.37	3.85	920	62	61	54	0.70	1.3	3.2	2.0	1.8	2.0	28	26	IBExU02ATEX1112	0.00130	11.0
KPER 80 G6 Ex e IIC	T1-T3	0.55	5.75	910	66	64	60	0.69	1.75	3.6	2.1	2.1	2.2	26	22	IBExU02ATEX1112	0.00175	12.5
KPER 90 S6 Ex e IIC	T1-T3	0.65	6.7	925	69	68	65	0.71	1.95	3.4	1.8	1.7	1.9	35	30	IBExU02ATEX1113	0.00325	16.0
KPER 90 L6 Ex e IIC	T1-T3	0.95	9.8	925	71	72	69	0.71	2.7	3.9	2.1	2.0	2.2	27	23	IBExU02ATEX1113	0.00425	19.0
KPER 100 L6 Ex e IIC	T1-T3	1.4	14.2	940	75	75	74	0.73	3.75	4.2	2.1	2.0	2.3	24	20	IBExU02ATEX1114	0.00625	24.0
KPER 112 M6 Ex e IIC	T1-T3	1.9	19.1	950	79	80	78	0.74	4.7	5.3	2.2	2.0	2.4	21	18	IBExU02ATEX1115	0.01225	33.5
K11R 132 S6 Ex e IIC	T1-T3	2.60	26	950	80.5	80.0	78.0	0.79	5.9	5.3	1.8	1.8	2.8	22	19	PTB08ATEX3037/13	0.0180	49
	T1,T2	2.60	26.0	950	80.5	80.0	78.0	0.79	5.9	5.3	1.8	1.8	2.8	22		PTB08ATEX3037/13		
K11R 132 M6 Ex e IIC	T1-T3	3.50	35	960	82.9	82.5	81.0	0.82	7.4	6.3	2.0	2.0	3.0	24	21	PTB08ATEX3037/14	0.0230	53
	T1,T2	3.50	35.0	960	82.9	82.5	81.0	0.82	7.4	6.3	2.0	2.0	3.0	24		PTB08ATEX3037/14		
K11R 132 MX6 Ex e IIC	T1-T3	4.80	48	963	83.5	82.5	82.0	0.83	10	5.1	1.8	1.6	2.5	30	28	PTB08ATEX3037/15	0.0430	70
	T1,T2	4.80	48.0	963	83.5	82.5	82.0	0.83	10	5.1	1.8	1.6	2.5	30		PTB08ATEX3037/15		
K11R 160 M6 Ex e IIC	T1-T3	6.60	65	965	84.5	85.0	83.5	0.84	13.4	5.4	1.9	1.6	2.5	35	30	PTB08ATEX3038/19	0.0530	89
	T1,T2	6.60	65.0	965	84.5	85.0	83.5	0.84	13.4	5.4	1.9	1.6	2.5	35		PTB08ATEX3038/19		
K11R 160 L6 Ex e IIC	T1-T3	9.7	96	970	85.0	84.5	82.0	0.84	19.6	5.8	2.2	1.9	2.7	30	13	PTB08ATEX3038/20	0.113	123
	T1,T2	9.7	96.0	970	85.0	84.5	82.0	0.84	19.6	5.8	2.2	1.9	2.7	30		PTB08ATEX3038/20		
K11R 180 L6 Ex e IIC	T1-T3	13.2	129	975	89.0	89.0	87.0	0.87	24.5	6.5	2.2	2.0	2.9	50	23	PTB08ATEX3039/12	0.228	190
	T1,T2	13.2	129.0	975	89.0	89.0	87.0	0.87	24.5	6.5	2.2	2.0	2.9	50		PTB08ATEX3039/12		
K11R 200 L6 Ex e IIC	T1-T3	16.5	161	977	87.5	87.0	83.5	0.82	33	6.8	2.4	2.1	3.2	28	9	PTB08ATEX3040/11	0.228	190
	T1,T2	16.5	161.0	977	87.5	87.0	83.5	0.82	33	6.8	2.4	2.1	3.2	28		PTB08ATEX3040/11		
K11R 200 LX6 Ex e IIC	T1-T3	20	195	977	90.5	90.0	88.5	0.90	35.5	6.4	2.2	1.6	2.5	45	18	PTB08ATEX3040/12	0.443	265
	T1,T2	20	195.0	977	90.5	90.0	88.5	0.90	35.5	6.4	2.2	1.6	2.5	45		PTB08ATEX3040/12		
K11R 225 M6 Ex e IIC	T1-T3	27	264	975	91.0	91.0	90.5	0.88	49	5.7	2.1	1.8	2.3	40	13	PTB08ATEX3041/11	0.825	360
	T1,T2	27	264.0	975	91.0	91.0	90.5	0.88	49	5.7	2.1	1.8	2.3	40		PTB08ATEX3041/11		
K11R 250 M6 Ex e IIC	T1-T3	33	320	985	92.0	91.5	90.0	0.86	60	6.0	2.1	1.7	2.4	35	12	PTB08ATEX3042/07	1.28	475
	T1,T2	33	320.0	985	92.0	91.5	90.0	0.86	60	6.0	2.1	1.7	2.4	35		PTB08ATEX3042/07		
K11R 280 S6 Ex e IIC	T1-T3	40	386	990	93.9	93.5	92.5	0.86	71	7.0	1.9	1.8	2.5	55	24	PTB08ATEX3043/09	2.63	715
	T1,T2	40	386.0	990	93.9	93.5	92.5	0.86	71	7.0	1.9	1.8	2.5	55		PTB08ATEX3043/09		
K11R 280 M6 Ex e IIC	T1-T3	46	444	990	94.0	93.5	92.5	0.88	80	7.5	1.9	1.6	2.5	60	25	PTB08ATEX3043/10	3.33	810
	T1,T2	50	483.0	988	94.0	93.5	92.5	0.88	87	6.9	1.8	1.5	2.3	60		IBExU99ATEX1030/16		
K11R 315 S6 Ex e IIC	T1-T3	64	619	988	94.5	94.0	93.5	0.89	113	7.2	2.2	1.8	2.5	30	9	PTB08ATEX3044/08	3.33	840
	T1,T2	68	658.0	987	94.0	94.0	93.5	0.89	118	6.9	2.1	1.7	2.3	28		PTB08ATEX3044/09		
K11R 315 M6 Ex e IIC	T1-T3	76	732	992	95.2	94.6	93.0	0.88	131	7.2	1.6	1.3	2.5	45	17	IBExU99ATEX1137/19	6.00	1080
	T1,T2	82	791.0	990	95.1	94.6	93.0	0.88	141	6.7	1.5	1.2	2.4	40		IBExU99ATEX1137/21		
K11R 315 MY6 Ex e IIC	T1-T3	85	820	990	95.2	94.5	94.0	0.87	149	6.9	1.6	1.4	2.5	40	15	IBExU99ATEX1137/04	6.00	1080
	T1,T2	92	890.0	987	95.0	95.0	94.0	0.87	160	6.4	1.5	1.3	2.3	35		IBExU99ATEX1137/05		
K11R 315 L6 Ex e IIC	T1-T3	95	921	985	95.0			0.88	165	7.5	2.0	1.4	2.3				6.67	1250
	T1,T2	100	965.0	990														
K11R 315 LX6 Ex e IIC	T1-T3	110	1061	990	95.0			0.88	190	8.0	2.0	1.4	2.3				8.60	1460
	T1,T2	120	1158.0	990														
K12R 355 M6 Ex e IIC	T1-T3	125	1202	993	96.0			0.86	220	8.0	1.5	1.0	2.5				8.20	1650
	T1,T2	135	1302.0	990														
K12R 355 MX6 Ex e IIC	T1-T3	160	1539	993	96.0			0.85	285	8.0	1.5	1.0	2.5				10.10	2100
	T1,T2	175	1688.0	990														
K12R 355 L6 Ex e IIC	T1-T3	200	1923	993	96.0			0.85	355	8.0	1.5	1.0	2.5				14.00	2400
	T1,T2	215	2074.0	990														

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor


Type of explosion protection – Increased safety „e“ („eb“)
for operation in Zone 1 according to EN 60079-7

for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data															Design point 400 V, 50 Hz			
Type	Temperature class	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _k /I _B	M _k /M _B	M _s /M _B	M _k /M _B	t _e -time		ATEX no.	J	m
		kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	T2	T3		kgm ²	kg
Synchronous speed 750 rpm – 8-pole version																		
KPER 80 K8 Ex e IIC	T1-T3	0.18	2.6	670	52	50	43	0.64	0.78	2.5	1.6	1.6	1.9	180	150	IBExU02ATEX1112	0.00130	10.5
KPER 80 G8 Ex e IIC	T1-T3	0.25	3.6	670	55	55	49	0.67	1	2.8	2.3	2.3	2.4	70	60	IBExU02ATEX1112	0.00175	12.0
KPER 90 S8 Ex e IIC	T1-T3	0.37	5.0	700	59	56	48	0.56	1.61	2.9	1.5	1.5	2.0	60	55	IBExU02ATEX1113	0.00300	15.0
KPER 90 L8 Ex e IIC	T1-T3	0.55	7.6	695	64	62	55	0.58	2.15	3.0	1.6	1.6	2.1	60	55	IBExU02ATEX1113	0.00375	18.0
KPER 100 L8 Ex e IIC	T1-T3	0.65	8.9	700	66	67	63	0.63	2.25	2.9	1.5	1.5	1.8	70	60	IBExU02ATEX1114	0.00625	23.0
KPER 100 LX8 Ex e IIC	T1-T3	0.95	12.9	705	74	76	72	0.68	2.75	4.1	2.0	2.0	2.5	70	60	IBExU02ATEX1114	0.00900	28.0
KPER 112 M8 Ex e IIC	T1-T3	1.3	17.7	700	75	75	72	0.67	3.9	4.1	1.7	1.7	1.9	60	50	IBExU02ATEX1115	0.01225	33.5
K11R 132 S8 Ex e IIC	T1-T3	1.9	26	700	76.2	76.0	74.0	0.75	4.8	3.9	1.6	1.6	2.2	35	30	PTB08ATEX3037/16	0.01800	49
	T1,T2	1.9	26.0	700	76.2	76.0	74.0	0.75	4.8	3.9	1.6	1.6	2.2	35		PTB08ATEX3037/16		
K11R 132 M8 Ex e IIC	T1-T3	2.6	35	705	78.5	79.0	76.0	0.74	6.5	4.5	1.8	1.7	2.6	30	29	PTB08ATEX3037/17	0.0230	57
	T1,T2	2.6	35.0	705	78.5	79.0	76.0	0.74	6.5	4.5	1.8	1.7	2.6	30		PTB08ATEX3037/17		
K11R 160 M8 Ex e IIC	T1-T3	3.5	46	720	80.0	80.0	76.5	0.72	8.7	4.3	1.8	1.7	2.4	45	40	PTB08ATEX3038/21	0.0430	80
	T1,T2	3.5	46.0	720	80.0	80.0	76.5	0.72	8.7	4.3	1.8	1.7	2.4	45		PTB08ATEX3038/21		
K11R 160 MX8 Ex e IIC	T1-T3	4.8	64	720	81.5	80.5	78.0	0.74	11.6	4.5	1.9	1.8	2.4	50	40	PTB08ATEX3038/22	0.0530	90
	T1,T2	4.8	64.0	720	81.5	80.5	78.0	0.74	11.6	4.5	1.9	1.8	2.4	50		PTB08ATEX3038/22		
K11R 160 L8 Ex e IIC	T1-T3	6.6	86	730	84.0	82.5	79.5	0.73	15.6	5.0	2.1	1.9	2.7	40	35	PTB08ATEX3038/23	0.113	122
	T1,T2	6.6	86.0	730	84.0	82.5	79.5	0.73	15.6	5.0	2.1	1.9	2.7	40		PTB08ATEX3038/23		
K11R 180 L8 Ex e IIC	T1-T3	9.7	128	725	85.0	84.0	81.0	0.73	22.5	5.1	2.3	2.0	2.6	40	12	PTB08ATEX3039/13	0.145	140
	T1,T2	9.7	128.0	725	85.0	84.0	81.0	0.73	22.5	5.1	2.3	2.0	2.6	40		PTB08ATEX3039/13		
K11R 200 L8 Ex e IIC	T1-T3	13.2	173	730	86.5	85.5	82.5	0.72	30.5	5.6	2.3	2.1	2.9	40	13	PTB08ATEX3040/13	0.228	195
	T1,T2	13.2	173.0	730	86.5	85.5	82.5	0.72	30.5	5.6	2.3	2.1	2.9	40		PTB08ATEX3040/13		
K11R 225 S8 Ex e IIC	T1-T3	16.5	216	730	88.5	88.0	85.5	0.81	33.5	6.0	2.2	1.9	2.8	50	20	PTB08ATEX3041/12	0.440	275
	T1,T2	16.5	216.0	730	88.5	88.0	85.5	0.81	33.5	6.0	2.2	1.9	2.8	50		PTB08ATEX3041/12		
K11R 225 M8 Ex e IIC	T1-T3	20	260	735	90.5	90.0	89.0	0.81	39.5	5.3	2.0	1.7	2.2	60	25	PTB08ATEX3041/13	0.825	360
	T1,T2	20	260.0	735	90.5	90.0	89.0	0.81	39.5	5.3	2.0	1.7	2.2	60		PTB08ATEX3041/13		
K11R 250 M8 Ex e IIC	T1-T3	27	350	737	90.5	90.0	88.0	0.80	53.5	5.7	2.3	1.7	2.3	40	13	PTB08ATEX3042/08	1.350	472
	T1,T2	27	350.0	737	90.5	90.0	88.0	0.80	53.5	5.7	2.3	1.7	2.3	40		PTB08ATEX3042/08		
K11R 280 S8 Ex e IIC	T1-T3	33	425	742	93.5	93.0	91.5	0.78	65	6.3	2.0	1.8	2.4	70	30	PTB08ATEX3043/11	2.63	700
	T1,T2	33	425.0	742	93.5	93.0	91.5	0.78	65	6.3	2.0	1.8	2.4	70		PTB08ATEX3043/11		
K11R 280 M8 Ex e IIC	T1-T3	40	516	740	93.8	93.5	92.0	0.79	78	6.5	2.0	1.8	2.4	75	30	PTB08ATEX3043/12	3.33	805
	T1,T2	40	516.0	740	93.8	93.5	92.0	0.79	78	6.5	2.0	1.8	2.4	75		PTB08ATEX3043/12		
K11R 315 S8 Ex e IIC	T1-T3	50	645	740	94.0	93.5	92.5	0.80	96	5.9	1.7	1.6	2.1	50	18	PTB08ATEX3044/10	3.33	850
	T1,T2	50	645.0	740	94.0	93.5	92.5	0.80	96	5.9	1.7	1.6	2.1	50		PTB08ATEX3044/10		
K11R 315 M8 Ex e IIC	T1-T3	68	878	740	94.0	93.5	92.5	0.80	131	6.3	2.1	1.9	2.6	35	9	PTB08ATEX3044/11	3.60	880
	T1,T2	68	878.0	740	94.0	93.5	92.5	0.80	131	6.3	2.1	1.9	2.6	35		PTB08ATEX3044/11		
K11R 315 MY8 Ex e IIC	T1-T3	80	1030	742	94.5	93.5	93.0	0.80	154	6.4	1.4	1.2	2.3	30	12	IBExU99ATEX1137/25	6.00	1080
	T1,T2	80	1030.0	742	94.5	93.5	93.0	0.80	154	6.4	1.4	1.2	2.3	30		IBExU99ATEX1137/25		
K11R 315 L8 Ex e IIC	T1-T3	95	1221	743	94.7	94.1	92.7	0.76	180	7.1	1.7	1.5	2.7	26	8	IBExU99ATEX1137/42	6.76	1290
	T1,T2	95	1221.0	743	94.7	94.1	92.7	0.76	180	7.1	1.7	1.5	2.7	26		IBExU99ATEX1137/42		
K11R 315 LX8 Ex e IIC	T1-T3	115	1484	740	94.5			0.80	220	6.0	1.8	1.7	2.2				8.71	1430
	T1,T2	115	1478.0	743														
K12R 355 M8 Ex e IIC	T1-T3	140	1807	740	95.0			0.79	270	7.5	1.5	1.1	2.5				9.50	1600
	T1,T2	140	1799.0	743														
K12R 355 MX8 Ex e IIC	T1-T3	180	2323	740	95.5			0.79	350	7.5	1.5	1.1	2.5				11.60	2100
	T1,T2	180	2314.0	743														
K12R 355 L8 Ex e IIC	T1-T3	210	2710	740	95.5			0.79	400	7.5	1.5	1.1	2.5				15.80	2400
	T1,T2	210	2699.0	743														

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7

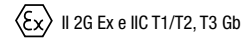
II 2G Ex e IIC T1/T2, T3 Gb

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 60 Hz

Motor selection data													Design point 480 V, 60 Hz				
Type	P _B	M _B	n _B	η _B			cos φ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _c -time		ATEX no.	J	m
	kW	Nm	rpm	(IEC/EN 60034-2)			-	480 V	-	-	-	-	T2	T3		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version																	
KPER 63 K2 Ex e IIC	0.18	0.5	3410	63.0					4.0	2.3	2.3	2.7	30	29	IBExU02ATEX1110	0.00013	4.9
KPER 63 G2 Ex e IIC	0.25	0.7	3400	66.0	67.0	66.0	0.74	0.62	4.5	2.9	2.9	3.2	15	13	IBExU02ATEX1110	0.00015	5.2
KPER 71 K2 Ex e IIC	0.37	1.05	3375	67.0			0.79	0.83	4.6	2.5	2.5	2.9	18	16	IBExU02ATEX1111	0.00025	6.7
KPER 71 G2 Ex e IIC	0.55	1.5	3410	73.0			0.74	1.25	5.3	2.8	2.8	3.4	13	11	IBExU02ATEX1111	0.00032	7.6
KPER 80 K2 Ex e IIC	0.75	2.1	3430	75.0			0.79	1.53	5.8	2.5	2.3	4.0	16	14	IBExU02ATEX1112	0.00057	10.7
KPER 80 G2 Ex e IIC	1.1	3.05	3450	77.0			0.76	2.25	6.2	2.3	2.3	2.5	10	8	IBExU02ATEX1112	0.00072	11.5
KPER 90 S2 Ex e IIC	1.3	3.6	3450	78.0			0.85	2.40	7.2	2.2	2.2	2.6	16	14	IBExU02ATEX1113	0.00132	16
KPER 90 L2 Ex e IIC	1.85	5.1	3480	81.0			0.83	3.35	8.1	3.0	3.0	3.2	12	9	IBExU02ATEX1113	0.00170	19
KPER 100 L2 Ex e IIC	2.5	6.9	3480	82.0			0.85	4.50	7.4	2.4	2.4	2.7	16	13	IBExU02ATEX1114	0.00275	25
KPER 112 M2 Ex e IIC	3.3	8.9	3525	86.0			0.77	6.00	8.4	2.1	2.1	2.8	16	11	IBExU02ATEX1115	0.0045	32
KPER 112 MX2 Ex e IIC	4.1	11.1	3520	87.0			0.84	7.00	8.6	1.9	1.9	3.0	18	11	IBExU02ATEX1115	0.0055	38
K11R 132 S2 Ex e IIC	5.3	14.0	3515	88.0			0.88	8.3	7.5	1.5	1.2	2.8	26	11	IBExU99ATEX1142/08	0.0110	57
K11R 132 S2G Ex e IIC																0.0110	57
K11R 132 SX2 Ex e IIC	6.3	17.0	3514	89.0			0.88	9.7	8.2	1.6	1.2	2.9	19	8	IBExU99ATEX1142/10	0.0110	57
K12R 132 SX2 Ex e IIC	6.6	18.0	3525	90.5			0.93	9.5	7.8	2.2	1.5	2.8	30	14	IBExU99ATEX1142/24	0.0258	88
K12R 132 SX2G Ex e IIC																0.0258	88
K11R 160 M2 Ex e IIC	8.6	23.0	3545	87.7			0.91	13.0	7.5	2.0	1.7	2.8	40	20	IBExU99ATEX1105/12	0.0575	120
K11R 160 M2G Ex e IIC																0.0575	120
K11R 160 MX2 Ex e IIC	12	33.0	3520	89.5			0.90	18.0	6.8	1.8	1.5	2.5	24	10	IBExU99ATEX1105/14	0.0575	120
K11R 160 MX2G Ex e IIC																0.0575	120
K11R 160 L2 Ex e IIC	14	38.0	3550	90.3			0.91	20.5	8.1	1.9	1.5	3.0	24	10	IBExU99ATEX1105/15	0.0675	138
K11R 160 L2G Ex e IIC																0.0675	138
K11R 180 M2 Ex e IIC	17	46.0	3550	91.0			0.93	24.0	7.5	1.9	1.6	2.8	30	13	IBExU99ATEX1138/09	0.105	175
K11R 180 M2G Ex e IIC																0.105	175
K11R 200 L2 Ex e IIC	23	62.0	3540	91.5			0.93	32.5	7.2	1.9	1.6	2.6	23	8	IBExU99ATEX1143/03	0.128	210
K11R 200 L2G Ex e IIC																0.128	210
K11R 200 LX2 Ex e IIC	27	73.0	3555	93.0			0.91	38.0	7.7	1.7	1.3	2.7	23	10	IBExU99ATEX1143/04	0.193	255
K11R 200 LX2G Ex e IIC																0.193	255
K11R 225 M2 Ex e IIC	33	88.0	3570	93.0			0.91	47.0	7.8	1.6	1.2	2.7	30	13	IBExU99ATEX1144/02	0.375	360
K11R 225 M2G Ex e IIC																0.375	360
K11R 250 M2 Ex e IIC	44	118.0	3570	92.5			0.93	62.0	7.1	1.8	1.4	2.4	35	13	IBExU99ATEX1131/06	0.650	490
K11R 250 M2G Ex e IIC																0.650	490
K11R 280 S2 Ex e IIC	56	150.0	3575	93.5			0.89	81.0	7.2	1.5	1.3	1.8	45	22	IBExU99ATEX1030/06	1.210	730
K11R 280 S2 Ex e IIC																1.210	730
K11R 280 S2G Ex e IIC																1.210	730
K11R 280 M2 Ex e IIC	70	187.0	3570	94.0			0.89	100.0	7.2	1.3	1.2	2.2	35	21	IBExU99ATEX1030/07	1.440	815
K11R 280 M2G Ex e IIC																1.440	815
K11R 315 S2 Ex e IIC	82	219.0	3576	94.5			0.90	116.0	8.2	1.9	1.8	2.6	21	15	IBExU99ATEX1137/07	1.44	850
K11R 315 S2G Ex e IIC																1.44	850
K11R 315 M2 Ex e IIC	96	256.0	3575	95.0			0.89	142.0	7.6	1.8	1.6	2.3				1.76	970
K11R 315 M2G Ex e IIC																1.76	970
K11R 315 MY2 Ex e IIC	132	353.0	3570	94.0			0.93	182.0	7.5	1.5	1.3	3.0	22	8	IBExU99ATEX1137/09	2.82	1150
K11R 315 MY2G Ex e IIC																2.82	1150
K11R 315 L2 Ex e IIC																3.66	1460
K11R 315 L2G Ex e IIC																3.66	1460
K11R 315 LX2 Ex e IIC																4.43	1630
K11R 315 LX2G Ex e IIC																4.43	1630
K12R 355 M2G Ex e IIC																4.20	2000
K12R 355 MX2G Ex e IIC																5.50	2200
K12R 355 L2G Ex e IIC																9.50	2400

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor
Type of explosion protection – Increased safety „e“ („eb“)
for operation in Zone 1 according to EN 60079-7



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 60 Hz

Motor selection data													Design point 480 V, 60 Hz				
Type	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time		ATEX no.	J	m
				(IEC/EN 60034-2)				480 V					T2	T3			
	kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	s	s		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version																	
KPER 63 K4 Ex e IIC	0.12	0.7	1670	56.0	58.0	57.0	0.68	0.46	3.2	1.8	1.8	2.2	70	50	IBExU02ATEX1110	0.00019	4.8
KPER 63 G4 Ex e IIC	0.18	1.05	1660				0.69	0.52	3.5	2.2	2.2	2.5	35	30	IBExU02ATEX1110	0.00024	5.2
KPER 71 K4 Ex e IIC	0.25	1.4	1680				0.73	0.66	3.7	1.8	1.8	2.2	27	24	IBExU02ATEX1111	0.00040	6.8
KPER 71 G4 Ex e IIC	0.37	2.1	1670				0.75	0.90	3.9	1.8	1.8	2.4	21	18	IBExU02ATEX1111	0.00050	7.8
KPER 80 K4 Ex e IIC	0.55	3.1	1695				0.71	1.38	4.3	1.8	1.8	2.0	16	13	IBExU02ATEX1112	0.00087	10.6
KPER 80 G4 Ex e IIC	0.75	4.25	1690	72.0	73.0	71.0	0.74	1.70	4.8	2.1	2.0	2.3	17	14	IBExU02ATEX1112	0.00107	11.7
KPER 90 S4 Ex e IIC	1.00	5.6	1715				0.77	2.10	5.5	2.4	2.3	2.6	19	17	IBExU02ATEX1113	0.00207	15.5
KPER 90 L4 Ex e IIC	1.35	7.5	1720				0.78	2.70	6.0	2.3	2.0	2.5	14	12	IBExU02ATEX1113	0.00260	18.0
KPER 100 L4 Ex e IIC	2.0	11.0	1730				0.74	4.05	6.6	2.5	2.3	2.9	13	11	IBExU02ATEX1114	0.00400	23.5
KPER 100 LX4 Ex e IIC	2.5	13.65	1750				0.74	4.85	7.3	2.3	2.2	2.9	12	11	IBExU02ATEX1114	0.00725	30.0
KPER 112 M4 Ex e IIC	3.6	19.65	1750				0.73	7.00	7.7	2.8	2.4	2.9	9	7	IBExU02ATEX1115	0.0090	37.0
K11R 132 S4 Ex e IIC	5.8	32.0	1740	86.0			0.82	10.0	6.9	2.0	1.7	2.9	15	9	IBExU99ATEX1142/11	0.0150	53
K11R 132 M4 Ex e IIC	7.8	42.0	1760	88.5			0.80	13.2	6.5	2.2	1.9	2.8	27	9	IBExU99ATEX1142/12	0.028	72
K11R 160 M4 Ex e IIC	12.0	65.0	1765	91.0			0.88	18.1	6.5	2.0	1.7	2.5	30	14	IBExU99ATEX1105/16	0.078	123
K11R 160 L4 Ex e IIC	15.5	83.0	1775	91.0			0.85	24.0	7.9	2.6	2.1	3.2	23	7	IBExU99ATEX1105/17	0.090	136
K11R 180 M4 Ex e IIC	17	91.0	1775	90.5			0.87	26.0	7.3	2.0	1.7	2.7	35	12	IBExU99ATEX1138/10	0.138	180
K11R 180 L4 Ex e IIC	20	108.0	1775	91.0	90.0	87.5	0.84	32.0	7.6	2.2	1.9	2.9	23	7	IBExU99ATEX1138/12	0.138	185
K11R 200 L4 Ex e IIC	28	151.0	1775	93.0	92.1	90.0	0.88	41.5	7.2	1.9	1.6	2.5	30	7	IBExU99ATEX1143/05	0.275	270
K11R 225 S4 Ex e IIC	36	194.0	1775	93.4			0.85	55	6.2	1.7	1.4	1.9	30	12	IBExU99ATEX1144/04	0.525	380
K12R 225 S4 Ex e IIC																0.525	380
K11R 225 M4 Ex e IIC	43	231.0	1780	93.9			0.85	65	7.5	2.2	1.7	2.3	18	7	IBExU99ATEX1144/05	0.525	385
K11R 250 M4 Ex e IIC	52	278.0	1785	94.0			0.85	78	7.4	1.9	1.6	2.2	26	9	IBExU99ATEX1131/09	0.95	530
K11R 280 S4 Ex e IIC	70	375.0	1785	94.0			0.84	107	7.2	1.8	1.6	2.2	30	9	IBExU99ATEX1030/10	1.96	765
K11R 280 M4 Ex e IIC	84	449.0	1785	94.0			0.83	129	7.5	1.7	1.6	2.3	29	8	IBExU99ATEX1030/11	2.27	840
K11R 315 S4 Ex e IIC	100	535.0	1785	95.0			0.84	152	7.3	2.1	1.9	2.3	21	6	IBExU99ATEX1137/11	2.27	875
K11R 315 M4 Ex e IIC	120	643.0	1783	95.6			0.85	215	7.0	1.2	1.1	1.8	24	6	IBExU99ATEX1137/43	2.73	1000
K11R 315 MY4 Ex e IIC	132	704.0	1790	95.0			0.85	197	7.5	1.5	1.4	2.5	30	12	IBExU99ATEX1137/13	4.82	1200
K11R 315 L4 Ex e IIC																5.93	1450
K11R 315 LX4 Ex e IIC																6.82	1630
K12R 355 M4 Ex e IIC																5.60	2150
K12R 355 MX4 Ex e IIC																7.90	2400
K12R 355 L4 Ex e IIC																9.50	2500

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
 for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
 Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

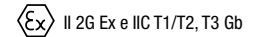
Three-phase motors with squirrel-cage rotor Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 60 Hz

Motor selection data													Design point 480 V, 60 Hz				
Type	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _c -time		ATEX no.	J	m
				(IEC/EN 60034-2)				480 V					T2	T3			
	kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	s	s		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version																	
KPER 80 K6 Ex e IIC	0.37	3.1	1130	61.0			0.65	1.13	3.5	2.0	1.8	2.0	28	26	IBExU02ATEX1112	0.00130	11.0
KPER 80 G6 Ex e IIC	0.55	4.7	1110	66.0			0.69	1.46	4.0	2.1	2.1	2.2	26	22	IBExU02ATEX1112	0.00175	12.5
KPER 90 S6 Ex e IIC	0.65	5.5	1135	69.0			0.67	1.69	3.7	1.8	1.7	1.9	35	30	IBExU02ATEX1113	0.00325	16.0
KPER 90 L6 Ex e IIC	0.95	8.1	1125	71.5			0.71	2.25	4.3	2.1	2.0	2.2	27	23	IBExU02ATEX1113	0.00425	19.0
KPER 100 L6 Ex e IIC	1.40	11.6	1150	75.0			0.69	3.25	4.6	2.1	2.0	2.3	24	20	IBExU02ATEX1114	0.00625	24.0
KPER 112 M6 Ex e IIC	1.90	15.7	1155	79.0			0.71	4.10	5.8	2.0	2.0	2.4	21	18	IBExU02ATEX1115	0.01225	33.5
K11R 132 S6 Ex e IIC	3.00	25.0	1155	82.0			0.79	5.7	5.8	2.0	1.9	3.0	21	18	IBExU99ATEX1142/13	0.0180	49
K11R 132 M6 Ex e IIC	4.00	33.0	1160	84.5			0.80	7.1	6.9	2.2	2.1	3.3	23	20	IBExU99ATEX1142/14	0.0230	53
K11R 132 MX6 Ex e IIC	5.50	45.0	1166	85.5			0.82	9.5	5.8	1.9	1.7	2.6	29	26	IBExU99ATEX1142/15	0.0430	70
K11R 160 M6 Ex e IIC	7.6	62.0	1165	86.5			0.82	12.9	5.8	2.0	1.7	2.6	30	24	IBExU99ATEX1105/18	0.0530	89
K11R 160 L6 Ex e IIC	11.0	90.0	1170	86.0			0.82	18.7	6.3	2.3	2.1	2.9	29	11	IBExU99ATEX1105/19	0.113	123
K11R 180 L6 Ex e IIC	15.0	122.0	1178	89.5			0.87	23.0	7.1	2.3	2.1	3.0	45	20	IBExU99ATEX1138/14	0.228	190
K11R 200 L6 Ex e IIC	19.0	154.0	1175	88.0			0.80	32.5	7.0	2.6	2.1	3.3				0.228	190
K11R 200 LX6 Ex e IIC	23	186.0	1178	90.5			0.90	34.0	6.8	2.2	1.7	2.5	40	14	IBExU99ATEX1143/06	0.443	265
K11R 225 M6 Ex e IIC	32	260.0	1177	92.0			0.88	47.5	6.1	2.2	1.8	2.3	30	10	IBExU99ATEX1144/06	0.825	360
K11R 250 M6 Ex e IIC	40	323.0	1181	93.0			0.88	59	6.5	2.1	1.5	2.2	26	12	IBExU99ATEX1131/10	1.28	475
K11R 280 S6 Ex e IIC	48	385.0	1190	94.0			0.87	71	7.5	2.1	1.7	2.5				2.63	715
K11R 280 M6 Ex e IIC	55	441.0	1190	94.0			0.87	81	8.1	2.2	2.0	2.9				3.33	810
K11R 315 S6 Ex e IIC	76	610.0	1190	94.5			0.87	111	8.7	2.3	2.1	3.0				3.33	840
K11R 315 M6 Ex e IIC	90	722.0	1191	95.1	94.6	93.0	0.88	130	7.4	1.6	1.3	2.5	35	12	IBExU99ATEX1137/22	6.00	1080
K11R 315 MY6 Ex e IIC	100															6.00	1080
K11R 315 L6 Ex e IIC																6.67	1250
K11R 315 LX6 Ex e IIC																8.60	1460
K12R 355 M6 Ex e IIC																8.20	1650
K12R 355 MX6 Ex e IIC																10.10	2100
K12R 355 L6 Ex e IIC																14.00	2400
Synchronous speed 750 rpm – 8-pole version																	
KPER 80 K8 Ex e IIC	0.18	2.1	820	52.0			0.64	0.65	2.7	1.6	1.6	1.9	180	150	IBExU02ATEX1112	0.00130	10.5
KPER 80 G8 Ex e IIC	0.25	2.9	830	56.0			0.62	0.87	3.1	2.3	2.3	2.4	70	60	IBExU02ATEX1112	0.00175	12.0
KPER 90 S8 Ex e IIC	0.37	4.2	850	59.0			0.56	1.34	3.2	1.5	1.5	2	60	55	IBExU02ATEX1113	0.00300	15.0
KPER 90 L8 Ex e IIC	0.55	6.2	845	64.0			0.58	1.78	3.3	1.6	1.6	2.1	60	55	IBExU02ATEX1113	0.00375	18.0
KPER 100 L8 Ex e IIC	0.65	7.3	855	67			0.60	1.95	3.3	1.5	1.5	1.8	70	60	IBExU02ATEX1114	0.00625	23.0
KPER 100 LX8 Ex e IIC	0.95	10.5	860	74.5			0.64	2.40	4.5	2.0	2.0	2.5	70	60	IBExU02ATEX1114	0.00900	28.0
KPER 112 M8 Ex e IIC	1.30	14.4	860	75.5			0.61	3.40	4.5	1.7	1.7	1.9	60	50	IBExU02ATEX1115	0.01225	33.5
K11R 132 S8 Ex e IIC	2.2	25.0	850	75.0			0.77	4.6	4.6	1.7	1.4	1.9	35	30	IBExU99ATEX1142/16	0.01800	49
K11R 132 M8 Ex e IIC	3.0	34.0	850	80.8			0.76	6.0	4.9	1.8	1.7	2.3	30	28	IBExU99ATEX1142/17	0.0230	57
K11R 160 M8 Ex e IIC	4.0	44.0	875	82.0			0.70	8.4	4.6	2.0	1.9	2.5	45	35	IBExU99ATEX1105/20	0.0430	80
K11R 160 MX8 Ex e IIC	5.5	60.0	870	83.5			0.71	11.2	4.9	2.0	1.9	2.5	45	35	IBExU99ATEX1105/21	0.0530	90
K11R 160 L8 Ex e IIC	7.6	82.0	880	84.5			0.71	15.3	5.4	2.3	2.0	2.8	35	25	IBExU99ATEX1105/22	0.113	122
K11R 180 L8 Ex e IIC	11.0	120.0	875	85.5			0.71	22.0	5.5	2.5	2.1	2.9	35	10	IBExU99ATEX1138/15	0.145	140
K11R 200 L8 Ex e IIC	15.0	163.0	880	87.5			0.70	29.5	5.7	2.4	2.2	3.1				0.228	195
K11R 225 S8 Ex e IIC	19.5	210.0	885	90.0	89.7	87.7	0.78	33.5	6.5	2.1	1.8	2.7	40	14	IBExU99ATEX1144/34	0.440	275
K11R 225 M8 Ex e IIC	24	259.0	885	91.0			0.80	39.7	5.4	2.1	1.8	2.2				0.825	360
K11R 250 M8 Ex e IIC	32	345.0	885	90.5			0.81	52.5	5.3	2.1	1.6	2.1				1.350	472
K11R 280 S8 Ex e IIC	40	427.0	895	93.5			0.78	66	6.3	1.9	1.7	2.3				2.63	700
K11R 280 M8 Ex e IIC	48	514.0	892	94.0			0.79	78	6.5	2.1	1.8	2.4				3.33	805
K11R 315 S8 Ex e IIC	60	644.0	890	94.0			0.81	95	6.0	1.7	1.6	2.1				3.33	850
K11R 315 M8 Ex e IIC	82	880.0	890	94.0			0.78	135	7.0	2.1	1.8	2.5				3.60	880
K11R 315 MY8 Ex e IIC	95	1015.0	894	94.7	9.4	93.0	0.79	152	6.6	1.4	1.2	2.3	28	10	IBExU99ATEX1137/27	6.00	1080
K11R 315 L8 Ex e IIC																6.76	1290
K11R 315 LX8 Ex e IIC																8.71	1430
K12R 355 M8 Ex e IIC																9.50	1600
K12R 355 MX8 Ex e IIC																11.60	2100
K12R 355 L8 Ex e IIC																15.80	2400

Optionally in dust-protected version, protection type: Protection by enclosure “tb” to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor
Type of explosion protection – Increased safety „e“ („eb“)
for operation in Zone 1 according to EN 60079-7



for extended voltage range, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 380...420 V, 50 Hz				
Type	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _N /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _c -time		ATEX no.	J	m
				(IEC/EN 60034-2)				380...420 V					T2	T3			
	kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	s	s		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version																	
KPER 63 K2 Ex e IIC	0.18	0.60	2710..2810	61			0.85..0.75	0.53	3.7	1.6	1.6	2.0	30	29	IBExU02ATEX1110	0.00013	4.9
KPER 63 G2 Ex e IIC	0.25	0.85	2700..2760	68	69	67	0.88..0.83	0.62	4.2	2.1	2.1	2.2		25	IBExU02ATEX1110	0.00015	5.2
KPER 71 K2 Ex e IIC	0.37	1.3	2700..2780	67			0.89..0.79	0.97	4.1	1.7	1.7	2.2	18	16	IBExU02ATEX1111	0.00025	6.7
KPER 71 G2 Ex e IIC	0.55	1.9	2740..2810	73			0.84..0.74	1.43	4.8	2.2	2.2	2.5	13	11	IBExU02ATEX1111	0.00032	7.6
KPER 80 K2 Ex e IIC	0.75	2.55	2780..2830	74			0.88..0.79	1.76	5.3	1.9	1.9	2.4	16	14	IBExU02ATEX1112	0.00057	10.7
KPER 80 G2 Ex e IIC	1.10	3.7	2800..2850	77			0.86..0.76	2.6	5.6	2.5	2.3	2.5	10	8	IBExU02ATEX1112	0.00072	11.5
KPER 90 S2 Ex e IIC	1.30	4.35	2830..2860	78			0.90..0.85	2.75	6.5	2.4	2.2	2.6	16	14	IBExU02ATEX1113	0.00132	16
KPER 90 L2 Ex e IIC	1.85	6.15	2850..2880	83			0.89..0.83	3.85	7.4	3.0	3.0	3.2	12	9	IBExU02ATEX1113	0.00170	19
KPER 100 L2 Ex e IIC	2.50	8.3	2850..2880	82			0.88..0.85	5.2	6.8	2.5	2.4	2.7	14	11	IBExU02ATEX1114	0.00275	25
KPER 112 M2 Ex e IIC	3.30	10.8	2905..2925	85			0.85..0.77	6.9	7.7	2.3	2.1	3.1	16	11	IBExU02ATEX1115	0.0045	32
KPER 112 MX2 Ex e IIC	4.10	13.5	2900..2920	87			0.89..0.84	8.1	7.9	2.5	1.9	3.3	18	11	IBExU02ATEX1115	0.0055	38
K11R 132 S2 Ex e IIC	4.60	15.0	2900	87.5	87.0	85.5	0.88	9.2	6.6	1.4	1.2	2.8	28	11	PTB08ATEX3037/01	0.0110	57
K11R 132 S2G Ex e IIC																0.0110	57
K11R 132 SX2 Ex e IIC																0.0110	57
K12R 132 SX2 Ex e IIC	5.5	18.0	2930	89.5	89.0	86.0	0.92	10.1	7.0	2.1	1.3	2.6	35	16	IBExU99ATEX1142/22	0.0258	88
K12R 132 SX2G Ex e IIC																0.0258	88
K11R 160 M2 Ex e IIC	7.5	24.0	2945	87.5	87.0	82.5	0.90	14.4	6.6	1.9	1.6	2.7	40	19	PTB08ATEX3038/01	0.0575	120
K11R 160 M2G Ex e IIC																0.0575	120
K11R 160 MX2 Ex e IIC	10.0	33.0	2935	89.5	89.0	87.5	0.90	19.1	6.1	1.8	1.5	2.5	28	11	PTB08ATEX3038/02	0.0575	120
K11R 160 MX2G Ex e IIC																0.0575	120
K11R 160 L2 Ex e IIC	12.5	41.0	2945	90.0	89.5	88.0	0.91	23	7.0	1.8	1.4	2.8	27	10	PTB08ATEX3038/03	0.0675	138
K11R 160 L2G Ex e IIC																0.0675	138
K11R 180 M2 Ex e IIC	15	49.0	2945	91.0	90.0	88.5	0.92	27	6.6	1.8	1.5	2.6	30	13	PTB08ATEX3039/07	0.105	175
K11R 180 M2G Ex e IIC																0.105	175
K11R 200 L2 Ex e IIC	20	65.0	2935	91.5	91.5	90.0	0.92	36	6.2	1.8	1.3	2.4	25	8	PTB08ATEX3040/01	0.128	210
K11R 200 L2G Ex e IIC																0.128	210
K11R 200 LX2 Ex e IIC	24	78.0	2950	93.0	92.5	91.5	0.90	43	6.6	1.6	1.2	2.5	24	9	PTB08ATEX3040/02	0.193	255
K11R 200 LX2G Ex e IIC	24	78.0	2953	93.5	93.0	91.0	0.90			1.4	1.0	2.3			IBExU99ATEX1143/15	0.193	255
K11R 225 M2 Ex e IIC	28	90.0	2970	93.0	92.5	91.0	0.91	50	7.1	1.5	1.0	2.6	30	14	PTB08ATEX3041/01	0.375	360
K11R 225 M2G Ex e IIC	28	90.0	2968	94.3			0.92		7.8	1.4	1.0	2.7				0.375	360
K11R 250 M2 Ex e IIC	36	116.0	2970	93.2	92.5	90.5	0.93	63	6.8	1.9	1.5	2.6	40	18	PTB08ATEX3042/01	0.650	490
K11R 250 M2G Ex e IIC	36															0.650	490
K11R 280 S2 Ex e IIC	47	151.0	2970	93.7	93.5	92.0	0.88	86	6.7	1.4	1.3	2.2	50	23	IBExU99ATEX1030/17	1.210	730
K11R 280 S2 Ex e IIC																1.210	730
K11R 280 S2G Ex e IIC	47															1.210	730
K11R 280 M2 Ex e IIC	58	186.0	2975	94.1	93.0	91.0	0.88	107	6.7	1.4	1.3	2.1	35	21	PTB08ATEX3043/01	1.440	815
K11R 280 M2G Ex e IIC	58	186.0	2975	94.1	93.0	91.0	0.88			1.4	1.3	2.1				1.440	815
K11R 315 S2 Ex e IIC	68	218.0	2975	95.0	94.5	93.5	0.90	122	7.1	1.8	1.6	2.3	29	13	IBExU99ATEX1137/23	1.44	850
K11R 315 S2G Ex e IIC	68	218.0	2974	94.3	87.0	92.0	0.90			1.5	1.3	2.1				1.44	850
K11R 315 M2 Ex e IIC	80	257.0	2975	95.3	94.7	94.0	0.90			1.8	1.6	2.2				1.76	970
K11R 315 M2G Ex e IIC	80	257.0	2975	95.3	94.7	94.0	0.90			1.8	1.6	2.2				1.76	970
K11R 315 MY2 Ex e IIC	110	354.0	2970	95.0	94.5	93.5	0.93	189	6.9	1.5	1.3	3.0	24	9	IBExU99ATEX1137/28	2.82	1150
K11R 315 MY2G Ex e IIC	110	354.0	2970	95.2	95.0	93.0	0.93			1.3	1.2	2.7				2.82	1150
K11R 315 L2 Ex e IIC	125	401.0	2980	95.3	95.0	93.5	0.93			1.5	1.3	2.8				3.66	1460
K11R 315 L2G Ex e IIC	125	401.0	2980	95.3	95.0	93.5	0.93			1.5	1.3	2.8				3.66	1460
K11R 315 LX2 Ex e IIC	150	480.0	2985	95.8	95.4	93.5	0.95			1.1	0.9	2.7				4.43	1630
K11R 315 LX2G Ex e IIC	150	480.0	2985	95.8	95.4	93.5	0.95			1.1	0.9	2.7				4.43	1630
K12R 355 M2G Ex e IIC	190	609.0	2980							1.4	1.1	2.6				4.20	2000
K12R 355 MX2G Ex e IIC	220	705.0	2980							1.4	1.1	2.6				5.50	2200
K12R 355 L2G Ex e IIC																9.50	2400

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
 for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
 Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7

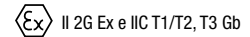
Ex II 2G Ex e IIC T1/T2, T3 Gb

for extended voltage range, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data														Design point 380...420 V, 50 Hz			
Type	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _e -time	ATEX no.		J	m
	kW	Nm	rpm	(IEC/EN 60034-2)			-	380...420 V	-	-	-	-	T2	T3		kgm ²	kg
				100 %	75 %	50 %		A					s	s			
Synchronous speed 1500 rpm – 4-pole version																	
KPER 63 K4 Ex e IIC	0.12	0.12	1340...1380	63	64	62	0.78...0.68	0.37	3.3	1.9	1.9	2.0	75	70	IBExU02ATEX1110	0.00019	4.8
KPER 63 G4 Ex e IIC	0.18	0.18	1340..1380	62.5			0.78..0.68	0.37	3.3	1.9	1.9	2.2	75	70	IBExU02ATEX1110	0.00024	5.2
KPER 71 K4 Ex e IIC	0.25	0.25	1350..1390	65			0.79..0.69	0.79	3.4	1.4	1.4	1.8	27	24	IBExU02ATEX1111	0.00040	6.8
KPER 71 G4 Ex e IIC	0.37	0.37	1350..1390	67			0.79..0.70	1.08	3.6	1.6	1.6	2.0	21	18	IBExU02ATEX1111	0.00050	7.8
KPER 80 K4 Ex e IIC	0.55	0.55	1365..1395	69			0.80..0.71	1.59	3.9	1.8	1.8	2.0	16	13	IBExU02ATEX1112	0.00087	10.6
KPER 80 G4 Ex e IIC	0.75	0.75	1320..1360	70	72	73	0.84..0.77	2.00	3.8	1.9	1.8	1.9	20	16	IBExU02ATEX1112	0.00107	11.7
KPER 90 S4 Ex e IIC	1.00	1.00	1395..1415	77			0.84..0.77	2.4	5.1	2.4	2.3	2.5	19	17	IBExU02ATEX1113	0.00207	15.5
KPER 90 L4 Ex e IIC	1.35	1.35	1395..1420	79			0.84..0.78	3.10	5.5	2.3	1.8	2.5	14	12	IBExU02ATEX1113	0.00260	18.0
KPER 100 L4 Ex e IIC	2.00	2.00	1410..1430	80			0.82..0.74	4.65	6.0	2.8	2.6	2.9	13	11	IBExU02ATEX1114	0.00400	23.5
KPER 100 LX4 Ex e IIC	2.50	2.50	1435..1450	83			0.81..0.74	5.60	6.7	2.3	2.2	2.9	12	11	IBExU02ATEX1114	0.00725	30.0
KPER 112 M4 Ex e IIC	3.60	3.60	1430..1450	85			0.82..0.73	8.10	7.0	2.8	2.1	2.9	9	7	IBExU02ATEX1115	0.0090	37.0
K11R 132 S4 Ex e IIC	5.0	33.0	1435	84.5	84.0	83.0	0.83	10.5	6.3	2.0	1.6	2.8	16	8	PTB08ATEX3037/02	0.0150	53
K11R 132 M4 Ex e IIC	6.8	45.0	1455	87.5	87.0	86.0	0.85..0.78	14	5.9	2.1	1.8	2.7	27	10	PTB08ATEX3037/03	0.028	72
K11R 160 M4 Ex e IIC	10.0	65.0	1465	91.0	90.5	89.5	0.89	18.9	6.1	2.0	1.7	2.5	35	16	PTB08ATEX3038/04	0.078	123
K11R 160 L4 Ex e IIC	13.5	88.0	1470	90.5	90.0	88.0	0.87..0.83	26	7.4	2.5	2.0	3.0	25	7	PTB08ATEX3038/05	0.090	136
K11R 180 M4 Ex e IIC	15.0	97.0	1475	90.5	90.0	88.0	0.87	28.5	6.4	1.9	1.6	2.5	40	13	PTB08ATEX3039/02	0.138	180
K11R 180 L4 Ex e IIC	17.5	113.0	1475	90.5	90.0	88.0	0.86..0.82	34	6.9	2.1	1.8	2.8	27	8	PTB08ATEX3039/03	0.138	185
K11R 200 L4 Ex e IIC	24.0	155.0	1477	92.7	92.5	91.0	0.87	45	6.4	1.8	1.5	2.4	30	8	PTB08ATEX3040/03	0.275	270
K11R 225 S4 Ex e IIC	30.0	194.0	1475	93.0	92.5	92.0	0.85	59	5.7	1.6	1.4	1.9	30	12	PTB08ATEX3041/02	0.525	380
K12R 225 S4 Ex e IIC	30.0	194.0	1482	92.8	93.3	92.8	0.84	58	7.1	1.9	2.1	1.6	29	9	IBExU99ATEX1144/41	0.525	380
K11R 225 M4 Ex e IIC	36.0	232.0	1480	94.0	93.5	92.5	0.85	69	7.0	2.2	1.7	2.3	20	7	PTB08ATEX3041/03	0.525	385
K11R 250 M4 Ex e IIC	44.0	283.0	1485	94.0	93.5	92.5	0.86	83	6.9	1.8	1.6	2.1	29	9	PTB08ATEX3042/02	0.95	530
K11R 280 S4 Ex e IIC	58.0	373.0	1485	94.2	93.7	92.5	0.84	113	6.7	1.8	1.6	2.2	40	13	IBExU99ATEX1030/18	1.96	765
K11R 280 M4 Ex e IIC	70.0	450.0	1485	95.0	94.5	93.5	0.84	135	7.1	2.0	1.8	2.4	30	11	PTB08ATEX3043/02	2.27	840
K11R 315 S4 Ex e IIC	84	540.0	1485	95.0	94.8	94.0	0.84	159	6.9	2.0	1.8	2.2	25	7	IBExU99ATEX1137/24	2.27	875
K11R 315 M4 Ex e IIC	100	643.0	1485	95.0	95.0	94.5	0.84	191	6.5	1.8	1.7	2.2	27	8	IBExU99ATEX1137/54	2.73	1000
K11R 315 MY4 Ex e IIC	115	739.0	1487	95.4	95.2	94.5	0.85	217	6.7	1.5	1.4	2.4	35	12	IBExU99ATEX1137/29	4.82	1200
K11R 315 L4 Ex e IIC	135	865.0	1491	96.0	95.5	93.7	0.86	248	7.2	1.4	1.3	2.4	40	16	IBExU99ATEX1137/17	5.93	1450
K11R 315 LX4 Ex e IIC	170	1090.0	1490	96.0	95.5	95.0	0.85			1.2	1.1	2.4				6.82	1630
K12R 355 M4 Ex e IIC	215	1377.0	1491	96.6	96.0	95.0	0.85			1.4	1.1	2.7				5.60	2150
K12R 355 MX4 Ex e IIC	240	1538.0	1490							1.5	1.2	2.8				7.90	2400
K12R 355 L4 Ex e IIC	275	1763.0	1490							1.6	1.2	2.8				9.50	2500

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor


**Type of explosion protection – Increased safety „e“ („eb“)
for operation in Zone 1 according to EN 60079-7**

for extended voltage range, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data														Design point 380...420 V, 50 Hz			
Type	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time		ATEX no.	J	m
				(IEC/EN 60034-2)				380...420 V					T2	T3			
	kW	Nm	rpm	100%	75%	50%	-	A	-	-	-	-	s	s		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version																	
KPER 80 K6 Ex e IIC	0.37	0.37	905..930	62			0.74..0.65	1.3	3.2	2.0	1.8	2.0	28	26	IBExU02ATEX1112	0.00130	11.0
KPER 80 G6 Ex e IIC																0.00175	12.5
KPER 90 S6 Ex e IIC	0.65	0.65	915..935	69			0.74..0.67	1.95	3.4	1.8	1.7	1.9	35	30	IBExU02ATEX1113	0.00325	16.0
KPER 90 L6 Ex e IIC																0.00425	19.0
KPER 100 L6 Ex e IIC	1.40	1.40	930..950	75			0.76..0.69	3.75	4.2	2.1	2.0	2.3	24	20	IBExU02ATEX1114	0.00625	24.0
KPER 112 M6 Ex e IIC	1.90	1.90	945..955	79			0.78..0.71	4.7	5.3	2.2	2.0	2.4	21	18	IBExU02ATEX1115	0.01225	33.5
K11R 132 S6 Ex e IIC	2.60	26.0	950	80.5	80.0	78.0	0.83..0.77	6.1	5.1	1.8	1.8	2.8	21	18	PTB08ATEX3037/04	0.0180	49
K11R 132 M6 Ex e IIC	3.50	35.0	960	82.9	82.5	81.0	0.85..0.79	7.5	6.2	2.0	2.0	3.0	23	20	PTB08ATEX3037/05	0.0230	53
K11R 132 MX6 Ex e IIC	4.80	48.0	963	83.5	82.5	82.0	0.83	10.3	5.0	1.8	1.6	2.5	30	26	PTB08ATEX3037/06	0.0430	70
K11R 160 M6 Ex e IIC	6.60	65.0	965	84.5	85.0	83.5	0.86..0.82	13.8	5.2	1.9	1.6	2.5	30	26	PTB08ATEX3038/06	0.0530	89
K11R 160 L6 Ex e IIC	9.7	96.0	970	85.0	84.5	82.0	0.87..0.80	20	5.6	2.2	1.9	2.7	29	12	PTB08ATEX3038/07	0.113	123
K11R 180 L6 Ex e IIC	13.2	129.0	975	89.0	89.0	87.0	0.87	25.5	6.2	2.2	2.0	2.9	45	21	PTB08ATEX3039/04	0.228	190
K11R 200 L6 Ex e IIC	16.5	161.0	977	87.5	87.0	83.5	0.82			2.4	2.1	3.2				0.228	190
K11R 200 LX6 Ex e IIC	20.0	195.0	977	90.5	90.0	88.5	0.90	37.5	6.0	2.2	1.6	2.5	45	14	PTB08ATEX3040/04	0.443	265
K11R 225 M6 Ex e IIC	27.0	264.0	975	91.0	91.0	90.5	0.88..0.84	51	5.4	2.1	1.8	2.3	35	10	PTB08ATEX3041/04	0.825	360
K11R 250 M6 Ex e IIC	33.0	320.0	985	92.0	91.5	90.0	0.86	63	5.7	2.1	1.7	2.4	30	9	IBExU99ATEX1131/13	1.28	475
K11R 280 S6 Ex e IIC	40.0	386.0	990	93.9	93.5	92.5	0.86			1.9	1.8	2.5				2.63	715
K11R 280 M6 Ex e IIC	46.0	444.0	990	94.0	93.5	92.5	0.88			1.9	1.6	2.5				3.33	810
K11R 315 S6 Ex e IIC	64.0	619.0	988	94.5	94.0	93.5	0.90..0.88	116	7.0	2.2	1.8	2.5	28	8	PTB08ATEX3044/01	3.33	840
K11R 315 M6 Ex e IIC	76.0	732.0	992	95.2	94.6	93.0	0.88	136	6.9	1.6	1.3	2.5	40	15	IBExU99ATEX1137/20	6.00	1080
K11R 315 MY6 Ex e IIC	85.0	820.0	990	95.2	94.5	94.0	0.87			1.6	1.4	2.5				6.00	1080
K11R 315 L6 Ex e IIC	95	921.0	985							2.0	1.4	2.3				6.67	1250
K11R 315 LX6 Ex e IIC	110	1061.0	990							2.0	1.4	2.3				8.60	1460
K12R 355 M6 Ex e IIC	125	1202.0	993							1.5	1.0	2.5				8.20	1650
K12R 355 MX6 Ex e IIC	160	1539.0	993							1.5	1.0	2.5				10.10	2100
K12R 355 L6 Ex e IIC	200	1923.0	993							1.5	1.0	2.5				14.00	2400
Synchronous speed 750 rpm - 8-pole version																	
KPER 80 K8 Ex e IIC																0.00130	10.5
KPER 80 G8 Ex e IIC	0.25	3.6	655..680	55			0.70..0.62	1	2.8	2.3	2.2	2.4	70	60	PTB 98 ATEX 3311	0.00175	12.0
KPER 90 S8 Ex e IIC																0.00300	15.0
KPER 90 L8 Ex e IIC																0.00375	18.0
KPER 100 L8 Ex e IIC	0.65	8.9	690..705	66			0.67..0.60	2.25	2.9	1.5	1.5	1.8	70	60	PTB 98 ATEX 3313	0.00625	23.0
KPER 100 LX8 Ex e IIC	0.95	12.9	700..710	74			0.72..0.64	2.75	4.1	2.0	2.0	2.5	70	60	PTB 98 ATEX 3313	0.00900	28.0
KPER 112 M8 Ex e IIC	1.3	17.7	690..710	75			0.70..0.61	3.9	4.1	1.8	1.7	1.9	60	50	PTB 98 ATEX 3314	0.01225	33.5
K11R 132 S8 Ex e IIC	1.9	26.0	700	76.2	76.0	74.0	0.75	5	3.8	1.6	1.6	2.2	35	30	PTB08ATEX3037/07	0.01800	49
K11R 132 M8 Ex e IIC	2.6	35.0	705	78.5	79.0	76.0	0.78..0.71	6.6	4.4	1.8	1.7	2.6	30	27	PTB08ATEX3037/08	0.0230	57
K11R 160 M8 Ex e IIC	3.5	46.0	720	80.0	80.0	76.5	0.76..0.70	8.8	4.2	1.8	1.7	2.4	45	40	PTB08ATEX3038/08	0.0430	80
K11R 160 MX8 Ex e IIC	4.8	64.0	720	81.5	80.5	78.0	0.76..0.70	11.8	4.4	1.9	1.8	2.4	45	40	PTB08ATEX3038/09	0.0530	90
K11R 160 L8 Ex e IIC	6.6	86.0	730	84.0	82.5	79.5	0.76..0.68	16.3	4.7	2.1	1.9	2.7	35	29	PTB08ATEX3038/10	0.113	122
K11R 180 L8 Ex e IIC	9.7	128.0	725	85.0	84.0	81.0	0.77..0.69	22.5	5.0	2.3	2.0	2.6	40	10	PTB08ATEX3039/05	0.145	140
K11R 200 L8 Ex e IIC	13.2	173.0	730	86.5	85.5	82.5	0.72			2.3	2.1	2.9				0.228	195
K11R 225 S8 Ex e IIC	16.5	216.0	730	88.5	88.0	85.5	0.81			2.2	1.9	2.8				0.440	275
K11R 225 M8 Ex e IIC	20.0	260.0	735	90.5	90.0	89.0	0.81			2.0	1.7	2.2				0.825	360
K11R 250 M8 Ex e IIC	27.0	350.0	737	90.5	90.0	88.0	0.81..0.77	55	5.9	2.3	1.7	2.3	25	14	IBExU99ATEX1131/14	1.350	472
K11R 280 S8 Ex e IIC	33.0	425.0	742	93.5	93.0	91.5	0.78			2.0	1.8	2.4				2.63	700
K11R 280 M8 Ex e IIC	40.0	516.0	740	93.8	93.5	92.0	0.79			2.0	1.8	2.4				3.33	805
K11R 315 S8 Ex e IIC	50	645.0	740	94.0	93.5	92.5	0.80			1.7	1.6	2.1				3.33	850
K11R 315 M8 Ex e IIC	68	878.0	740	94.0	93.5	92.5	0.80			2.1	1.9	2.6				3.60	880
K11R 315 MY8 Ex e IIC	80	1030.0	742	94.5	93.5	93.0	0.81..0.77	160	6.2	1.4	1.2	2.3	30	11	IBExU99ATEX1137/26	6.00	1080
K11R 315 L8 Ex e IIC	95	1221.0	743							1.7	1.5	2.7				6.76	1290
K11R 315 LX8 Ex e IIC	115	1484.0	740							1.8	1.7	2.2				8.71	1430
K12R 355 M8 Ex e IIC	140	1807.0	740							1.5	1.1	2.5				9.50	1600
K12R 355 MX8 Ex e IIC	180	2323.0	740							1.5	1.1	2.5				11.60	2100
K12R 355 L8 Ex e IIC	210	2710.0	740							1.5	1.1	2.5				15.80	2400

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

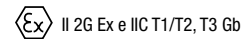
Motor selection data													Design point 400 V, 50 Hz				
Type	Temperature class	P _B kW	M _B Nm	n _B rpm	η _B (IEC/EN 60034-2)			cosφ _B	I _B A	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time s	ATEX no.	J	m
					100 %	75 %	50 %	-	400 V	-	-	-	-	T2 s	T3 s	kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version																	
KPER 63 K2 Ex e IIC	T1-T3	0.18	0.6	2780	61	63	57	0.80	0.53	3.7	1.6	1.6	2.0	30	29	IBExU02ATEX1110	0.00013 4.9
KPR 63 KY2 Ex e IIC	T1-T3	0.25	0.8	2860	67	63	56	0.70	0.77	5.2	2.9	2.9	3.6	23	20	IBExU02ATEX1110	0.00032 6.3
KPER 71 K2 Ex e IIC	T1-T3	0.37	1.3	2740	67	70	67	0.84	0.95	4.1	1.7	1.7	2.2	18	17	IBExU02ATEX1111	0.00025 6.7
KPR 71 KY2 Ex e IIC	T1-T3	0.55	1.8	2880	77	76	72	0.74	1.39	7.2	3.2	3.1	3.8	20	17	IBExU02ATEX1111	0.00057 10.0
KPER 80 K2 Ex e IIC	T1-T3	0.75	2.6	2810	74	75	73	0.84	1.76	5.3	1.9	1.9	2.4	16	14	IBExU02ATEX1112	0.00057 10.7
KPR 80 KY2 Ex e IIC	T1-T3	1.10	3.6	2890	83	82	81	0.84	2.3	7.9	2.7	2.7	3.1	17	15	IBExU02ATEX1112	0.00132 15
KPER 90 S2 Ex e IIC	T1-T3	1.30	4.4	2850	78	81	80	0.88	2.75	6.5	2.4	2.2	2.6	16	14	IBExU02ATEX1113	0.00132 16
KPER 90 L2 Ex e IIC	T1-T3	1.85	6.2	2870	83	84	83	0.86	3.85	7.4	3.0	3.0	3.2	12	9	IBExU02ATEX1113	0.00170 19
KPER 100 L2 Ex e IIC	T1-T3	2.50	8.3	2870	82	83	82	0.87	5.2	6.8	2.5	2.4	2.7	16	11	IBExU02ATEX1114	0.00275 25
KPER 112 M2 Ex e IIC	T1-T3	3.30	10.8	2910	85	85	82	0.82	6.9	7.7	2.3	2.1	3.1	16	11	IBExU02ATEX1115	0.0045 32
KPER 112 MX2 Ex e IIC	T1-T3	4.10	13.5	2910	87	88	86	0.87	8.1	7.9	2.5	1.9	3.3	18	11	IBExU02ATEX1115	0.0055 38
K11R 132 S2 Ex e IIC	T1-T3	4.60	15	2900	87.5	87.0	85.5	0.88	8.6	7.0	1.4	1.2	2.8	29	13	PTB08ATEX3037/09	0.0110 57
K11R 132 S2G Ex e IIC	T1-T3	4.60	15	2920	90.5	90.7	89.0	0.88	8.3	7.2	1.4	1.2	2.8	28	14	IBExU99ATEX1142/50	0.0110 57
K12R 132 SX2 Ex e IIC	T1-T3	5.5	18	2930	89.5	89.0	86.0	0.92	9.6	7.4	2.1	1.3	2.6	35	18	IBExU99ATEX1142/21	0.0258 88
K12R 132 SX2G Ex e IIC	T1,T2	6.6	22	2910	90.0	89.5	88.5	0.93	11.6	6.2	1.7	1.1	2.1	30		IBExU99ATEX1142/23	
	T1-T3	5.5	18	2930	90.0	89.4	87.5	0.93	9.5	6.8	2.0	1.5	2.6	35	18	IBExU99ATEX1142/48	0.0258 88
	T1,T2	6.6	22	2910	90.0	89.5	88.5	0.93	11.5	5.6	1.7	1.2	2.2	30		IBExU99ATEX1142/49	
K11R 160 M2 Ex e IIC	T1-T3	7.5	24	2945	87.5	87.0	82.5	0.90	13.7	6.9	1.9	1.6	2.7	40	21	PTB08ATEX3038/11	0.0575 120
	T1,T2	9.5	31	2917	87.5			0.90	17.4	5.4	1.5	1.3	2.1	40		PTB08ATEX3038/12	
K11R 160 M2G Ex e IIC	T1-T3	7.5	24	2950	91.5	91.0	89.0	0.92	12.9	7.3	1.8	1.4	2.5	40	21	IBExU99ATEX1105/50	0.0575 120
	T1,T2	9.5	31	2927	90.8	91.1	90.6	0.92	16.4	5.8	1.4	1.1	2.0	35		IBExU99ATEX1105/51	
K11R 160 MX2 Ex e IIC	T1-T3	10.0	33	2935	89.5	89.0	87.5	0.90	17.9	6.5	1.8	1.5	2.5	30	13	PTB08ATEX3038/13	0.0575 120
	T1,T2	13.0	43	2900	88.0			0.90	23.5	5.0	1.4	1.1	1.9	20		PTB08ATEX3038/14	
K11R 160 MX2G Ex e IIC	T1-T3	10.0	32	2940	91.5	91.4	90.0	0.92	17.1	6.8	1.6	1.3	2.2	29	12	IBExU99ATEX1105/52	0.0575 120
	T1,T2	13.0	43	2900	89.5	91.0	90.0	0.92	23.0	5.1	1.3	1.0	1.7	20		IBExU99ATEX1105/53	
K11R 160 L2 Ex e IIC	T1-T3	12.5	41	2945	90.0	89.5	88.0	0.91	22	7.3	1.8	1.4	2.8	24	11	PTB08ATEX3038/15	0.0675 138
	T1,T2	16.0	52	2920	89.5			0.91	28.5	5.6	1.4	1.1	2.2	20		PTB08ATEX3038/16	
K11R 160 L2G Ex e IIC	T1-T3	12.5	40	2950	93.2	92.9	91.0	0.90	21.5	7.5	1.9	1.5	2.7	25	10	IBExU99ATEX1105/48	0.0675 138
	T1,T2	16.0	52	2925	91.6	92.3	92.0	0.90	28.0	5.7	1.5	1.1	2.1	18		IBExU99ATEX1105/49	
K11R 180 M2 Ex e IIC	T1-T3	15	49	2945	91.0	90.0	88.5	0.92	26	7.0	1.8	1.5	2.6	35	16	PTB08ATEX3039/06	0.105 175
	T1,T2	19.0	62	2920	90.5			0.92	33	5.4	1.5	1.3	2.1	26		PTB08ATEX3039/07	
K11R 180 M2G Ex e IIC	T1-T3	15	49	2950	92.0	92.2	91.0	0.89	26.5	7.2	1.5	1.2	2.4	40	17	IBExU99ATEX1138/28	0.105 175
	T1,T2	19.0	62	2930	92.5	92.2	91.2	0.91	32.5	5.8	1.2	1.0	1.9	30		IBExU99ATEX1138/29	
K11R 200 L2 Ex e IIC	T1-T3	20	65	2935	91.5	91.5	90.0	0.92	34	6.6	1.8	1.3	2.4	27	10	PTB08ATEX3040/05	0.128 210
	T1,T2	25.0	82	2910	90.5			0.93	43	5.2	1.4	1.2	1.9	17		PTB08ATEX3040/06	
K11R 200 L2G Ex e IIC	T1-T3	20	65	2945	92.7	92.3	91.0	0.93	33.5	6.7	1.3	1.2	2.3	35	13	IBExU99ATEX1143/30	0.128 210
	T1,T2	25.0	82	2920	92.3	92.0	91.6	0.92	42.5	5.3	1.1	1.0	1.8	24		IBExU99ATEX1143/31	
K11R 200 LX2 Ex e IIC	T1-T3	24	78	2950	93.0	92.5	91.5	0.90	41	7.0	1.6	1.2	2.5	26	10	PTB08ATEX3040/07	0.193 255
	T1,T2	31.0	101	2925	91.5			0.90	54	5.3	1.4	1.2	2.2	16		PTB08ATEX3040/08	
K11R 200 LX2G Ex e IIC	T1-T3	24	78	2953	93.5	93.0	91.0	0.91	40.5	7.0	1.4	1.0	2.3	27	12	IBExU99ATEX1143/15	0.193 255
	T1,T2	31.0	101	2934	93.0	93.0	92.5	0.91	52.5	5.4	1.1	0.8	1.7	18		IBExU99ATEX1143/16	
K11R 225 M2 Ex e IIC	T1-T3	28	90	2970	93.0	92.5	91.0	0.91	47.5	7.6	1.5	1.0	2.6	30	15	PTB08ATEX3041/05	0.375 360
	T1,T2	38.0	123	2950	93.0			0.91	65	5.4	1.2	0.9	2.0	27		PTB08ATEX3041/06	
K11R 225 M2G Ex e IIC	T1-T3	28	90	2968	93.0	92.5	91.0	0.92	47	7.8	1.5	1.0	2.6	30	16	IBExU99ATEX1144/15	0.375 360
	T1,T2	38.0	123	2951	93.0			0.91	64	5.7	1.2	0.9	2.0	25		IBExU99ATEX1144/16	
K11R 250 M2 Ex e IIC	T1-T3	36	116	2970	93.2	92.5	90.5	0.93	60	7.2	1.9	1.5	2.6	40	19	PTB08ATEX3042/03	0.650 490
	T1,T2	47.0	152	2955	93.0			0.92	79	5.4	1.4	1.1	1.9	35		PTB08ATEX3042/04	
K11R 250 M2G Ex e IIC	T1-T3	36	116	2970	95.1			0.92	59.5	7.2	1.9	1.5	2.6	45	23	IBExU99ATEX1131/18	0.650 490
	T1,T2	47.0	152	2958	93.7			0.92	79	5.4	1.4	1.1	1.9	40		IBExU99ATEX1131/19	
K11R 280 S2 Ex e IIC	T1-T3	47	151	2970	93.7	93.5	92.0	0.88	82	7.1	1.4	1.3	2.2	50	25	PTB08ATEX3043/03	1.210 730
K11R 280 S2 Ex e IIC	T1-T3	68	218	2975	93.7	92.5	90.0	0.89	117	7.8	1.4	1.3	2.3	23	9	IBExU99ATEX1030/14	1.210 730
K11R 280 S2G Ex e IIC	T1-T3	47	151	2976	93.8			0.89	81.5	8.0	1.4	1.3	2.2	35	18	IBExU99ATEX1030/23	1.210 730
K11R 280 M2 Ex e IIC	T1-T3	58	186	2975	94.1	93.0	91.0	0.88	101	7.1	1.4	1.3	2.1	40	18	PTB08ATEX3043/04	1.440 815
K11R 280 M2 Ex e IIC	T1-T3	76	244	2970				0.90	130	6.6	1.1	1.0	1.7	30	13	PTB08ATEX3043/05	1.440 815
K11R 280 M2G Ex e IIC	T1-T3	58	186	2970	95.1	93.5	91.0	0.90	98	7.3	1.4	1.3	2.1	45	21	IBExU99ATEX1030/24	1.440 815

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor



Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

Motor selection data														Design point 400 V, 50 Hz				
Type	Temperature class	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time		ATEX no.	J	m
(IEC/EN 60034-2)							400 V					T2	T3					
kW		Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	s	s		kgm ²	kg	
Synchronous speed 3000 rpm – 2-pole version																		
K11R 315 S2 Ex e IIC	T1-T3	68	218	2975	95.0	94.5	93.5	0.90	116	7.5	1.8	1.6	2.3	28	11	PTB08ATEX3044/02	1.44	850
K11R 315 S2 Ex e IIC	T1-T3	95		2960				0.89	163	5.8	1.4	1.3	1.8	18		IBExU99ATEX1137/02	1.44	850
K11R 315 S2G Ex e IIC	T1-T3	68	218	2974	94.3	87.0	92.0	0.90	116	7.8	1.5	1.3	2.1	24	9	IBExU99ATEX1137/39	1.44	850
K11R 315 M2 Ex e IIC	T1-T3	80	257	2975	95.3	94.7	94.0	0.90	134	7.5	1.8	1.6	2.2	29	12	PTB08ATEX3044/03	1.76	970
K11R 315 M2G Ex e IIC	T1-T3	80	257	2975	95.3	94.7	94.0	0.90	135	7.1	1.8	1.6	2.2	35	15	IBExU99ATEX1137/56	1.76	970
K11R 315 MY2 Ex e IIC	T1-T3	110	354	2970	95.0	94.5	93.5	0.92	182	7.3	1.5	1.3	3.0	26	11	PTB08ATEX3044/04	2.82	1150
K11R 315 MY2G Ex e IIC	T1-T3	110	354	2970	95.2	95.0	93.0	0.93	180	6.5	1.3	1.2	2.7	30	11	IBExU99ATEX1137/41	2.82	1150
K11R 315 L2 Ex e IIC	T1-T3	125	401	2980	95.3	95.0	93.5	0.93	205	8.0	1.5	1.3	2.8	30	12	IBExU99ATEX1137/40	3.66	1460
	T1,T2	165																
K11R 315 L2G Ex e IIC	T1-T3	125	401	2980	95.3	95.0	93.5	0.93	205	8.0	1.5	1.3	2.8				3.66	1460
	T1,T2	165																
K11R 315 LX2 Ex e IIC	T1-T3	150	480	2985	95.8	95.4	93.5	0.95	240	8.0	1.1	0.9	2.7	30	12	IBExU99ATEX1137/30	4.43	1630
	T1,T2	200																
K11R 315 LX2G Ex e IIC	T1-T3	150	480	2985	95.8	95.4	93.5	0.95	240	8.0	1.1	0.9	2.7				4.43	1630
	T1,T2	200																
K12R 355 M2G Ex e IIC	T1-T3	190	609	2980	95.0			0.91	310	8.0	1.4	1.1	2.6				4.20	2000
	T1,T2	220	704	2984	95.3			0.92	362	7.1				8		IBExU01ATEX1009/05		
K12R 355 MX2G Ex e IIC	T1-T3	220	705	2980	95.0			0.91	360	8.0	1.4	1.1	2.6				5.50	2200
	T1,T2	300																
K12R 355 L2G Ex e IIC	T1-T3	250	800	2986	95.1	95.5	95.2	0.93	406	6.4	1.3	0.7	1.9	9	6	IBExU01ATEX1009/17	9.50	2400
	T1,T2	300	960	2985	96.4			0.93	483	6.3				17		IBExU01ATEX1009/06		

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

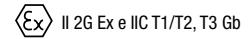
according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data															Design point 400 V, 50 Hz		
Type	Temperature class	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time	ATEX no.	J	m
		kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	T2	T3		
															s	s	kgm ²
Synchronous speed 1500 rpm – 4-pole version																	
KPER 63 K4 Ex e IIC	T1-T3	0.12	0.8	1370	54	56	46	0.68	0.48	2.9	1.8	1.8	2.2	70	50	IBExU02ATEX1110	0.00019 4.8
KPER 63 G4 Ex e IIC	T1-T3	0.18	1.3	1360	60	59	52	0.69	0.63	3.2	1.9	1.9	2.2	35	30	IBExU02ATEX1110	0.00024 5.2
KPER 71 K4 Ex e IIC	T1-T3	0.25	1.7	1380	65	63	58	0.73	0.79	3.4	1.4	1.4	1.8	27	24	IBExU02ATEX1111	0.00040 6.8
KPR 71 KY4 Ex e IIC	T1-T3	0.37	2.5	1435	70	67	58	0.59	1.45	4.8	3.2	3.2	4.0	20	17	IBExU02ATEX1111	0.00087 9.9
KPER 80 GY4 Ex e IIC	T1-T3	0.55	3.7	1430	73	71	65	0.62	1.75	5.1	2.7	2.6	3.0	20	17	IBExU02ATEX1112	0.00107 11.7
KPR 80 KY4 Ex e IIC	T1-T3	0.75	5.0	1440	79	78	73	0.7	1.95	6.4	2.8	2.7	3.1	22	20	IBExU02ATEX1112	0.00207 14.5
KPER 90 S4 Ex e IIC	T1-T3	1.00	6.8	1410	77	78	75	0.8	2.4	5.1	2.4	2.3	2.5	19	17	IBExU02ATEX1113	0.00207 15.5
KPER 90 L4 Ex e IIC	T1-T3	1.35	9.1	1410	79	80	79	0.81	3.10	5.5	2.3	1.8	2.5	14	12	IBExU02ATEX1113	0.00260 18.0
KPER 100 L4 Ex e IIC	T1-T3	2.00	13.5	1420	80	82	80	0.8	4.65	6.0	2.8	2.6	2.9	13	11	IBExU02ATEX1114	0.00400 23.5
KPER 100 LX4 Ex e IIC	T1-T3	2.50	16.6	1440	83	83	81	0.78	5.60	6.7	2.3	2.2	2.9	12	11	IBExU02ATEX1114	0.00725 30.0
KPER 112 MX4 Ex e IIC	T1-T3	3.60	23.9	1440	85	85	84	0.82	7.70	7.6	2.6	2.5	3.0	14	12	IBExU02ATEX1115	0.0110 45.0
KPER 132 S4T Ex e IIC	T1-T3	4.40	29.5	1425	85.5	86.5	86	0.84	9.20	6.8	2.6	2.1	3.0	10	9	IBExU02ATEX1116	0.0110 47.0
K11R 132 S4 Ex e IIC	T1-T3	5.0	33	1435	84.5	84.0	83.0	0.83	10.2	6.5	2.0	1.6	2.8	15	10	PTB08ATEX3037/11	0.0150 53
K11R 132 M4 Ex e IIC	T1-T3	6.8	45	1455	87.5	87.0	86.0	0.82	13.6	6.1	2.1	1.8	2.7	29	12	PTB08ATEX3037/12	0.028 72
K11R 160 M4 Ex e IIC	T1-T3	10.0	65	1465	91.0	90.5	89.5	0.89	18	6.3	2.0	1.7	2.5	40	18	PTB08ATEX3038/17	0.078 123
K11R 160 L4 Ex e IIC	T1-T3	13.5	88	1470	90.5	90.0	88.0	0.86	25	7.7	2.5	2.0	3.0	26	9	PTB08ATEX3038/18	0.090 136
K11R 180 M4 Ex e IIC	T1-T3	15.0	97	1475	90.5	90.0	88.0	0.87	27.5	6.8	1.9	1.6	2.5	45	15	PTB08ATEX3039/08	0.138 180
	T1,T2	17.0	111	1465	90.5			0.88	31	6.0	1.7	1.4	2.3	35		PTB08ATEX3039/09	
K11R 180 L4 Ex e IIC	T1-T3	17.5	113	1475	90.5	90.0	88.0	0.85	33	7.1	2.1	1.8	2.8	25	9	PTB08ATEX3039/10	0.138 185
	T1,T2	20.0	130	1470	90.5			0.86	37	6.3	1.8	1.6	2.4	24		PTB08ATEX3039/11	
K11R 200 L4 Ex e IIC	T1-T3	24.0	155	1477	92.7	92.5	91.0	0.87	43	6.8	1.8	1.5	2.4	35	12	PTB08ATEX3040/09	0.275 270
	T1,T2	27.0	175	1470	92.5			0.88	48	6.0	1.6	1.5	2.2	30		PTB08ATEX3040/10	
K11R 225 S4 Ex e IIC	T1-T3	30.0	194	1475	93.0	92.5	92.0	0.85	55	6.1	1.6	1.4	1.9	30	14	PTB08ATEX3041/07	0.525 380
	T1,T2	33.0	214	1472	92.9			0.85	60	5.6	1.5	1.2	1.7	30		PTB08ATEX3041/08	
K12R 225 S4 Ex e IIC	T1-T3	30.0	194	1475	92.8	93.3	92.8	0.84	58	7.1	1.9	2.1	1.6	29	9	IBExU99ATEX1144/41	0.525 380
	T1,T2	33.0	213	1479	92.5	93.2	93.0	0.85	64	6.4	1.7	1.9	1.5	27		IBExU99ATEX1144/42	
K11R 225 M4 Ex e IIC	T1-T3	36.0	232	1480	94.0	93.5	92.5	0.85	65	7.4	2.2	1.7	2.3	22	7	PTB08ATEX3041/09	0.525 385
	T1,T2	40.0	259	1475	93.5			0.85	73	6.6	2.0	1.6	2.1	19		PTB08ATEX3041/10	
K11R 250 M4 Ex e IIC	T1-T3	44.0	283	1485	94.0	93.5	92.5	0.86	79	7.2	1.8	1.6	2.1	30	10	PTB08ATEX3042/05	0.95 530
	T1,T2	50.0	323	1480	94.0			0.86	90	6.3	1.7	1.5	1.9	27		PTB08ATEX3042/06	
K11R 280 S4 Ex e IIC	T1-T3	58.0	373	1485	94.2	93.7	92.5	0.84	106	7.2	1.8	1.6	2.2	40	13	PTB08ATEX3043/06	1.96 765
	T1,T2	68.0	439	1480	94.0			0.85	124	6.1	1.6	1.4	1.9	30		IBExU99ATEX1030/02	
K11R 280 M4 Ex e IIC	T1-T3	70.0	450	1485	95.0	94.5	93.5	0.84	127	7.5	2.0	1.8	2.4	35	13	PTB08ATEX3043/07	2.27 840
	T1,T2	80.0	515	1483	94.5			0.84	147	6.5	1.7	1.6	2.0	30		PTB08ATEX3043/08	
K11R 315 S4 Ex e IIC	T1-T3	84	540	1485	95.0	94.8	94.0	0.84	152	7.2	2.0	1.8	2.2	25	9	PTB08ATEX3044/05	2.27 875
	T1,T2	100.0	645	1480	95.1			0.84	183	6.0	1.7	1.6	1.9	20		IBExU99ATEX1137/15	
K11R 315 M4 Ex e IIC	T1-T3	100	643	1485	95.0	95.0	94.5	0.84	181	6.8	1.8	1.7	2.2	30	10	PTB08ATEX3044/06	2.73 1000
	T1,T2	120.0	775	1478	95.3			0.85	216	5.6	1.2	1.0	1.5	30		IBExU99ATEX1137/01	
K11R 315 MY4 Ex e IIC	T1-T3	115	738	1489	95.4	95.2	94.5	0.85	205	7.1	1.5	1.4	2.4	35	14	PTB08ATEX3044/07	4.82 1200
K11R 315 L4 Ex e IIC	T1-T3	135	865	1491	96.0	95.5	93.7	0.86	236	7.6	1.4	1.3	2.4	40	18	IBExU99ATEX1137/16	5.93 1450
	T1,T2	165															
K11R 315 LX4 Ex e IIC	T1-T3	170	1090	1490	96.0	95.5	95.0	0.85	300	7.1	1.2	1.1	2.4	45	18	IBExU99ATEX1137/35	6.82 1630
	T1,T2	200															
K12R 355 M4 Ex e IIC	T1-T3	215	1377	1491	96.6	96.0	95.0	0.85	380	8.0	1.4	1.1	2.7	30	8	IBExU01ATEX1009/01	5.60 2150
	T1,T2	245															
K12R 355 MX4 Ex e IIC	T1-T3	240	1538	1490	96.5			0.85	425	8.0	1.5	1.2	2.8				7.90 2400
	T1,T2	275															
K12R 355 L4 Ex e IIC	T1-T3	275	1758	1494	97.1	96.7	95.0	0.84	485	7.9	1.3	1.2	2.7	40	13	IBExU01ATEX1009/02	9.50 2500
	T1,T2	315															

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31
for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor



Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

Motor selection data															Design point 400 V, 50 Hz			
Type	Temperature class	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time		ATEX no.	J	m
		kW	Nm	rpm	(IEC/EN 60034-2)			-	400 V	-	-	-	-	T2	T3			
						100 %	75 %	50 %	-	A	-	-	-	-	s	s		kgm ²
Synchronous speed 1000 rpm – 6-pole version																		
KPER 80 K6 Ex e IIC	T1-T3	0.37	3.9	910	60.5	60	55	0.7	1.26	3.2	1.7	1.7	1.9	32	28	IBExU02ATEX1112	0.00130	11.0
KPER 80 G6 Ex e IIC	T1-T3	0.55	5.8	910	66	64	60	0.69	1.75	3.6	2.1	2.1	2.2	26	22	IBExU02ATEX1112	0.00175	12.5
KPER 90 S6 Ex e IIC	T1-T3	0.65	6.7	925	69	68	65	0.71	1.95	3.4	1.8	1.7	1.9	35	30	IBExU02ATEX1113	0.00325	16.0
KPER 90 L6 Ex e IIC	T1-T3	0.95	9.8	925	71	72	69	0.71	2.7	3.9	2.1	2.0	2.2	27	23	IBExU02ATEX1113	0.00425	19.0
KPER 100 L6 Ex e IIC	T1-T3	1.40	14.2	940	75	75	74	0.73	3.75	4.2	2.1	2.0	2.3	24	20	IBExU02ATEX1114	0.00625	24.0
KPER 112 M6 Ex e IIC	T1-T3	1.90	19.1	950	79	80	78	0.74	4.7	5.3	2.2	2.0	2.4	21	18	IBExU02ATEX1115	0.01225	33.5
KPER 132 SX6T Ex e IIC	T1-T3	2.60	26.0	955	82.5	82	79	0.72	6.4	6.0	3.2	3.0	3.6	31	27	IBExU02ATEX1116	0.01580	50.0
K11R 132 S6 Ex e IIC	T1-T3	2.60	26	950	80.5	80.0	78.0	0.79	5.9	5.3	1.8	1.8	2.8	22	19	PTB08ATEX3037/13	0.0180	49
K11R 132 M6 Ex e IIC	T1-T3	3.50	35	960	82.9	82.5	81.0	0.82	7.4	6.3	2.0	2.0	3.0	24	21	PTB08ATEX3037/14	0.0230	53
K11R 132 MX6 Ex e IIC	T1-T3	4.80	48	963	83.5	82.5	82.0	0.83	10	5.1	1.8	1.6	2.5	30	28	PTB08ATEX3037/15	0.0430	70
K11R 160 M6 Ex e IIC	T1-T3	6.60	65	965	84.5	85.0	83.5	0.84	13.4	5.4	1.9	1.6	2.5	35	30	PTB08ATEX3038/19	0.0530	89
K11R 160 L6 Ex e IIC	T1-T3	9.7	96	970	85.0	84.5	82.0	0.84	19.6	5.8	2.2	1.9	2.7	30	13	PTB08ATEX3038/20	0.113	123
K11R 180 L6 Ex e IIC	T1-T3	13.2	129	975	89.0	89.0	87.0	0.87	24.5	6.5	2.2	2.0	2.9	50	23	PTB08ATEX3039/12	0.228	190
K11R 200 L6 Ex e IIC	T1-T3	16.5	161	977	87.5	87.0	83.5	0.82	33	6.8	2.4	2.1	3.2	28	9	PTB08ATEX3040/11	0.228	190
K11R 200 LX6 Ex e IIC	T1-T3	20.0	195	977	90.5	90.0	88.5	0.90	35.5	6.4	2.2	1.6	2.5	45	18	PTB08ATEX3040/12	0.443	265
K11R 225 M6 Ex e IIC	T1-T3	27.0	264	975	91.0	91.0	90.5	0.88	49	5.7	2.1	1.8	2.3	40	13	PTB08ATEX3041/11	0.825	360
K11R 250 M6 Ex e IIC	T1-T3	33.0	320	985	92.0	91.5	90.0	0.86	60	6.0	2.1	1.7	2.4	35	12	PTB08ATEX3042/07	1.28	475
K11R 280 S6 Ex e IIC	T1-T3	40.0	386	990	93.9	93.5	92.5	0.86	71	7.0	1.9	1.8	2.5	55	24	PTB08ATEX3043/09	2.63	715
K11R 280 M6 Ex e IIC	T1-T3	46.0	444	990	94.0	93.5	92.5	0.88	80	7.5	1.9	1.6	2.5	60	25	PTB08ATEX3043/10	3.33	810
K11R 315 S6 Ex e IIC	T1,T2	50.0	483	988	94.0	93.5	92.5	0.88	87	6.9	1.8	1.5	2.3	60		IBExU99ATEX1030/16		
	T1-T3	64.0	619	988	94.5	94.0	93.5	0.89	113	7.2	2.2	1.8	2.5	30	9	PTB08ATEX3044/08	3.33	840
K11R 315 M6 Ex e IIC	T1,T2	68.0	658	987	94.0	94.0	93.5	0.89	118	6.9	2.1	1.7	2.3	28		PTB08ATEX3044/09		
	T1-T3	76.0	732	992	95.2	94.6	93.0	0.88	131	7.2	1.6	1.3	2.5	45	17	IBExU99ATEX1137/19	6.00	1080
K11R 315 MY6 Ex e IIC	T1,T2	82	791	990	95.1	94.6	93.0	0.88	141	6.7	1.5	1.2	2.4	40		IBExU99ATEX1137/21		
	T1-T3	85.0	820	990	95.2	94.5	94.0	0.87	149	6.9	1.6	1.4	2.5	40	15	IBExU99ATEX1137/04	6.00	1080
K11R 315 L6 Ex e IIC	T1,T2	92	890	987	95.0	95.0	94.0	0.87	160	6.4	1.5	1.3	2.3	35		IBExU99ATEX1137/05		
	T1-T3	95	921	985	95.0			0.88	165	7.5	2.0	1.4	2.3				6.67	1250
K11R 315 LX6 Ex e IIC	T1,T2	100																
	T1-T3	110	1061	990	95.0			0.88	190	8.0	2.0	1.4	2.3				8.60	1460
K12R 355 M6 Ex e IIC	T1,T2	120																
	T1-T3	125	1202	993	96.0			0.86	220	8.0	1.5	1.0	2.5				8.20	1650
K12R 355 MX6 Ex e IIC	T1,T2	135																
	T1-T3	160	1539	993	96.0			0.85	285	8.0	1.5	1.0	2.5				10.10	2100
K12R 355 L6 Ex e IIC	T1,T2	175																
	T1-T3	200	1923	993	96.0			0.85	355	8.0	1.5	1.0	2.5				14.00	2400
	T1,T2	215																

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor

Ex II 2G Ex e IIC T1/T2, T3 Gb

Type of explosion protection – Increased safety „e“ („eb“)

for operation in Zone 1 according to EN 60079-7

according to VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011

for rated voltage, temperature classes T1, T2 and T3

with surface cooling, duty type S1, continuous duty

thermal class F, degree of protection IP 55, 50 Hz

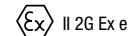
Motor selection data															Design point 400 V, 50 Hz			
Type	Temperature class	P _B	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	t _E -time		ATEX no.	J	m
					(IEC/EN 60034-2)									T2	T3			
		kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	-	s	s		kgm²
Synchronous speed 750 rpm – 8-pole version																		
KPER 80 K8 Ex e IIC	T1-T3	0.18	2.6	670	52	50	43	0.64	0.78	2.5	1.6	1.6	1.9	180	150	IBExU02ATEX1112	0.00130	10.5
KPER 80 G8 Ex e IIC	T1-T3	0.25	3.6	670	55	55	49	0.67	1	2.8	2.3	2.3	2.4	70	60	IBExU02ATEX1112	0.00175	12.0
KPER 90 S8 Ex e IIC	T1-T3	0.37	5.1	700	59	56	48	0.56	1.61	2.9	1.5	1.5	2.0	60	55	IBExU02ATEX1113	0.00300	15.0
KPER 90 L8 Ex e IIC	T1-T3	0.55	7.6	695	64	62	55	0.58	2.15	3.0	1.6	1.6	2.1	60	55	IBExU02ATEX1113	0.00375	18.0
KPER 100 L8 Ex e IIC	T1-T3	0.65	8.9	700	66	67	63	0.63	2.25	2.9	1.5	1.5	1.8	70	60	IBExU02ATEX1114	0.00625	23.0
KPER 100 LX8 Ex e IIC	T1-T3	0.95	12.9	705	74	76	72	0.68	2.75	4.1	2.0	2.0	2.5	70	60	IBExU02ATEX1114	0.00900	28.0
KPER 112 M8 Ex e IIC	T1-T3	1.3	17.7	700	75	75	72	0.67	3.9	4.1	1.7	1.7	1.9	60	50	IBExU02ATEX1115	0.01225	33.5
KPER 132 SX8T Ex e IIC	T1-T3	1.9	27.1	670	74	76.5	76	0.74	5.2	3.3	1.8	1.8	2.0	80	50	IBExU02ATEX1116	0.01580	50.0
K11R 132 S8 Ex e IIC	T1-T3	1.9	26	700	76.2	76.0	74.0	0.75	4.8	3.9	1.6	1.6	2.2	35	30	PTB08ATEX3037/16	0.01800	49
K11R 132 M8 Ex e IIC	T1-T3	2.6	35	705	78.5	79.0	76.0	0.74	6.5	4.5	1.8	1.7	2.6	30	29	PTB08ATEX3037/17	0.0230	57
K11R 160 M8 Ex e IIC	T1-T3	3.5	46	720	80.0	80.0	76.5	0.72	8.7	4.3	1.8	1.7	2.4	45	40	PTB08ATEX3038/21	0.0430	80
K11R 160 MX8 Ex e IIC	T1-T3	4.8	64	720	81.5	80.5	78.0	0.74	11.6	4.5	1.9	1.8	2.4	50	40	PTB08ATEX3038/22	0.0530	90
K11R 160 L8 Ex e IIC	T1-T3	6.6	86	730	84.0	82.5	79.5	0.73	15.6	5.0	2.1	1.9	2.7	40	35	PTB08ATEX3038/23	0.113	122
K11R 180 L8 Ex e IIC	T1-T3	9.7	128	725	85.0	84.0	81.0	0.73	22.5	5.1	2.3	2.0	2.6	40	12	PTB08ATEX3039/13	0.145	140
K11R 200 L8 Ex e IIC	T1-T3	13.2	173	730	86.5	85.5	82.5	0.72	30.5	5.6	2.3	2.1	2.9	40	13	PTB08ATEX3040/13	0.228	195
K11R 225 S8 Ex e IIC	T1-T3	16.5	216	730	88.5	88.0	85.5	0.81	33.5	6.0	2.2	1.9	2.8	50	20	PTB08ATEX3041/12	0.440	275
K11R 225 M8 Ex e IIC	T1-T3	20.0	260	735	90.5	90.0	89.0	0.81	39.5	5.3	2.0	1.7	2.2	60	25	PTB08ATEX3041/13	0.825	360
K11R 250 M8 Ex e IIC	T1-T3	27.0	350	737	90.5	90.0	88.0	0.80	53.5	5.7	2.3	1.7	2.3	40	13	PTB08ATEX3042/08	1.350	472
K11R 280 S8 Ex e IIC	T1-T3	33.0	425	742	93.5	93.0	91.5	0.78	65	6.3	2.0	1.8	2.4	70	30	PTB08ATEX3043/11	2.63	700
K11R 280 M8 Ex e IIC	T1-T3	40.0	516	740	93.8	93.5	92.0	0.79	78	6.5	2.0	1.8	2.4	75	30	PTB08ATEX3043/12	3.33	805
K11R 315 S8 Ex e IIC	T1-T3	50	645	740	94.0	93.5	92.5	0.80	96	5.9	1.7	1.6	2.1	50	18	PTB08ATEX3044/10	3.33	850
K11R 315 M8 Ex e IIC	T1-T3	68	878	740	94.0	93.5	92.5	0.80	131	6.3	2.1	1.9	2.6	35	9	PTB08ATEX3044/11	3.60	880
K11R 315 MY8 Ex e IIC	T1-T3	80	1030	742	94.5	93.5	93.0	0.80	154	6.4	1.4	1.2	2.3	30	12	IBExU99ATEX1137/25	6.00	1080
K11R 315 L8 Ex e IIC	T1-T3	95	1221	743	94.7	94.1	92.7	0.76	180	7.1	1.7	1.5	2.7	26	8	IBExU99ATEX1137/42	6.76	1290
K11R 315 LX8 Ex e IIC	T1-T3	115	1484	740	94.5			0.80	220	6.0	1.8	1.7	2.2				8.71	1430
K12R 355 M8 Ex e IIC	T1-T3	140	1807	740	95.0			0.79	270	7.5	1.5	1.1	2.5				9.50	1600
K12R 355 MX8 Ex e IIC	T1-T3	180	2323	740	95.5			0.79	350	7.5	1.5	1.1	2.5				11.60	2100
K12R 355 L8 Ex e IIC	T1-T3	210	2710	740	95.5			0.79	400	7.5	1.5	1.1	2.5				15.80	2400

Optionally in dust-protected version, protection type: Protection by enclosure "tb" to EN 60079-31

for operation in Zone 21 (IBExU 02ATEX 1019 for series K1.R), degree of protection IP 65, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor for converter-fed operation



IIC T1/T2, T3 Gb

Type of explosion protection – Increased safety „e“ („eb“)

Motors for operation in Zone 1 according to EN 60079-0/EN 60079-7

with surface cooling, duty type S1, continuous duty

Degree of protection IP 55, thermal class 155, temperature class T3

Motor selection data												
Type		P	I			Torque M			EC type examination	Data-	J	m
Frequency f		50 Hz	50 HZ	5 Hz	25 Hz	50 Hz	87 Hz	87 Hz	certificate	sheet		
		400 V Y ¹⁾					Y	Δ				
		kW	A	Nm	Nm	Nm	Nm	Nm			kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version												
K12R	112 M4 Ex e IIC	4.55	9.4	15	25	30	17	30	PTB08ATEX3026 X		0.0150	53
K11R	132 S Ex e IIC	4.55	9.4	15	25	30	17	30	PTB08ATEX3001 X	01	0.0150	53
K11R	132 M Ex e IIC	6.1	12.9	20	40	40	20	40	PTB08ATEX3001 X	02	0.0280	72
K11R	160 M Ex e IIC	10	18.5	45	65	65	30	65	PTB 07 ATEX 3142 X	01	0.0780	123
K11R	160 L Ex e IIC	13.1	24.7	65	85	85	45	85	PTB 07 ATEX 3142 X	02	0.0900	136
K11R	180 M Ex e IIC	14.7	27.7	70	95	95	50	95	PTB 07 ATEX 3143 X	01	0.1380	180
K11R	180 L Ex e IIC	20	38	85	130	130	65	130	PTB 07 ATEX 3143 X	02	0.1380	185
K11R	200 L Ex e IIC	30	56.5	140	195	195	85	160	PTB08ATEX3027 X	01	0.2750	270
K11R	225 S Ex e IIC	35.7	66.6	200	230	230	120	230	PTB08ATEX3028 X	01	0.525	380
K11R	225 M Ex e IIC	44.3	87.5	240	285	285	156	241	PTB08ATEX3028 X	02	0.525	385
K11R	250 M Ex e IIC	55.2	101.2	310	355	355	186	306	PTB08ATEX3029 X	01	0.950	530
K11R	280 S Ex e IIC	75	138	488	486	484	278	482	PTB08ATEX3030 X	02	1.96	765
K11R	280 M Ex e IIC	90	168	586	584	582	332	565	PTB08ATEX3030 X	01	2.27	840
K11R	315 S Ex e IIC	110	195	550	650	700	350	650	PTB08ATEX3031 X		2.27	875
K11R	315 M Ex e IIC	132	230	650	760	850	425	800	PTB08ATEX3031 X		2.73	1000
Synchronous speed 1000 rpm – 6-pole version												
K12R	112 M Ex e IIC	2.6	5.9	7	26	26	15	26	PTB08ATEX3026 X		0.018	49
K11R	132 S Ex e IIC	2.6	5.9	7	26	26	15	26	PTB08ATEX3001 X		0.018	49
K11R	132 M Ex e IIC	3.5	7.4	12	35	35	20	35	PTB08ATEX3001 X		0.023	53
K11R	132 MX Ex e IIC	4.8	10.0	18	48	48	25	48	PTB08ATEX3001 X		0.043	70
K11R	160 M6 Ex e IIC	6.6	14.1	25.4	62	65	30.3	65	PTB 07 ATEX 3142 X	03	0.053	89
K11R	160 L6 Ex e IIC	9.7	19.6	50	95	95	50	95	PTB 07 ATEX 3142 X		0.113	123
K11R	180 L Ex e IIC	15.0	29.2	80	130	150	90	140	PTB 07 ATEX 3143 X	03	0.228	190
K11R	200 L Ex e IIC	16.5	33	80	150	160	80	150	PTB08ATEX3027 X		0.228	190
K11R	200 LX Ex e IIC	22	40	150	215	215	120	215	PTB08ATEX3027 X		0.443	265
K11R	225 M Ex e IIC	30	55	203	291	295	158	282	PTB08ATEX3028 X	03	0.825	360
K11R	250 M Ex e IIC	37	68	280	360	360	190	360	PTB08ATEX3029 X		1.28	475
K11R	280 S Ex e IIC	45	80	440	440	440	240	440	PTB08ATEX3030 X		2.63	715
K11R	280 M Ex e IIC	55	95	535	535	535	280	535	PTB08ATEX3030 X		3.33	810
K11R	315 S Ex e IIC	75	130	670	725	725	365	725	PTB08ATEX3031 X		3.33	840
K11R	315 M Ex e IIC	90	160	750	865	865	440	850	PTB08ATEX3031 X		6.00	1080

Temperature monitoring NAT 130 °C

¹⁾ Motor terminal voltage

Adjustment of the rated voltage of the motor by changing the number of turns of the winding is permissible within the range from 220 to 500 V.

The rated current changes reciprocally to the rated voltage.

Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor for converter-fed operation

Type of explosion protection – Increased safety „e“ („eb“)

Motors for operation in Zone 1 according to EN 60079-0/EN 60079-7

II 2G Ex e IIC T1/T2, T3 Gb

with surface cooling, duty type S1, continuous duty

Degree of protection IP 55, thermal class 155, temperature class T3

max. converter input voltage 500 V

Converter parameters

In conjunction with the aforementioned monitoring device, the following converter parameters must be set and observed during operation:

Minimum pulse frequency:	3 kHz
Short-time current limit:	$1.5 \cdot I_N$
Maximum overload time:	60 s
Minimum frequency f_{min} :	5 Hz
Maximum frequency f_{max} :	87 Hz

Permissible duration of operation below f_{min} : 60 s

The maximum overload time and the permissible duration of operation below f_{min} refer to a time interval of 10 min.

The relationship between torque and frequency can be derived from the permissible continuous current limit.

Special conditions

Motor operation in groups is not permissible.

Motors of this type must only be operated on converters which guarantee the aforementioned converter parameters.

The rated current of the frequency converter must not exceed twice the motor rated current. The current monitoring of the frequency converter must detect the effective value of the machine current with a tolerance of $\pm 5\%$ relative to the motor rated current. Before commissioning, it must be ensured that no converter-induced overvoltages with a peak value exceeding 1556 V occur at the machine terminals.

Rating plate example

☐ VEM motors GmbH D 98855 Wernigerode 0637 Made in Germany		Ex e II II 2G T3		☐ Th.Kl./Th.cl. 155 (F/B) IP 55 53 kg																																																																				
3 ~Mot.Nr./N° 161507/0001 K11R 132 S4 Exe II T3 TWS VIK HW																																																																								
<table border="1"> <thead> <tr> <th colspan="6">Y</th> <th colspan="6">Δ</th> </tr> <tr> <th>Hz</th><th>Nm</th><th>kW</th><th>min-1/r.p.m.</th><th>V</th><th>A</th> <th>Nm</th><th>kW</th><th>min-1/r.p.m.</th><th>V</th><th>A</th> </tr> </thead> <tbody> <tr> <td>5</td><td>15</td><td>0,186</td><td>118</td><td>40</td><td>5,7</td> <td>15</td><td>0,186</td><td>118</td><td>23</td><td>9,9</td> </tr> <tr> <td>25</td><td>25</td><td>1,855</td><td>707</td><td>200</td><td>8,1</td> <td>25</td><td>1,855</td><td>707</td><td>115</td><td>14</td> </tr> <tr> <td>50</td><td>30</td><td>4,551</td><td>1444</td><td>400</td><td>9,4</td> <td>30</td><td>4,551</td><td>1444</td><td>230</td><td>16,3</td> </tr> <tr> <td>87</td><td>17</td><td>4,46</td><td>2493</td><td>400</td><td>9,3</td> <td>30</td><td>8,016</td><td>2554</td><td>400</td><td>16,5</td> </tr> </tbody> </table>						Y						Δ						Hz	Nm	kW	min-1/r.p.m.	V	A	Nm	kW	min-1/r.p.m.	V	A	5	15	0,186	118	40	5,7	15	0,186	118	23	9,9	25	25	1,855	707	200	8,1	25	1,855	707	115	14	50	30	4,551	1444	400	9,4	30	4,551	1444	230	16,3	87	17	4,46	2493	400	9,3	30	8,016	2554	400	16,5
Y						Δ																																																																		
Hz	Nm	kW	min-1/r.p.m.	V	A	Nm	kW	min-1/r.p.m.	V	A																																																														
5	15	0,186	118	40	5,7	15	0,186	118	23	9,9																																																														
25	25	1,855	707	200	8,1	25	1,855	707	115	14																																																														
50	30	4,551	1444	400	9,4	30	4,551	1444	230	16,3																																																														
87	17	4,46	2493	400	9,3	30	8,016	2554	400	16,5																																																														
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IM B3 DIN EN 60034-1																																																																								
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☐ DE 6208 ZZ C3 DIN 625		cm ³		☐ NAT 130 °C																																																																				
☐ NE 6207 ZZ C3 DIN 625		cm ³		h																																																																				

Three-phase motors with squirrel-cage rotor for converter-fed operation

Type of explosion protection – Increased safety „e“ („eb“)

Motors for operation in Zone 1 according to EN 60079-0/EN 60079-7

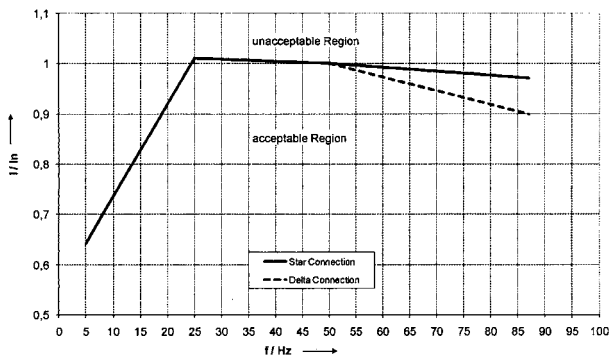
II 2G Ex e IIC T1/T2, T3 Gb

with surface cooling, duty type S1, continuous duty

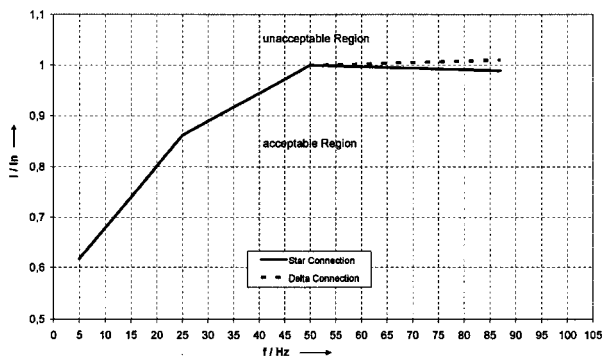
Degree of protection IP 55, thermal class 155, temperature class T3

max. converter input voltage 500 V

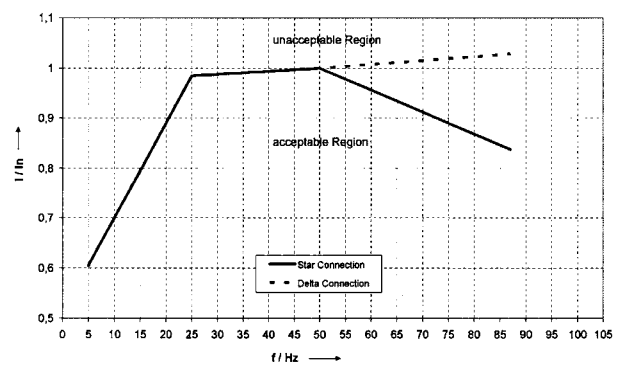
Setting parameters for the continuous current limit of the frequency converter between 5 and 87 Hz:



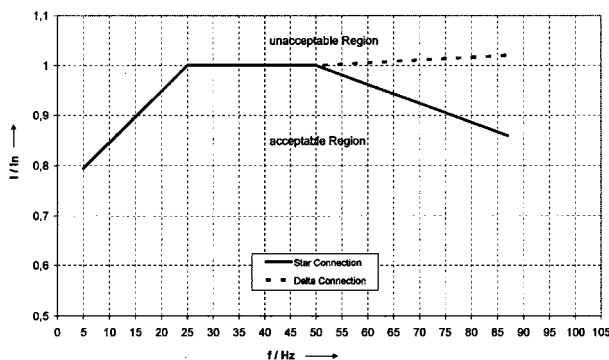
K11R 180 M2 Ex e IIC T3, PTB07ATEX 3043 X/05



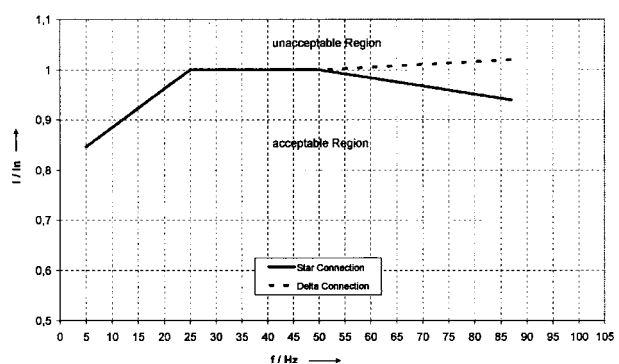
K11R 132 S4 Ex e IIC T3, PTB08ATEX 3001 X/01



K11R 132 M4 Ex e IIC T3, PTB08ATEX 3001 X/02



K11R 160 M4 Ex e IIC T3, PTB07ATEX 3342 X/01



K11R 160 L4 Ex e IIC T3, PTB07ATEX 3342 X/02

Three-phase motors with squirrel-cage rotor for converter-fed operation

II 2G Ex e IIC T1/T2, T3 Gb

Type of explosion protection – Increased safety „e“ („eb“)

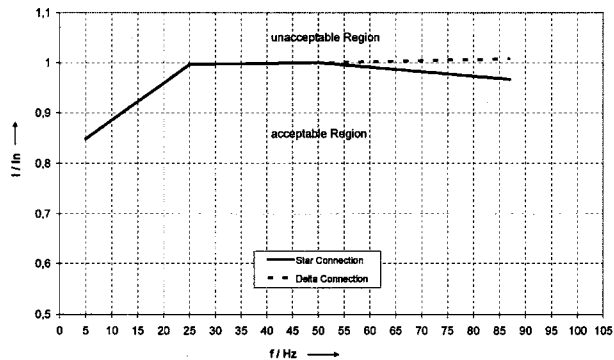
Motors for operation in Zone 1 according to EN 60079-0/EN 60079-7

with surface cooling, duty type S1, continuous duty

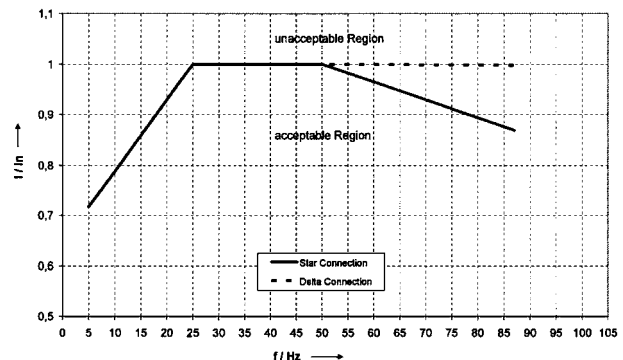
Degree of protection IP 55, thermal class 155, temperature class T3

max. converter input voltage 500 V

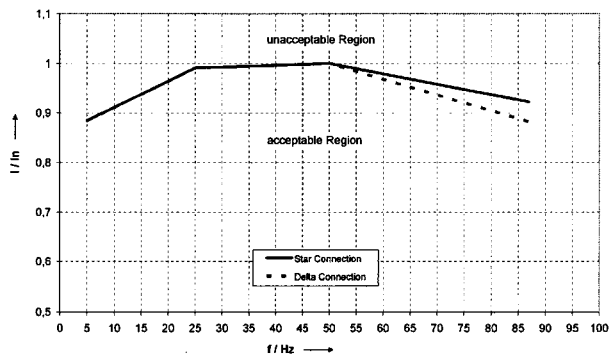
Setting parameters for the continuous current limit of the frequency converter between 5 and 87 Hz:



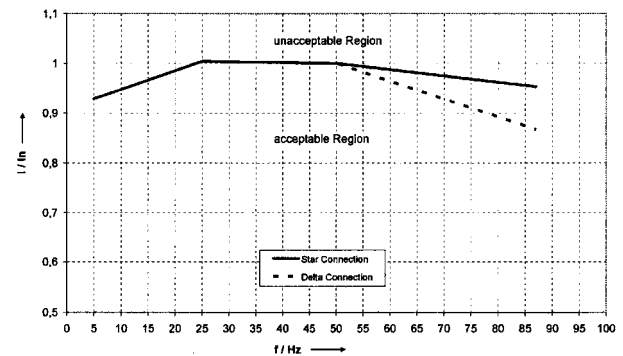
K11R 180 M4 Ex e IIC T3, PTB07ATEX 3143 X/01



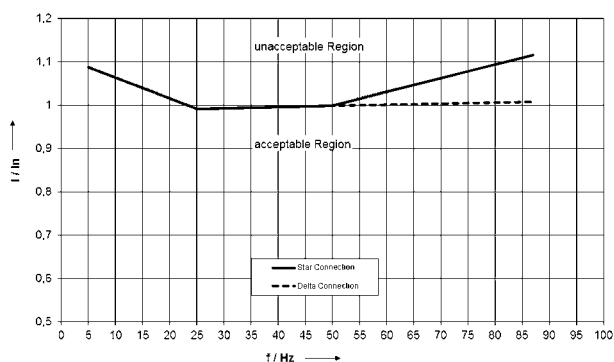
K11R 180 L4 Ex e IIC T3, PTB07ATEX 3143 X/02



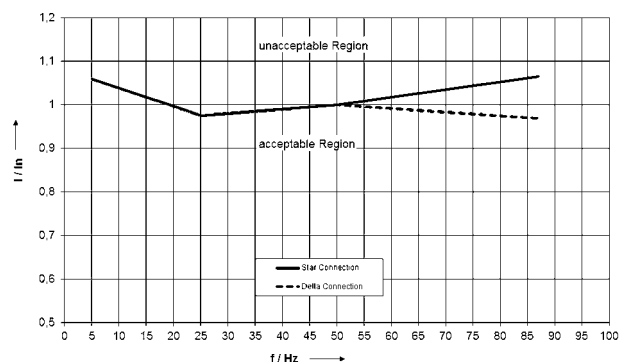
K11R 200 L4 Ex e IIC T3, PTB08ATEX 3027 X/01



K11R 225 S4 Ex e IIC T3, PTB08ATEX 3028 X/01



K11R 225 M4 Ex e IIC T3, PTB08ATEX 3028 X/02



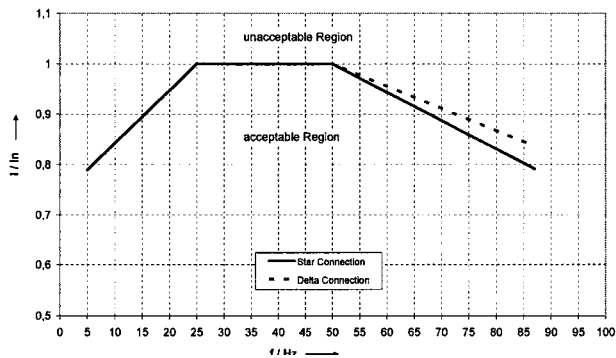
K11R 250 M4 Ex e IIC T3, PTB08ATEX 3029 X/01

Three-phase motors with squirrel-cage rotor for converter-fed operation Type of explosion protection – Increased safety „e“ („eb“) Motors for operation in Zone 1 according to EN 60079-0/EN 60079-7

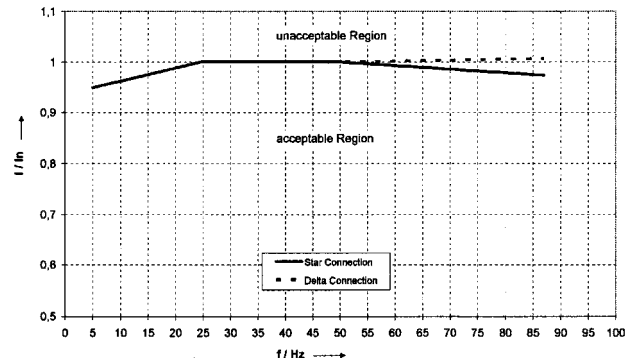
II 2G Ex e IIC T1/T2, T3 Gb

with surface cooling, duty type S1, continuous duty
 Degree of protection IP 55, thermal class 155, temperature class T3
 max. converter input voltage 500 V

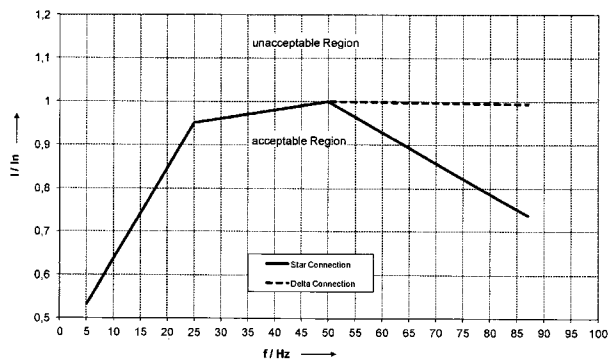
Setting parameters for the continuous current limit of the frequency converter between 5 and 87 Hz:



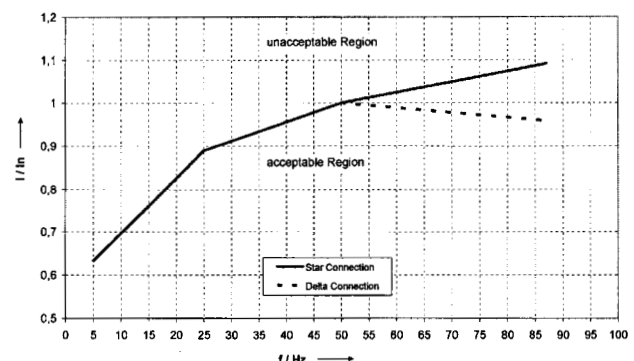
K11R 280 S4 Ex e IIC T3, PTB08ATEX 3030 X/02



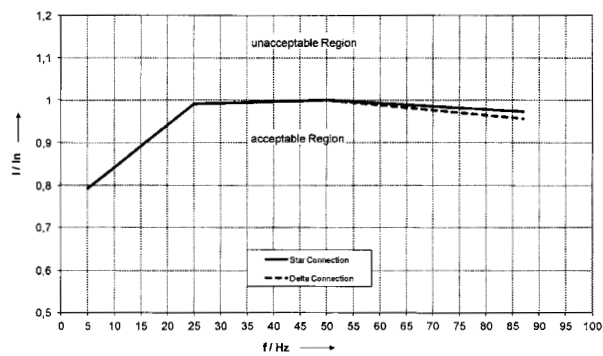
K11R 280 M4 Ex e IIC T3, PTB08ATEX 3030 X/01



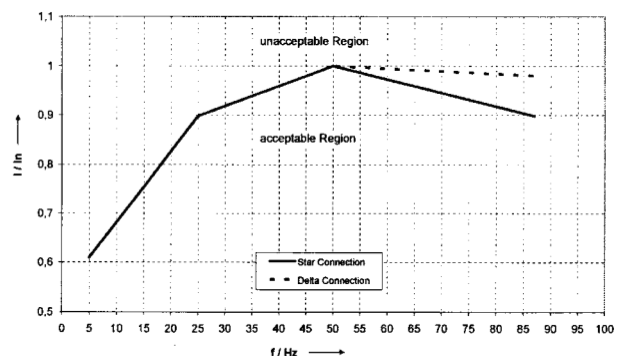
K11R 160 L6 Ex e IIC T3, PTB07ATEX 3142 X/03



K11R 180 L6 Ex e IIC T3, PTB07ATEX 3143 X/03



K11R 225 M6 Ex e IIC T3, PTB08ATEX 3028 X/03



K11R 180 L8 Ex e IIC T3, PTB07ATEX 3043 X/04

Bearings

Motors in explosion-protected design

Type of explosion protection – Increased safety „e“ („eb“), Premium Efficiency IE3 Standard bearings

	Basic version											With relubrication device								
Type	Type of construction	D-end (DS)					N-end (NS)					Figure	D-end (DS)			N-end (NS)			Figure	
		Anti-friction bearing					Anti-friction bearing						Anti-friction bearing			Anti-friction bearing				
		Felt ring	V-ring	Y-ring	Wave spring	Disc spring	Felt ring	V-ring	Y-ring	Wave spring	DS NS		V-ring	Y-ring	Pressure springs	V-ring	Y-ring	DS NS		Fixed bearing
IE3-KPER 63 G2, 4 Ex e IIC		6201 2Z C3	11x19x4	-	-	-	-	6201 2Z C3	12x25x1	-	-	32 1 2	-	-	-	-	-	-	-	without
IE3-KPR 63 G4, KY2 Ex e IIC		6202 2Z C3	14x21x4	-	-	-	-	6202 2Z C3	15x28x1	-	-	35 1 2	-	-	-	-	-	-	-	without
IE3-KPER 71 G2 Ex e IIC		6202 2Z C3	14x21x4	-	-	-	-	6202 2Z C3	15x28x1	-	-	35 1 2	-	-	-	-	-	-	-	without
IE3-KPR 71 G4 Ex e IIC		6202 2Z C3	19x26x4	-	-	-	-	6202 2Z C3	15x28x1	-	-	47 1 2	-	-	-	-	-	-	-	without
IE3-KPER 80 K2 Ex e IIC		6204 2Z C3	19x26x4	-	-	-	-	6204 2Z C3	20x36x2	-	-	47 1 2	-	-	-	-	-	-	-	without
IE3-KPR 80 K2 Ex e IIC		6205 2Z C3	24.2x35x4	-	-	-	-	6205 2Z C3	25x40x2	-	-	52 1 2	-	-	-	-	-	-	-	without
IE3-KPR 80 G2, GX4 Ex e IIC		6205 2Z C3	24.2x35x4	-	-	-	-	6205 2Z C3	25x40x2	-	-	52 1 2	-	-	-	-	-	-	-	without
IE3-KPR 90 S2 Ex e IIC		6205 2Z C3	24.2x35x4	-	-	-	-	6205 2Z C3	25x40x2	-	-	52 1 2	-	-	-	-	-	-	-	without
IE3-KPR 90 S4 Ex e IIC		6205 2Z C3	24.2x35x4	-	-	-	-	6205 2Z C3	25x40x2	-	-	52 1 2	-	-	-	-	-	-	-	without
IE3-KPR 90 L2, 6 Ex e IIC		6205 2Z C3	24.2x35x4	-	-	-	-	6205 2Z C3	25x40x2	-	-	52 1 2	-	-	-	-	-	-	-	without
IE3-KPR 90 LX4 Ex e IIC		6205 2Z C3	24.2x35x4	-	-	-	-	6205 2Z C3	25x40x2	-	-	52 1 2	-	-	-	-	-	-	-	without
IE3-KPR 100 LX6 Ex e IIC		6206 2ZN C3	29x40x4	-	-	-	-	6206 2ZN C3	30x50x2	-	-	62 1 2	-	-	-	-	-	-	-	without
IE3-KPR 100 L2 Ex e IIC		6206 2Z C3	29x40x4	-	-	-	-	6206 2Z C3	30x50x2	-	-	62 1 2	-	-	-	-	-	-	-	without
IE3-KPR 100 L4 Ex e IIC		6206 2Z C3	29x40x4	-	-	-	-	6206 2Z C3	30x50x2	-	-	62 1 2	-	-	-	-	-	-	-	without
IE3-KPR 100 LZ4 Ex e IIC		6206 2Z C3	29x40x4	-	-	-	-	6206 2Z C3	30x50x2	-	-	62 1 2	-	-	-	-	-	-	-	without
IE3-KPER 112 MV6 Ex e IIC		6206 2ZN C3	29x40x4	-	-	-	-	6206 2ZN C3	30x50x2	-	-	62 1 2	-	-	-	-	-	-	-	without
IE3-KPER 112 MX2 Ex e IIC		6206 2Z C3	29x40x4	-	-	-	-	6206 2ZN C3	30x50x2	-	-	62 1 2	-	-	-	-	-	-	-	without
IE3-KPER132S2T Ex e IIC		6208 2ZN C3	39x50x4	-	-	80	-	6306 2Z C3	30x50x2	-	-	3 5	-	-	-	-	-	-	-	without
IE3-K11R 132 S2, S2G Ex e II		6208 ZZ C3	-	-	RB40 80	-	6207 ZZ C3	-	-	RB35	-	6 12	-	-	-	-	-	-	-	without
IE3-K11R 132 SX2, SX2G Ex e II		6308 ZZ C3	-	-	RB40 90	-	6308 ZZ C3	-	-	RB40	-	6 12	6308 C3	-	RB40	-	6308 C3	-	RB40 13 14	N-end
IE3-K11R 160 M2, M2G Ex e II		6310 ZZ C3	-	-	RB50 110	-	6309 ZZ C3	-	-	RB45	-	6 12	6310 C3	-	RB45	-	6309 C3	-	RB45 13 14	N-end
IE3-K11R 160 MX2, MX2G Ex e II		6310 ZZ C3	-	-	RB50 110	-	6309 ZZ C3	-	-	RB45	-	6 12	6310 C3	-	RB45	-	6309 C3	-	RB45 13 14	N-end
IE3-K11R 160 L2, L2G Ex e II		6310 ZZ C3	-	-	RB50 110	-	6309 ZZ C3	-	-	RB45	-	6 12	6310 C3	-	RB45	-	6309 C3	-	RB45 13 14	N-end
IE3-K11R 180 M2, M2G Ex e II		6310 C3	-	50A	-	110	-	6310 C3	-	50A	-	-	6 8	6310 C3 50A	-	-	6310 C3 50A	-	13 14	N-end
IE3-K11R 200 L 2, L2G Ex e II		6312 C3	-	60A	-	-	130	6310 C3	-	50A	-	-	6 8	6312 C3 50A	-	-	6310 C3 50A	-	13 14	N-end
IE3-K11R 200 L 2C, L2CG Ex e II		6312 C3	-	60A	-	-	130	6310 C3	-	50A	-	-	6 8	6312 C3 50A	-	-	6310 C3 50A	-	13 14	N-end
IE3-K11R 200 LX2, LX2G Ex e II		6312 C3	-	60A	-	-	130	6312 C3	-	60A	-	-	6 8	6312 C3 60A	-	-	6312 C3 60A	-	13 14	N-end
IE3-K11R 225 M2, M2G Ex e II		6313 C3	-	65A	-	-	140	6313 C3	-	65A	-	-	6 8	6313 C3 65A	-	-	6313 C3 65A	-	13 14	N-end
IE3-K11R 250 M2, M2G Ex e II		6314 C3	-	70A	-	-	150	6314 C3	-	70A	-	-	6 9	6314 C3 70A	-	-	6314 C3 70A	-	13 16	N-end
IE3-K11R 280 S2, S2G Ex e II		6314 C3	-	70A	-	-	150	6314 C3	-	70A	-	-	6 9	6314 C3 70A	-	-	6314 C3 70A	-	13 16	N-end
IE3-K11R 280 M2, M2G Ex e II		6316 C3	-	80A	-	-	170	6316 C3	-	80A	-	-	6 9	6316 C3 80A	-	-	6316 C3 80A	-	13 16	N-end
IE3-K11R 315 S2, S2G Ex e II		6316 C3	-	80A	-	-	170	6316 C3	-	80A	-	-	6 9	6316 C3 80A	-	-	6316 C3 80A	-	13 16	N-end
IE3-K11R 315 M2, M2G Ex e II													6317 C3	-	RB85	-	6317 C3	-	RB85 18 19	N-end
IE3-K11R 315 MY2, MY2G Ex e II													6317 C3	-	RB85	-	6317 C3	-	RB85 18 19	N-end
IE3-K11R 315 L2, L2G Ex e II													6317 C3	-	RB85	-	6317 C3	-	RB85 18 19	N-end
IE3-K11R 315 LX2, LX2G Ex e II													6317 C3	-	RB85	-	6317 C3	-	RB85 18 19	N-end
IE3-K12R 355 M2G Ex e II													6317 C3	-	RB85	-	6317 C3	-	RB85 18 19	N-end
IE3-K12R 355 MX2G Ex e II													6317 C3	-	RB85	-	6317 C3	-	RB85 18 19	N-end
IE3-K12R 355 L2G Ex e II													6317 C3	-	RB85	-	6317 C3	-	RB85 18 19	N-end
IE3-K42R 355 L2G Ex e IIC													6317 C3	-	RB85	-	6317 C3	-	RB85 18 19	N-end
IE3-K42R 400 M2G, MX2G, L2G Ex e IIC	IM B3												6317 C3	-	RB85	-	6317 C3	-	RB85 24 19	N-end
IE3-K42R 400 M2G, MX2G, L2G Ex e IIC	IM V1												7317B	-	RB85	-	6317 C3	-	RB85 18 26	N-end
IE3-K11R 112 M4		6207 ZZ C3	-	-	RB35 72	-	6207 ZZ C3	-	RB35	6 12	6207 C3	-	-	-	-	-	-	-	-	N-end
IE3-K11R 132 S4, M4 Ex e II		6308 ZZ C3	-	-	RB40 90	-	6308 ZZ C3	-	RB40	6 12	6308 C3	-	RB40	-	6308 C3	-	RB40 13 14	-	-	N-end
IE3-K11R 160 M4, L4 Ex e II		6310 ZZ C3	-	-	RB50 110	-	6309 ZZ C3	-	RB45	6 12	6310 C3 50A	-	-	6309 C3	-	RB45 13 14	-	-	N-end	
IE3-K11R 180 M4, L4 Ex e II		6310 C3	-	50A	-	110	-	6310 C3	-	50A	-	-	6 8	6310 C3 50A	-	-	6310 C3 50A	-	13 14	N-end
IE3-K11R 200 L4 Ex e II		6312 C3	-	60A	-	-	130	6312 C3	-	60A	-	-	6 8	6312 C3 60A	-	-	6312 C3 60A	-	13 14	N-end
IE3-K11R 225 S4, M4 Ex e II		6314 C3	-	70A	-	-	150	6313 C3	-	65A	-	-	6 8	6314 C3 70A	-	-	6313 C3 65A	-	13 14	N-end
IE3-K11R 250 M4 Ex e II		6316 C3	-	80A	-	-	170	6314 C3	-	70A	-	-	6 9	6316 C3 80A	-	-	6314 C3 70A	-	13 14	N-end
IE3-K11R 280 S4, M4 Ex e II		6317 C3	-	85A	-	-	180	6316 C3	-	80A	-	-	6 9	6317 C3 85A	-	-	6316 C3 80A	-	13 14	N-end
IE3-K11R 315 S4 Ex e II													6220 C3	-	RB100	-	6316 C3	-	RB80 18 19	N-end
IE3-K11R 315 M4, MY4, L4, LX4 Ex e II													6320 C3	-	RB100	-	6317 C3	-	RB85 18 19	N-end
IE3-K12R 355 M4, MX4, L4 Ex e II													6324 C3	-	RB120	-	6317 C3	-	RB85 18 19	N-end
IE3-K42R 355 M4, MX4, L4 Ex e II													6324 C3	-	RB120	-	6317 C3	-	RB85 18 19	N-end
IE3-K42R 400 M4, MX4, L4 Ex e II IM B3													6324 J C3	-	RB120	-	6319 C3	-	RB95 24 19	N-end
IE3-K42R 400 M4, MX4, L4 Ex e II IM V1													7324B	-	RB120	-	6319 C3	-	RB95 18 26	D-end

Motors in explosion-protected design

Type of explosion protection – Increased safety „e“ („eb“), Premium Efficiency IE3

Standard bearings

Type	Type of construction	Basic version										With relubrication device									
		D-end (DS)					N-end (NS)					D-end (DS)					N-end (NS)				
		Anti-friction bearing					Anti-friction bearing					Anti-friction bearing					Anti-friction bearing				
		V-ring	Y-ring	Wave spring	Disc spring		V-ring	Y-ring	DS	NS		V-ring	Y-ring	Pressure springs			V-ring	Y-ring	DS	NS	Fixed bearing
IE3-K11R 132 S6 Ex e II		6208 ZZ C3	-	RB40	80	-	6207 ZZ C3	-	RB35	6 12	6208 C3	-	RB40	-	-	-	-	-	-	-	N-end
IE3-K11R 132 M6, MX6 Ex e II		6308 ZZ C3	-	RB40	90	-	6308 ZZ C3	-	RB40	6 12	6308 C3	-	RB40	-	-	6308 C3	-	RB40	13 14	-	N-end
IE3-K11R 160 M6, L6 Ex e II		6310 ZZ C3	-	RB50	110	-	6309 ZZ C3	-	RB45	6 12	6310 C3	50A	-	-	-	6309 C3	-	RB45	13 14	-	N-end
IE3-K11R 180 L6 Ex e II		6310 C3	50A	-	110	-	6310 C3	50A	-	6 8	6310 C3	50A	-	-	-	6310 C3	50A	-	13 14	-	N-end
IE3-K11R 200 L6 Ex e II		6312 C3	60A	-	-	130	6310 C3	50A	-	6 8	6312 C3	60A	-	-	-	6310 C3	50A	-	13 14	-	N-end
IE3-K11R 200 LX6 Ex e II		6312 C3	60A	-	-	130	6312 C3	60A	-	6 8	6312 C3	60A	-	-	-	6312 C3	60A	-	13 14	-	N-end
IE3-K11R 225 M6 Ex e II		6314 C3	70A	-	-	150	6313 C3	65A	-	6 8	6314 C3	70A	-	-	-	6313 C3	65A	-	13 14	-	N-end
IE3-K11R 250 M6 Ex e II		6316 C3	80A	-	-	170	6314 C3	70A	-	6 9	6316 C3	80A	-	-	-	6314 C3	70A	-	13 14	-	N-end
IE3-K11R 280 S6, M6 Ex e II		6317 C3	85A	-	-	180	6316 C3	80A	-	6 9	6317 C3	85A	-	-	-	6316 C3	80A	-	13 14	-	N-end
IE3-K11R 315 S6, M6, MY6, L6, LX6 Ex e II		Relubrication device as standard										6320 C3	-	RB100	-	-	6317 C3	-	RB85	18 19	N-end
IE3-K12R 355 M6, MX6, L6 Ex e II		Relubrication device as standard										6324 C3	-	RB120	-	-	6317 C3	-	RB85	18 19	N-end
IE3-K42R 355 M6, MX6, L6 Ex e II		Relubrication device as standard										6324 C3	-	RB120	-	-	6317 C3	-	RB85	18 19	N-end
IE3-K42R 400 M6, MX6, L6 Ex e II	IM B3	Relubrication device as standard										6324 J C3	-	RB120	-	-	6319 C3	-	RB95	24 19	N-end
IE3-K42R 400 M6, MX6, L6 Ex e II	IM V1	Relubrication device as standard										7324B	-	RB120	-	-	6319 C3	-	RB95	18 26	D-end
IE3-K11R 132 S8 Ex e II		6208 ZZ C3	-	RB40	80	-	6207 ZZ C3	-	RB35	6 12	6208 C3	-	RB40	-	-	-	-	-	-	-	N-end
IE3-K11R 132 M8 Ex e II		6308 ZZ C3	-	RB40	90	-	6308 ZZ C3	-	RB40	6 12	6308 C3	-	RB40	-	-	6308 C3	-	RB40	13 14	-	N-end
IE3-K11R 160 M8 Ex e II		6309 ZZ C3	-	RB45	100	-	6308 ZZ C3	-	RB40	6 12	6309 C3	-	RB45	-	-	-	-	-	-	-	N-end
IE3-K11R 160 MX8, L8 Ex e II		6310 ZZ C3	-	RB50	110	-	6309 ZZ C3	-	RB45	6 12	6310 C3	50A	-	-	-	6309 C3	-	RB45	13 14	-	N-end
IE3-K11R 180 L8 Ex e II		6310 C3	50A	-	110	-	6310 C3	50A	-	6 8	6310 C3	50A	-	-	-	6310 C3	50A	-	13 14	-	N-end
IE3-K11R 200 L8 Ex e II		6312 C3	60A	-	-	130	6310 C3	50A	-	6 8	6312 C3	60A	-	-	-	6310 C3	50A	-	13 14	-	N-end
IE3-K11R 225 S8 Ex e II		6313 C3	65A	-	-	140	6312 C3	60A	-	6 8	6313 C3	65A	-	-	-	6312 C3	60A	-	13 14	-	N-end
IE3-K11R 225 M8 Ex e II		6314 C3	70A	-	-	150	6313 C3	65A	-	6 8	6314 C3	70A	-	-	-	6313 C3	65A	-	13 14	-	N-end
IE3-K11R 250 M8 Ex e II		6316 C3	80A	-	-	170	6314 C3	70A	-	6 9	6316 C3	80A	-	-	-	6314 C3	70A	-	13 14	-	N-end
IE3-K11R 280 S8 Ex e II		6316 C3	80A	-	-	170	6314 C3	70A	-	6 9	6316 C3	80A	-	-	-	6314 C3	70A	-	13 14	-	N-end
IE3-K11R 280 M8 Ex e II		6317 C3	85A	-	-	180	6316 C3	80A	-	6 9	6317 C3	85A	-	-	-	6316 C3	80A	-	13 14	-	N-end
IE3-K11R 315 S8, M8 Ex e II		6317 C3	85A	-	-	180	6316 C3	80A	-	6 9	6317 C3	85A	-	-	-	6316 C3	80A	-	13 14	-	N-end
IE3-K11R 315 MY8, L8, LX8 Ex e II		Relubrication device as standard										6320 C3	RB100	-	-	-	6317 C3	-	RB85	18 19	N-end
IE3-K12R 355 M8, MX8, L8 Ex e II		Relubrication device as standard										6324 C3	RB120	-	-	-	6317 C3	-	RB85	18 19	N-end
IE3-K42R 355 M8, MX8, L8 Ex e II		Relubrication device as standard										6324 C3	RB120	-	-	-	6317 C3	-	RB85	18 19	N-end
IE3-K42R 400 M8, MX8, L8 Ex e II	IM B3	Relubrication device as standard										6324 J C3	-	RB120	-	-	6319 C3	-	RB95	24 19	N-end
IE3-K42R 400 M8, MX8, L8 Ex e II	IM V1	Relubrication device as standard										7324B	1)	RB120	-	-	6319 C3	-	RB95	18 26	D-end

1) Pressure springs, at N-end for IM V1

Motors in explosion-protected design

Type of explosion protection – Increased safety „e“ („eb“), Premium Efficiency IE3

Reinforced bearings

Type	Type of construction	Without relubrication device						With relubrication device									
		D-end (DS)		N-end (NS)		Figure		D-end (DS)		N-end (NS)		Figure					
		Anti-friction bearing		Anti-friction bearing				Anti-friction bearing		Anti-friction bearing							
		V-ring	Y-ring	V-ring	Y-ring	DS	NS	V-ring	Y-ring	Pressure springs		V-ring	Y-ring	DS	NS	Fixed bearing	
IE3-K11R 132 S2, S2G Ex e II		NU 208 E	-	RB40	6207 ZZ C3	-	RB35 7 9	-	-	-	-	-	-	-	-	-	-
IE3-K11R 132 SX2, SX2G Ex e II		NU 308 E	-	RB40	6308 ZZ C3	-	RB40 7 9	NU 308 E	-	RB40	-	6308 C3	-	RB40	15 16	N-end	
IE3-K11R 160 M2, M2G Ex e II		NU 310 E	-	RB50	6309 ZZ C3	-	RB45 7 9	NU 310 E	-	RB45	-	6309 C3	-	RB45	15 16	N-end	
IE3-K11R 160 MX2, MX2G Ex e II		NU 310 E	-	RB50	6309 ZZ C3	-	RB45 7 9	NU 310 E	-	RB45	-	6309 C3	-	RB45	15 16	N-end	
IE3-K11R 160 L2, L2G Ex e II		NU 310 E	-	RB50	6309 ZZ C3	-	RB45 7 9	NU 310 E	-	RB45	-	6309 C3	-	RB45	15 16	N-end	
IE3-K11R 180 M2, M2G Ex e II		NU 310 E	50A	-	6310 C3	50A	- 7 9	NU 310 E	50A	-	-	6310 C3	50A	-	15 16	N-end	
IE3-K11R 200L 2, L2G Ex e II		NU 312 E	60A	-	6310 C3	50A	- 7 9	NU 312 E	50A	-	-	6310 C3	50A	-	15 16	N-end	
IE3-K11R 200L 2C, L2CG Ex e II		NU 312 E	60A	-	6310 C3	50A	- 7 9	NU 312 E	50A	-	-	6310 C3	50A	-	15 16	N-end	
IE3-K11R 200 LX2, LX2G Ex e II		NU 312 E	60A	-	6312 C3	60A	- 7 9	NU 312 E	60A	-	-	6312 C3	60A	-	15 16	N-end	
IE3-K11R 225 M2, M2G Ex e II		NU 313 E	65A	-	6313 C3	65A	- 7 9	NU 313 E	65A	-	-	6313 C3	65A	-	15 16	N-end	
IE3-K11R 250 M2, M2G Ex e II		NU 314 E	70A	-	6314 C3	70A	- 7 9	NU 314 E	70A	-	-	6314 C3	70A	-	15 16	N-end	
IE3-K11R 280 S2, S2G Ex e II		NU 314 E	70A	-	6314 C3	70A	- 7 9	NU 314 E	70A	-	-	6314 C3	70A	-	15 16	N-end	
IE3-K11R 280 M2, M2G Ex e II		NU 316 E	80A	-	6316 C3	80A	- 7 9	NU 316 E	80A	-	-	6316 C3	80A	-	15 16	N-end	
IE3-K11R 315 S2, S2G Ex e II		NU 316 E	80A	-	6316 C3	80A	- 7 9	NU 316 E	80A	-	-	6316 C3	80A	-	15 16	N-end	
IE3-K11R 315 M2, M2G Ex e II		Relubrication device as standard						NU 317 E	-	RB85	-	6317 C3	-	RB85	20 19	N-end	
IE3-K11R 315 MY2, MY2G Ex e II		Relubrication device as standard						NU 317 E	-	RB85	-	6317 C3	-	RB85	20 19	N-end	
IE3-K11R 315 L2, L2G Ex e II		Relubrication device as standard						NU 317 E	-	RB85	-	6317 C3	-	RB85	20 19	N-end	
IE3-K11R 315 LX2, LX2G Ex e II		Relubrication device as standard						NU 317 E	-	RB85	-	6317 C3	-	RB85	20 19	N-end	
IE3-K12R 355 M2G Ex e II		Relubrication device as standard						NU 317 E	-	RB85	-	6317 C3	-	RB85	20 19	N-end	
IE3-K12R 355 MX2G Ex e II		Relubrication device as standard						NU 317 E	-	RB85	-	6317 C3	-	RB85	20 19	N-end	
IE3-K12R 355 L2G Ex e II		Relubrication device as standard						NU 317 E	-	RB85	-	6317 C3	-	RB85	20 19	N-end	
IE3-K42R 355 L2G Ex e IIC		Relubrication device as standard						NU 317 E	-	RB85	-	6317 C3	-	RB85	20 19	N-end	
IE3-K42R 400 M2G, MX2G, L2G Ex e IIC	IM B3	Relubrication device as standard						NU 317 E	-	RB85	-	6317 C3	-	RB85	20 19	N-end	
IE3-K42R 400 M2G, MX2G, L2G Ex e IIC	IM V1	Relubrication device as standard						7218B+ NU218E	-	RB85	-	6317 C3	-	RB85	25 26	N-end	
IE3-W41R 112 M4		NU 207 E	-	-	6207 ZZ C3	-	7 9	-	-	-	-	-	-	-	-	N-end	
IE3-K11R 132 S4, M4 Ex e II		NU 308 E	-	RB40	6308 ZZ C3	-	RB40 7 9	NU 308 E	-	RB40	-	6308 C3	-	RB40	15 16	N-end	
IE3-K11R 160 M4, L4 Ex e II		NU 310 E	-	RB50	6309 ZZ C3	-	RB45 7 9	NU 310 E	50A	-	-	6309 C3	-	RB45	15 16	N-end	
IE3-K11R 180 M4, L4 Ex e II		NU 310 E	50A	-	6310 C3	50A	- 7 9	NU 310 E	50A	-	-	6310 C3	50A	-	15 16	N-end	
IE3-K11R 200 L4 Ex e II		NU 312 E	60A	-	6312 C3	60A	- 7 9	NU 312 E	60A	-	-	6312 C3	60A	-	15 16	N-end	
IE3-K11R 225 S4, M4 Ex e II		NU 314 E	70A	-	6313 C3	65A	- 7 9	NU 314 E	70A	-	-	6313 C3	65A	-	15 16	N-end	
IE3-K11R 250 M4 Ex e II		NU 316 E	80A	-	6314 C3	70A	- 7 9	NU 316 E	80A	-	-	6314 C3	70A	-	15 16	N-end	
IE3-K11R 280 S4, M4 Ex e II		NU 317 E	-	RB85	6316 C3	80A	- 7 9	NU 317 E	85A	-	-	6316 C3	80A	-	15 16	N-end	
IE3-K11R 315 S4 Ex e II		Relubrication device as standard						NU 2220 E	-	RB100	-	6316 C3	-	RB80	20 19	N-end	
IE3-K11R 315 M4, MY4, L4, LX4 Ex e II		Relubrication device as standard						NU 320 E	-	RB100	-	6317 C3	-	RB85	20 19	N-end	
IE3-K12R 355 M4, MX4, L4 Ex e II		Relubrication device as standard						NU 324 E	-	RB120	-	6317 C3	-	RB85	20 19	N-end	
IE3-K42R 355 M4, MX4, L4 Ex e II		Relubrication device as standard						NU 324 E	-	RB120	-	6317 C3	-	RB85	20 19	N-end	
IE3-K42R 400 M4, MX4, L4 Ex e II	IM B3	Relubrication device as standard						NU 324 E	-	RB120	-	6319 C3	-	RB95	20 19	N-end	
IE3-K42R 400 M4, MX4, L4 Ex e II	IM V1	Relubrication device as standard						7226B+ NU226	-	RB120	-	6319 C3	-	RB95	25 26	D-end	
IE3-K11R 132 S6 Ex e II		NU 208 E	-	RB40	6207 ZZ C3	-	RB35 7 9	NU 308 E	-	RB40	-	-	-	-	-	N-end	
IE3-K11R 132 M6, MX6 Ex e II		NU 308 E	-	RB40	6308 ZZ C3	-	RB40 7 9	NU 308 E	-	RB40	-	6308 C3	-	RB40	15 16	N-end	
IE3-K11R 160 M6, L6 Ex e II		NU 310 E	-	RB50	6309 ZZ C3	-	RB45 7 9	NU 310 E	50A	-	-	6309 C3	-	RB45	15 16	N-end	
IE3-K11R 180 L6 Ex e II		NU 310 E	50A	-	6310 C3	50A	- 7 9	NU 310 E	50A	-	-	6310 C3	50A	-	15 16	N-end	
IE3-K11R 200 L6 Ex e II		NU 312 E	60A	-	6310 C3	50A	- 7 9	NU 312 E	60A	-	-	6310 C3	50A	-	15 16	N-end	
IE3-K11R 200 LX6 Ex e II		NU 312 E	60A	-	6312 C3	60A	- 7 9	NU 312 E	60A	-	-	6312 C3	60A	-	15 16	N-end	
IE3-K11R 225 M6 Ex e II		NU 314 E	70A	-	6313 C3	65A	- 7 9	NU 314 E	70A	-	-	6313 C3	65A	-	15 16	N-end	
IE3-K11R 250 M6 Ex e II		NU 316 E	80A	-	6314 C3	70A	- 7 9	NU 316 E	80A	-	-	6314 C3	70A	-	15 16	N-end	
IE3-K11R 280 S6, M6 Ex e II		NU 317 E	85A	-	6316 C3	80A	- 7 9	NU 317 E	85A	-	-	6316 C3	80A	-	15 16	N-end	
IE3-K11R 315 S6, M6, MY6, L6, LX6 Ex e II		Relubrication device as standard						NU 320 E	-	RB100	-	6317 C3	-	RB85	20 19	N-end	
IE3-K12R 355 M6, MX6, L6 Ex e II		Relubrication device as standard						NU 324 E	-	RB120	-	6317 C3	-	RB85	20 19	N-end	
IE3-K42R 355 M6, MX6, L6 Ex e II		Relubrication device as standard						NU 324 E	-	RB120	-	6317 C3	-	RB85	20 19	N-end	
IE3-K42R 400 M6, MX6, L6 Ex e II	IM B3	Relubrication device as standard						NU 324 E	-	RB120	-	6319 C3	-	RB95	20 19	N-end	
IE3-K42R 400 M6, MX6, L6 Ex e II	IM V1	Relubrication device as standard						7226B+ NU226	-	RB120	-	6319 C3	-	RB95	25 26	D-end	

Motors in explosion-protected design

Type of explosion protection – Increased safety „e“ („eb“), Premium Efficiency IE3

Reinforced bearings

	Without relubrication device								With relubrication device									
Type	Type of construction	D-end (DS) Anti-friction bearing		N-end (NS) Anti-friction bearing		Figure		D-end (DS) Anti-friction bearing			N-end (NS) Anti-friction bearing			Figure				
		V-ring	Y-ring	V-ring	Y-ring	DS	NS	V-ring	Y-ring	Pressure springs	V-ring	Y-ring	DS	NS	Fixed bearing			
IE3-K11R 132 S8 Ex e II		NU 208 E	-	RB40	6207 ZZ C3	-	RB35 7 9	-	-	RB40	-	-	-	RB35	15	16	N-end	
IE3-K11R 132 M8 Ex e II		NU 308 E	-	RB40	6308 ZZ C3	-	RB40 7 9	NU 308 E	-	RB40	-	6308 C3	-	RB40	15	16	N-end	
IE3-K11R 160 M8 Ex e II		NU 309 E	-	RB45	6308 ZZ C3	-	RB45 7 9	-	-	RB45	-	-	-	RB45	15	16	N-end	
IE3-K11R 160 MX8, L8 Ex e II		NU 310 E	-	RB50	6309 ZZ C3	-	RB45 7 9	NU 310 E	50A	-	-	6309 C3	-	RB45	15	16	N-end	
IE3-K11R 180 L8 Ex e II		NU 310 E	50A	-	6310 C3	50A	- 7 9	NU 310 E	50A	-	-	6310 C3	50A	-	15	16	N-end	
IE3-K11R 200 L8 Ex e II		NU 312 E	60A	-	6310 C3	50A	- 7 9	NU 312 E	60A	-	-	6310 C3	50A	-	15	16	N-end	
IE3-K11R 225 S8 Ex e II		NU 313 E	65A	-	6312 C3	60A	- 7 9	NU 313 E	65A	-	-	6312 C3	60A	-	15	16	N-end	
IE3-K11R 225 M8 Ex e II		NU 314 E	70A	-	6313 C3	65A	- 7 9	NU 314 E	70A	-	-	6313 C3	65A	-	15	16	N-end	
IE3-K11R 250 M8 Ex e II		NU 316 E	80A	-	6314 C3	70A	- 7 9	NU 316 E	80A	-	-	6314 C3	70A	-	15	16	N-end	
IE3-K11R 280 S8 Ex e II		NU 316 E	80A	-	6314 C3	70A	- 7 9	NU 316 E	80A	-	-	6314 C3	70A	-	15	16	N-end	
IE3-K11R 280 M8 Ex e II		NU 317 E	85A	-	6316 C3	80A	- 7 9	NU 317 E	85A	-	-	6316 C3	80A	-	15	16	N-end	
IE3-K11R 315 S8, M8 Ex e II		NU 317 E	85A	-	6316 C3	80A	- 7 9	NU 317 E	85A	-	-	6316 C3	80A	-	15	16	N-end	
IE3-K11R 315 MY8, L8, LX8 Ex e II		Relubrication device as standard						NU 320 E	RB100	-	-	6317 C3	-	RB85	20	19	N-end	
IE3-K12R 355 M8, MX8, L8 Ex e II		Relubrication device as standard						NU 324 E	RB120	-	-	6317 C3	-	RB85	20	19	N-end	
IE3-K42R 355 M8, MX8, L8 Ex e II		Relubrication device as standard						NU 324 E	RB120	-	-	6317 C3	-	RB85	20	19	N-end	
IE3-K42R 400 M8, MX8, L8 Ex e II	IM B3	Relubrication device as standard						NU 324 E	-	RB120	-	6319 C3	-	RB95	20	19	N-end	
								7226B+ NU226										
IE3-K42R 400 M8, MX8, L8 Ex e II	IM V1	Relubrication device as standard							1) RB120	-	6319 C3	-	RB95	25	26	D-end		

1) Pressure springs, at N-end for IM V1

Motors in explosion-protected design

Type of explosion protection – Increased safety „e“ („eb“), High Efficiency IE2

Standard bearings

Type	Basic version										With relubrication device													
	D-end (DS)					N-end (NS)					Figure	D-end (DS)					N-end (NS)					Figure		
	Anti-friction bearing					Anti-friction bearing						Anti-friction bearing					Anti-friction bearing							
	Felt ring	V-ring	Y-ring	Wave spring	Disc spring	Felt ring	V-ring	Y-ring	Wave spring	DS		NS	V-ring	Y-ring	Wave spring	Disc spring	V-ring	Y-ring	DS	NS	Fixed bearing			
IE2-KPR 80 K2 Ex e IIC	6205 2Z C3	24.2x35x4	-	-	-	6205 2Z C3	25x40x2	-	-	52	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPR 80 G2, 4 Ex e IIC	6205 2Z C3	24.2x35x4	-	-	-	6205 2Z C3	25x40x2	-	-	52	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPR 90 S2, 4, 6 Ex e IIC	6205 2Z C3	24x35x4	-	-	-	6205 2Z C3	25x40x2	-	-	52	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPR 90 L2 Ex e IIC	6205 2Z C3	24x35x4	-	-	-	6205 2Z C3	25x40x2	-	-	52	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPR 90 L4, 6 Ex e IIC	6205 2Z C3	24x35x4	-	-	-	6205 2Z C3	25x40x2	-	-	52	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPR 100 L2 Ex e IIC	6206 2Z C3	29x40x4	-	-	-	6206 2Z C3	30x50x2	-	-	62	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPR 100 L4 Ex e IIC	6206 2Z C3	29x40x4	-	-	-	6206 2Z C3	30x50x2	-	-	62	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPR 100 LX4 Ex e IIC	6206 2Z C3	29x40x4	-	-	-	6206 2ZN C330x50x2	-	-	-	62	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPR 100 LX6 Ex e IIC	6206 2ZN C3	29x40x4	-	-	-	6206 2ZN C330x50x2	-	-	-	62	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPER 112 MX2 Ex e IIC	6206 2Z C3	29x40x4	-	-	-	6206 2ZN C330x50x2	-	-	-	62	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPER 112 MZ4 Ex e IIC	6206 2Z C3	29x40x4	-	-	-	6206 2ZN C330x50x2	-	-	-	62	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPER 112 MV6 Ex e IIC	6206 2ZN C3	29x40x4	-	-	-	6206 2ZN C330x50x2	-	-	-	62	1 2	-	-	-	-	-	-	-	-	-	without			
IE2-KPER 132 S2T Ex e IIC	6208 2ZN C3	39x50x4	-	-	80	6306 2Z C3	30x50x2	-	-	3	5	-	-	-	-	-	-	-	-	-	without			
IE2-K11R 132 S 2, S2G Ex e IIC	6208 2Z C3	-	-	RB40	80	6207 2Z C3	-	-	-	RB35	6	12	-	-	-	-	-	-	-	-	N-end			
IE2-K11R 132 SX2, SX2G Ex e IIC	6308 2Z C3	-	-	RB40	90	6308 2Z C3	-	-	-	RB40	6	12	6308 C3	-	RB40	90	-	6308 C3	-	RB45	13 14	N-end		
IE2-K11R 160 M2, M2G Ex e IIC	6310 2Z C3	-	-	RB50	110	6309 2Z C3	-	-	-	RB45	6	12	6310 C3	-	RB50	110	-	6309 C3	-	RB45	13 14	N-end		
IE2-K11R 160 MX2, MX2G Ex e IIC	6310 2Z C3	-	-	RB50	110	6309 2Z C3	-	-	-	RB45	6	12	6310 C3	-	RB50	110	-	6309 C3	-	RB45	13 14	N-end		
IE2-K11R 160 L2, L2G Ex e IIC	6310 2Z C3	-	-	RB50	110	6309 2Z C3	-	-	-	RB45	6	12	6310 C3	-	RB50	110	-	6309 C3	50A	-	13 14	N-end		
IE2-K11R 180 M2, M2G Ex e IIC	6310 C3	-	50A	-	110	6310 C3	-	-	50A	-	6	8	6310 C3	50A	-	110	-	6310 C3	50A	-	13 14	N-end		
IE2-K11R 200 L2, L2G Ex e IIC	6312 C3	-	60A	-	-	130	6310 C3	-	-	50A	-	6	8	6312 C3	60A	-	-	130	6310 C3	60A	-	13 14	N-end	
IE2-K11R 200 LX2, LX2G Ex e IIC	6312 C3	-	60A	-	-	130	6312 C3	-	-	60A	-	6	8	6312 C3	60A	-	-	130	6312 C3	65A	-	13 14	N-end	
IE2-K11R 225 M2, M2G Ex e IIC	6313 C3	-	65A	-	-	140	6313 C3	-	-	65A	-	6	8	6313 C3	65A	-	-	140	6313 C3	70A	-	13 14	N-end	
IE2-K11R 250 M2, M2G Ex e IIC	6314 C3	-	70A	-	-	150	6314 C3	-	-	70A	-	6	9	6314 C3	70A	-	-	150	6314 C3	70A	-	13 16	N-end	
IE2-K11R 280 S2, S2G Ex e IIC	6314 C3	-	70A	-	-	150	6314 C3	-	-	70A	-	6	9	6314 C3	70A	-	-	150	6314 C3	70A	-	13 16	N-end	
IE2-K11R 280 M2, M2G Ex e IIC	6314 C3	-	70A	-	-	150	6314 C3	-	-	70A	-	6	9	6314 C3	70A	-	-	150	6314 C3	80A	-	13 16	N-end	
IE2-K11R 315 S2, S2G Ex e IIC	Relubrication device as standard										6316 C3	80A	-	-	170	6316 C3	80A	-	13 16	-	-	N-end		
IE2-K11R 315 M2, M2G Ex e IIC	Relubrication device as standard										6317 C3	85A	-	-	180	6316 C3	-	RB85	18 19	-	-	N-end		
IE2-K11R 315 MY2, MY2G Ex e IIC	Relubrication device as standard										6317 C3	85A	RB85	-	180	6317 C3	-	RB85	18 19	-	-	N-end		
IE2-K11R 315 L2, L2G Ex e IIC	Relubrication device as standard										6317 C3	85A	RB85	-	180	6317 C3	-	RB85	18 19	-	-	N-end		
IE2-K11R 315 LX2, LX2G Ex e IIC	Relubrication device as standard										6317 C3	85A	RB85	-	180	6317 C3	-	RB85	18 19	-	-	N-end		
IE2-K12R 355 M2G Ex e IIC	Relubrication device as standard										6317 C3	85A	RB85	-	180	6317 C3	-	RB85	18 19	-	-	N-end		
IE2-K12R 355 L2G Ex e IIC	Relubrication device as standard										6317 C3	85A	RB85	-	180	6317 C3	-	RB40	13 14	-	-	N-end		
IE2-K11R 132 S4, M4 Ex e IIC	6308 2Z C3	-	-	RB40	90	6308 2Z C3	-	-	RB40	6	12	6308 C3	-	RB40	90	-	6308 C3	-	RB45	13 14	-	N-end		
IE2-K11R 160 M4, L4 Ex e IIC	6310 2Z C3	-	-	RB50	110	6309 2Z C3	-	-	RB45	6	12	6310 C3	-	RB50	110	-	6309 C3	50A	-	13 14	-	N-end		
IE2-K11R 180 M4, L4 Ex e IIC	6310 C3	-	50A	-	110	6310 C3	-	-	50A	-	6	8	6310 C3	50A	-	110	-	6310 C3	60A	-	13 14	-	N-end	
IE2-K11R 200 L4 Ex e IIC	6312 C3	-	60A	-	-	130	6312 C3	-	-	60A	-	6	8	6312 C3	60A	-	-	130	6312 C3	65A	-	13 14	-	N-end
IE2-K11R 225 S4, M4 Ex e IIC	6314 C3	-	70A	-	-	150	6313 C3	-	-	65A	-	6	8	6314 C3	70A	-	-	150	6312 C3	70A	-	13 14	-	N-end
IE2-K11R 250 M4 Ex e IIC	6316 C3	-	80A	-	-	170	6314 C3	-	-	70A	-	6	9	6316 C3	80A	-	-	170	6314 C3	80A	-	13 16	-	N-end
IE2-K11R 280 S4, M4 Ex e IIC	6317 C3	-	85A	-	-	180	6316 C3	-	-	80A	-	6	9	6317 C3	85A	-	-	180	6316 C3	80A	-	13 16	-	N-end
IE2-K11R 315 S4 Ex e IIC	6317 C3	-	85A	-	-	180	6316 C3	-	-	80A	-	6	9	6317 C3	85A	-	-	180	6316 C3	80A	-	13 16	-	N-end
IE2-K11R 315 M4 Ex e IIC	Relubrication device as standard										6220 C3	-	RB100	-	180	6316 C3	-	RB85	18 19	-	-	N-end		
IE2-K11R 315 MY4, L4 Ex e IIC	Relubrication device as standard										6320 C3	-	RB100	-	215	6317 C3	-	RB85	18 19	-	-	N-end		
IE2-K11R 315 LX4 Ex e IIC	Relubrication device as standard										6320 C3	-	RB100	-	215	6317 C3	-	RB85	18 19	-	-	N-end		
IE2-W22R 355 M4, MX4 Ex e IIC	Relubrication device as standard										6324 C3	-	RB120	-	260	6317 C3	-	RB85	18 19	-	-	N-end		
IE2-K12R 355 L4 Ex e IIC	Relubrication device as standard										6324 C3	-	RB120	-	260	6317 C3	-	RB35	13 14	-	-	N-end		
IE2-K11R 132 S6, M6 Ex e IIC	6208 2Z C3	-	-	RB40	80	-	-	-	-	RB35	6	12	-	-	RB40	80	-	-	RB40	13 14	-	-	N-end	
IE2-K11R 132 MX6 Ex e IIC	6308 2Z C3	-	-	RB40	90	6308 2Z C3	-	-	RB40	6	12	6308 C3	-	RB40	90	-	6308 C3	-	RB40	13 14	-	-	N-end	
IE2-K11R 160 M6 Ex e IIC	6309 2Z C3	-	-	RB45	100	6308 2Z C3	-	-	RB40	6	12	-	-	-	-	-	-	-	-	-	-	-	N-end	
IE2-K11R 160 L6 Ex e IIC	6310 2Z C3	-	-	RB50	110	6309 2Z C3	-	-	RB45	6	12	6310 C3	-	RB50	110	-	6309 C3	50A	-	13 14	-	-	N-end	
IE2-K11R 180 L6 Ex e IIC	6310 C3	-	50A	-	110	6310 C3	-	-	50A	-	6	8	6310 C3	50A	-	110	-	6310 C3	50A	-	13 14	-	N-end	
IE2-K11R 200 L6 Ex e IIC	6312 C3	-	60A	-	-	130	6310 C3	-	-	50A	-	6	8	6312 C3	60A	-	-	130	6310 C3	60A	-	13 14	-	N-end
IE2-K11R 200 LX6 Ex e IIC	6312 C3	-	60A	-	-	130	6312 C3	-	-	60A	-	6	8	6312 C3	60A	-	-	130	6312 C3	65A	-	13 14	-	N-end
IE2-K11R 225 M6 Ex e IIC	6314 C3	-	70A	-	-	150	6313 C3	-	-	65A	-	6	8	6314 C3	70A	-	-	150	6312 C3	65A	-	13 14	-	N-end
IE2-K11R 250 M6 Ex e IIC	6314 C3	-	70A	-	-	150	6313 C3	-	-	65A	-	6	9	6314 C3	70A	-	-	150	6313 C3	70A	-	13 16	-	N-end
IE2-K11R 280 S6 Ex e IIC	6316 C3	-	80A	-	-	170	6314 C3	-	-	70A	-	6	9	6316 C3	80A	-	-	170	6314 C3	80A	-	13 16	-	N-end
IE2-K11R 280 M6 Ex e IIC	6317 C3	-	85A	-	-	180	6316 C3	-	-	80A	-	6	9	6317 C3	85A	-	-	180	6316 C3	80A	-	13 16	-	N-end
IE2-K11R 315 S6 Ex e IIC	6317 C3	-	85A	-	-	180	6316 C3	-	-	80A	-	6	9	6317 C3	85A	-	-	180	6316 C3	80A	-	13 16	-	N-end
IE2-K11R 315 M6 Ex e IIC	Relubrication device as standard										6220 C3	-	RB100	-	180	6316 C3	-	RB85	18 19	-	-	N-end		
IE2-K11R 315 MY6, L6, LX6 Ex e IIC	Relubrication device as standard										6320 C3	-	RB100	-	215	6317 C3	-	RB85	18 19	-	-	N-end		
IE2-K12R 355 L6 Ex e IIC	Relubrication device as standard										6324 C3	0	RB120	-	260	6317 C3	-	RB85	13 14	-	-	-	N-end	
IE2-K11R 160 M8 Ex e IIC	6309 2Z C3	-	-	RB45	100	6308 2Z C3	-	-	RB40	6	12	-	-	-	-	-	-	-	-	-	-	-	N-end	
IE2-K11R 225 S8 Ex e IIC	6313 C3	-	65A	-	-	140	6312 C3	-	-	60A	-	6	8	6313 C3	65A	-	-	140	6312 C3	65A	-	13 14	-	N-end
IE2-K11R 225 M8 Ex e IIC	6314 C3	-	70A	-	-	150	6313 C3	-	-	65A	-	6	8	6314 C3	70A	-	-	150	6312 C3	70A	-	13 14	-	N-end
IE2-K11R 250 M8 Ex e IIC	6316 C3	-	80A	-	-	170	6314 C3	-	-	70A	-	6	9	6316 C3	80A	-	-	170	6313 C3	80A	-	13 16	-	N-end
IE2-K11R 280 S8 Ex e IIC	6316 C3	-	80A	-	-	170	6314 C3	-	-	70A	-	6	9	6316 C3	80A	-	-	170	6314 C3	80A				

Motors in explosion-protected design

Type of explosion protection – Increased safety „e“ („eb“), High Efficiency, IE2

Reinforced bearings

	Without relubrication device							With relubrication device									
Type	D-end (DS)		N-end (NS)		Figure			D-end (DS)		N-end (NS)		Figure			Fixed bearing		
	Anti-friction bearing		Anti-friction bearing					Anti-friction bearing		Anti-friction bearing							
	V-ring	Y-ring	V-ring	Y-ring	DS	NS	V-ring	Y-ring	V-ring	Y-ring	DS	NS					
IE2-K11R 132 S2, S2G Ex e IIC	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
IE2-K11R 132 SX2, SX2G Ex e IIC	NU 308 E	-	RB40	6308 ZZ C3	-	RB40	7 9	NU 308 E	-	RB40	6308 C3	-	RB45	15 16 N-end			
IE2-K11R 160 M2, M2G Ex e IIC	NU 310 E	-	RB50	6309 ZZ C3	-	RB45	7 9	NU 310 E	-	RB50	6309 C3	-	RB45	15 16 N-end			
IE2-K11R 160 MX2, MX2G Ex e IIC	NU 310 E	-	RB50	6309 ZZ C3	-	RB45	7 9	NU 310 E	-	RB50	6309 C3	-	RB45	15 16 N-end			
IE2-K11R 160 L2, L2G Ex e IIC	NU 310 E	-	RB50	6309 ZZ C3	-	RB45	7 9	NU 310 E	-	RB50	6309 C3	50A	-	15 16 N-end			
IE2-K11R 180 M2, M2G Ex e IIC	NU 310 E	50A	-	6310 C3	50A	-	7 9	NU 310 E	50A	-	6310 C3	50A	-	15 16 N-end			
IE2-K11R 200 L2, L2G Ex e IIC	NU 312 E	60A	-	6310 C3	50A	-	7 9	NU 312 E	60A	-	6310 C3	60A	-	15 16 N-end			
IE2-K11R 200 LX2, LX2G Ex e IIC	NU 312 E	60A	-	6312 C3	60A	-	7 9	NU 312 E	60A	-	6312 C3	65A	-	15 16 N-end			
IE2-K11R 225 M2, M2G Ex e IIC	NU 313 E	65A	-	6313 C3	65A	-	7 9	NU 313 E	65A	-	6313 C3	70A	-	15 16 N-end			
IE2-K11R 250 M2, M2G Ex e IIC	NU 314 E	70A	-	6314 C3	70A	-	7 9	NU 314 E	70A	-	6314 C3	70A	-	15 16 N-end			
IE2-K11R 280 S2, S2G Ex e IIC	NU 314 E	70A	-	6314 C3	70A	-	7 9	NU 314 E	70A	-	6314 C3	70A	-	15 16 N-end			
IE2-K11R 280 M2, M2G Ex e IIC	NU 314 E	70A	-	6314 C3	70A	-	7 9	NU 314 E	70A	-	6314 C3	80A	-	15 16 N-end			
IE2-K11R 315 S2, S2G Ex e IIC		Relubrication device as standard						NU 316 E	80A	-	6316 C3	80A	-	15 16 N-end			
IE2-K11R 315 M2, M2G Ex e IIC		Relubrication device as standard						NU 317 E	85A	-	6316 C3	-	RB85	15 16 N-end			
IE2-K11R 315 MY2, MY2G Ex e IIC		Relubrication device as standard						NU 317 E	85A	RB85	6317 C3	-	RB85	20 19 N-end			
IE2-K11R 315 L2, L2G Ex e IIC		Relubrication device as standard						NU 317 E	85A	RB85	6317 C3	-	RB85	20 19 N-end			
IE2-K11R 315 LX2, LX2G Ex e IIC		Relubrication device as standard						NU 317 E	85A	RB85	6317 C3	-	RB85	20 19 N-end			
IE2-K12R 355 M2G Ex e IIC		Relubrication device as standard						NU 317 E	85A	RB85	6317 C3	-	RB85	20 19 N-end			
IE2-K12R 355 L2G Ex e IIC		Relubrication device as standard						NU 317 E	85A	RB85	6317 C3	-	RB40	20 19 N-end			
IE2-K11R 132 S4, M 4 Ex e IIC	NU 308 E	-	RB40	6308 ZZ C3	-	RB40	7 9	NU 308 E	-	RB40	6308 C3	-	RB45	15 16 N-end			
IE2-K11R 160 M4, L 4 Ex e IIC	NU 310 E	-	RB50	6309 ZZ C3	-	RB45	7 9	NU 310 E	-	RB50	6309 C3	50A	-	15 16 N-end			
IE2-K11R 180 M4, L 4 Ex e IIC	NU 310 E	50A	-	6310 C3	50A	-	7 9	NU 310 E	50A	-	6310 C3	60A	-	15 16 N-end			
IE2-K11R 200 L4 Ex e IIC	NU 312 E	60A	-	6312 C3	60A	-	7 9	NU 312 E	60A	-	6312 C3	65A	-	15 16 N-end			
IE2-K11R 225 S4, M 4 Ex e IIC	NU 314 E	70A	-	6313 C3	65A	-	7 9	NU 314 E	70A	-	6313 C3	70A	-	15 16 N-end			
IE2-K11R 250 M4 Ex e IIC	NU 316 E	80A	-	6314 C3	70A	-	7 9	NU 316 E	80A	-	6314 C3	80A	-	15 16 N-end			
IE2-K11R 280 S4, M 4 Ex e IIC	NU 317 E	85A	-	6316 C3	80A	-	7 9	NU 317 E	85A	-	6316 C3	80A	-	15 16 N-end			
IE2-K11R 315 S4 Ex e IIC	NU 317 E	85A	-	6316 C3	80A	-	7 9	NU 317 E	85A	-	6316 C3	80A	-	15 16 N-end			
IE2-K11R 315 M4 Ex e IIC		Relubrication device as standard						NU 2220 E	-	RB100	6316 C3	-	RB85	15 16 N-end			
IE2-K11R 315 MY4, L 4 Ex e IIC		Relubrication device as standard						NU 320 E	-	RB100	6317 C3	-	RB85	20 19 N-end			
IE2-K11R 315 LX4 Ex e IIC		Relubrication device as standard						NU 320 E	-	RB100	6317 C3	-	RB85	20 19 N-end			
IE2-W22R 355 M4, MX4 Ex e IIC		Relubrication device as standard						NU 324 E	-	RB120	6317 C3	-	RB85	20 19 N-end			
IE2-K12R 355 L4 Ex e IIC		Relubrication device as standard						NU 324 E	-	RB120	6317 C3	-	RB35	20 19 N-end			
IE2-K11R 132 S6, M 6 Ex e IIC	NU 208 E	-	RB40	6207 ZZ C3	-	RB35	7 9	-	-	RB40	-	-	RB40	15 16 N-end			
IE2-K11R 132 MX6 Ex e IIC	NU 308 E	-	RB40	6308 ZZ C3	-	RB40	7 9	NU 308 E	-	RB40	6308 C3	-	RB40	15 16 N-end			
IE2-K11R 160 M6 Ex e IIC	NU 309 E	-	RB45	6308 ZZ C3	-	RB40	7 9	-	-	RB45	-	-	RB45	15 16 N-end			
IE2-K11R 160 L6 Ex e IIC	NU 310 E	-	RB50	6309 ZZ C3	-	RB45	7 9	NU 310 E	-	RB50	6309 C3	50A	-	15 16 N-end			
IE2-K11R 180 L6 Ex e IIC	NU 310 E	50A	-	6310 C3	50A	-	7 9	NU 310 E	50A	-	6310 C3	50A	-	15 16 N-end			
IE2-K11R 200 L6 Ex e IIC	NU 312 E	60A	-	6310 C3	50A	-	7 9	NU 312 E	60A	-	6310 C3	60A	-	15 16 N-end			
IE2-K11R 200 LX6 Ex e IIC	NU 312 E	60A	-	6312 C3	60A	-	7 9	NU 312 E	60A	-	6312 C3	65A	-	15 16 N-end			
IE2-K11R 225 M6 Ex e IIC	NU 314 E	70A	-	6313 C3	65A	-	7 9	NU 314 E	70A	-	6313 C3	65A	-	15 16 N-end			
IE2-K11R 250 M6 Ex e IIC	NU 314 E	70A	-	6313 C3	65A	-	7 9	NU 314 E	70A	-	6313 C3	70A	-	15 16 N-end			
IE2-K11R 280 S6 Ex e IIC	NU 316 E	80A	-	6314 C3	70A	-	7 9	NU 316 E	80A	-	6314 C3	80A	-	15 16 N-end			
IE2-K11R 280 M6 Ex e IIC	NU 317 E	85A	-	6316 C3	80A	-	7 9	NU 317 E	85A	-	6316 C3	80A	-	15 16 N-end			
IE2-K11R 315 S6 Ex e IIC	NU 317 E	85A	-	6316 C3	80A	-	7 9	NU 317 E	85A	-	6316 C3	80A	-	15 16 N-end			
IE2-K11R 315 M6 Ex e IIC		Relubrication device as standard						NU 2220 E	-	RB100	6316 C3	-	RB85	20 19 N-end			
IE2-K11R 315 MY6, L6, LX6 Ex e IIC		Relubrication device as standard						NU 320 E	-	RB100	6317 C3	-	RB85	20 19 N-end			
IE2-K12R 355 L6 Ex e IIC		Relubrication device as standard						NU 324 E	0	RB120	6317 C3	-	RB85	20 19 N-end			
IE2-K11R 160 M8 Ex e IIC	NU 309 E	-	RB45	6308 ZZ C3	60A	RB40	7 9	-	-	-	-	-	-	N-end			
IE2-K11R 225 S8 Ex e IIC	NU 313 E	65A	-	6312 C3	65A	-	7 9	NU 313 E	65A	-	6312 C3	65A	-	15 16 N-end			
IE2-K11R 225 M8 Ex e IIC	NU 314 E	70A	-	6313 C3	70A	-	7 9	NU 314 E	70A	-	6313 C3	70A	-	15 16 N-end			
IE2-K11R 250 M8 Ex e IIC	NU 316 E	80A	-	6314 C3	80A	-	7 9	NU 316 E	80A	-	6314 C3	80A	-	15 16 N-end			
IE2-K11R 280 S8 Ex e IIC	NU 316 E	80A	-	6314 C3	80A	-	7 9	NU 316 E	80A	-	6314 C3	80A	-	15 16 N-end			
IE2-K11R 280 M8 Ex e IIC	NU 317 E	85A	-	6316 C3	80A	-	7 9	NU 317 E	85A	-	6316 C3	80A	-	15 16 N-end			
IE2-K11R 315 S8 Ex e IIC	NU 317 E	85A	-	6316 C3	80A	-	7 9	NU 317 E	85A	-	6316 C3	80A	-	15 16 N-end			
IE2-K11R 315 M8 Ex e IIC	NU 317 E	85A	-	6316 C3	85A	-	7 9	NU 317 E	85A	-	6316 C3	85A	-	15 16 N-end			
IE2-K11R 315 MY8 Ex e IIC		Relubrication device as standard						NU 320 E	-	RB100	6317 C3	-	RB85	20 19 N-end			
IE2-K11R 315 L8 Ex e IIC		Relubrication device as standard						NU 320 E	-	RB100	6317 C3	-	RB85	20 19 N-end			
IE2-K11R 315 LX8 Ex e IIC		Relubrication device as standard						NU 320 E	-	RB100	6317 C3	-	RB85	20 19 N-end			

Motors in explosion-protected design

Type of explosion protection – Increased safety „e“ („eb“)

Basic version

Type	D-end (DS)					N-end (NS)		Figure		Fixed bearing
	Anti-friction bearing	V-ring	Y-ring	Wave spring	Disc spring	Anti-friction bearing	V-ring	DS	NS	
KPER 63	6201 2Z C3	-	-	-	-	6201 2Z C3	32	1	2	without
KPER 71	6202 2Z C3	-	-	-	-	6202 2Z C3	35	1	2	without
KPER 80	6204 2Z C3	-	-	-	-	6204 2Z C3	47	1	2	without
KPER 90	6205 2Z C3	-	-	-	-	6205 2Z C3	52	1	2	without
KPER 100	6205 2Z C3	-	-	-	-	6205 2Z C3	52	1	2	without
KPER 100 LX	6206 2Z C3	-	-	-	-	6206 2Z C3	62	1	2	without
KPER 112 M	6206 2Z C3	-	-	-	-	6206 2Z C3	62	1	2	without
KPER 132 S...T, SX...T	6208 2Z C3	-	-	72	-	6306 2Z C3	-	3	5	without
K11R 132 S, SX2, M6, 8	6208 2RS C3	-	-	80	-	6207 2RS C3	-	3	5	without
K11R 132 M4, MX6	6308 2RS C3	-	-	90	-	6308 2RS C3	-	3	5	without
K11R 160 M6, 8, MX8	6309 2RS C3	-	-	100	-	6308 2RS C3	-	3	5	without
K11R 160 M2, 4, MX2, L	6310 2RS C3	-	-	110	-	6309 2RS C3	-	3	5	without
K11R 180 L8	6310 2RS C3	-	-	110	-	6309 2RS C3	-	3	5	without
K11R 180 M2, 4, L4, 6	6310 C3	50A	-	110	-	6310 C3	50A	6	8	N-end
K11R 200 L2, 6, 8	6312 C3	60A	-	-	130	6310 C3	50A	6	8	N-end
K11R 200 LX2, 6, L4	6312 C3	60A	-	-	130	6312 C3	60A	6	8	N-end
K11R 225 S8	6313 C3	65A	-	-	140	6312 C3	60A	6	8	N-end
K11R 225 M2	6313 C3	65A	-	-	150	6313 C3	65A	6	8	N-end
K11R 225 S4, M4, 6, 8	6314 C3	70A	-	-	150	6313 C3	65A	6	8	N-end
K11R 250 M2	6314 C3	70A	-	-	150	6313 C3	70A	6	8	N-end
K11R 250 M4, 6, 8	NU 316 E	-	RB 80	-	-	6314 C3	70A	7	9	N-end
K11R 280 S2, M2	6316 C3	80A	-	-	170	6316 C3	80A	6	8	N-end
K11R 280 S4, 6, 8, M4, 6, 8	NU 317 E	-	RB 85	-	-	6316 C3	80A	7	9	N-end
K11R 315 S2	6316 C3	80A	-	-	170	6316 C3	80A	6	8	N-end
K11R 315 M2	NU 317 E	-	RB 85	-	-	6316 C3	80A	20	19	N-end
K11R 315 S4, 6, 8	NU 317 E	-	RB 85	-	-	6316 C3	80A	20	19	N-end
K11R 315 M4, 6, 8	NU 2220 E	-	RB100	-	-	6316 C3	80A	20	19	N-end
K11R 315 MY, L, LX 2 VL	NU 317 E	-	RB85	-	-	6317 C3 ¹⁾	85A	20	19	N-end
K11R 315 MY, L, LX 4, 6, 8 VL	NU 320 E	-	RB100	-	-	6317 C3 ¹⁾	85A	20	19	N-end

¹⁾ For types for vertical mounting Q317 C3; figures 20, 21
Size 315 M, MY, L, LX with relubrication device as standard

Reinforced bearings

Type	D-end (DS)					N-end (NS)		Figure		Fixed bearing
	Anti-friction bearing	V-ring	Y-ring	Wave spring	Disc spring	Anti-friction bearing	V-ring	DS	NS	
K11R 132 S, SX2, M6, 8	NU 208 E	-	RB40	-	-	6207 2RS C3	-	4	10	N-end
K11R 132 M4, MX6	NU 308 E	-	RB40	-	-	6308 2RS C3	-	4	10	N-end
K11R 160 M6, 8, MX8	NU 309 E	-	RB45	-	-	6308 2RS C3	-	4	10	N-end
K11R 160 M2, 4, MX2	NU 310 E	-	RB50	-	-	6309 2RS C3	-	7	9	N-end
K11R 180 L8	NU 310 E	-	RB50	-	-	6309 2RS C3	-	7	9	N-end
K11R 180 M2, 4, L4, 6	NU 310 E	-	RB50	-	-	6310 C3	50A	7	9	N-end
K11R 200 L2, 4, 6, 8	NU 312 E	-	RB60	-	-	6310 C3	50A	7	9	N-end
K11R 200 LX2, 6, L4	NU 312 E	-	RB60	-	-	6312 C3	60A	7	9	N-end
K11R 225 S8	NU 313 E	-	RB65	-	-	6312 C3	60A	7	9	N-end
K11R 225 M2	NU 313 E	-	RB65	-	-	6313 C3	60A	7	9	N-end
K11R 225 S4, M2, 4, 6, 8	NU 314 E	-	RB70	-	-	6313 C3	65A	7	9	N-end
K11R 250 M2	NU 314 E	-	RB70	-	-	6313 C3	70A	7	9	N-end
K11R 250 M4, 6, 8	Basic version corresponds to reinforced bearings									
K11R 280 S2, M2	NU 316 E	-	RB 80	-	-	6316 C3	80A	7	9	N-end
K11R 280 S4, 6, 8, M4, 6, 8	Basic version corresponds to reinforced bearings									
K11R 315 S2	NU 316 E	-	RB 80	-	-	6316 C3	80A	6	8	N-end
K11R 315 M2	Basic version corresponds to reinforced bearings									
K11R 315 S4, 6, 8	Basic version corresponds to reinforced bearings									
K11R 315 M4, 6, 8	Basic version corresponds to reinforced bearings									
K11R 315 MY, L, LX 2 VL	Basic version corresponds to reinforced bearings									
K11R 315 MY, L, LX 4, 6, 8 VL	Basic version corresponds to reinforced bearings									

¹⁾ For types for vertical mounting Q317 C3; figures 20, 21
Size 315 M, MY, L, LX with relubrication device as standard

Motors in explosion-protected design

Type of explosion protection – Increased safety „e“ („eb“)

Relubrication device

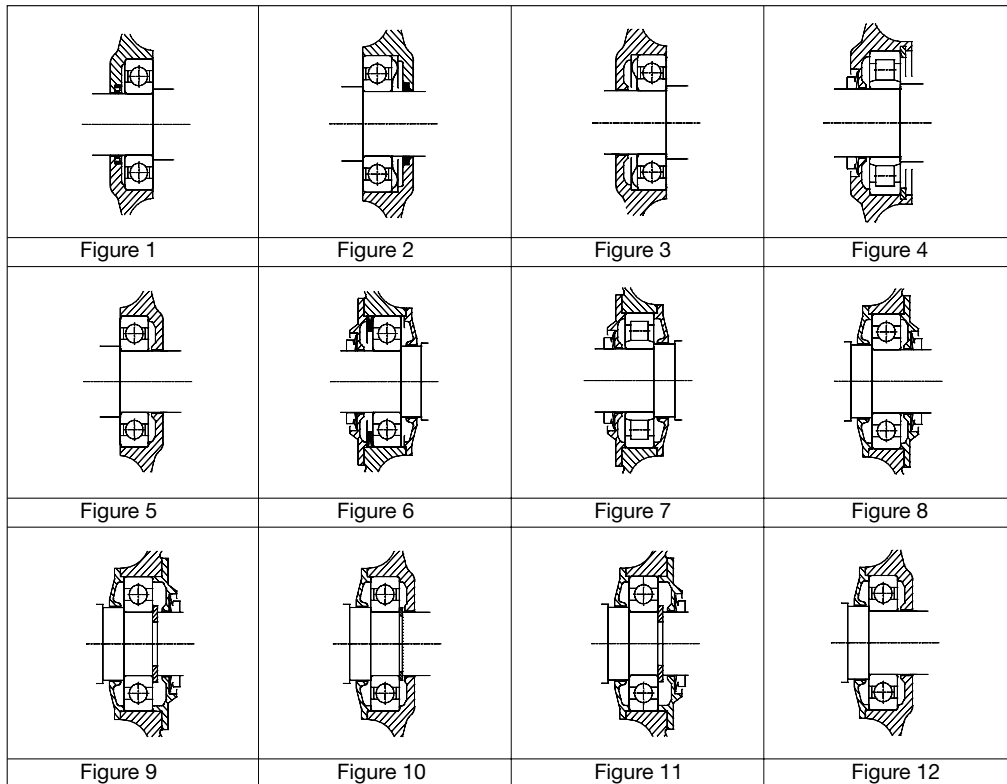
Type	D-end (DS)					N-end (NS)		Figure		Fixed bearing
	Anti-friction bearing	V-ring	Y-ring	Wave spring	Disc spring	Anti-friction bearing	V-ring	DS	NS	
K11R 132 S, SX2, M6, 8	6208 C3	-	-	80	-	6207 C3	-	3	5	N-end
K11R 132 M4, MX6	6308 C3	-	-	90	-	6308 C3	-	3	5	N-end
K11R 160 M6, 8, MX8	6309 C3	-	-	100	-	6308 C3	-	3	5	N-end
K11R 160 M2, 4, MX2, L	6310 C3	-	-	110	-	6309 C3	-	3	5	N-end
K11R 180 L8	6310 C3	-	-	110	-	6309 C3	-	3	5	N-end
K11R 180 M2, 4, L4, 6	6310 C3	50A	-	110	-	6310 C3	50A	6	8	N-end
K11R 200 L2, 6, 8	6312 C3	60A	-	-	130	6310 C3	50A	6	8	N-end
K11R 200 LX2, 6, L4	6312 C3	60A	-	-	130	6312 C3	60A	6	8	N-end
K11R 225 S8	6313 C3	65A	-	-	140	6312 C3	60A	6	8	N-end
K11R 225 M2	6313 C3	65A	-	-	150	6313 C3	65A	6	8	N-end
K11R 225 S4, M4, 6, 8	6314 C3	70A	-	-	150	6313 C3	65A	6	8	N-end
K11R 250 M2	6314 C3	70A	-	-	150	6313 C3	70A	6	8	N-end
K11R 250 M4, 6, 8	NU 316 E	-	RB 80	-	-	6314 C3	70A	7	9	N-end
K11R 280 S2, M2	6316 C3	80A	-	-	170	6316 C3	80A	6	8	N-end
K11R 280 S4, 6, 8, M4, 6, 8	NU 317 E	-	RB 85	-	-	6316 C3	80A	7	9	N-end
K11R 315 S2	6316 C3	80A	-	-	170	6316 C3	80A	6	8	N-end
K11R 315 M2	NU 317 E	-	RB 85	-	-	6316 C3	80A	20	19	N-end
K11R 315 S4, 6, 8	NU 317 E	-	RB 85	-	-	6316 C3	80A	20	19	N-end
K11R 315 M4, 6, 8	NU 2220 E	-	RB100	-	-	6316 C3	80A	20	19	N-end
K11R 315 MY, L, LX 2 VL	NU 317 E	-	RB85	-	-	6317 C3 ¹⁾	85A	20	19	N-end
K11R 315 MY, L, LX 4, 6, 8 VL	NU 320 E	-	RB100	-	-	6317 C3 ¹⁾	85A	20	19	N-end

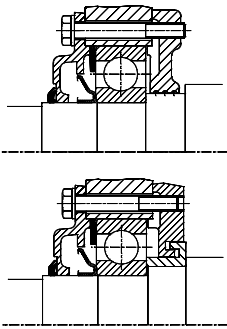
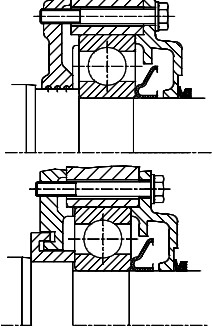
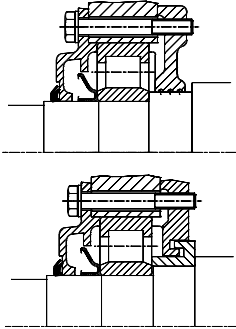
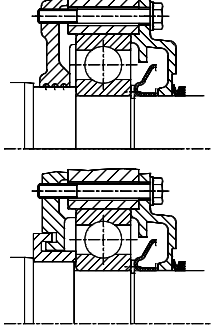
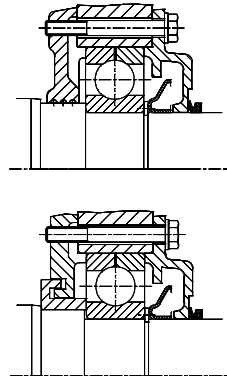
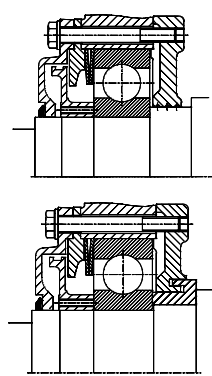
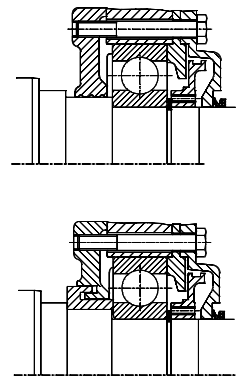
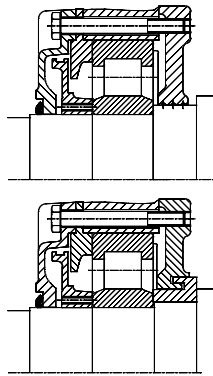
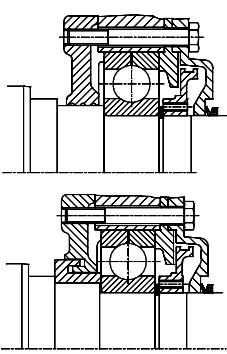
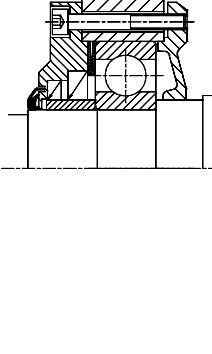
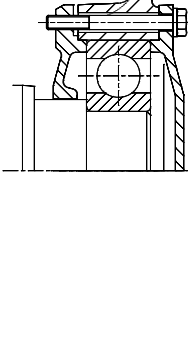
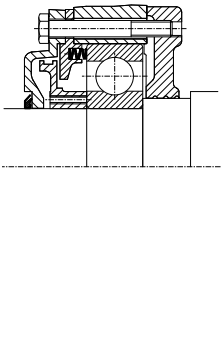
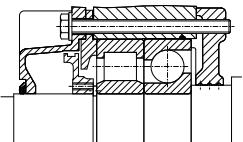
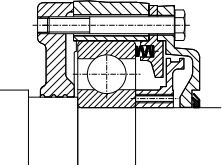
¹⁾ For types for vertical mounting Q317 C3; figures 20, 21
Size 315 M, MY, L, LX with relubrication device as standard

Reinforced bearings with relubrication device

Type	D-end (DS)					N-end (NS)		Figure		Fixed bearing
	Anti-friction bearing	V-ring	Y-ring	Wave spring	Disc spring	Anti-friction bearing	V-ring	DS	NS	
K11R 132 S, SX2, M6, 8	NU 208 E	-	RB40	-	-	6207 C3	-	4	10	N-end
K11R 132 M4, MX6	NU 308 E	-	RB40	-	-	6308 C3	-	4	10	N-end
K11R 160 M6, 8, MX8	NU 309 E	-	RB45	-	-	6308 C3	-	4	10	N-end
K11R 160 M2, 4, MX2	NU 310 E	-	RB50	-	-	6309 C3	-	7	9	N-end
K11R 180 L8	NU 310 E	-	RB50	-	-	6309 C3	-	7	9	N-end
K11R 180 M2, 4, L4, 6	NU 310 E	-	RB50	-	-	6310 C3	50A	7	9	N-end
K11R 200 L2, 4, 6, 8	NU 312 E	-	RB60	-	-	6310 C3	50A	7	9	N-end
K11R 200 LX2, 6, L4	NU 312 E	-	RB60	-	-	6312 C3	60A	7	9	N-end
K11R 225 S8	NU 313 E	-	RB65	-	-	6312 C3	60A	7	9	N-end
K11R 225 M2	NU 313 E	-	RB65	-	-	6313 C3	60A	7	9	N-end
K11R 225 S4, M2, 4, 6, 8	NU 314 E	-	RB70	-	-	6313 C3	65A	7	9	N-end
K11R 250 M2	NU 314 E	-	RB70	-	-	6313 C3	70A	7	9	N-end
K11R 250 M4, 6, 8	Basic version corresponds to reinforced bearings									
K11R 280 S2, M2	NU 316 E	-	RB 80	-	-	6316 C3	80A	7	9	N-end
K11R 280 S4, 6, 8, M4, 6, 8	Basic version corresponds to reinforced bearings									
K11R 315 S2	NU 316 E	-	RB 80	-	-	6316 C3	80A	6	8	N-end
K11R 315 M2	Basic version corresponds to reinforced bearings									
K11R 315 S4, 6, 8	Basic version corresponds to reinforced bearings									
K11R 315 M4, 6, 8	Basic version corresponds to reinforced bearings									
K11R 315 MY, L, LX 2 VL	Basic version corresponds to reinforced bearings									
K11R 315 MY, L, LX 4, 6, 8 VL	Basic version corresponds to reinforced bearings									

¹⁾ For types for vertical mounting Q317 C3; figures 20, 21
Size 315 M, MY, L, LX with relubrication device as standard



			
Figure 13	Figure 14	Figure 15	Figure 16
			
Figure 17	Figure 18	Figure 19	Figure 20
			
Figure 21	Figure 22	Figure 23	Figure 24
			
Figure 25	Figure 26		

Terminal boxes

Type of explosion protection – Increased safety „e“ („eb“)

Overview of terminal boxes

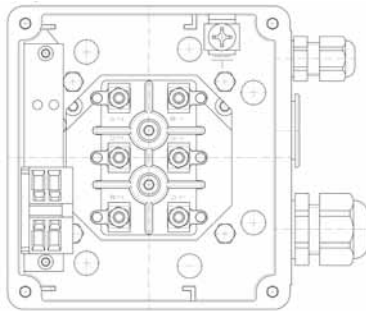
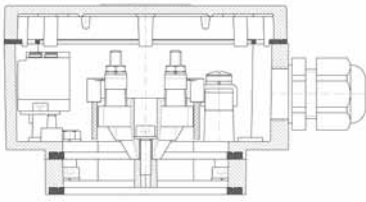
Type Ex e IIC	Terminal plate	$I_{B \max}$ [A]	$Q_{B \min}$ [mm ²]	$Q_{B \max}$ [mm ²]	Terminal type	Terminal thread	a [mm]
KA 05-13	KB 5580	27.5		2.5	U-clamp terminal	M4	
25 A	KB 3Ex (KS 10A)	53	6	10	Slotted terminal	S10 x 1	4.3 ± 0.1
63 A	KB 4Ex (KS 14A)	72	10	16	Slotted terminal	S14 x 1.25	6.3 ± 0.2
100 A	KB 4Ex (KS 14A)	72	10	16	Slotted terminal	S14 x 1.25	6.3 ± 0.2
200 A	KB 5Ex (KS 18A)	118	25	35	Slotted terminal	S18 x 1.5	9.2 ± 0.2
25 AV	KL 155	30		4	U-clamp terminal	M5	-
25 AV	KB 5590Ex/d 5.2	35		4	U-clamp terminal	M4	-
63 AV	KB 5121Ex-3	58.5		10	U-clamp terminal	M5	-
100 AV	KB 5121Ex-3	58.5		10	U-clamp terminal	M5	-
100 AV	KB 5130Ex	114		35	U-clamp terminal	M6	-
200 AV	KB 5130Ex	114		35	U-clamp terminal	M6	-
100/63 AV	KM 8/6, VEM 8/6	63		10	Stud/ U-clamp terminal ^{*)}	M6/M5	
200 A-SB	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	
200 A-SB	KB 5130 Ex	118		35	U-clamp terminal	M6	-
400 A	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	-
	KM 16/12, VEM 16/12	250		120	Stud/ Tab terminal	M12/2xM10	-
400 AV	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	-
400 A-SB	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	-
	KM 16/12, VEM 16/12	250		120	Stud/ Tab terminal	M12/2xM10	-
630 A	VEM KLP 630-16	455	35	300	Stud/ Screw terminal	M16 M12/M8	-
K1X 200 A	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	-
K2X 200 A	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	-
K1X 400 A	KM 16/12, VEM 16/12	250		120	Stud/ Tab terminal	M12/2xM10	-
K2X 400 A	KM 16/12, VEM 16/12	250		120	Stud/ Tab terminal	M12/2xM10	-
1000 A	VEM KLP 1000	1000	70	2x 240	Currentschienen	M10	-

$I_{B \max}$ max. rated current
 $Q_{B \min} / Q_{B \max}$ min./max. rated cross-section
a Slot width of terminal stud (terminal plates to DIN 22412)
^{*)} for single connection of solid conductors 6...10 mm², conductor bent into a loop

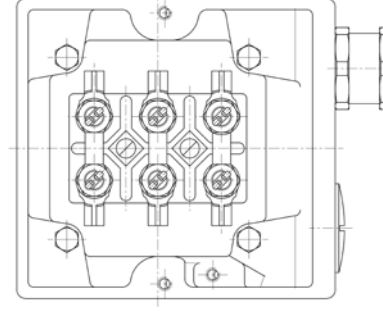
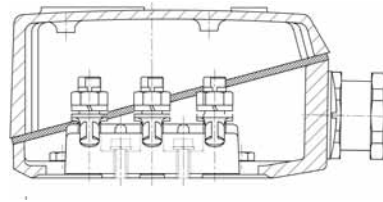
Only cable lugs to DIN 46295 may be used for the motor connection of motors with a terminal plate with slotted terminals. The cable lugs are attached by way of pressure nuts with integrated spring washer. Alternatively, it is permissible to realise connection by way of a solid round conductor whose diameter corresponds to the slot width of the terminal stud.

The numbers of cable glands and their assignment to different motor sizes correspond to the basic version according to DIN 42925 (see also the section "Dimensions" in Chapter 2). Customer-specific designs are possible.

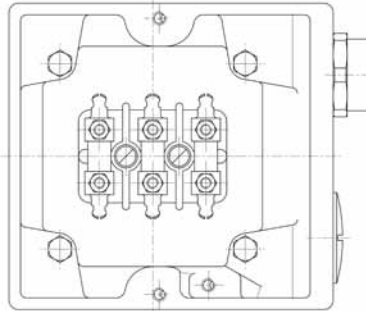
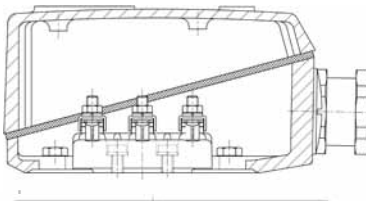
Type of explosion protection – Increased safety „e“ („eb“)



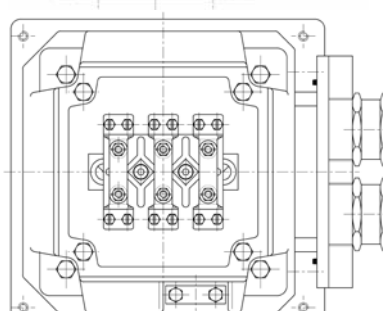
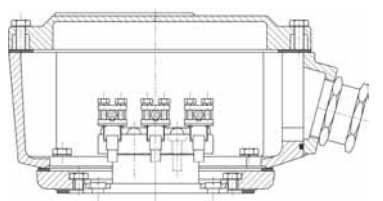
KA 05-13 Ex e IIC



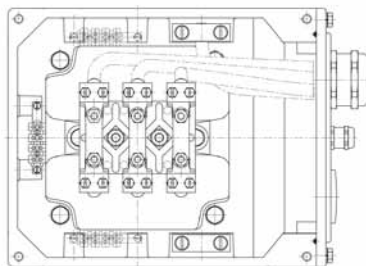
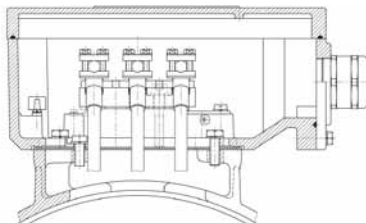
25 A, 63 A, 100 A and 200 A Ex e IIC



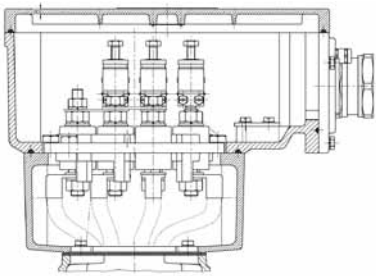
25 AV Ex e IIC



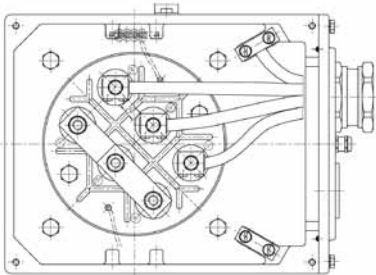
400 A, 400 AV Ex e IIC



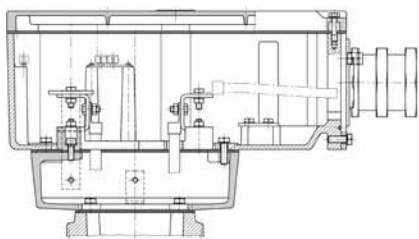
200 B, 400 B Ex e IIC



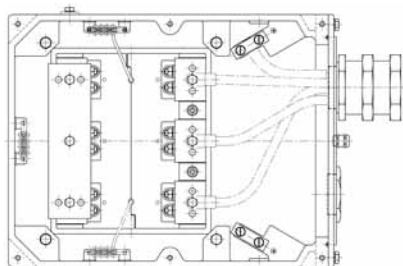
630 A Ex e IIC, gerader ZwischenFlange



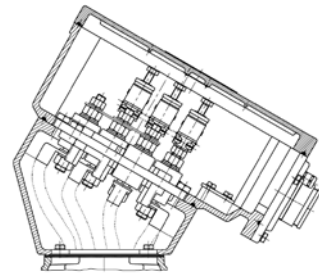
A630 Ex e IIC



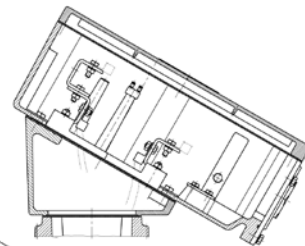
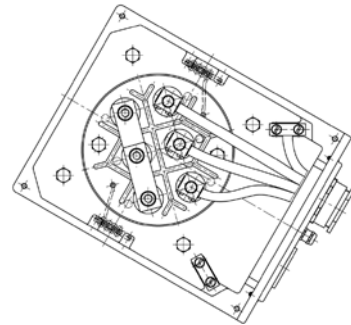
1000 A Ex e IIC, gerader ZwischenFlange



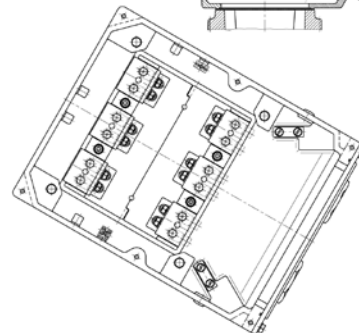
1000 A Ex e IIC



630 A Ex e IIC, inclined adapter flange

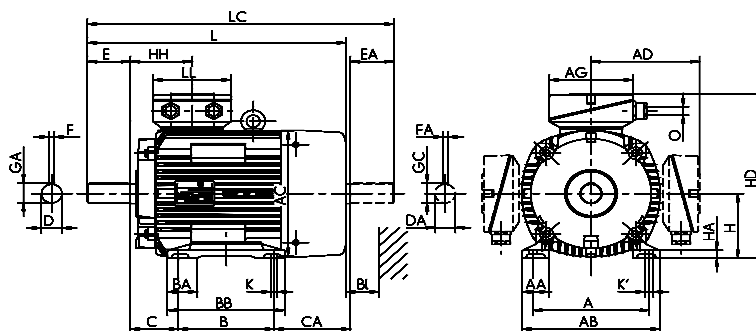


1000 A Ex e IIC, inclined adapter flange



Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	g1	VIK g1	a	m	e	w1	w2	d	d1		l	l1	u	u1
IE3-KPER 63 G2 Ex e IIC	FF115	100	28	128	109	116.5	116.5	80	-	100	40	39	11	11	M4	23	23	4	4
IE3-KPR 63 KY2 Ex e IIC	FF130	100	21	120	124	123	123	80	-	95	40	59	11	11	M4	23	23	4	4
IE3-KPER 63 G4 Ex e IIC	FF115	100	28	128	109	116.5	116.5	80	-	100	40	39	11	11	M4	23	23	4	4
IE3-KPR 63 G4 Ex e IIC	FF130	100	21	120	124	123	123	80	-	95	40	59	11	11	M4	23	23	4	4
IE3-KPER 71 G2 Ex e IIC	FF130	112	32	138	124	123	123	90	-	116 **)	45	44	14	14	M5	30	30	5	5
IE3-KPR 71 K4 Ex e IIC																			
IE3-KPR 71 G4 Ex e IIC	FF165	112	23	135	139	130	130	90	-	114	45	63	14	14	M5	30	30	5	5
IE3-KPER 80 K2 Ex e IIC	FF165	125	38	168	139	111	111	100	-	124	50	63	19	19	M6	40	40	6	6
IE3-KPR 80 K2 Ex e IIC	FF165	125	26	152	157	138	138	100	-	124	50	80	19	19	M6	40	40	6	6
IE3-KPR 80 G2, 6 Ex e IIC	FF165	125	26	152	157	138	138	100	-	146 **)	50	102	19	19	M6	40	40	6	6
IE3-KPR 80 K4 Ex e IIC																			
IE3-KPR 80 GX4 Ex e IIC	FF165	125	26	152	157	138	138	100	-	146	50	102	19	19	M6	40	40	6	6
IE3-KPR 90 S2 Ex e IIC	FF165	140	40	178	177	146	146	100	-	130	56	120	24	24	M8	50	50	8	8
IE3-KPR 90 S4 Ex e IIC	FF165	140	40	178	177	146	146	100	-	130	56	150	24	24	M8	50	50	8	8
IE3-KPR 90 L2 Ex e IIC	FF165	140	40	178	177	146	146	125	-	155	56	125	24	24	M8	50	50	8	8
IE3-KPR 90 L6 Ex e IIC	FF165	140	40	178	177	146	146	125	-	155	56	125	24	24	M8	50	50	8	8
IE3-KPR 90 LX4 Ex e IIC	FF165	140	40	178	177	146	146	125	-	155	56	150	24	24	M8	50	50	8	8
IE3-KPR 100 L2 Ex e IIC	FF215	160	42	193	196	155	155	140	-	175	63	102	28	28	M10	60	60	8	8
IE3-KPR 100 L4 Ex e IIC	FF215	160	42	193	196	155	155	140	-	175	63	166	28	28	M10	60	60	8	8
IE3-KPR 100 LX4 Ex e IIC	FF215	160	42	193	196	155	155	140	-	175	63	206	28	28	M10	60	60	8	8
IE3-KPR 100 L26 Ex e IIC	FF215	160	42	193	196	155	155	140	-	175	63	136	28	28	M10	60	60	8	8
IE3-KPER 112 MX2 Ex e IIC	FF215	190	52	225	196	155	155	140	-	180	70	127	28	28	M10	60	60	8	8
IE3-KPER 112 MV6 Ex e IIC	FF215	190	52	225	196	155	155	140	-	180	70	159	28	28	M10	60	60	8	8
IE3-KPR 112 M4 Ex e IIC	FF215	190	45	226	217	189	189	140	42	172	70	242	28	28	M10	60	60	8	8
IE3-KPER 132 S2T Ex e IIC	FF265	216	52	257	196	155	155	140	-	180	89	159	38	28	M12	80	60	10	8
IE3-K11R 112 M2 Ex e IIC	FF215	190	45	226	217	189	189	140	42	172	70	192	28	28	M10	60	60	8	8
IE3-K11R 132 S2 Ex e IIC	FF265	216	50	256	217	189	189	140	55	180	89	173	38	32	M12	80	80	10	10
IE3-K11R 132 SX2 Ex e IIC	FF265	216	50	256	258	210	237	140	47	180	89	176	38	32	M12	80	80	10	10
IE3-K11R 160 M2 Ex e IIC	FF300	254	55	296	313	253	279	210	60	257	108	148	42	38	M16	110	110	12	12
IE3-K11R 160 MX2 Ex e IIC	FF300	254	55	296	313	253	279	210	60	257	108	186	42	42	M17	110	110	12	12
IE3-K11R 160 L2 Ex e IIC	FF300	254	55	296	313	253	279	254	60	301	108	142	42	42	M16	110	110	12	12
IE3-K11R 180 M2C Ex e IIC	FF300	279	62	328	351	272	298	241	65	288	121	214	48	48	M16	110	110	14	14
IE3-K11R 200 L2 Ex e IIC	FF350	318	70	372	390	313	378	305	70	360	133	233	55	48	M20	110	110	16	16
IE3-K11R 200 LX2 Ex e IIC	FF350	318	70	372	390	313	378	305	70	360	133	233	55	55	M20	110	110	16	16
IE3-K11R 225 M2 Ex e IIC	FF400	356	75	413	440	324	406	311	75	368	149	267	55	55	M20	110	110	16	16
IE3-K11R 250 M2 Ex e IIC	FF500	406	84	469	490	397	397	349	84	374	168	275	60	55	M20	140	110	18	18
IE3-K11R 280 S2 Ex e IIC	FF500	457	94	522	490	397	397	368	96	482	190	234	65	65	M20	140	140	18	18
IE3-K11R 280 M2 Ex e IIC	FF500	457	88	522	550	427	427	419	94	482	190	384	65	65	M20	140	140	18	18
IE3-K11R 132 S4 Ex e IIC	FF265	216	50	256	258	210	237	140	47	180	89	186	38	32	M12	80	80	10	10
IE3-K11R 132 M4 Ex e IIC	FF265	216	50	256	258	210	237	178	47	218	89	186	38	38	M12	80	80	10	10
IE3-K11R 160 M4 Ex e IIC	FF300	254	55	296	313	253	279	210	60	257	108	148	42	38	M16	110	110	12	12
IE3-K11R 160 L4 Ex e IIC	FF300	254	55	296	313	253	279	254	60	301	108	192	42	42	M16	110	110	12	12

***) upon request

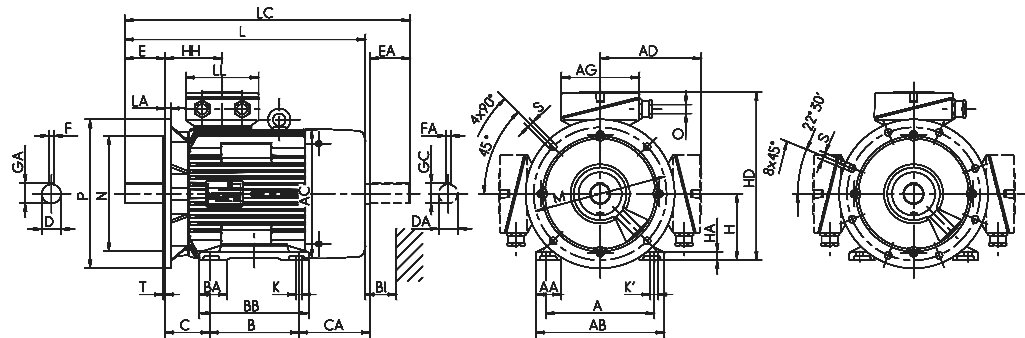
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	L'	L''	LC	LC	TB Type	AG	LL	TB Type	AG	LL	AH	O	LB	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k	k	k1	k1	Ex e IIC	x	z	Ex e IIC	x	z	-	-	-	BI
IE3-KPER 63 G2 Ex e IIC	12.5	12.5	63	10	179.5	***	179.5	66.5	8	8	180	206	180	205	205	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	14
IE3-KPR 63 KY2 Ex e IIC	12.5	12.5	63	7.5	186	***	186	70	7	7	200	225	200	225	225	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	14
IE3-KPER 63 G4 Ex e IIC	12.5	12.5	63	10	179.5	***	179.5	66.5	8	8	180	206	180	205	205	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	14
IE3-KPR 63 G4 Ex e IIC	12.5	12.5	63	7.5	186	***	186	70	7	7	200	225	200	225	225	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	14
IE3-KPER 71 G2 Ex e IIC	16	16	71	11	193.5	***	193.5	70	8	8	207	233	207	239	239	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	14
IE3-KPR 71 K4 Ex e IIC																									
IE3-KPR 71 G4 Ex e IIC	16	16	71	8	201	***	201	76	7	7	240	258	240	273	273	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	16
IE3-KPER 80 K2 Ex e IIC	21.5	21.5	80	12	210	***	210	76	10	10	250	279	250	293	293	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	16
IE3-KPR 80 K2 Ex e IIC	21.5	21.5	80	9	218	***	218	79	10	10	267	296	267	310	310	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	16
IE3-KPR 80 G2, 6 Ex e IIC	21.5	21.5	80	9	218	***	218	79	10	10	289	318	289	332	332	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	16
IE3-KPR 80 K4 Ex e IIC																									
IE3-KPR 80 GX4 Ex e IIC	21.5	21.5	80	9	218	***	218	79	10	10	289	318	289	332	332	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	16
IE3-KPR 90 S2 Ex e IIC	27	27	90	10.5	236	***	236	84	10	10	323	390	323	376	415	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	18
IE3-KPR 90 S4 Ex e IIC	27	27	90	10.5	236	***	236	84	10	10	353	420	353	406	445	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	18
IE3-KPR 90 L2 Ex e IIC	27	27	90	10.5	236	***	236	84	10	10	353	420	353	406	445	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	18
IE3-KPR 90 L6 Ex e IIC	27	27	90	10.5	236	***	236	84	10	10	353	420	353	406	445	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	18
IE3-KPR 90 LX4 Ex e IIC	27	27	90	10.5	236	***	236	84	10	10	378	445	416	431	470	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	18
IE3-KPR 100 L2 Ex e IIC	31	31	100	13	255	***	255	86	12	12	359	388	359	425	425	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPR 100 L4 Ex e IIC	31	31	100	13	255	***	255	86	12	12	423	452	423	489	489	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPR 100 LZ4 Ex e IIC	31	31	100	13	255	***	255	86	12	12	463	492	463	529	529	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPR 100 LX6 Ex e IIC	31	31	100	13	255	***	255	86	12	12	393	422	393	459	459	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPER 112 MX2 Ex e IIC	31	31	112	18	267	***	267	86	12	12	392	418	392	459	459	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPR 112 MV6 Ex e IIC	31	31	112	18	267	***	267	86	12	12	423	452	423	489	489	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPR 112 M4 Ex e IIC	31	31	112	15	301	***	301	108	12	12	509	549	509	572	572	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-KPER 132 S2T Ex e IIC	41	41	132	18	287	***	287	105	12	12	462	491	462	528	528	KA 05-13	104	112	KA 05-13	104	112	-	M32 x 1.5	4L	20
IE3-K11R 112 M2 Ex e IIC	31	31	112	15	301	***	301	108	12	12	459	499	459	522	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 S2 Ex e IIC	41	35	132	16	321	***	321	108	12	12	479	624	479	562	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 SX2 Ex e IIC	41	35	132	15	342	***	342	114	12	12	481	521	481	565	565	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 M2 Ex e IIC	45	45	160	18	413	***	439	138	15	20	571	611	571	686	686	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 160 MX2 Ex e IIC	45	45	160	18	413	***	439	138	15	20	609	649	609	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 160 L2 Ex e IIC	45	45	160	18	413	***	439	138	15	20	609	649	609	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 180 M2C Ex e IIC	51.5	51.5	180	20	452	***	478	147	15	20	680	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 200 L2 Ex e IIC	59	59	200	22	513	***	578	168	19	25	767	807	767	891	891	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	40
IE3-K11R 200 LX2 Ex e IIC	59	59	200	22	513	***	578	168	19	25	767	807	767	891	891	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	40
IE3-K11R 225 M2 Ex e IIC	59	59	225	25	549	***	631	177	19	25	832	917	832	947	947	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 250 M2 Ex e IIC	64	59	250	28	647	***	647	206	24	30	924	1009	924	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 S2 Ex e IIC	69	69	280	32	677	***	677	206	24	30	970	1055	970	1118	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 M2 Ex e IIC	69	69	280	40	707	***	707	211	24	30	1105	1215	1105	1273	1273	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 132 S4 Ex e IIC	41	35	132	15	341	***	341	114	12	12	529	569	529	613	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 M4 Ex e IIC	41	35	132	15	341	***	341	114	12	12	529	569	529	613	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 M4 Ex e IIC	45	45	160	18	413	***	439	138	15	20	571	611	571	686	686	63 A	184	172	100/63 AV	184	172	-	M40 x 1.5	4L	35
IE3-K11R 160 L4 Ex e IIC	45	45	160	18	413	***	439	138	15	20	659	699	659	774	774	63 A	184	172	100/63 AV	184	172	-	M40 x 1.5	4L	35

**) Terminal box left/right

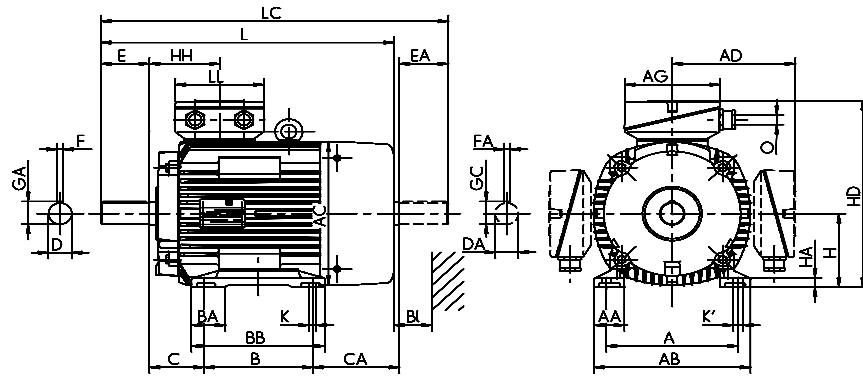
***) upon request

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ^{*)}	E	EA	F	FA
		b	n	f	g	g1	VIK g1	a	m	e	w1	w2	d	d1		l	l1	u	u1
IE3-K11R 180 M4 Ex e IIC	FF300	279	62	328	351	272	298	241	65	288	121	214	48	42	M16	110	110	14	14
IE3-K11R 180 L4 Ex e IIC	FF300	279	62	328	351	272	298	279	65	326	121	226	48	48	M16	110	110	14	14
IE3-K11R 200 L4C Ex e IIC	FF350	318	70	372	390	313	378	305	70	360	133	233	55	48	M20	110	110	16	16
IE3-K11R 225 S4 Ex e IIC	FF400	356	75	413	440	324	406	286	75	343	149	267	60	55	M20	140	110	18	16
IE3-K11R 225 M4 Ex e IIC	FF400	356	75	413	440	324	406	311	75	368	149	267	60	55	M20	140	110	18	16
IE3-K11R 250 M4 Ex e IIC	FF500	406	84	469	490	397	397	349	84	412	168	275	65	55	M20	140	110	18	16
IE3-K11R 280 S4 Ex e IIC	FF500	457	88	522	550	427	427	368	94	431	190	384	75	65	M20	140	140	20	18
IE3-K11R 280 M4 Ex e IIC	FF500	457	88	522	550	427	427	419	94	482	190	384	75	65	M20	140	140	20	18
IE3-K11R 132 S6 Ex e IIC	FF265	216	50	256	217	189	189	140	55	180	89	223	38	32	M12	80	80	10	10
IE3-K11R 132 M6 Ex e IIC	FF265	216	50	256	258	210	210	178	55	218	89	138	38	32	M12	80	80	10	10
IE3-K11R 132 MX6 Ex e IIC	FF265	216	50	256	258	210	210	178	47	218	89	236	38	38	M12	80	80	10	10
IE3-K11R 160 M6 Ex e IIC	FF300	254	55	296	313	249	242	210	56	257	108	186	42	38	M16	110	110	12	12
IE3-K11R 160 L6C Ex e IIC	FF300	254	55	296	313	249	242	254	60	301	108	192	42	42	M16	110	110	12	12
IE3-K11R 180 L6C Ex e IIC	FF300	279	62	328	351	272	298	279	65	326	121	176	48	42	M16	110	110	14	14
IE3-K11R 200 L6 Ex e IIC	FF350	318	70	372	390	313	378	305	70	360	133	233	55	48	M20	110	110	16	16
IE3-K11R 200 LX6 Ex e IIC	FF350	318	70	372	390	313	378	305	70	360	133	233	55	48	M20	110	110	16	16
IE3-K11R 225 M6 Ex e IIC	FF400	356	75	413	440	324	406	311	75	368	149	267	60	55	M20	140	110	18	16
IE3-K11R 250 M6 Ex e IIC	FF500	406	84	469	490	397	397	349	84	412	168	275	65	55	M20	140	110	18	16
IE3-K11R 280 S6 Ex e IIC	FF500	457	88	522	550	427	427	368	94	431	190	380	75	65	M20	140	140	20	18
IE3-K11R 280 M6 Ex e IIC	FF500	457	88	522	550	427	427	419	94	482	190	380	75	65	M20	140	140	20	18
IE3-K11R 132 S8 Ex e IIC	FF265	216	50	256	217	189	189	140	55	180	89	223	38	32	M12	80	80	10	10
IE3-K11R 132 M8 Ex e IIC	FF265	216	50	256	258	210	210	178	55	218	89	138	38	32	M12	80	80	10	10
IE3-K11R 160 M8 Ex e IIC	FF265	254	55	296	258	210	210	210	55	257	108	148	42	38	M16	110	110	12	12
IE3-K11R 160 MX8 Ex e IIC	FF300	254	55	296	313	249	242	210	60	257	108	148	42	42	M16	110	110	12	12
IE3-K11R 160 L8 Ex e IIC	FF300	254	55	296	313	249	242	254	60	301	108	148	42	42	M16	110	110	12	12
IE3-K11R 180 L8 Ex e IIC	FF300	279	62	328	351	272	298	279	65	326	121	226	48	42	M16	110	110	14	14
IE3-K11R 200 L8 Ex e IIC	FF350	318	70	372	351	268	301	305	70	360	133	188	55	48	M20	110	110	16	14
IE3-K11R 225 S8 Ex e IIC	FF400	356	75	413	390	302	380	286	75	343	149	286	60	55	M20	140	110	18	16
IE3-K11R 225 M8 Ex e IIC	FF400	356	75	413	440	324	406	349	84	412	149	267	60	55	M20	140	110	18	16
IE3-K11R 250 M8 Ex e IIC	FF500	406	84	469	490	397	397	349	84	412	168	275	65	55	M20	140	110	18	16
IE3-K11R 280 S8 Ex e IIC	FF500	457	94	522	490	397	397	368	94	431	190	229	75	65	M20	140	140	20	18
IE3-K11R 280 M8 Ex e IIC	FF500	457	88	522	550	427	427	419	94	482	190	380	75	65	M20	140	140	20	18

^{*)} Centre holes to DIN 332-DS ...

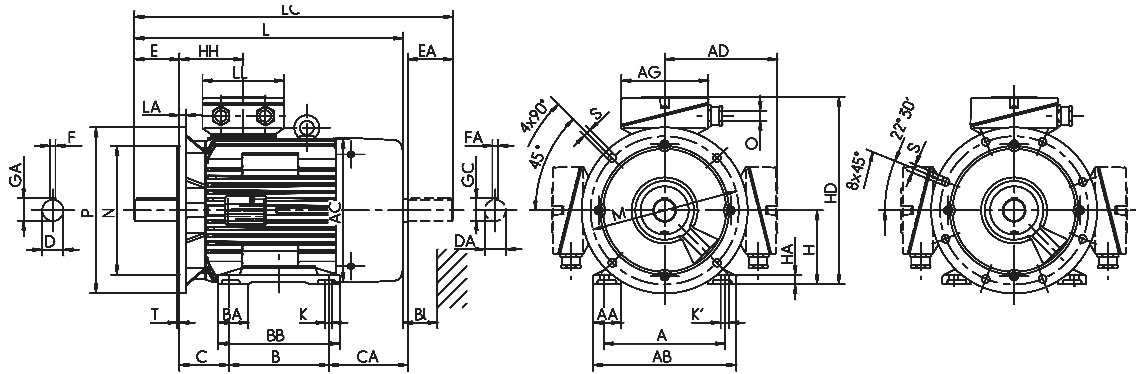
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7
(VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	L'	L	LC	LC	TB Type	AG	LL	TB Type	AG	LL	AH	O	LB	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k	k	k1	k1	Ex e IIC	x	z	Ex e IIC	x	z	-	-	-	BI
IE3-K11R 180 M4 Ex e IIC	51.5	51.5	180	20	452	***	478	147	15	20	680	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 180 L4 Ex e IIC	51.5	51.5	180	20	452	***	478	147	15	20	730	770	730	846	846	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 200 L4C Ex e IIC	59	59	200	22	513	***	578	168	19	25	767	807	767	891	891	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE3-K11R 225 S4 Ex e IIC	64	59	225	25	549	***	631	177	19	25	912	997	912	1027	1027	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 225 M4 Ex e IIC	64	59	225	25	549	***	631	177	19	25	912	997	912	1027	1027	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 250 M4 Ex e IIC	69	59	250	28	647	***	647	206	24	30	924	1009	924	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE3-K11R 280 S4 Ex e IIC	79.5	69	280	40	707	***	707	211	24	30	1050	1160	1050	1218	1218	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 M4 Ex e IIC	79.5	69	280	40	707	***	707	211	24	30	1105	1215	1105	1273	1273	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 132 S6 Ex e IIC	41	35	132	16	321	***	321	108	12	12	479	519	479	562	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 M6 Ex e IIC	41	35	132	16	341	***	341	114	12	12	481	521	481	565	565	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 M6 Ex e IIC	41	41	132	15	331	***	331	114	12	12	579	619	579	663	663	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 M6 Ex e IIC	45	45	160	18	413	***	439	138	15	20	609	649	609	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 160 L6C Ex e IIC	45	45	160	18	413	***	439	138	15	20	659	699	659	774	774	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 180 L6C Ex e IIC	51.5	51.5	180	20	452	***	478	147	15	20	680	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 200 L6 Ex e IIC	59	59	200	22	513	***	578	168	19	25	767	807	767	891	891	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE3-K11R 200 LX6 Ex e IIC	59	59	200	22	513	***	578	168	19	25	817	875	817	941	941	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE3-K11R 225 M6 Ex e IIC	64	59	225	25	562	***	631	177	19	25	912	997	912	1027	1027	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 250 M6 Ex e IIC	69	59	250	28	647	***	647	206	24	30	924	1009	924	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE3-K11R 280 S6 Ex e IIC	79.5	69	280	40	707	***	707	211	24	30	1050	1160	1050	1218	1218	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 M6 Ex e IIC	79.5	69	280	40	707	***	707	211	24	30	1050	1160	1050	1218	1218	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 132 S8 Ex e IIC	41	35	132	16	321	***	321	108	12	12	479	519	479	562	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 M8 Ex e IIC	41	35	132	16	341	***	341	114	12	12	481	521	481	564	564	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 M8 Ex e IIC	45	45	160	18	369	***	369	114	15	12	559	599	559	643	643	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 MX8 Ex e IIC	45	45	160	18	413	***	439	138	15	20	571	649	571	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.4	4L	35
IE3-K11R 160 L8 Ex e IIC	45	45	160	18	413	***	439	138	15	20	571	649	571	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 180 L8 Ex e IIC	51.5	51.5	180	20	452	***	478	147	15	20	680	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 200 L8 Ex e IIC	59	51.5	200	22	468	***	478	147	19	25	680	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	4L	35
IE3-K11R 225 S8 Ex e IIC	64	59	225	25	527	***	605	168	19	25	757	797	757	881	881	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	40
IE3-K11R 225 M8 Ex e IIC	64	59	225	25	549	***	631	177	19	25	862	997	862	977	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 250 M8 Ex e IIC	69	59	250	28	647	***	647	206	24	30	924	1009	924	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE3-K11R 280 S8 Ex e IIC	79.5	69	280	40	677	***	677	211	24	30	1050	1160	1050	1218	1218	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 M8 Ex e IIC	79.5	69	280	40	707	***	707	211	24	30	1050	1160	1050	1218	1218	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55

**) Terminal box left/right

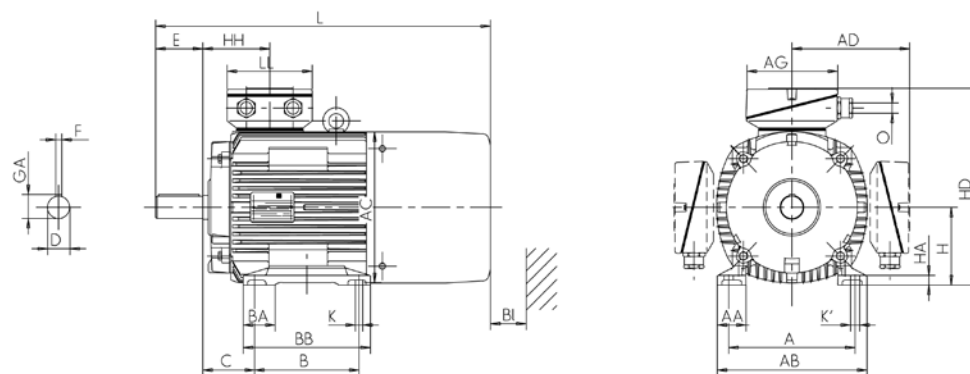
***) upon request

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BB	C	D	DB ¹⁾	E	F
		b	n	f	g	g1	g1	a	m	e	w1	d		l	u
IE3-K11R 132 S2 G Ex e IIC	FF265	216	50	256	217	189	189	140	55	180	89	38	M12	80	10
IE3-K11R 132 SX2 G Ex e IIC	FF265	216	50	256	258	210	237	140	47	180	89	38	M12	80	10
IE3-K11R 160 M2 G Ex e IIC	FF300	254	55	296	313	253	279	210	60	257	108	42	M16	110	12
IE3-K11R 160 MX2 G Ex e IIC	FF300	254	55	296	313	253	279	210	60	257	108	42	M16	110	12
IE3-K11R 160 L2 G Ex e IIC	FF300	254	55	296	313	253	279	254	60	301	108	42	M16	110	12
IE3-K11R 180 M2C G Ex e IIC	FF300	279	62	328	351	272	298	241	65	288	121	48	M16	110	14
IE3-K11R 200 L2 G Ex e IIC	FF350	318	70	390	390	313	378	305	70	360	133	55	M20	110	16
IE3-K11R 200 LX2 G Ex e IIC	FF350	318	70	390	390	313	378	305	70	360	133	55	M20	110	16
IE3-K11R 225 M2 G Ex e IIC	FF400	356	75	440	440	324	406	311	75	368	149	55	M20	110	16
IE3-K11R 250 M2 G Ex e IIC	FF500	406	84	469	490	397	397	349	84	374	168	60	M20	140	18
IE3-K11R 280 S2 G Ex e IIC	FF500	457	94	522	490	397	397	368	96	431	190	65	M20	140	18
IE3-K11R 280 M2 G Ex e IIC	FF500	457	88	522	550	427	427	419	94	482	190	65	M20	140	18

¹⁾ Centre holes to DIN 332-DS ...

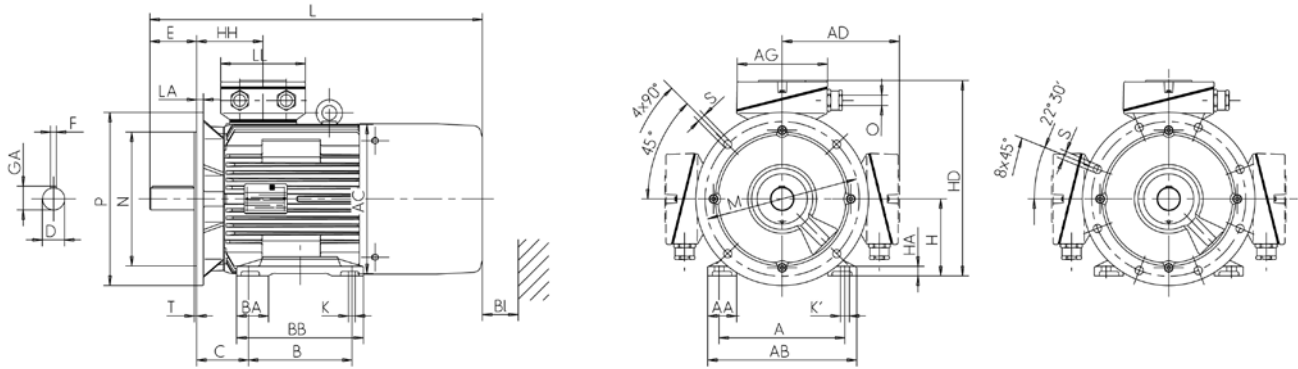
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	H	HA	HD	HD ^(*)	HD	HH	K	K'	L	L	L	TB Type	AG	LL	TB Type	AG	LL	AH	O	LB	BI
	t	h	c	p	p	p	A	s	s'	k	k (IM V1)	k (IM B5)	Ex e IIC Standard	x	z	Ex e IIC VIK	x	z	-	-		BI
IE3-K11R 132 S2 G Ex e IIC	41	132	16	321	***)	321	108	12	12	584	729	584	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 SX2 G Ex e IIC	41	132	15	342	***)	342	114	12	12	596	636	596	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 M2 G Ex e IIC	45	160	18	413	***)	439	138	15	20	699	739	699	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 160 MX2 G Ex e IIC	45	160	18	413	***)	439	138	15	20	737	777	737	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 160 L2 G Ex e IIC	45	160	18	413	***)	439	138	15	20	736	777	736	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 180 M2C G Ex e IIC	51.5	180	20	452	***)	478	147	15	20	827	867	827	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 200 L2 G Ex e IIC	59	200	22	513	***)	578	168	19	25	829	869	829	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	40
IE3-K11R 200 LX2 G Ex e IIC	59	200	22	513	***)	578	168	19	25	829	869	829	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	40
IE3-K11R 225 M2 G Ex e IIC	59	225	25	549	***)	631	177	19	25	897	982	897	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 250 M2 G Ex e IIC	64	250	28	647	***)	647	206	24	30	1004	1089	1004	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 S2 G Ex e IIC	69	280	32	677	***)	677	206	24	30	1050	1055	1050	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 M2 G Ex e IIC	69	280	40	707	***)	707	211	24	30	1190	1300	1190	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55

^(*) Terminal box left/right

^{***)} upon request

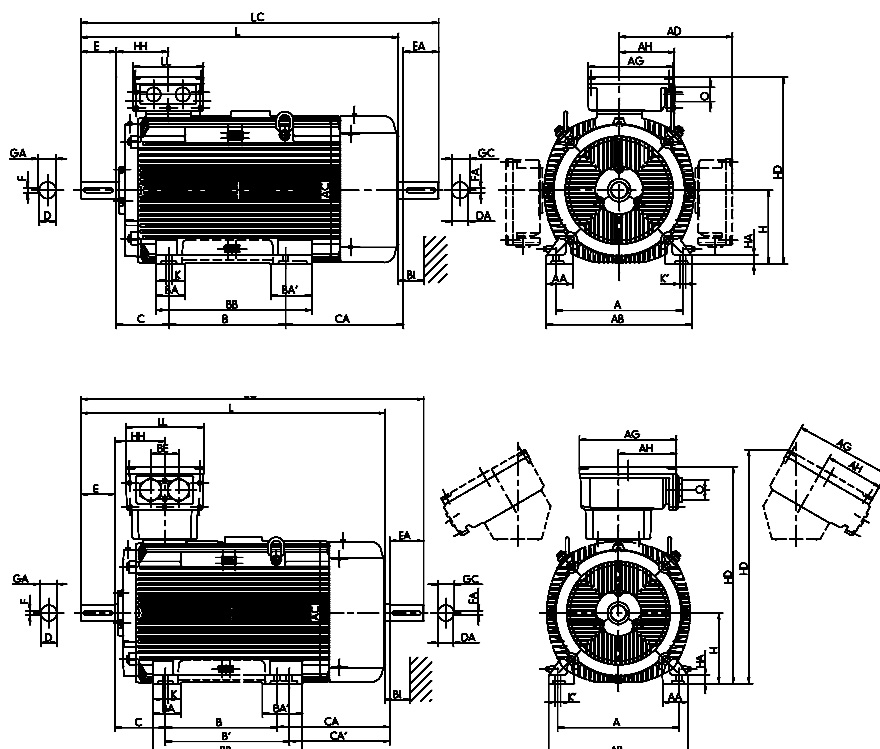
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Size 315

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BA'	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	g1	g1	a	m	m1	e	w1	w2	d	d1		l	l1	u	u1
IE3-K11R 315 S2 Ex e IIC	FF600	508	126	590	550	460	460	406	120	150	503	216	316	65	65	M20	140	140	18	18
IE3-K11R 315 M2 Ex e IIC	FF600	508	126	590	550	460	460	457	120	150	554	216	320	65	65	M20	140	140	18	18
IE3-K11R 315 MY2 Ex e IIC	FF600	508	110	590	610	681	681	457	120	-	573	216	495	65	65	M20	140	140	18	18
IE3-K11R 315 L2 Ex e IIC	FF600	508	110	590	610	681	681	508	120	-	624	216	564	65	65	M20	140	140	18	18
IE3-K11R 315 LX2 Ex e IIC	FF600	508	110	590	610	681	681	508	120	-	624	216	684	65	65	M20	140	140	18	18
IE3-K11R 315 S4 Ex e IIC	FF600	508	126	590	550	460	460	406	120	150	554	216	400	80	70	M20	170	140	22	20
IE3-K11R 315 M4 Ex e IIC	FF600	508	110	590	610	681	681	457	120	150	554	216	495	80	70	M20	170	140	22	20
IE3-K11R 315 MY4 Ex e IIC	FF600	508	110	590	610	681	681	457	120	120	573	216	495	80	70	M20	170	140	22	20
IE3-K11R 315 L4 Ex e IIC	FF600	508	110	590	610	681	681	508	120	120	624	216	684	80	70	M20	170	140	22	20
IE3-K11R 315 LX4 Ex e IIC	FF600	508	110	590	610	681	681	508	120	120	624	216	684	80	70	M20	170	140	22	20
IE3-K11R 315 S6 Ex e IIC	FF600	508	110	590	610	681	681	406	120	150	554	216	495	80	70	M20	170	140	22	20
IE3-K11R 315 M6 Ex e IIC	FF600	508	110	590	610	681	681	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE3-K11R 315 MY6 Ex e IIC	FF600	508	110	590	610	681	681	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE3-K11R 315 L6 Ex e IIC	FF600	508	110	590	610	681	681	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE3-K11R 315 LX6 Ex e IIC	FF600	508	110	590	610	681	681	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE3-K11R 315 S8 Ex e IIC	FF600	508	126	590	550	681	460	406	120	150	503	216	371	80	70	M20	170	140	22	20
IE3-K11R 315 M8 Ex e IIC	FF600	508	126	590	550	681	460	457	120	150	554	216	371	80	70	M20	170	140	22	20
IE3-K11R 315 MY8 Ex e IIC	FF600	508	110	590	610	681	681	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE3-K11R 315 L8 Ex e IIC	FF600	508	110	590	610	681	681	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE3-K11R 315 LX8 Ex e IIC	FF600	508	110	590	610	681	681	508	120	-	624	216	564	80	70	M20	170	140	22	20

¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

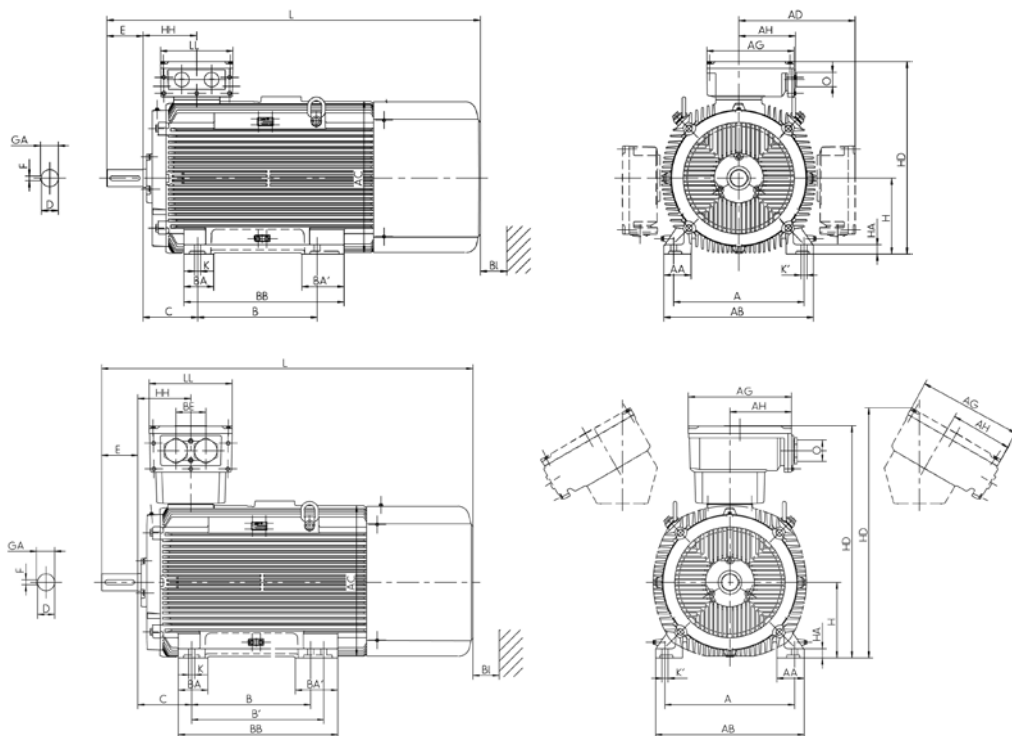
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Size 315

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BA'	BB	C	D	DA	DB ¹⁾	E	F
		b	n	f	g	g1	VIK g1	a	m	m1	e	w1	d	d1		l	u
IE3-K11R 315 S2 G Ex e IIC	FF600	508	126	590	550	460	460	406	120	150	503	216	65	-	M20	140	18
IE3-K11R 315 M2 G Ex e IIC	FF600	508	126	590	550	460	460	457	120	150	554	216	65	65	M20	140	18
IE3-K11R 315 MY2 G Ex e IIC	FF600	508	110	590	610	681	681	457	120	-	573	216	65	65	M20	140	18
IE3-K11R 315 L2 G Ex e IIC	FF600	508	110	590	610	681	681	508	120	-	624	216	65	65	M20	140	18
IE3-K11R 315 LX2 G Ex e IIC	FF600	508	110	590	610	681	681	508	120	-	624	216	65	65	M20	140	18

¹⁾ Centre holes to DIN 332-DS ...

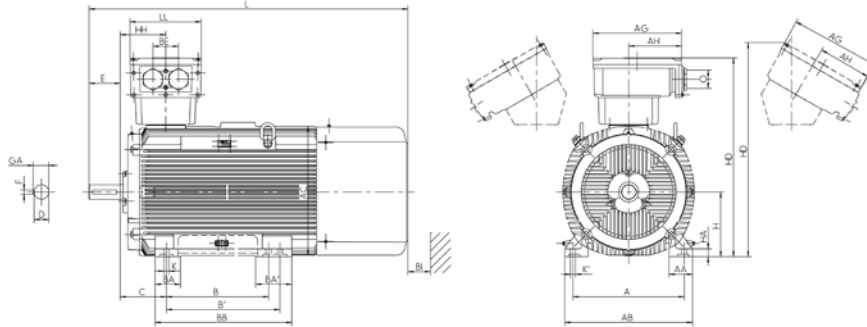
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

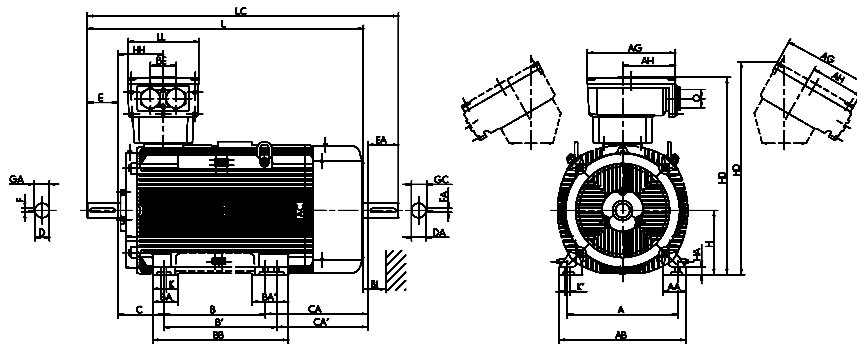
Type of construction IM B3 [IM 1001]

Size 355 to 400, 2-pole



Type of construction IM B3 [IM 1001]

Size 355 to 400, 4- to 8-pole



Type designation	Flange size	A	AA	AB	AC	B	BA	BA'	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	a	m	m1	e	w1	w2	d	d1		l	l1	u	u1
IE3-K12R 355 M2G Ex e IIC	FF740	610	130	700	715	560	140	200	750	254	561	80	-	M20	170	-	22	-
IE3-K12R 355 MX2G Ex e IIC	FF740	610	130	700	715	560	140	200	750	254	761	80	-	M21	170	-	22	-
IE3-K12R 355 LY2G, L2G Ex e IIC	FF740	610	130	700	715	630	140	200	750	254	691	80	-	M22	170	-	22	-
IE3-W42R 355 MX2G Ex e IIC	FF 740	610	130	700	715	560	140	200	750	254	761	80	-	M20	170	-	22	-
IE3-W42R 355 L2G Ex e IIC	FF 740	610	130	700	715	630	140	200	750	254	691	80	-	M20	170	-	22	-
IE3-K11R 355 M4 Ex e IIC	FF740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-K11R 355 MX4 Ex e IIC	FF740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-K11R 355 L6 Ex e IIC	FF740	610	130	700	715	630	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-K12R 355 M6 Ex e IIC	FF740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-K12R 355 MX6 Ex e IIC	FF740	610	130	700	715	560	140	200	750	254	681	100	80	M24	210	170	28	22
IE3-K12R 355 L6 Ex e IIC	FF740	610	130	700	715	630	140	200	750	254	611	100	80	M24	210	170	28	22
IE3-K12R 355 M8 Ex e IIC	FF740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-K12R 355 MX8 Ex e IIC	FF740	610	130	700	715	560	140	200	750	254	681	100	80	M24	210	170	28	22
IE3-K12R 355 L8 Ex e IIC	FF740	610	130	700	715	630	140	200	750	254	611	100	80	M24	210	170	28	22
IE3-W42R 355 MX4 Ex e IIC	FF 740	610	130	700	715	560	140	200	750	254	761	100	80	M24	210	170	28	22
IE3-W42R 355 MX6, 8 Ex e IIC	FF 740	610	130	700	715	560	140	200	750	254	761	100	80	M24	210	170	28	22
IE3-W42R 355 L4 Ex e IIC	FF 740	610	130	700	715	630	140	200	750	254	691	100	80	M24	210	170	28	22
IE3-W42R 355 L6, 8 Ex e IIC	FF 740	610	130	700	715	630	140	200	750	254	691	100	80	M24	210	170	28	22
IE3-W42R 400 M2G, MX2G Ex e IIC	FF940	686	178	820	800	630	180	240	900	280	930	80	-	M20	170	-	22	-
IE3-W42R 400 L2G Ex e IIC	FF940	686	178	820	800	710	180	240	900	280	850	80	-	M20	170	-	22	-
IE3-W42R 400 M, MX 4, 6, 8 Ex e IIC	FF940	686	178	820	800	630	180	240	900	280	930	110	80	M24	210	170	28	22
IE3-W42R 400 L4, 6, 8 Ex e IIC	FF940	686	178	820	800	710	180	240	900	280	850	110	80	M24	210	170	28	22

¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

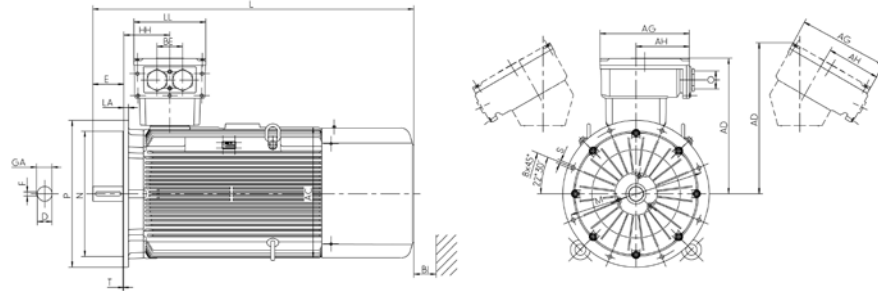
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B35 [IM 2001]

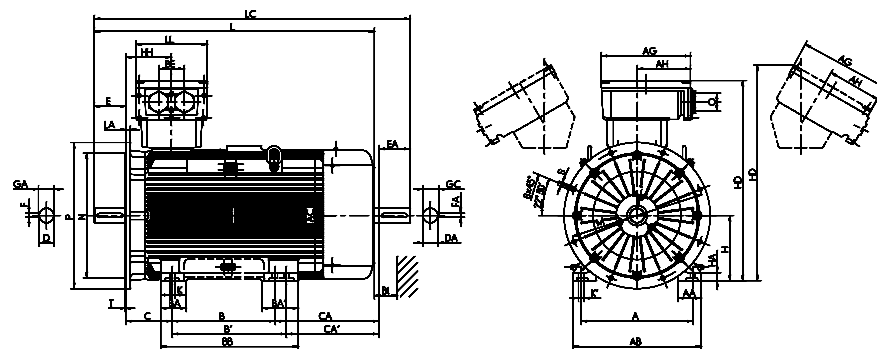
Size 355 to 400, 2-pole

Flange dimensions, see page 10/6



Type of construction IM B35 [IM 2001]

Size 355 to 400, 4- to 8-pole



Type designation	GA	GC	H	HA	HD	HD**)	HH	K	K'	L	LC	TB Type Ex e IIC Standard/ VIK	AG	LL	AH	BE	O	BI
	t	t1	h	c	p	p	A	s	s'	k	k1	VIK	x	z	-	-	r	BI
IE3-K12R 355 M2G Ex e IIC	85	-	355	44	1088	1088	250	28	35	1530	-	630 A	496	390	301	140	M75 x 1.5	60
IE3-K12R 355 MX2G Ex e IIC	85	-	355	44	1084	1084	327	28	35	1730	-	1000 A	615	474	385	200	M75 x 1.5	60
IE3-K12R 355 LY2G, L2G Ex e IIC	85	-	355	44	1084	1084	327	28	35	1730	-	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 355 MX2G Ex e IIC	85	-	355	44	1084	1172	327	28	35	1730	-	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 355 L2G Ex e IIC	85	-	355	44	1084	1172	327	28	35	1730	-	1000 A	615	474	385	200	M75 x 1.5	60
IE3-K11R 355 M 4 Ex e IIC	106	85	355	44	1088	1088	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	60
IE3-K11R 355 MX4 Ex e IIC	106	85	355	44	1088	1088	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-K11R 355 L6 Ex e IIC	106	85	355	44	1084	1084	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-K12R 355 M6 Ex e IIC	106	85	355	44	1088	1088	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	60
IE3-K12R 355 MX6 Ex e IIC	106	85	355	44	1088	1088	365	28	35	1770	1955	630 A	496	390	301	140	M75 x 1.5	60
IE3-K12R 355 L6 Ex e IIC	106	85	355	44	1084	1084	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-K12R 355 M8 Ex e IIC	106	85	355	44	1088	1088	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	60
IE3-K12R 355 MX8 Ex e IIC	106	85	355	44	1088	1088	265	28	35	1770	1955	630 A	496	390	301	140	M75 x 1.5	60
IE3-K12R 355 L8 Ex e IIC	106	85	355	44	1084	1084	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 355 MX4 Ex e IIC	106	85	355	44	1084	1172	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 355 MX6, 8 Ex e IIC	106	85	355	44	1088	1166	327	28	35	1770	1955	630 A	496	390	301	140	M75 x 1.5	60
IE3-W42R 355 L4 Ex e IIC	106	85	355	44	1084	1172	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 355 L6, 8 Ex e IIC	106	85	355	44	1084	1172	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 400 M, MX 2	85	-	400	50	1213	1273	339	35	42	1963	-	1000 A	615	474	385	200	M80 x 1.5	100
IE3-W42R 400 L2	85	-	400	50	1213	1273	339	35	42	1963	-	1000 A	615	474	385	200	M80 x 1.5	100
IE3-W42R 400 M, MX 4, 6, 8	116	85	400	50	1213	1273	339	35	42	2003	2201	1000 A	615	474	385	200	M80 x 1.5	100
IE3-W42R 400 L4, 6, 8	116	85	400	50	1213	1273	339	35	42	2003	2201	1000 A	615	474	385	200	M80 x 1.5	100

** Terminal box left/right

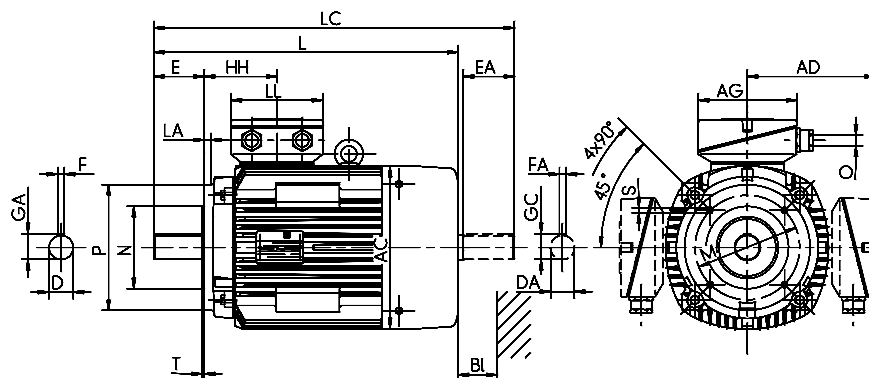
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B14 [IM 3601]

Flange dimensions, see page 10/6



Type designation			A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
	B14K, B34K	B14G, B34G	b	n	f	g	g1	g1	a	m	e	w1	w2	d	d1	l	l1	u	u1	
IE3-KPER 63 G2 Ex e IIC	FT75	FT100	100	28	128	109	116.5	116.5	80	-	100	40	39	11	11	M4	23	23	4	4
IE3-KPR 63 KY2 Ex e IIC	FT75	FT100	100	21	120	124	123	123	80	-	95	40	59	11	11	M4	23	23	4	4
IE3-KPER 63 G4 Ex e IIC	FT75	FT100	100	28	128	109	116.5	116.5	80	-	100	40	39	11	11	M4	23	23	4	4
IE3-KPR 63 G4 Ex e IIC	FT75	FT100	100	21	120	124	123	123	80	-	95	40	59	11	11	M4	23	23	4	4
IE3-KPER 71 G2 Ex e IIC	FT85	FT115	112	32	138	124	123	123	90	-	116	45	44	14	14	M5	30	30	5	5
IE3-KPR 71 K4 Ex e IIC										***)										
IE3-KPR 71 G4 Ex e IIC	FT85	FT115	112	23	135	139	130	130	90	-	114	45	63	14	14	M5	30	30	5	5
IE3-KPER 80 K2 Ex e IIC	FT100	FT130	125	38	168	139	111	111	100	-	124	50	63	19	19	M6	40	40	6	6
IE3-KPR 80 K2 Ex e IIC	FT100	FT130	125	26	152	157	138	138	100	-	124	50	80	19	19	M6	40	40	6	6
IE3-KPR 80 G2, 6 Ex e IIC	FT100	FT130	125	26	152	157	138	138	100	-	146	50	102	19	19	M6	40	40	6	6
IE3-KPR 80 K4 Ex e IIC	FT100	FT130								***)										
IE3-KPR 80 GX4 Ex e IIC	FT100	FT130	125	26	152	157	138	138	100	-	146	50	102	19	19	M6	40	40	6	6
IE3-KPR 90 S2 Ex e IIC	FT115	FT130	140	40	178	177	146	146	100	-	130	56	120	24	24	M8	50	50	8	8
IE3-KPR 90 L2 Ex e IIC	FT115	FT130	140	40	178	177	146	146	100	-	130	56	150	24	24	M8	50	50	8	8
IE3-KPR 90 L6 Ex e IIC	FT115	FT130	140	40	178	177	146	146	125	-	155	56	125	24	24	M8	50	50	8	8
IE3-KPR 90 S4 Ex e IIC	FT115	FT130	140	40	178	177	146	146	125	-	155	56	125	24	24	M8	50	50	8	8
IE3-KPR 90 LX4 Ex e IIC	FT115	FT130	140	40	178	177	146	146	125	-	155	56	150	24	24	M8	50	50	8	8
IE3-KPR 100 L2 Ex e IIC	FT130	FT165	160	42	193	196	155	155	140	-	175	63	102	28	28	M10	60	60	8	8
IE3-KPR 100 L4 Ex e IIC	FT130	FT165	160	42	193	196	155	155	140	-	175	63	166	28	28	M10	60	60	8	8
IE3-KPR 100 LZ4 Ex e IIC	FT130	FT165	160	42	193	196	155	155	140	-	175	63	206	28	28	M10	60	60	8	8
IE3-KPR 100 LX6 Ex e IIC	FT130	FT165	160	42	193	196	155	155	140	-	175	63	136	28	28	M10	60	60	8	8
IE3-KPER 112 MX2 Ex e IIC	FT130	FT165	190	52	225	196	155	155	140	-	180	70	127	28	28	M10	60	60	8	8
IE3-KPR 112 M4 Ex e IIC	FT130	C200	190	45	226	217	189	189	140	42	172	70	242	28	28	M10	60	60	8	8
IE3-KPER 112 MV6 Ex e IIC	FT130	FT165	190	52	225	196	155	155	140	-	180	70	159	28	28	M10	60	60	8	8
IE3-KPER 132 S2T Ex e IIC	FT165	FT215	216	52	257	196	155	155	140	-	180	89	159	38	28	M12	80	60	10	8
IE3-K11R 112 M2 Ex e IIC	FT130	C200	190	45	226	217	189	189	140	42	172	70	192	28	28	M10	60	60	8	8
IE3-K11R 132 S2 Ex e IIC	FT130	C200	216	50	256	217	209	209	140	55	180	89	173	38	32	M12	80	80	10	10
IE3-K11R 132 SX2 Ex e IIC	FT165	C250	216	50	256	258	209	209	140	47	180	89	176	38	32	M12	80	80	10	10
IE3-K11R 160 M2 Ex e IIC	FT215	C300	254	55	296	313	253	279	210	60	257	108	148	42	42	M16	110	110	12	12
IE3-K11R 160 MX2 Ex e IIC	FT215	C300	254	55	296	313	253	279	210	60	257	108	186	42	42	M17	110	110	12	12
IE3-K11R 160 L2 Ex e IIC	FT215	C300	254	55	296	313	253	279	254	60	301	108	142	42	42	M16	110	110	12	12
IE3-K11R 132 S4 Ex e IIC	FT165	C250	216	50	256	258	209	209	140	47	180	89	186	38	32	M12	80	80	10	10
IE3-K11R 132 M4 Ex e IIC	FT165	C250	216	50	256	258	209	209	178	47	218	89	186	38	32	M12	80	80	10	10
IE3-K11R 160 M4 Ex e IIC	FT215	C300	254	55	296	313	253	279	210	60	257	108	148	42	42	M16	110	110	12	12
IE3-K11R 160 L4 Ex e IIC	FT215	C300	254	55	296	313	253	279	254	60	301	108	192	42	42	M16	110	110	12	12
IE3-K11R 132 S6 Ex e IIC	FT130	C200	216	50	256	217	189	189	140	55	180	89	223	38	32	M12	80	80	10	10
IE3-K11R 132 M6 Ex e IIC	FT165	C250	216	50	256	258	209	209	178	55	218	89	138	38	32	M12	80	80	10	10
IE3-K11R 132 MX6 Ex e IIC	FT165	C250	216	50	256	258	209	209	178	47	218	89	236	38	38	M12	80	80	10	10
IE3-K11R 160 M6 Ex e IIC	FT215	C300	254	55	296	313	253	279	210	56	257	108	186	42	42	M16	110	110	12	12
IE3-K11R 160 L6C Ex e IIC	FT215	C300	254	55	296	313	253	279	254	60	301	108	192	42	42	M16	110	110	12	12
IE3-K11R 132 S8 Ex e IIC	FT130	C200	216	50	256	217	189	189	140	55	180	89	223	38	32	M12	80	80	10	10
IE3-K11R 132 M8 Ex e IIC	FT165	C250	216	50	256	258	209	209	178	55	218	89	138	38	32	M12	80	80	10	10
IE3-K11R 160 M8 Ex e IIC	FT165	C250	254	55	296	258	209	209	210	55	257	108	148	42	42	M16	110	110	12	12
IE3-K11R 160 MX8 Ex e IIC	FT165	C250	254	55	296	313	253	279	210	60	257	108	148	42	42	M16	110	110	12	12
IE3-K11R 160 L8 Ex e IIC	FT215	C300	254	55	296	313	253	279	254	60	301	108	148	42	42	M16	110	110	12	12

¹⁾ Centre holes to DIN 332-DS ...

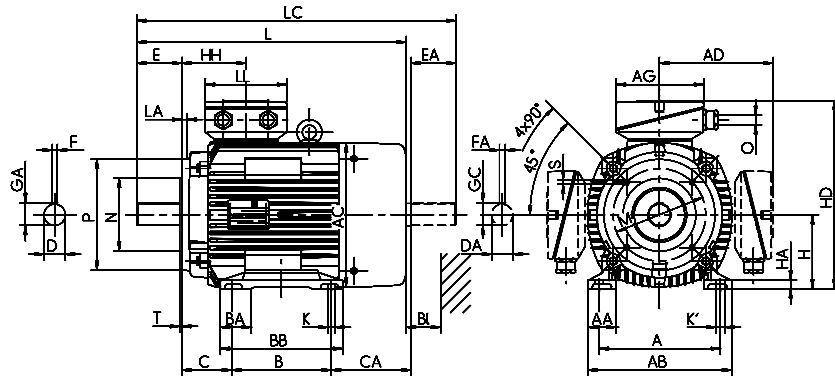
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B34 [IM 2101]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	L'	L''	LC	LC'	TB Type	AG	LL	TB Type	AG	LL	O	LB	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k	k	k1	k1	Ex e IIC Standard	x	z	Ex e IIC VIK	x	z			BI
IE3-KPER 63 G2 Ex e IIC	12.5	12.5	63	10	179.5	***	179.5	66.5	8	8	180	206	180	205	205	KA 05-13	104	112	KA 05-13	104	112	M20 x 1.5	4L	14
IE3-KPR 63 KY2 Ex e IIC	12.5	12.5	63	7.5	186	***	186	70	7	7	200	225	200	225	225	KA 05-13	104	112	KA 05-13	104	112	M20 x 1.5	4L	14
IE3-KPER 63 G4 Ex e IIC	12.5	12.5	63	10	179.5	***	179.5	66.5	8	8	180	206	180	205	205	KA 05-13	104	112	KA 05-13	104	112	M20 x 1.5	4L	14
IE3-KPR 63 G4 Ex e IIC	12.5	12.5	63	7.5	186	***	186	70	7	7	200	225	200	225	225	KA 05-13	104	112	KA 05-13	104	112	M20 x 1.5	4L	14
IE3-KPER 71 G2 Ex e IIC	16	16	71	11	193.5	***	193.5	70	8	8	207	233	207	239	239	KA 05-13	104	112	KA 05-13	104	112	M20 x 1.5	4L	14
IE3-KPR 71 K4 Ex e IIC														***										
IE3-KPR 71 G4 Ex e IIC	16	16	71	8	201	***	201	76	7	7	240	258	240	273	273	KA 05-13	104	112	KA 05-13	104	112	M20 x 1.5	4L	16
IE3-KPER 80 K2 Ex e IIC	21.5	21.5	80	12	210	***	210	76	10	10	250	279	250	293	293	KA 05-13	104	112	KA 05-13	104	112	M20 x 1.5	4L	16
IE3-KPR 80 K2 Ex e IIC	21.5	21.5	80	9	218	***	218	79	10	10	267	296	267	310	310	KA 05-13	104	112	KA 05-13	104	112	M20 x 1.5	4L	16
IE3-KPR 80 G2, 6 Ex e IIC	21.5	21.5	80	9	218	***	218	79	10	10	289	318	289	332	332	KA 05-13	104	112	KA 05-13	104	112	M20 x 1.5	4L	16
IE3-KPR 80 K4 Ex e IIC														***										
IE3-KPR 80 GX4 Ex e IIC	21.5	21.5	80	9	218	***	218	79	10	10	289	318	289	332	332	KA 05-13	104	112	KA 05-13	104	112	M20 x 1.5	4L	16
IE3-KPR 90 S2 Ex e IIC	27	27	90	10.5	236	***	236	84	10	10	323	390	323	376	415	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	18
IE3-KPR 90 L2 Ex e IIC	27	27	90	10.5	236	***	236	84	10	10	353	420	353	406	445	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	18
IE3-KPR 90 L6 Ex e IIC	27	27	90	10.5	236	***	236	84	10	10	353	420	353	406	445	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	18
IE3-KPR 90 S4 Ex e IIC	27	27	90	10.5	236	***	236	84	10	10	353	420	353	406	445	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	18
IE3-KPR 90 LX4 Ex e IIC	27	27	90	10.5	236	***	236	84	10	10	378	445	416	431	470	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	18
IE3-KPR 100 L2 Ex e IIC	31	31	100	13	255	***	255	86	12	12	359	388	359	425	459	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	20
IE3-KPR 100 L4 Ex e IIC	31	31	100	13	255	***	255	86	12	12	423	452	423	489	489	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	20
IE3-KPR 100 LZ4 Ex e IIC	31	31	100	13	255	***	255	86	12	12	463	492	463	529	529	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	20
IE3-KPR 100 LX6 Ex e IIC	31	31	100	13	255	***	255	86	12	12	393	422	393	459	459	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	20
IE3-KPER 112 MX2 Ex e IIC	31	31	112	18	267	***	267	86	12	12	392	418	392	459	459	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	20
IE3-KPR 112 M4 Ex e IIC	31	31	112	15	301	***	301	108	12	12	509	549	509	572	572	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-KPER 112 MV6 Ex e IIC	31	31	112	18	267	***	267	86	12	12	423	452	423	489	489	KA 05-13	104	112	KA 05-13	104	112	M25 x 1.5	4L	20
IE3-KPER 132 S2T Ex e IIC	41	41	132	18	287	***	287	105	12	12	462	491	462	528	528	KA 05-13	104	112	KA 05-13	104	112	M32 x 1.5	4L	20
IE3-K11R 112 M2 Ex e IIC	31	31	112	15	301	***	301	108	12	12	459	499	459	522	522	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 132 S2 Ex e IIC	41	41	132	16	321	***	321	108	12	12	479	519	479	562	562	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 132 SX2 Ex e IIC	41	41	132	15	341	***	441	114	12	12	481	521	481	565	565	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 160 M2 Ex e IIC	45	45	160	18	413	***	439	138	15	20	571	611	571	686	686	63 A	184	172	100/63 AV	184	172	M40 x 1.5	4L	35
IE3-K11R 160 MX2 Ex e IIC	45	45	160	18	413	***	439	138	15	20	609	649	609	724	724	63 A	184	172	100/63 AV	184	172	M40 x 1.5	4L	35
IE3-K11R 160 L2 Ex e IIC	45	45	160	18	413	***	439	138	15	20	609	649	609	724	724	63 A	184	172	100/63 AV	184	172	M40 x 1.5	4L	35
IE3-K11R 132 S4 Ex e IIC	41	41	132	15	341	***	341	114	12	12	529	569	529	613	613	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 132 M4 Ex e IIC	41	41	132	15	341	***	341	114	12	12	529	569	529	613	613	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 160 M4 Ex e IIC	45	45	160	18	413	***	439	138	15	20	571	611	571	686	686	63 A	184	172	100/63 AV	184	172	M40 x 1.5	4L	35
IE3-K11R 160 L4 Ex e IIC	45	45	160	18	413	***	439	138	15	20	659	699	659	774	774	63 A	184	172	100/63 AV	184	172	M40 x 1.5	4L	35
IE3-K11R 132 S6 Ex e IIC	41	41	132	16	321	***	321	108	12	12	479	519	479	562	562	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 132 M6 Ex e IIC	41	41	132	16	341	***	341	114	12	12	481	521	481	565	565	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 132 MX6 Ex e IIC	41	41	132	15	341	***	341	114	12	12	579	619	579	663	663	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 160 M6 Ex e IIC	45	45	160	18	413	***	439	138	15	20	609	649	609	724	724	63 A	184	172	100/63 AV	184	172	M40 x 1.5	4L	35
IE3-K11R 160 L6 Ex e IIC	45	45	160	18	413	***	439	138	15	20	659	699	659	774	774	63 A	184	172	100/63 AV	184	172	M40 x 1.5	4L	35
IE3-K11R 132 S8 Ex e IIC	41	41	132	16	321	***	321	108	12	12	479	519	479	562	562	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 132 M8 Ex e IIC	41	41	132	16	341	***	341	114	12	12	481	521	481	564	564	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 160 M8 Ex e IIC	45	45	160	18	370	***	370	114	15	12	559	599	559	643	643	63 A	184	172	25 AV	143	134	M40 x 1.5	4L	35
IE3-K11R 160 MX8 Ex e IIC	45	45	160	18	413	***	439	138	15	20	571	649	571	724	724	63 A	184	172	25 AV	143	134	M40 x 1.5	4L	35
IE3-K11R 160 L8 Ex e IIC	45	45	160	18	413	***	439	138	15	20	571	649	571	724	724	63 A	184	172	100/63 AV	184	172	M40 x 1.5	4L	35

**) Terminal box left/right

**) upon request

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

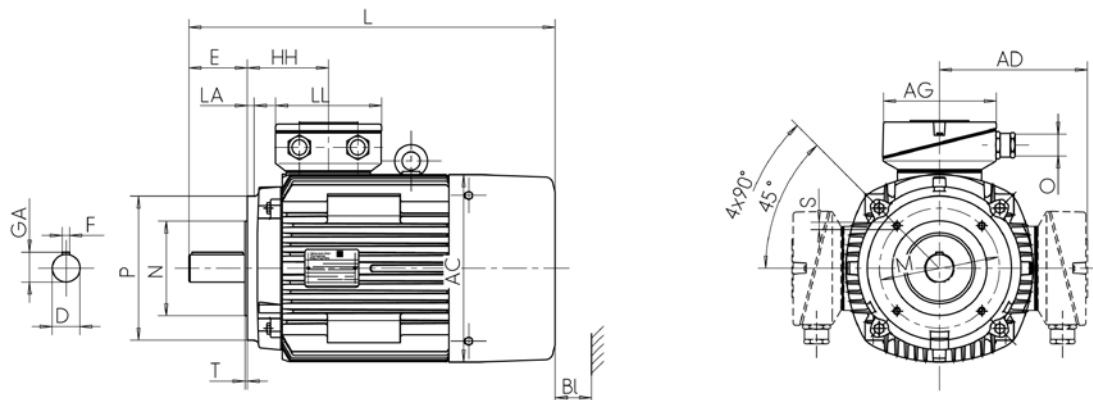
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Type of construction IM B14 [IM 3601]

Flange dimensions, see page 10/6



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BA'	BB	C	D	DB ¹⁾	E	F
		b	n	f	g	g1	VIK g1	a	m	m1	e	w1	d		l	u
IE3-K11R 132 S2 G Ex e IIC	FT130	C200	216	50	256	217	209	209	140	55	180	89	38	M12	80	10
IE3-K11R 132 SX2 G Ex e IIC	FT165	C250	216	50	256	258	209	209	140	47	180	89	38	M12	80	10
IE3-K11R 160 M2 G Ex e IIC	FT215	C300	254	55	296	313	253	279	210	60	257	108	42	M16	110	12
IE3-K11R 160 MX2 G Ex e IIC	FT215	C300	254	55	296	313	253	279	210	60	257	108	42	M16	110	12
IE3-K11R 160 L2 G Ex e IIC	FT215	C300	254	55	296	313	253	279	254	60	301	108	42	M16	110	12

¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

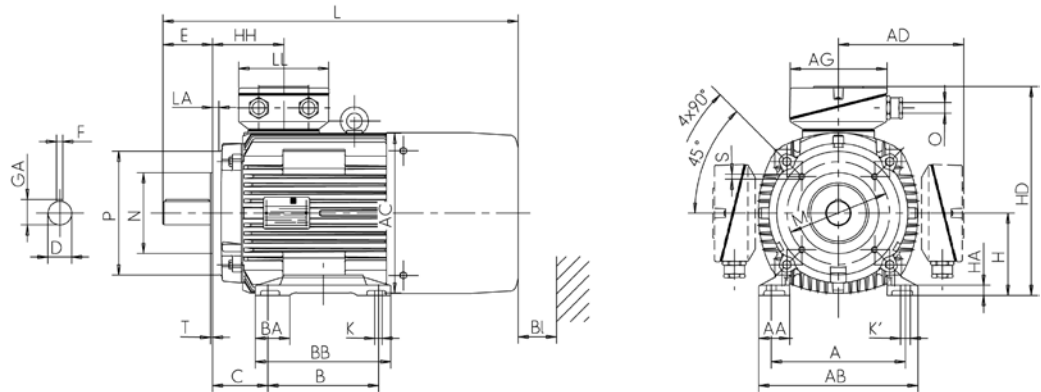
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Type of construction IM B34 [IM 2101]

Flange dimensions, see page 10/6



Type designation	GA	H	HA	HD	HD''	HD	HH	K	K'	L	L	L	TB Type	AG	LL	TB Type	AG	LL	O	LB	BI
	t	h	c	p	p	p	A	s	s'	k	k (IM V1)	k (IM B5)	Ex e IIC Standard	x	z	Ex e IIC VIK	x	z	-		BI
IE3-K11R 132 S2 G Ex e IIC	41	132	16	321	***)	321	108	12	12	584	724	689	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 132 SX2 G Ex e IIC	41	132	15	341	***)	341	114	12	12	596	636	481	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE3-K11R 160 M2 G Ex e IIC	45	160	18	413	***)	439	138	15	20	699	739	698	63 A	184	172	100/63 AV	222	214	M40 x 1.5	4L	35
IE3-K11R 160 MX2 G Ex e IIC	45	160	18	413	***)	439	138	15	20	737	777	736	63 A	184	172	100/63 AV	222	214	M40 x 1.5	4L	35
IE3-K11R 160 L2 G Ex e IIC	45	160	18	413	***)	439	138	15	20	737	777	736	63 A	184	172	100/63 AV	222	214	M40 x 1.5	4L	35

**) Terminal box left/right

***) upon request

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

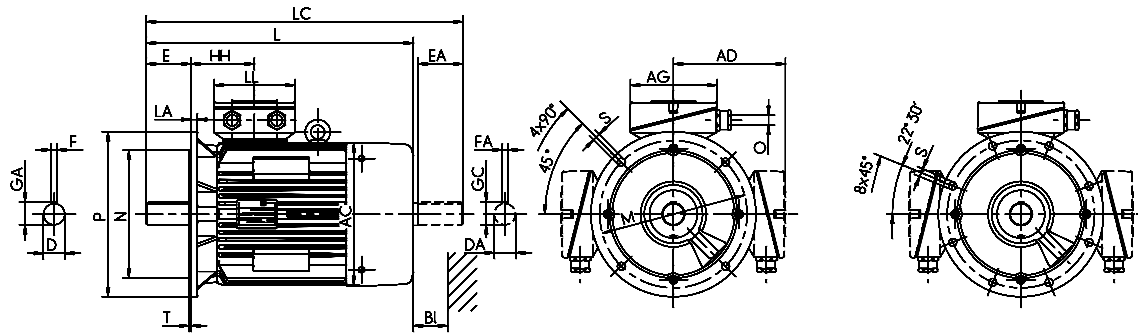
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6

Type designation	Flange B5	AC g	AD g1	AD VIK g1	D d	DA d1	DB ^{*)}	E l	EA l1	F u	FA u1	GA t	GC t1	H h	HH A	L k
IE3-KPER 63 G2 Ex e IIC	FF115	109	116.5	116.5	11	11	M4	23	23	4	4	12.5	12.5	63	66.5	180
IE3-KPR 63 KY2 Ex e IIC	FF130	124	123	123	11	11	M4	23	23	4	4	12.5	12.5	63	70	200
IE3-KPER 63 G4 Ex e IIC	FF115	109	116.5	116.5	11	11	M4	23	23	4	4	12.5	12.5	63	66.5	180
IE3-KPR 63 G4 Ex e IIC	FF130	124	123	123	11	11	M4	23	23	4	4	12.5	12.5	63	70	200
IE3-KPER 71 G2 Ex e IIC	FF130	124	123	123	14	14	M5	30	30	5	5	16	16	71	70	207
IE3-KPR 71 K4 Ex e IIC								***)								
IE3-KPR 71 G4 Ex e IIC	FF165	139	130	130	14	14	M5	30	30	5	5	16	16	71	76	240
IE3-KPER 80 K2 Ex e IIC	FF165	139	111	111	19	19	M6	40	40	6	6	21.5	21.5	80	76	250
IE3-KPR 80 K2 Ex e IIC	FF165	157	138	138	19	19	M6	40	40	6	6	21.5	21.5	80	79	267
IE3-KPR 80 G2, 6 Ex e IIC	FF165	157	138	138	19	19	M6	40	40	6	6	21.5	21.5	80	79	289
IE3-KPR 80 K4 Ex e IIC								***)								
IE3-KPR 80 GX4 Ex e IIC	FF165	157	138	138	19	19	M6	40	40	6	6	21.5	21.5	80	79	289
IE3-KPR 90 S2 Ex e IIC	FF165	177	146	146	24	24	M8	50	50	8	8	27	27	90	84	323
IE3-KPR 90 L2 Ex e IIC	FF165	177	146	146	24	24	M8	50	50	8	8	27	27	90	123	353
IE3-KPR 90 L6 Ex e IIC	FF165	177	146	146	24	24	M8	50	50	8	8	27	27	90	123	353
IE3-KPR 90 S4 Ex e IIC	FF165	177	146	146	24	24	M8	50	50	8	8	27	27	90	123	353
IE3-KPR 90 LX4 Ex e IIC	FF165	177	146	146	24	24	M8	50	50	8	8	27	27	90	123	378
IE3-KPR 100 L2 Ex e IIC	FF215	196	155	155	28	28	M10	60	60	8	8	31	31	100	86	359
IE3-KPR 100 L4 Ex e IIC	FF215	196	155	155	28	28	M10	60	60	8	8	31	31	100	86	423
IE3-KPR 100 LZ4 Ex e IIC	FF215	196	155	155	28	28	M10	60	60	8	8	31	31	100	86	463
IE3-KPR 100 LX6 Ex e IIC	FF215	196	155	155	28	28	M10	60	60	8	8	31	31	100	86	393
IE3-KPER 112 MX2 Ex e IIC	FF215	196	168	168	28	28	M10	60	60	8	8	31	31	112	86	392
IE3-KPR 112 M4 Ex e IIC	FF215	217	189	189	28	28	M10	60	60	8	8	31	31	112	108	509
IE3-KPER 112 MV6 Ex e IIC	FF215	196	155	155	28	28	M10	60	60	8	8	31	31	112	86	423
IE3-KPER 132 S2T Ex e IIC	FF265	196	155	155	38	28	M12	80	60	10	8	41	31	132	105	462
IE3-K11R 112 M2 Ex e IIC	FF215	217	189	189	28	28	M10	60	60	8	8	31	31	112	108	459
IE3-K11R 132 S2 Ex e IIC	FF265	217	189	189	38	32	M12	80	80	10	10	41	35	132	108	479
IE3-K11R 132 SX2 Ex e IIC	FF265	258	210	237	38	32	M12	80	80	10	10	41	35	132	114	481
IE3-K11R 160 M2 Ex e IIC	FF300	313	253	279	42	42	M16	110	110	12	12	45	45	160	138	571
IE3-K11R 160 MX2 Ex e IIC	FF300	313	253	279	42	42	M17	110	110	12	12	45	45	160	138	609
IE3-K11R 160 L2 Ex e IIC	FF300	313	253	279	42	42	M16	110	110	12	12	45	45	160	138	609
IE3-K11R 180 M2C Ex e IIC	FF300	351	272	298	48	48	M16	110	110	14	14	51.5	51.5	180	147	680
IE3-K11R 200 L2 Ex e IIC	FF350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168	767
IE3-K11R 200 LX2 Ex e IIC	FF350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168	767
IE3-K11R 225 M2 Ex e IIC	FF300	440	324	406	55	55	M20	110	110	16	16	59	59	225	177	832
IE3-K11R 250 M2 Ex e IIC	FF500	490	397	397	60	55	M20	140	110	18	18	64	59	250	206	924
IE3-K11R 280 S2 Ex e IIC	FF500	490	397	397	65	65	M20	140	140	18	18	69	69	280	206	970
IE3-K11R 280 M2 Ex e IIC	FF500	550	427	427	65	65	M20	140	140	18	18	69	69	280	211	1105
IE3-K11R 132 S4 Ex e IIC	FF265	258	210	237	38	32	M12	80	80	10	10	41	35	132	114	529
IE3-K11R 132 M4 Ex e IIC	FF265	258	210	237	38	32	M12	80	80	10	10	41	35	132	114	529
IE3-K11R 160 M4 Ex e IIC	FF300	313	253	279	42	42	M16	110	110	12	12	45	45	160	138	571
IE3-K11R 160 L4 Ex e IIC	FF300	313	253	279	42	42	M16	110	110	12	12	45	45	160	138	659
IE3-K11R 180 M4 Ex e IIC	FF300	351	272	298	48	48	M16	110	110	14	14	51.5	51.5	180	147	680
IE3-K11R 180 L4 Ex e IIC	FF300	351	272	298	48	48	M16	110	110	14	14	51.5	51.5	180	147	730
IE3-K11R 200 L4C Ex e IIC	FF350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168	767
IE3-K11R 225 M4 Ex e IIC	FF300	440	324	406	60	55	M20	140	110	18	16	64	59	225	177	912
IE3-K11R 225 M4 Ex e IIC	FF300	440	324	406	60	55	M20	140	110	18	16	64	59	225	177	912
IE3-K11R 250 M4 Ex e IIC	FF500	490	397	397	65	55	M20	140	110	18	16	69	59	250	206	924
IE3-K11R 280 S4 Ex e IIC	FF500	550	427	427	75	65	M20	140	140	20	18	79.5	69	280	211	1050
IE3-K11R 280 M4 Ex e IIC	FF500	550	427	427	75	65	M20	140	140	20	18	79.5	69	280	211	1105
IE3-K11R 132 S6 Ex e IIC	FF265	217	189	189	38	32	M12	80	80	10	10	41	35	132	108	479
IE3-K11R 132 M6 Ex e IIC	FF265	258	210	210	38	32	M12	80	80	10	10	41	35	132	114	481
IE3-K11R 132 MX6 Ex e IIC	FF265	258	210	210	38	38	M12	80	80	10	10	41	41	132	114	579
IE3-K11R 160 M6 Ex e IIC	FF300	313	249	242	42	42	M16	110	110	12	12	45	45	160	138	609
IE3-K11R 160 L6C Ex e IIC	FF300	313	249	242	42	42	M16	110	110	12	12	45	45	160	138	659
IE3-K11R 180 L6C Ex e IIC	FF300	351	272	298	48	48	M16	110	110	14	14	51.5	51.5	180	147	680



Type designation	L k (IM V1)	L k (IM B5)	LC k1	LC k1 (IM B5)	TB Type Ex e IIC Standard	AG x	LL z	TB Type Ex e IIC VIK	AG x	LL z	AH -	O -	LB	BI
IE3-KPER 63 G2 Ex e IIC	206	180	205	205	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	14
IE3-KPR 63 KY2 Ex e IIC	225	200	225	225	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	14
IE3-KPER 63 G4 Ex e IIC	206	180	205	205	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	14
IE3-KPR 63 G4 Ex e IIC	225	200	225	225	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	14
IE3-KPER 71 G2 Ex e IIC	233	207	239	239	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	14
IE3-KPR 71 K4 Ex e IIC					***)									
IE3-KPR 71 G4 Ex e IIC	258	240	273	273	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	16
IE3-KPER 80 K2 Ex e IIC	279	250	293	293	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	16
IE3-KPR 80 K2 Ex e IIC	296	267	310	310	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	16
IE3-KPR 80 G2, 6 Ex e IIC	318	289	332	332	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	16
IE3-KPR 80 K4 Ex e IIC					***)									
IE3-KPR 80 GX4 Ex e IIC	318	289	332	332	KA 05-13	104	112	KA 05-13	104	112	-	M20 x 1.5	4L	16
IE3-KPR 90 S2 Ex e IIC	390	323	376	415	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	18
IE3-KPR 90 L2 Ex e IIC	420	353	406	445	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	18
IE3-KPR 90 L6 Ex e IIC	420	353	406	445	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	18
IE3-KPR 90 S4 Ex e IIC	420	353	406	445	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	18
IE3-KPR 90 LX4 Ex e IIC	445	416	431	470	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	18
IE3-KPR 100 L2 Ex e IIC	388	359	425	425	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPR 100 L4 Ex e IIC	452	423	489	489	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPR 100 LZ4 Ex e IIC	492	463	529	529	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPR 100 LX6 Ex e IIC	422	393	459	459	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPER 112 MX2 Ex e IIC	418	392	459	459	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPR 112 M4 Ex e IIC	549	509	572	572	25 A	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPER 112 MV6 Ex e IIC	452	423	489	489	KA 05-13	104	112	KA 05-13	104	112	-	M25 x 1.5	4L	20
IE3-KPER 132 S2T Ex e IIC	491	462	528	528	KA 05-13	104	112	KA 05-13	104	112	-	M32 x 1.5	4L	20
IE3-K11R 112 M2 Ex e IIC	499	459	522	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 S2 Ex e IIC	619	479	562	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 SX2 Ex e IIC	521	481	565	565	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 M2 Ex e IIC	611	571	686	686	63 A	184	172	100/63 AV	222	214	-	M40 x 1.5	4L	35
IE3-K11R 160 MX2 Ex e IIC	649	609	724	724	63 A	184	172	100/63 AV	222	214	-	M40 x 1.5	4L	35
IE3-K11R 160 L2 Ex e IIC	649	609	724	724	63 A	184	172	100/63 AV	222	214	-	M40 x 1.5	4L	35
IE3-K11R 180 M2C Ex e IIC	720	680	796	796	63 A	184	172	100/63 AV	222	214	-	M40 x 1.5	4L	35
IE3-K11R 200 L2 Ex e IIC	807	767	891	891	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	40
IE3-K11R 200 LX2 Ex e IIC	807	767	891	891	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	40
IE3-K11R 225 M2 Ex e IIC	917	832	947	947	63 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 250 M2 Ex e IIC	1009	924	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 S2 Ex e IIC	1055	970	1118	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 M2 Ex e IIC	1215	1105	1273	1273	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 132 S4 Ex e IIC	569	529	613	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 M4 Ex e IIC	569	529	613	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 M4 Ex e IIC	611	571	686	686	63 A	184	172	100/63 AV	222	214	-	M40 x 1.5	4L	35
IE3-K11R 160 L4 Ex e IIC	699	659	774	774	63 A	184	172	100/63 AV	222	214	-	M40 x 1.5	4L	35
IE3-K11R 180 M4 Ex e IIC	720	680	796	796	63 A	184	172	100/63 AV	222	214	-	M40 x 1.5	4L	35
IE3-K11R 180 L4 Ex e IIC	770	730	846	846	63 A	184	172	100/63 AV	222	214	-	M40 x 1.5	4L	35
IE3-K11R 200 L4C Ex e IIC	807	767	891	891	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE3-K11R 225 M4 Ex e IIC	997	912	1027	1027	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 225 M4 Ex e IIC	997	912	1027	1027	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 250 M4 Ex e IIC	1009	924	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE3-K11R 280 S4 Ex e IIC	1160	1050	1218	1218	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 M4 Ex e IIC	1215	1105	1273	1273	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 132 S6 Ex e IIC	519	479	562	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 M6 Ex e IIC	521	481	565	565	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 MX6 Ex e IIC	619	579	663	663	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 M6 Ex e IIC	649	609	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 160 L6C Ex e IIC	699	659	774	774	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 180 L6C Ex e IIC	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35

***) upon request

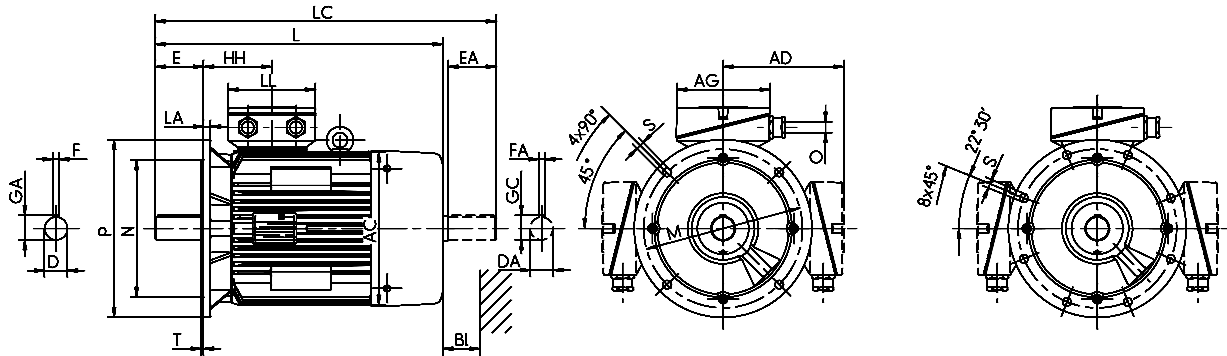
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange B5	AC	AD	AD VIK	D	DA	DB ¹⁾	E	EA	F	FA	GA	GC	H	HH	L
		g	g1	g1	d	d1		l	l1	u	u1	t	t1	h	A	k
IE3-K11R 200 L6 Ex e IIC	FF350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168	767
IE3-K11R 200 LX6 Ex e IIC	FF350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168	817
IE3-K11R 225 M6 Ex e IIC	FF300	440	324	406	60	55	M20	140	110	18	16	64	59	225	177	912
IE3-K11R 250 M6 Ex e IIC	FF500	490	397	397	65	55	M20	140	110	18	16	69	59	250	206	924
IE3-K11R 280 S6 Ex e IIC	FF500	550	427	427	75	65	M20	140	140	20	18	79.5	69	280	211	1050
IE3-K11R 280 M6 Ex e IIC	FF500	550	427	427	75	65	M20	140	140	20	18	79.5	69	280	211	1050
IE3-K11R 132 S8 Ex e IIC	FF265	217	189	189	38	32	M12	80	80	10	10	41	35	132	108	479
IE3-K11R 132 M8 Ex e IIC	FF265	258	210	210	38	32	M12	80	80	10	10	41	35	132	114	481
IE3-K11R 160 M8 Ex e IIC	FF265	258	210	210	42	42	M16	110	110	12	12	45	45	160	114	559
IE3-K11R 160 MX8 Ex e IIC	FF300	313	249	242	42	42	M16	110	110	12	12	45	45	160	138	571
IE3-K11R 160 L8 Ex e IIC	FF300	313	249	242	42	42	M16	110	110	12	12	45	45	160	138	571
IE3-K11R 180 L8 Ex e IIC	FF300	351	272	298	48	48	M16	110	110	14	14	51.5	51.5	180	147	680
IE3-K11R 200 L8 Ex e IIC	FF350	351	268	301	55	48	M20	110	110	16	14	59	51.5	200	147	680
IE3-K11R 225 S8 Ex e IIC	FF300	390	302	380	60	55	M20	140	110	18	16	64	59	225	168	757
IE3-K11R 225 M8 Ex e IIC	FF300	440	324	406	60	55	M20	140	110	18	16	64	59	225	177	862
IE3-K11R 250 M8 Ex e IIC	FF500	490	397	397	65	55	M20	140	110	18	16	69	59	250	206	924
IE3-K11R 280 S8 Ex e IIC	FF500	490	397	397	75	65	M20	140	140	20	18	79.5	69	280	211	1050
IE3-K11R 280 M8 Ex e IIC	FF500	550	427	427	75	65	M20	140	140	20	18	79.5	69	280	211	1050

¹⁾ Centre holes to DIN 332-DS ...

Type designation	L k (IM V1)	L k (IM B5)	LC k1	LC k1 (IM B5)	TB Type Ex e IIC Standard	AG x	LL z	TB Type Ex e IIC VIK	AG x	LL z	AH -	O -	LB	BI BI
IE3-K11R 200 L6 Ex e IIC	807	767	891	891	100 A	222	214	200 A-SB	335	270	200	M40 x 1.5	4L	35
IE3-K11R 200 LX6 Ex e IIC	875	817	941	941	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE3-K11R 225 M6 Ex e IIC	997	912	1027	1027	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 250 M6 Ex e IIC	1009	924	1072	1072	200 A	222	214	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE3-K11R 280 S6 Ex e IIC	1160	1050	1218	1218	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 M6 Ex e IIC	1160	1050	1218	1218	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 132 S8 Ex e IIC	519	479	562	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 M8 Ex e IIC	521	481	564	564	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 M8 Ex e IIC	599	559	643	643	63 A	184	172	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 MX8 Ex e IIC	649	571	724	724	63 A	184	172	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 L8 Ex e IIC	649	571	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 180 L8 Ex e IIC	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 200 L8 Ex e IIC	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	4L	35
IE3-K11R 225 S8 Ex e IIC	797	757	881	881	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	40
IE3-K11R 225 M8 Ex e IIC	997	862	977	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 250 M8 Ex e IIC	1009	924	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE3-K11R 280 S8 Ex e IIC	1160	1050	1218	1218	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-K11R 280 M8 Ex e IIC	1160	1050	1218	1218	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

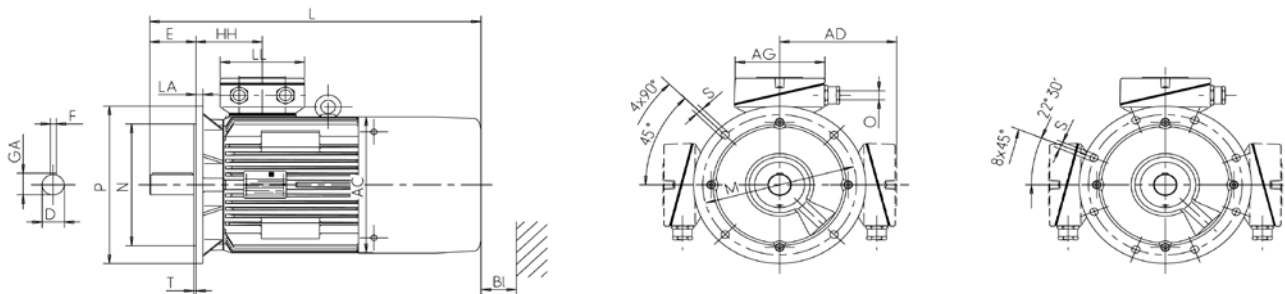
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange B5	AC	AD	AD VIK	D	DB ¹⁾	E	F	GA	H	HH	L
		g	g1	g1	d		l	u	t	h	A	k
IE3-K11R 132 S2 G Ex e IIC	FF265	217	189	189	38	M12	80	10	41	132	108	584
IE3-K11R 132 SX2 G Ex e IIC	FF265	258	210	237	38	M12	80	10	41	132	114	596
IE3-K11R 160 M2 G Ex e IIC	FF300	313	253	279	42	M16	110	12	45	160	138	699
IE3-K11R 160 MX2 G Ex e IIC	FF300	313	253	279	42	M16	110	12	45	160	138	737
IE3-K11R 160 L2 G Ex e IIC	FF300	313	253	279	42	M16	110	12	45	160	138	737
IE3-K11R 180 M2C G Ex e IIC	FF300	351	272	298	48	M16	110	14	51.5	180	147	827
IE3-K11R 200 L2 G Ex e IIC	FF350	390	313	378	55	M20	110	16	59	200	168	829
IE3-K11R 200 LX2 G Ex e IIC	FF350	390	313	378	55	M20	110	16	59	200	168	829
IE3-K11R 225 M2 G Ex e IIC	FF300	440	324	406	55	M20	110	16	59	225	177	897
IE3-K11R 250 M2 G Ex e IIC	FF500	490	397	397	60	M20	140	18	64	250	206	1004
IE3-K11R 280 S2 G Ex e IIC	FF500	490	397	397	65	M20	140	18	69	280	206	1050
IE3-K11R 280 M2 G Ex e IIC	FF500	550	427	427	65	M20	140	18	69	280	211	1190

¹⁾ Centre holes to DIN 332-DS ...

Type designation	L k (IM V1)	L k (IM B5)	TB Type Ex e IIC Standard	AG x	LL z	TB Type Ex e IIC VIK	AG x	LL z	AH -	O -	LB	BI BI
IE3-K11R 132 S2 G Ex e IIC	724	584	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 132 SX2 G Ex e IIC	636	596	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-K11R 160 M2 G Ex e IIC	739	699	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 160 MX2 G Ex e IIC	777	737	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 160 L2 G Ex e IIC	777	736	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 180 M2C G Ex e IIC	867	827	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-K11R 200 L2 G Ex e IIC	869	829	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	40
IE3-K11R 200 LX2 G Ex e IIC	869	829	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	40
IE3-K11R 225 M2 G Ex e IIC	982	897	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-K11R 250 M2 G Ex e IIC	1089	1004	200 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	55
IE3-K11R 280 S2 G Ex e IIC	1055	1050	200 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	55
IE3-K11R 280 M2 G Ex e IIC	1215	1190	200 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	55

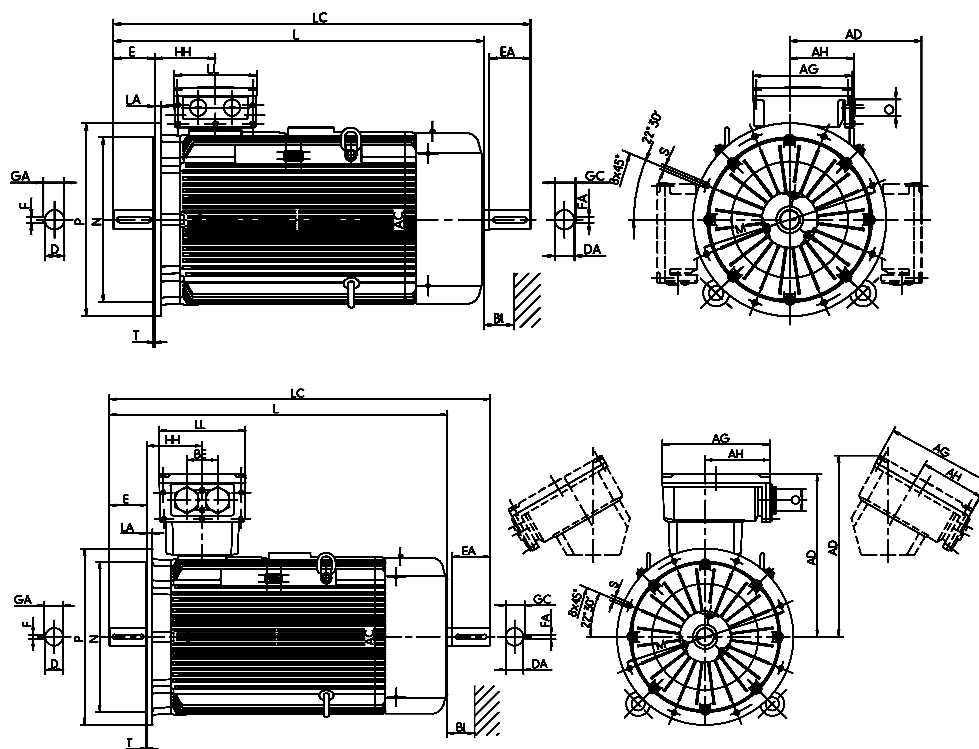
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 315

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange	AC	AD	AD VIK	D	DA	DB ¹⁾	E	EA	F	FA	GA	GC	H	HH	L
		g	g1	g1	d	d1		l	l1	u	u1	t	t1	h	A	k
IE3-K11R 315 S2 Ex e IIC	FF600	550	416	460.5	65	65	M20	140	140	18	18	69	69	315	211	1105
IE3-K11R 315 M2 Ex e IIC	FF600	550	416	460.5	65	65	M20	140	140	18	18	69	69	315	211	1185
IE3-K11R 315 MY2 Ex e IIC	FF600	610	681	680.5	65	65	M20	140	140	18	18	69	69	315	230	1270
IE3-K11R 315 L2 Ex e IIC	FF600	610	681	680.5	65	65	M20	140	140	18	18	69	69	315	230	1390
IE3-K11R 315 LX2 Ex e IIC	FF600	610	681	680.5	65	65	M20	140	140	18	18	69	69	315	230	1510
IE3-K11R 315 S4 Ex e IIC	FF600	550	416	460	80	70	M20	170	140	22	20	85	74.5	315	211	1210
IE3-K11R 315 M4 Ex e IIC	FF600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1230
IE3-K11R 315 MY4 Ex e IIC	FF600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE3-K11R 315 L4 Ex e IIC	FF600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1540
IE3-K11R 315 LX4 Ex e IIC	FF600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1540
IE3-K11R 315 S6 Ex e IIC	FF600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1230
IE3-K11R 315 M6 Ex e IIC	FF600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE3-K11R 315 MY6 Ex e IIC	FF600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE3-K11R 315 L6 Ex e IIC	FF600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1420
IE3-K11R 315 LX6 Ex e IIC	FF600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1420
IE3-K11R 315 S8 Ex e IIC	FF600	550	681	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	1230
IE3-K11R 315 M8 Ex e IIC	FF600	550	681	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	1230
IE3-K11R 315 MY8 Ex e IIC	FF600	610	681	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE3-K11R 315 L8 Ex e IIC	FF600	610	681	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1420
IE3-K11R 315 LX8 Ex e IIC	FF600	610	681	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1420

¹⁾ Centre holes to DIN 332-DS ...

Type designation	L k (IM V1)	L k (IM B5)	LC k1	LC k1 (IM B5)	TB Type Ex e IIC Standard	AG x	LL z	AH -	TB Type Ex e IIC VIK	AG x	LL z	AH -	O -	LB	BI BI
IE3-K11R 315 S2 Ex e IIC	1215	1105	1273	1273	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 M2 Ex e IIC	1295	1185	1353	1353	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 MY2 Ex e IIC	1390	1270	1448	1448	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 L2 Ex e IIC	1510	1390	1568	1568	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 LX2 Ex e IIC	1620	1510	1688	1688	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 S4 Ex e IIC	1325	1210	1383	1383	400 A-SB	415	340	265	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE3-K11R 315 M4 Ex e IIC	1340	1230	1408	1408	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 MY4 Ex e IIC	1410	1300	1478	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 L4 Ex e IIC	1650	1540	1718	1718	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 LX4 Ex e IIC	1650	1540	1718	1718	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 S6 Ex e IIC	1340	1230	1408	1408	400 A-SB	415	340	265	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE3-K11R 315 M6 Ex e IIC	1410	1300	1478	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 MY6 Ex e IIC	1410	1300	1478	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 L6 Ex e IIC	1530	1420	1598	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 LX6 Ex e IIC	1530	1420	1598	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 S8 Ex e IIC	1340	1230	1408	1408	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 M8 Ex e IIC	1340	1230	1408	1408	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 MY8 Ex e IIC	1410	1300	1478	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 L8 Ex e IIC	1530	1420	1598	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 LX8 Ex e IIC	1530	1420	1598	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

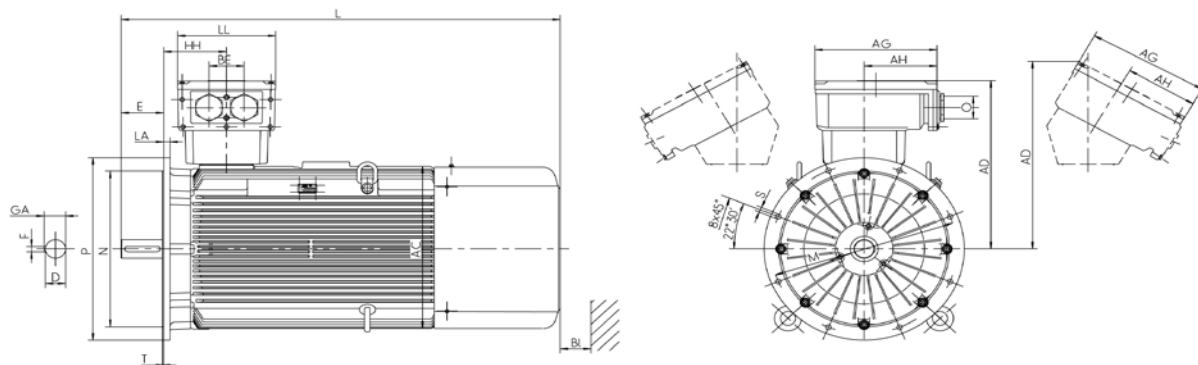
Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Size 315

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange B5	AC	AD	AD VIK	D	DA	DB ¹⁾	E	F	GA	H	HH	L
		g	g1	g1	d	d1		l	u	t	h	A	k
IE3-K11R 315 S2 G Ex e IIC	FF600	550	416	460.5	65	-	M20	140	18	69	315	211	1190
IE3-K11R 315 M2 G Ex e IIC	FF600	550	416	460.5	65	65	M20	140	18	69	315	211	1270
IE3-K11R 315 MY2 G Ex e IIC	FF600	610	681	680.5	65	65	M20	140	18	69	315	230	1390
IE3-K11R 315 L2 G Ex e IIC	FF600	610	681	680.5	65	65	M20	140	18	69	315	230	1510
IE3-K11R 315 LX2 G Ex e IIC	FF600	610	681	680.5	65	65	M20	140	18	69	315	230	1630

¹⁾ Centre holes to DIN 332-DS ...

Type designation	L k (IM V1)	TB Type Ex e IIC Standard	AG	LL		TB Type Ex e IIC VIK	AG	LL	AH	O	LB	BI
			x	z	-		x	z	-	-		BI
IE3-K11R 315 S2 Ex e IIC	1215	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 M2 Ex e IIC	1295	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 MY2 Ex e IIC	1510	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 L2 Ex e IIC	1630	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE3-K11R 315 LX2 Ex e IIC	1740	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

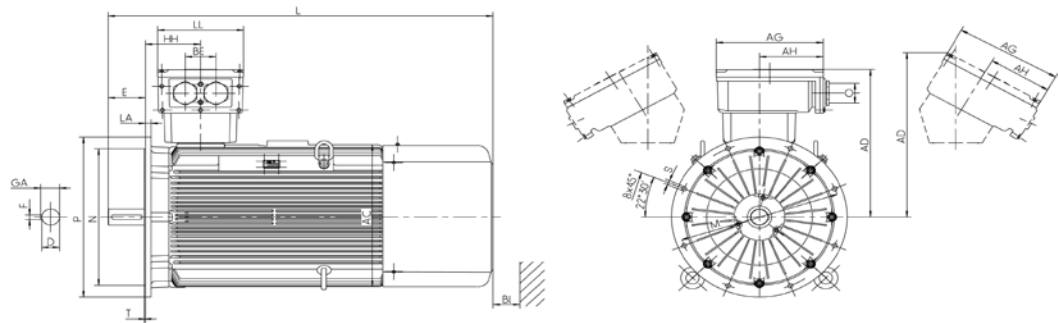
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

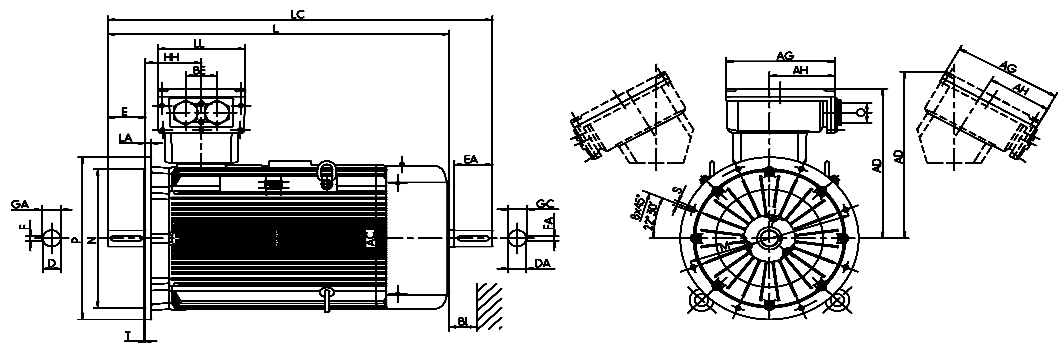
Size 355 to 400, 2-pole

Flange dimensions, see page 10/6



Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Size 355 to 400, 4- to 8-pole



Type designation	Flange size	AC	AD	AD ^{*)}	D	DA	DB ^{*)}	E	EA	F	FA	GA	GC	H	HA	L	LC	TB Type	AG	LL	AH	BE	O	BI
		g	g1	g1	d	d1		l	l1	u	u1	t	t1	h	c	k	k1	Ex e IIC Standard/VIK	x	z	-	-	r	BI
IE3-K12R 355 M2G Ex e IIC	FF740	715	736	811	80	-	M20	170	-	22	-	85	-	355	250	1530	-	630 A	496	390	301	140	M75 x 1.5	60
IE3-K12R 355 MX2G Ex e IIC	FF740	715	759	817	80	-	M21	170	-	22	-	85	-	355	327	1730	-	1000 A	615	474	385	200	M75 x 1.5	60
IE3-K12R 355 LY2G, L2G Ex e IIC	FF740	715	759	817	80	-	M22	170	-	22	-	85	-	355	327	1730	-	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 355 MX2G Ex e IIC	FF 740	715	719	817	80	-	M20	170	-	22	-	85	-	355		1730	-	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 355 L2G Ex e IIC	FF 740	715	719	817	80	-	M20	170	-	22	-	85	-	355		1730	-	1000 A	615	474	385	200	M75 x 1.5	60
IE3-K11R 355 M4 Ex e IIC	FF740	715	736	811	100	80	M24	210	170	28	22	106	85	355	250	1570	1755	630 A	496	390	301	140	M63 x 1.5	60
IE3-K11R 355 MX4 Ex e IIC	FF740	715	759	817	100	80	M24	210	170	28	22	106	85	355	327	1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-K12R 355 M6 Ex e IIC	FF740	715	736	811	100	80	M24	210	170	28	22	106	85	355	250	1570	1755	630 A	496	390	301	140	M63 x 1.5	60
IE3-K12R 355 MX6 Ex e IIC	FF740	715	736	811	100	80	M24	210	170	28	22	106	85	355	365	1770	1955	630 A	496	390	301	140	M63 x 1.5	60
IE3-K12R 355 L6 Ex e IIC	FF740	715	729	817	100	80	M24	210	170	28	22	106	85	355	327	1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-K12R 355 M8 Ex e IIC	FF740	715	736	811	100	80	M24	210	170	28	22	106	85	355	250	1570	1755	630 A	496	390	301	140	M75 x 1.5	60
IE3-K12R 355 MX8 Ex e IIC	FF740	715	736	811	100	80	M24	210	170	28	22	106	85	355	265	1770	1955	630 A	496	390	301	140	M75 x 1.5	60
IE3-K12R 355 L8 Ex e IIC	FF740	715	729	817	100	80	M24	210	170	28	22	106	85	355	327	1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 355 MX6, 8 Ex e IIC	FF 740	715	733	811	100	80	M24	210	170	28	22	106	85	355		1770	1955	630 A	496	390	301	140	M75 x 1.5	60
IE3-W42R 355 MX4 Ex e IIC	FF 740	715	719	817	100	80	M24	210	170	28	22	106	85	355		1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 355 L4 Ex e IIC	FF 740	715	719	817	100	80	M24	210	170	28	22	106	85	355		1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 355 L6, 8 Ex e IIC	FF 740	715	719	817	100	80	M24	210	170	28	22	106	85	355		1770	1955	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W42R 400 M2G, MX2G Ex e IIC	FF940	810	813	873	80	-	M20	170	-	22	-	85	-	400		1963	-	1000 A	615	474	385	200	M80 x 1.5	100
IE3-W42R 400 L2G Ex e IIC	FF940	810	813	873	80	-	M20	170	-	22	-	85	-	400		1963	-	1000 A	615	474	385	200	M80 x 1.5	100
IE3-W42R 400 M, MX 4, 6, 8 Ex e IIC	FF940	810	813	873	110	80	M24	210	170	28	22	116	85	400		2003	2201	1000 A	615	474	385	200	M80 x 1.5	100
IE3-W42R 400 L4, 6, 8 Ex e IIC	FF940	810	813	873	110	80	M24	210	170	28	22	116	85	400		2003	2201	1000 A	615	474	385	200	M80 x 1.5	100

^{*)} Centre holes to DIN 332-DS ...

^{**)} Terminal box inclined left/right

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

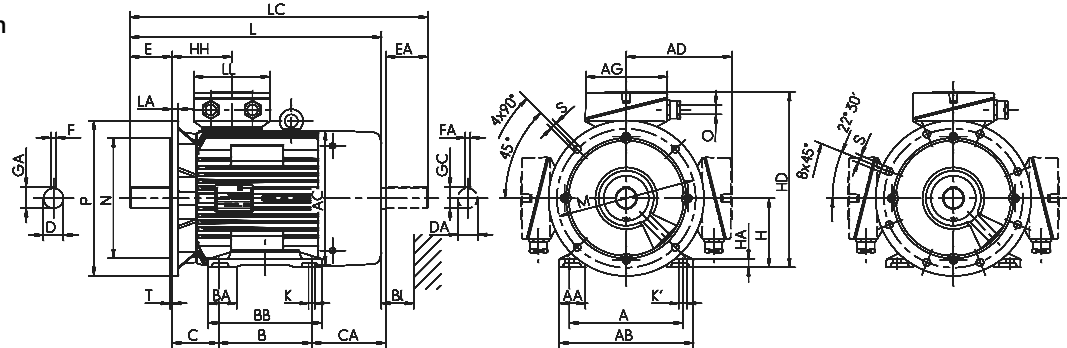
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction

IM B35 [IM 2001]

Flange dimensions,
see page 10/6



Type designation	GA	GC	H	HA	HD	HD**	HD	HH	HH	K	K'	L	LC	TB Type	AG	LL	TB Type	AG	LL	AH	O	LB	BI
									(IM B5)														
	t	t1	h	c	p	p	p	A	(IM B5)	s	s'	k	k1	Ex e IIC Standard	x	z	Ex e IIC VIK	x	z	-	-	-	BI
IE2-KPR 80 K2 Ex e IIC	21.5	21.5	80	9	218	***	218	79	79	10	10	267	310	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M20 x 1.5	4L	16
IE2-KPR 80 G2, 4 Ex e IIC	21.5	21.5	80	9	218	***	218	79	79	10	10	289	332	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M20 x 1.5	4L	16
IE2-KPR 90 S2, 4, 6 Ex e IIC	27	27	90	10.5	236	***	236	84	123	10	10	323	376	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M25 x 1.5	4L	18
IE2-KPR 90 L2 Ex e IIC	27	27	90	10.5	236	***	236	84	123	10	10	323	376	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M25 x 1.5	4L	18
IE2-KPR 90 L4, 6 Ex e IIC	27	27	90	10.5	236	***	236	84	123	10	10	353	406	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M25 x 1.5	4L	18
IE2-KPR 100 L2, S8	31	31	100	13	255	***	255	86	86	12	12	359	425	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M25 x 1.5	4L	20
IE2-KPR 100 L4 Ex e IIC	31	31	100	13	255	***	255	86	86	12	12	393	459	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M25 x 1.5	4L	20
IE2-KPR 100 LX4 Ex e IIC	31	31	100	13	255	***	255	86	86	12	12	423	489	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M25 x 1.5	4L	20
IE2-KPR 100 LX6 Ex e IIC	31	31	100	13	255	***	255	86	86	12	12	393	459	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M25 x 1.5	4L	20
IE2-KPER 112 MX2 Ex e IIC	31	31	112	18	267	***	267	86	86	12	12	393	459	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M25 x 1.5	4L	20
IE2-KPER 112 MZ4 Ex e IIC	31	31	112	18	267	***	267	86	86	12	12	463	529	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M25 x 1.5	4L	20
IE2-KPER 112 MV6 Ex e IIC	31	31	112	18	267	***	267	86	86	12	12	423	489	KA 05 - 13	104	112	KA 05 - 13	104	112	-	M25 x 1.5	4L	20
IE2-K11R 112 M2 Ex e IIC	31	31	112	15	333	236.5	333	108	108	12	12	459	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 112 M4 Ex e IIC	31	31	112	15	333	236.5	333	108	108	12	12	459	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 112 M6 Ex e IIC	31	31	112	15	333	236.5	333	108	108	12	12	459	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 132 S2 Ex e IIC	41	35	132	16	353	256.5	353	108	108	12	12	479	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 132 SX2 Ex e IIC	41	35	132	15	374	279	374	114	114	12	12	481	565	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 132 S4 Ex e IIC	41	35	132	15	374	279	374	114	114	12	12	481	565	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 132 S6 Ex e IIC	41	35	132	16	353	256.5	353	108	108	12	12	479	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 132 M4 Ex e IIC	41	41	132	15	374	279	374	114	114	12	12	529	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 132 M6 Ex e IIC	41	35	132	16	353	256.5	353	108	108	12	12	529	612	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 132 MX6 Ex e IIC	41	41	132	15	374	279	374	114	114	12	12	529	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 160 M2 Ex e IIC	45	41	160	18	409	336	435	138	138	15	20	571	686	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 160 M4 Ex e IIC	45	41	160	18	409	336	435	138	138	15	20	571	686	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 160 M8 Ex e IIC	45	41	160	18	417	307	417	114	114	15	15	609	693	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 160 M6 Ex e IIC	45	41	160	18	417	307	417	114	114	15	15	609	693	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 160 MX2 Ex e IIC	45	45	160	18	409	336	435	138	138	15	20	609	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 160 L2 Ex e IIC	45	45	160	18	409	336	435	138	138	15	20	609	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 160 L4 Ex e IIC	45	45	160	18	409	336	435	138	138	15	20	667	783	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 160 L6 Ex e IIC	45	45	160	18	409	336	435	138	138	15	20	609	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 180 M2 Ex e IIC	51.5	51.5	180	20	447	369	473	147	147	15	20	635	751	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 180 M4 Ex e IIC	51.5	45	180	20	447	369	473	147	147	15	20	680	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 180 L4 Ex e IIC	51.5	51.5	180	20	447	369	473	147	147	15	20	680	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 180 L6 Ex e IIC	51.5	45	180	20	447	369	473	147	147	15	20	680	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 200 L2 Ex e IIC	59	51.5	200	22	494	389	520	147	147	19	25	680	796	100/63 AV	223	214	100/63 AV	223	214	-	M50 x 1.5	4L	35
IE2-K11R 200 LX2 Ex e IIC	59	59	200	22	511	417	578	168	168	19	25	727	851	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE2-K11R 200 L4 Ex e IIC	59	51.5	200	22	511	417	578	168	168	19	25	727	851	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE2-K11R 200 LX6 Ex e IIC	59	51.5	200	22	511	417	578	168	168	19	25	727	851	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE2-K11R 200 L6 Ex e IIC	59	51.5	200	22	494	389	520	147	147	19	25	680	796	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	4L	35
IE2-K11R 225 M2 Ex e IIC	59	59	225	25	527	450	605	177	177	19	25	832	947	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE2-K11R 225 S4 Ex e IIC	64	59	225	25	551	450	631	177	177	19	25	757	881	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	40
IE2-K11R 225 M4 Ex e IIC	64	59	225	25	551	450	631	177	177	19	25	862	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE2-K11R 225 S8 Ex e IIC	64	59	225	25	536	417	604	168	168	19	25	757	881	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE2-K11R 225 M6 Ex e IIC	64	59	225	25	549	450	631	177	177	19	25	862	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE2-K11R 225 M8 Ex e IIC	64	59	225	25	549	450	631	177	177	19	25	862	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE2-K11R 250 M2 Ex e IIC	64	64	250	28	549	507	653	206	206	24	30	924	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE2-K11R 250 M4 Ex e IIC	69	59	250	28	636	507	653	206	206	24	30	924	1042	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE2-K11R 250 M6 Ex e IIC	69	59	250	28	636	507	653	206	206	24	30	924	1042	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE2-K11R 280 S2 Ex e IIC	69	64	280	32	666	537	683	206	206	24	30	970	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE2-K11R 280 M2 Ex e IIC	69	69	280	32	666	537	683	206	206	24	30	970	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE2-K11R 280 S4 Ex e IIC																							

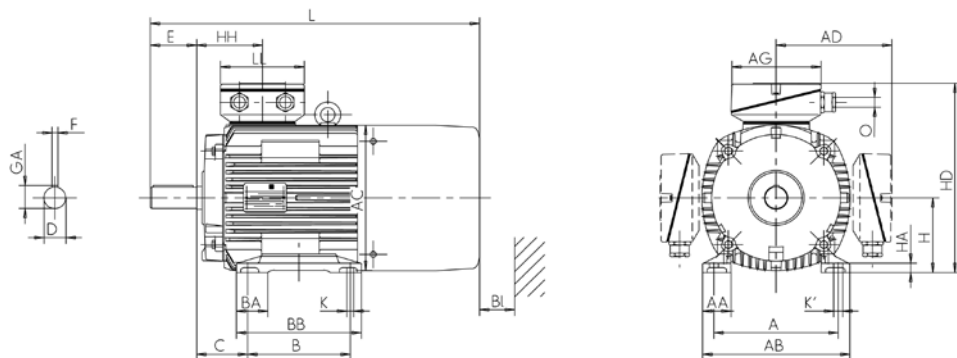
Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BB	C	D	DB ⁷⁾	E	F
		b	n	f	g	g1	VIK g1	a	m	e	w1	d		l	u
IE2-K11R 132 S2G Ex e IIC	A300	216	50	256	217	220	220	140	55	180	89	38	M12	80	10
IE2-K11R 132 SX2G Ex e IIC	A300	216	50	256	258	246	246	140	47	180	89	38	M12	80	10
IE2-K11R 160 MG2 Ex e IIC	A350	254	55	296	313	249	275	210	60	257	108	42	M16	110	12
IE2-K11R 160 MX2G Ex e IIC	A350	254	55	296	313	249	275	210	56	257	108	42	M16	110	12
IE2-K11R 160 L2G Ex e IIC	A350	254	55	296	313	249	275	254	60	301	108	42	M16	110	12
IE2-K11R 180 M2G Ex e IIC	A350	279	62	328	351	268	294	241	65	288	121	48	M16	110	14
IE2-K11R 200 L2G Ex e IIC	A400	318	70	372	351	268	294	305	70	360	133	55	M20	110	16
IE2-K11R 200 LX2G Ex e IIC	A400	356	70	372	390	311	375	305	70	360	133	55	M20	110	16
IE2-K11R 225 M2G Ex e IIC	A450	356	75	413	440	300	300	311	75	368	149	55	M20	110	16
IE2-K11R 250 M2G Ex e IIC	A550	406	84	469	490	386	403	349	84	374	168	60	M20	140	18
IE2-K11R 280 S2G Ex e IIC	A550	457	88	522	490	386	403	368	96	431	190	65	M20	140	18
IE2-K11R 280 M2G Ex e IIC	A550	457	94	522	490	386	403	419	96	482	190	65	M20	140	18

⁷⁾ Centre holes to DIN 332-DS ...

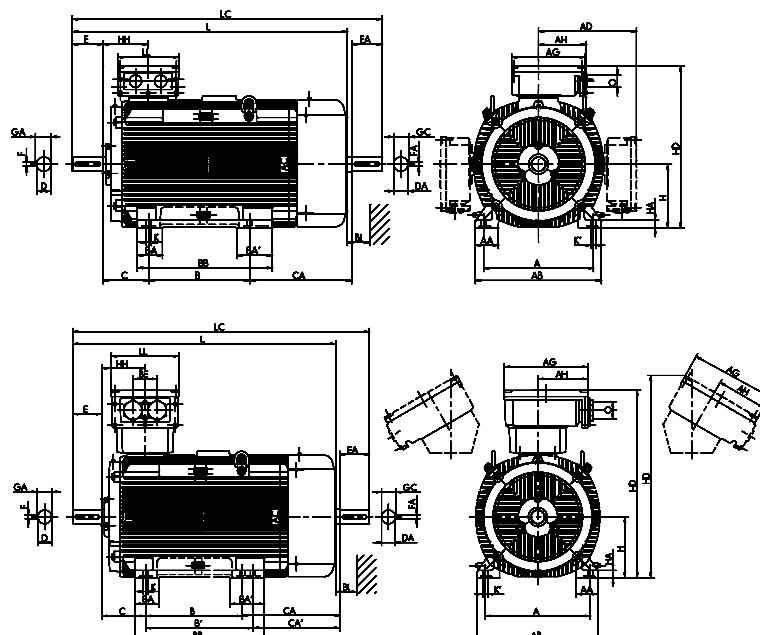
Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Size 315 to 355

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BA'	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	g1	g1	a	m	m1	e	w1	w2	d	d1		l	l1	u	u1
IE2-K11R 315 S2 Ex e IIC	A660	508	126	590	550	416	460.5	406	120	-	503	216	316	65	65	M20	140	140	18	18
IE2-K11R 315 M2 Ex e IIC	A660	508	126	590	550	416	460.5	457	120	150	554	216	320	65	65	M20	140	140	18	18
IE2-K11R 315 MX2 Ex e IIC	A660	508	126	590	550	416	460.5	457	120	150	554	216	400	65	65	M20	140	140	18	18
IE2-K11R 315 MY2 Ex e IIC	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	65	65	M20	140	140	18	18
IE2-K11R 315 L2 Ex e IIC	A660	508	110	590	610	494	680.5	508	120	-	624	216	564	65	65	M20	140	140	18	18
IE2-K11R 315 LX2 Ex e IIC	A660	508	110	590	610	494	680.5	508	120	-	624	216	684	65	65	M20	140	140	18	18
IE2-K11R 315 S4 Ex e IIC	A660	508	132	590	550	416	460.5	406	120	-	554	216	371	80	70	M20	170	140	22	20
IE2-K11R 315 M4 Ex e IIC	A660	508	126	590	550	416	460.5	457	120	150	554	216	320	80	70	M20	170	140	22	20
IE2-K11R 315 MX4 Ex e IIC	A660	508	126	590	550	416	460.5	457	120	150	554	216	400	80	70	M20	170	140	22	20
IE2-K11R 315 MY4 Ex e IIC	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE2-K11R 315 L4 Ex e IIC	A660	508	110	590	610	494	680.5	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE2-K11R 315 LX4 Ex e IIC	A660	508	110	590	610	494	680.5	508	120	-	624	216	684	80	70	M20	170	140	22	20
IE2-K11R 315 S6 Ex e IIC	A660	508	126	590	550	416	460.5	406	120	150	554	216	320	80	70	M20	170	140	22	20
IE2-K11R 315 M6 Ex e IIC	A660	508	126	590	550	416	460.5	457	120	150	554	216	320	80	70	M20	170	140	22	20
IE2-K11R 315 MX6 Ex e IIC	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE2-K11R 315 MY6 Ex e IIC	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE2-K11R 315 L6 Ex e IIC	A660	508	110	590	610	494	680.5	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE2-K11R 315 LX6 Ex e IIC	A660	508	110	590	610	494	680.5	508	120	-	624	216	684	80	70	M20	170	140	22	20
IE2-K11R 315 S8 Ex e IIC	A660	508	126	590	550	416	460.5	406	120	150	554	216	320	80	70	M20	170	140	22	20
IE2-K11R 315 M8 Ex e IIC	A660	508	126	590	550	416	460.5	457	120	150	554	216	320	80	70	M20	170	140	22	20
IE2-K11R 315 MX8 Ex e IIC	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE2-K11R 315 MY8 Ex e IIC	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE2-K11R 315 L8 Ex e IIC	A660	508	110	590	610	494	680.5	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE2-K11R 315 LX8 Ex e IIC	A660	508	110	590	610	494	680.5	508	120	-	624	216	684	80	70	M20	170	140	22	20
IE2-K12R 355 MY4 Ex e IIC	A800	610	130	700	715	736	736	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE2-K12R 355 M4 Ex e IIC	A800	610	130	700	715	736	736	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE2-K12R 355 MY6 Ex e IIC	A800	610	130	700	715	736	736	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE2-K12R 355 M6 Ex e IIC	A800	610	130	700	715	736	736	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE2-K12R 355 MX6 Ex e IIC	A800	610	130	700	715	736	736	560	140	200	750	254	681	100	80	M24	210	170	28	22
IE2-K12R 355 MX4 Ex e IIC	A800	610	130	700	715	729	729	560	140	200	750	254	681	100	80	M24	210	170	28	22
IE2-K12R 355 L4 Ex e IIC	A800	610	130	700	715	729	729	630	140	200	750	254	611	100	80	M24	210	170	28	22
IE2-K12R 355 L8 Ex e IIC	A800	610	130	700	715	729	729	630	140	200	750	254	611	100	80	M24	210	170	28	22

¹⁾ Centre holes to DIN 332-DS ...

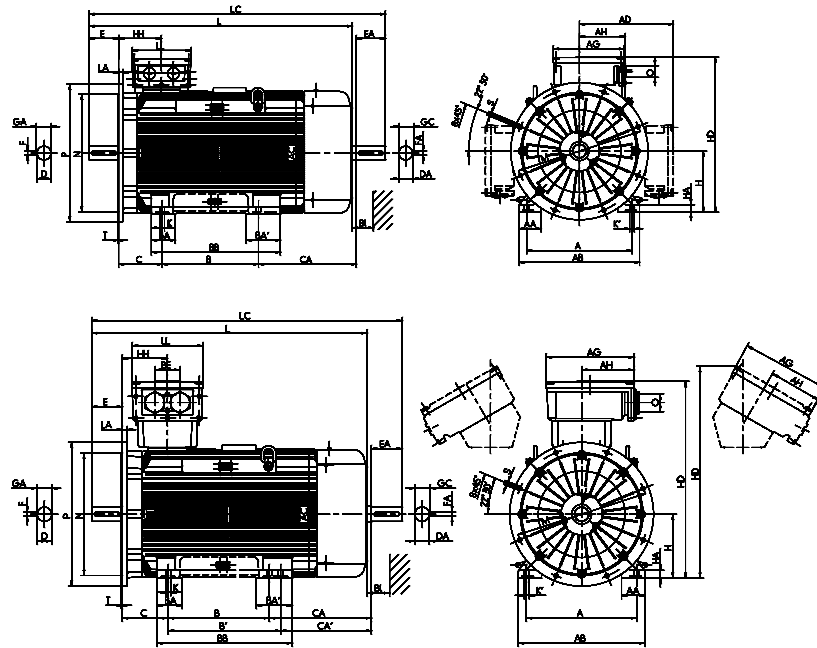
Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 315 to 355

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	LC	TB Type	AG	LL	AH	TB Type	AG	LL	AH	O	LB	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k1	Ex e IIC Standard	x	z	-	Ex e IIC VIK	x	z	-	-	-	BI
IE2-K11R 315 S2 Ex e IIC	69	69	315	44	731	610	775.5	211	28	35	1050	1218	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 M2 Ex e IIC	69	69	315	44	731	610	775.5	211	28	35	1105	1273	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MX2 Ex e IIC	69	69	315	44	731	610	775.5	211	28	35	1185	1353	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MY2 Ex e IIC	69	69	315	44	809	628	995.5	230	28	35	1270	1448	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 L2 Ex e IIC	69	69	315	44	809	628	995.5	230	28	35	1390	1568	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 LX2 Ex e IIC	69	69	315	44	809	628	995.5	230	28	35	1510	1688	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 S4 Ex e IIC	85	74.5	315	44	731	610	775.5	211	28	35	1135	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 M4 Ex e IIC	85	74.5	315	44	731	610	775.5	211	28	35	1135	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MX4 Ex e IIC	85	74.5	315	44	731	610	775.5	211	28	35	1210	1383	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MY4 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1300	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 L4 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1420	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 LX4 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1540	1718	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 S6 Ex e IIC	85	74.5	315	44	731	610	775.5	211	28	35	1135	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 M6 Ex e IIC	85	74.5	315	44	731	610	775.5	211	28	35	1135	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MX6 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1300	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 MY6 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1300	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 L6 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1420	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 LX6 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1420	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 S8 Ex e IIC	85	74.5	315	44	731	610	775.5	211	28	35	1135	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 M8 Ex e IIC	85	74.5	315	44	731	610	775.5	211	28	35	1135	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MX8 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1300	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 MY8 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1300	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 L8 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1420	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 LX8 Ex e IIC	85	74.5	315	44	809	628	995.5	230	28	35	1420	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K12R 355 MY4 Ex e IIC	106	85	355	44	1091	1172	736	250	28	35	1570	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 M4 Ex e IIC	106	85	355	44	1091	1172	736	250	28	35	1570	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 MX4 Ex e IIC	106	85	355	44	1091	1172	736	250	28	35	1570	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 M6 Ex e IIC	106	85	355	44	1091	1172	736	250	28	35	1570	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 MX6 Ex e IIC	106	85	355	44	1091	1172	736	250	28	35	1690	1875	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 MX4 Ex e IIC	106	85	355	44	1084	1174	729	327	28	35	1690	1875	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	8L	60
IE2-K12R 355 L4 Ex e IIC	106	85	355	44	1084	1174	729	327	28	35	1690	1875	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	8L	60
IE2-K12R 355 L8 Ex e IIC	106	85	355	44	1084	1174	729	327	28	35	1690	1875	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	8L	60

**) Terminal box left/right

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

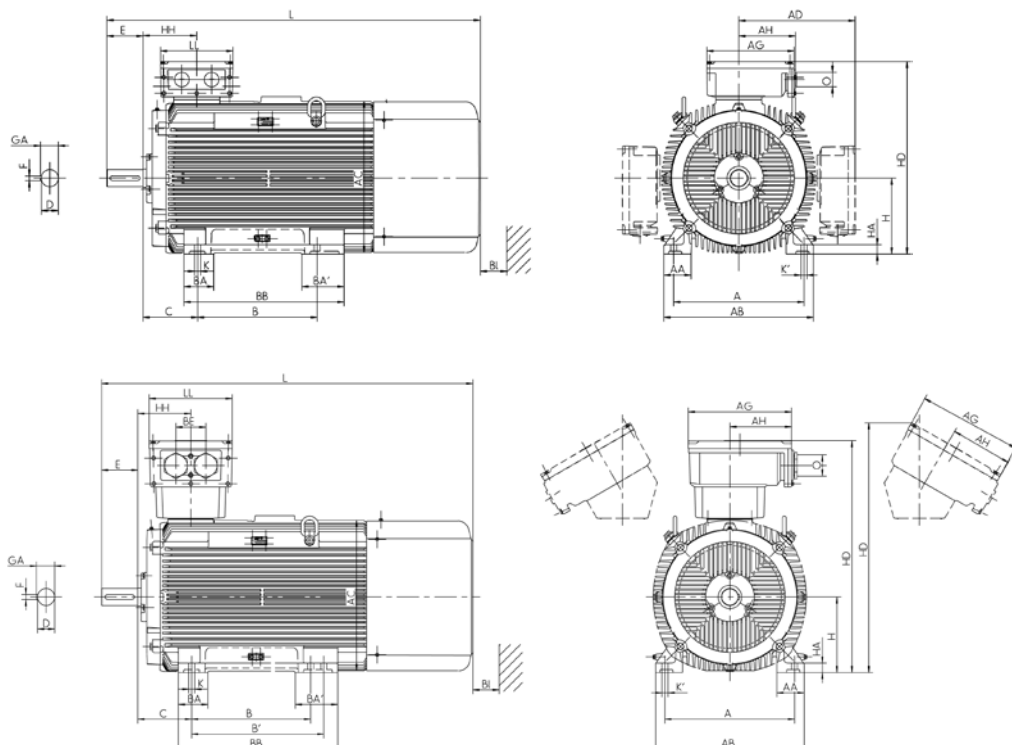
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Size 315 to 355

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BA'	BB	C	CA	D	DB ¹⁾	E	F
		b	n	f	g	g1	g1	a	m	m1	e	w1	w2	d		l	u
IE2-K11R 315 S2G Ex e IIC	A660	508	126	590	550	416	460.5	406	120	-	503	216	-	65	M20	140	18
IE2-K11R 315 M2G Ex e IIC	A660	508	126	590	550	416	460.5	457	120	150	554	216	-	65	M20	140	18
IE2-K11R 315 MX2G Ex e IIC	A660	508	126	590	550	416	460.5	457	120	150	554	216	-	65	M20	140	18
IE2-K11R 315 MY2G Ex e IIC	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	65	M20	140	18
IE2-K11R 315 L2G Ex e IIC	A660	508	110	590	610	494	680.5	508	120	-	624	216	564	65	M20	140	18
IE2-K11R 315 LX2G Ex e IIC	A660	508	110	590	610	494	680.5	508	120	-	624	216	684	65	M20	140	18
IE2-K12R 355 MY2G Ex e IIC	A800	610	130	700	715	736	736	560	140	200	750	254	561	80	M20	170	22
IE2-K12R 355 M2G Ex e IIC	A800	610	130	700	715	736	736	560	140	200	750	254	561	80	M20	170	22
IE2-K12R 355 MX2G Ex e IIC	A800	610	130	700	715	729	729	560	140	200	750	254	681	80	M20	170	22
IE2-K12R 355 L2G Ex e IIC	A800	610	130	700	715	729	729	630	140	200	750	254	611	80	M20	170	22

¹⁾ Centre holes to DIN 332-DS ...

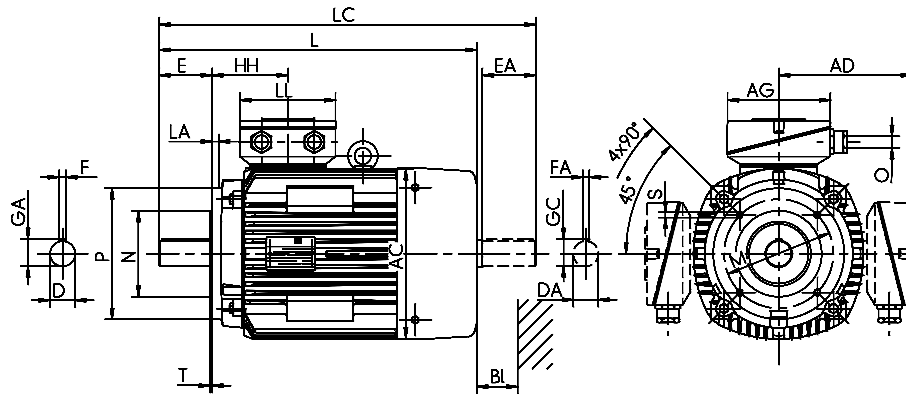
Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B14 [IM 3601]

Flange dimensions, see page 10/6



Type designation	Flange size		A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
	B14K, B34K	B14G, B34G	b	n	f	g	g1	VIK g1	a	m	e	w1	w2	d	d1		l	l1	u	u1
IE2-KPR 80 K2 Ex e IIC	C120	C160	125	26	152	157	138	138	100	-	124	50	80	19	19	M6	40	40	6	6
IE2-KPR 80 G2, 4 Ex e IIC	C120	C160	125	26	152	157	138	138	100	-	146	50	102	19	19	M6	40	40	6	6
IE2-KPR 90 S2, 4, 6 Ex e IIC	C140	C160	140	40	178	177	146	146	100	-	130	56	120	24	24	M8	50	50	8	8
IE2-KPR 90 L2 Ex e IIC	C140	C160	140	40	178	177	146	146	125	-	155	56	95	24	24	M8	50	50	8	8
IE2-KPR 90 L4, 6 Ex e IIC	C140	C160	140	40	178	177	146	146	125	-	155	56	125	24	24	M8	50	50	8	8
IE2-KPR 100 L2, S8	C160	C200	160	42	193	196	155	155	140	-	175	63	102	28	28	M10	60	60	8	8
IE2-KPR 100 L4 Ex e IIC	C160	C200	160	42	193	196	155	155	140	-	175	63	136	28	28	M10	60	60	8	8
IE2-KPR 100 L4 Ex e IIC	C160	C200	160	42	193	196	155	155	140	-	175	63	166	28	28	M10	60	60	8	8
IE2-KPR 100 LX6 Ex e IIC	C160	C200	160	42	193	196	155	155	140	-	175	63	136	28	28	M10	60	60	8	8
IE2-KPER 112 MX2 Ex e IIC	C160	C200	190	52	225	196	155	155	140	-	180	70	129	28	28	M10	60	60	8	8
IE2-KPER 112 MZ4 Ex e IIC	C160	C200	190	52	225	196	155	155	140	-	180	70	199	28	28	M10	60	60	8	8
IE2-KPER112 MV6 Ex e IIC	C160	C200	190	52	225	196	155	155	140	-	180	70	159	28	28	M10	60	60	8	8
IE2-K11R 112 M2 Ex e IIC	C160	C200	190	45	226	217	220	220	140	42	172	70	192	28	28	M10	60	60	8	8
IE2-K11R 112 M4 Ex e IIC	C160	C200	190	45	226	217	220	220	140	42	172	70	192	28	28	M10	60	60	8	8
IE2-K11R 112 M6 Ex e IIC	C160	C200	190	45	226	217	220	220	140	42	172	70	192	28	28	M10	60	60	8	8
IE2-K11R 132 S2 Ex e IIC	C160	C200	216	50	256	217	220	220	140	53	180	89	173	38	32	M12	80	80	10	10
IE2-K11R 132 SX2 Ex e IIC	C200	C250	216	50	256	258	246	246	140	53	180	89	176	38	32	M12	80	80	10	10
IE2-K11R 132 S4 Ex e IIC	C200	C250	216	50	256	258	246	246	140	53	180	89	176	38	32	M12	80	80	10	10
IE2-K11R 132 S6 Ex e IIC	C160	C200	216	50	256	217	220	220	140	53	180	89	173	38	32	M12	80	80	10	10
IE2-K11R 132 M4 Ex e IIC	C200	C250	216	50	256	258	246	246	178	53	218	89	186	38	38	M12	80	80	10	10
IE2-K11R 132 M6 Ex e IIC	C160	C200	216	50	256	217	220	220	178	53	218	89	135	38	32	M12	80	80	10	10
IE2-K11R 132 MX6 Ex e IIC	C200	C250	216	50	256	258	246	246	178	53	218	89	186	38	38	M12	80	80	10	10
IE2-K11R 160 M2 Ex e IIC	C250	C300	254	55	296	313	249	275	210	60	257	108	148	42	38	M16	110	110	12	10
IE2-K11R 160 M4 Ex e IIC	C250	C300	254	55	296	313	249	275	210	60	257	108	148	42	38	M16	110	110	12	10
IE2-K11R 160 M8 Ex e IIC	C250	C300	254	55	296	258	256	256	210	60	257	108	185	42	38	M16	110	80	12	10
IE2-K11R 160 M6 Ex e IIC	C200	C250	254	55	296	258	256	256	210	60	257	108	185	42	38	M16	110	80	12	10
IE2-K11R 160 MX2 Ex e IIC	C250	C300	254	55	296	313	249	275	210	56	257	108	186	42	42	M16	110	110	12	12
IE2-K11R 160 L2 Ex e IIC	C250	C300	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12
IE2-K11R 160 L4 Ex e IIC	C250	C300	254	55	296	313	249	275	254	60	301	108	200	42	42	M16	110	110	12	12
IE2-K11R 160 L6 Ex e IIC	C250	C300	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12

¹⁾ Centre holes to DIN 332-DS ...

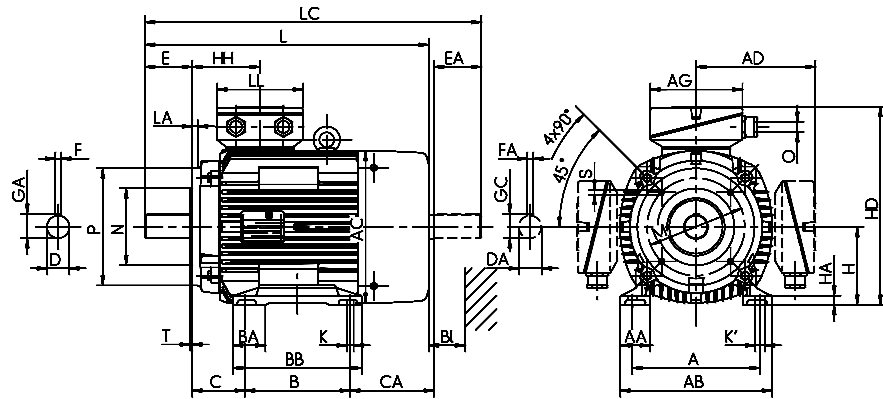
Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B34 [IM 2101]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD**)	HD	HH	K	K'	L	LC	TB Type	AG	LL	TB Type	AG	LL	O	LB	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k1	Ex e IIC Standard	x	z	Ex e IIC VIK	x	z	-	-	BI
IE2-KPR 80 K2 Ex e IIC	21.5	21.5	80	9	218	***)	218	79	10	10	267	310	KA 05 - 13	104	112	KA 05 - 13	104	112	M20 x 1.5	4L	16
IE2-KPR 90 G2, 4 Ex e IIC	21.5	21.5	80	9	218	***)	218	79	10	10	289	332	KA 05 - 13	104	112	KA 05 - 13	104	112	M20 x 1.5	4L	16
IE2-KPR 90 S2, 4, 6 Ex e IIC	27	27	90	10.5	236	***)	236	84	10	10	323	376	KA 05 - 13	104	112	KA 05 - 13	104	112	M25 x 1.5	4L	18
IE2-KPR 90 L2 Ex e IIC	27	27	90	10.5	236	***)	236	84	10	10	323	376	KA 05 - 13	104	112	KA 05 - 13	104	112	M25 x 1.5	4L	18
IE2-KPR 90 L4, 6 Ex e IIC	27	27	90	10.5	236	***)	236	84	10	10	353	406	KA 05 - 13	104	112	KA 05 - 13	104	112	M25 x 1.5	4L	18
IE2-KPR 100 L2, S8	31	31	100	13	255	***)	255	86	12	12	359	425	KA 05 - 13	104	112	KA 05 - 13	104	112	M25 x 1.5	4L	20
IE2-KPR 100 L4 Ex e IIC	31	31	100	13	255	***)	255	86	12	12	393	459	KA 05 - 13	104	112	KA 05 - 13	104	112	M25 x 1.5	4L	20
IE2-KPR 100 LX4 Ex e IIC	31	31	100	13	255	***)	255	86	12	12	423	489	KA 05 - 13	104	112	KA 05 - 13	104	112	M25 x 1.5	4L	20
IE2-KPR 100 LX6 Ex e IIC	31	31	100	13	255	***)	255	86	12	12	393	459	KA 05 - 13	104	112	KA 05 - 13	104	112	M25 x 1.5	4L	20
IE2-KPER 112 MX2 Ex e IIC	31	31	112	18	267	***)	267	86	12	12	393	459	KA 05 - 13	104	112	KA 05 - 13	104	112	M25 x 1.5	4L	20
IE2-KPER 112 MZ4 Ex e IIC	31	31	112	18	267	***)	267	86	12	12	463	529	KA 05 - 13	104	112	KA 05 - 13	104	112	M25 x 1.5	4L	20
IE2-KPER112 MV6 Ex e IIC	31	31	112	18	267	***)	267	86	12	12	423	489	KA 05 - 13	104	112	KA 05 - 13	104	112	M25 x 1.5	4L	20
IE2-K11R 112 M2 Ex e IIC	31	31	112	15	333	236.5	333	108	12	12	459	522	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 112 M4 Ex e IIC	31	31	112	15	333	236.5	333	108	12	12	459	522	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 112 M6 Ex e IIC	31	31	112	15	333	236.5	333	108	12	12	459	522	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 132 S2 Ex e IIC	41	35	132	16	353	256.5	353	108	12	12	479	562	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 132 SX2 Ex e IIC	41	35	132	15	374	279	374	114	12	12	481	565	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 132 S4 Ex e IIC	41	35	132	15	374	279	374	114	12	12	481	565	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 132 S6 Ex e IIC	41	35	132	16	353	256.5	353	108	12	12	479	562	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 132 M4 Ex e IIC	41	41	132	15	374	279	374	114	12	12	529	613	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 132 M6 Ex e IIC	41	35	132	16	353	256.5	353	108	12	12	529	612	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 132 MX6 Ex e IIC	41	41	132	15	374	279	374	114	12	12	529	613	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 160 M2 Ex e IIC	45	41	160	18	409	336	435	138	15	20	571	686	63 A	184	172	100/63 AV	223	214	M40 x 1.5	4L	35
IE2-K11R 160 M4 Ex e IIC	45	41	160	18	409	336	435	138	15	20	571	686	63 A	184	172	100/63 AV	223	214	M40 x 1.5	4L	35
IE2-K11R 160 M8 Ex e IIC	45	41	160	18	417	307	417	114	15	15	609	693	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 160 M6 Ex e IIC	45	41	160	18	417	307	417	114	15	15	609	693	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 160 MX2 Ex e IIC	45	45	160	18	409	336	435	138	15	20	609	724	63 A	184	172	100/63 AV	223	214	M40 x 1.5	4L	35
IE2-K11R 160 L2 Ex e IIC	45	45	160	18	409	336	435	138	15	20	609	724	63 A	184	172	100/63 AV	223	214	M40 x 1.5	4L	35
IE2-K11R 160 L4 Ex e IIC	45	45	160	18	409	336	435	138	15	20	667	783	63 A	184	172	100/63 AV	223	214	M40 x 1.5	4L	35
IE2-K11R 160 L6 Ex e IIC	45	45	160	18	409	336	435	138	15	20	609	724	63 A	184	172	100/63 AV	223	214	M40 x 1.5	4L	35

** Terminal box left/right

***) upon request

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

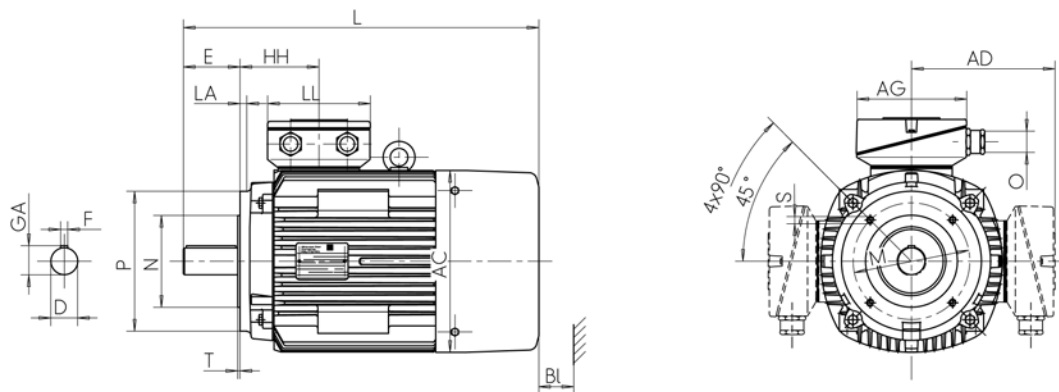
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Type of construction IM B14 [IM 3601]

Flange dimensions, see page 10/6



Type designation	Flange size		A	AA	AB	AC	AD	AD	B	BA	BB	C	D	DB ¹⁾	E	F
	B14K, B34K	B14G, B34G	b	n	f	g	g1	g1	a	m	e	w1	d		l	u
IE2-K11R 132 S2G Ex e IIC	C160	C200	216	50	256	217	220	220	140	53	180	89	38	M12	80	10
IE2-K11R 132 SX2G Ex e IIC	C200	C250	216	50	256	258	246	246	140	53	180	89	38	M12	80	10
IE2-K11R 160 MG2 Ex e IIC	C250	C300	254	55	296	313	249	275	210	60	257	108	42	M16	110	12
IE2-K11R 160 MX2G Ex e IIC	C250	C300	254	55	296	313	249	275	210	56	257	108	42	M16	110	12
IE2-K11R 160 L2G Ex e IIC	C250	C300	254	55	296	313	249	275	254	60	301	108	42	M16	110	12

¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

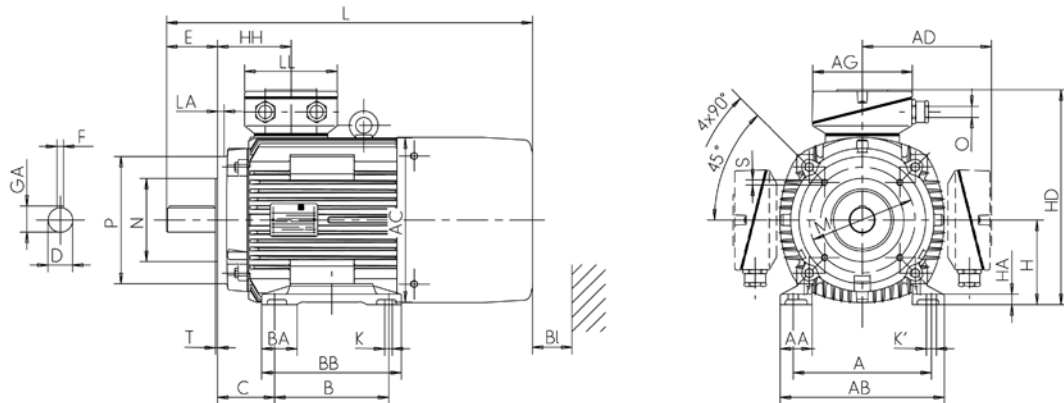
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Type of construction IM B34 [IM 2101]

Flange dimensions, see page 10/6



Type designation	GA	H	HA	HD	HD ^{*)}	HD	HH	K	K'	L	TB Type	AG	LL	TB Type	AG	LL	O	LB	BI
	t	h	c	p	p	p	A	s	s'	k	Ex e IIC Standard	x	z	Ex e IIC VIK	x	z	-		BI
IE2-K11R 132 S2G Ex e IIC	41	132	16	353	256.5	353	108	12	12	583	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 132 SX2G Ex e IIC	41	132	15	374	279	374	114	12	12	595	25 A	143	134	25 AV	143	134	M32 x 1.5	4L	35
IE2-K11R 160 MG2 Ex e IIC	45	160	18	409	336	435	138	15	20	698	63 A	184	172	100/63 AV	223	214	M40 x 1.5	4L	35
IE2-K11R 160 MX2G Ex e IIC	45	160	18	409	336	435	138	15	20	609	63 A	184	172	100/63 AV	223	214	M40 x 1.5	4L	35
IE2-K11R 160 L2G Ex e IIC	45	160	18	409	336	435	138	15	20	736	63 A	184	172	100/63 AV	223	214	M40 x 1.5	4L	35

^{*)} Terminal box left/right

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6

Type designation	Flange size	AC	AD	AD	D	DA	DB ¹⁾	E	EA	F	FA	GA	GC	H	HH
		g	g1	VIK g1	d	d1		l	l1	u	u1	t	t1	h	A
IE2-KPR 80 K2 Ex e IIC	A200	157	138	138	19	19	M6	40	40	6	6	21.5	21.5	80	79
IE2-KPR 80 G2, 4 Ex e IIC	A200	157	138	138	19	19	M6	40	40	6	6	21.5	21.5	80	79
IE2-KPR 90 S2, 4, 6 Ex e IIC	A200	177	146	146	24	24	M8	50	50	8	8	27	27	90	123
IE2-KPR 90 L2 Ex e IIC	A200	177	146	146	24	24	M8	50	50	8	8	27	27	90	123
IE2-KPR 90 L4, 6 Ex e IIC	A200	177	146	146	24	24	M8	50	50	8	8	27	27	90	123
IE2-KPR 100 L2, S8	A250	196	155	155	28	28	M10	60	60	8	8	31	31	100	86
IE2-KPR 100 L4 Ex e IIC	A250	196	155	155	28	28	M10	60	60	8	8	31	31	100	86
IE2-KPR 100 LX4 Ex e IIC	A250	196	155	155	28	28	M10	60	60	8	8	31	31	100	86
IE2-KPR 100 LX6 Ex e IIC	A250	196	155	155	28	28	M10	60	60	8	8	31	31	100	86
IE2-KPER 112 MX2 Ex e IIC	A250	196	155	155	28	28	M10	60	60	8	8	31	31	112	86
IE2-KPER 112 MZ4 Ex e IIC	A250	196	155	155	28	28	M10	60	60	8	8	31	31	112	86
IE2-KPER112 MV6 Ex e IIC	A250	196	155	155	28	28	M10	60	60	8	8	31	31	112	86
IE2-K11R 112 M2 Ex e IIC	A250	217	220	220	28	28	M10	60	60	8	8	31	31	112	108
IE2-K11R 112 M4 Ex e IIC	A250	217	220	220	28	28	M10	60	60	8	8	31	31	112	108
IE2-K11R 112 M6 Ex e IIC	A250	217	220	220	28	28	M10	60	60	8	8	31	31	112	108
IE2-K11R 132 S2 Ex e IIC	A300	217	220	220	38	32	M12	80	80	10	10	41	35	132	108
IE2-K11R 132 SX2 Ex e IIC	A300	258	246	246	38	32	M12	80	80	10	10	41	35	132	114
IE2-K11R 132 S4 Ex e IIC	A300	258	246	246	38	32	M12	80	80	10	10	41	35	132	114
IE2-K11R 132 S6 Ex e IIC	A300	217	220	220	38	32	M12	80	80	10	10	41	35	132	108
IE2-K11R 132 M4 Ex e IIC	A300	258	246	246	38	38	M12	80	80	10	10	41	41	132	114
IE2-K11R 132 M6 Ex e IIC	A300	217	220	220	38	32	M12	80	80	10	10	41	35	132	108
IE2-K11R 132 MX6 Ex e IIC	A300	258	246	246	38	38	M12	80	80	10	10	41	41	132	114
IE2-K11R 160 M2 Ex e IIC	A350	313	249	275	42	38	M16	110	110	12	10	45	41	160	138
IE2-K11R 160 M4 Ex e IIC	A350	313	249	275	42	38	M16	110	110	12	10	45	41	160	138
IE2-K11R 160 M8 Ex e IIC	A350	258	256	256	42	38	M16	110	80	12	10	45	41	160	114
IE2-K11R 160 M6 Ex e IIC	A350	258	256	256	42	38	M16	110	80	12	10	45	41	160	114
IE2-K11R 160 MX2 Ex e IIC	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138
IE2-K11R 160 L2 Ex e IIC	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138
IE2-K11R 160 L4 Ex e IIC	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138
IE2-K11R 160 L6 Ex e IIC	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138
IE2-K11R 180 M2 Ex e IIC	A350	351	268	294	48	48	M16	110	110	14	14	51.5	51.5	180	147
IE2-K11R 180 M4 Ex e IIC	A350	351	268	294	48	42	M16	110	110	14	12	51.5	45	180	147
IE2-K11R 180 L4 Ex e IIC	A350	351	268	294	48	48	M16	110	110	14	14	51.5	51.5	180	147
IE2-K11R 180 L6 Ex e IIC	A350	351	268	294	48	42	M16	110	110	14	12	51.5	45	180	147
IE2-K11R 200 L2 Ex e IIC	A400	351	268	294	55	48	M20	110	110	16	14	59	51.5	200	147
IE2-K11R 200 LX2 Ex e IIC	A400	390	311	375	55	48	M20	110	110	16	16	59	59	200	168
IE2-K11R 200 L4 Ex e IIC	A400	390	311	375	55	48	M20	110	110	16	14	59	51.5	200	168
IE2-K11R 200 LX6 Ex e IIC	A400	390	311	375	55	48	M20	110	110	16	14	59	51.5	200	168
IE2-K11R 200 L6 Ex e IIC	A400	351	268	294	55	48	M20	110	110	16	14	59	51.5	200	147
IE2-K11R 225 M2 Ex e IIC	A450	440	300	300	55	55	M20	110	110	16	16	59	59	225	177
IE2-K11R 225 S4 Ex e IIC	A450	440	300	300	60	55	M20	140	110	18	16	64	59	225	177
IE2-K11R 225 M4 Ex e IIC	A450	440	300	300	60	55	M20	140	110	18	16	64	59	225	177
IE2-K11R 225 S8 Ex e IIC	A450	390	311	375	60	55	M20	140	110	18	16	64	59	225	168
IE2-K11R 225 M6 Ex e IIC	A450	440	324	406	60	55	M20	140	110	18	16	64	59	225	177
IE2-K11R 225 M8 Ex e IIC	A450	440	324	406	60	55	M20	140	110	18	16	64	59	225	177
IE2-K11R 250 M2 Ex e IIC	A550	490	386	403	60	60	M20	140	140	18	18	64	64	250	206
IE2-K11R 250 M4 Ex e IIC	A550	490	386	403	65	55	M20	140	110	18	16	69	59	250	206
IE2-K11R 250 M6 Ex e IIC	A550	490	386	403	65	55	M20	140	110	18	16	69	59	250	206
IE2-K11R 280 S2 Ex e IIC	A550	490	386	403	65	60	M20	140	140	18	18	69	64	280	206
IE2-K11R 280 M2 Ex e IIC	A550	490	386	403	65	65	M20	140	140	18	18	69	69	280	206
IE2-K11R 280 S4 Ex e IIC	A550	550	386	403	75	65	M20	140	140	20	18	79.5	69	280	211
IE2-K11R 280 M4 Ex e IIC	A550	550	386	403	75	65	M20	140	140	20	18	79.5	69	280	211
IE2-K11R 280 S6 Ex e IIC	A550	490	386	403	75	65	M20	140	140	20	18	79.5	69	280	206
IE2-K11R 280 M6 Ex e IIC	A550	550	416	433	75	65	M20	140	140	20	18	79.5	69	280	211
IE2-K11R 280 S8 Ex e IIC	A550	490	386	403	75	65	M20	140	140	20	18	79.5	69	280	206
IE2-K11R 280 M8 Ex e IIC	A550	550	416	433	75	65	M20	140	140	20	18	79.5	69	280	211

¹⁾ Centre holes to DIN 332-DS ...

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Three-phase motors with squirrel-cage rotor, High Efficiency IE2

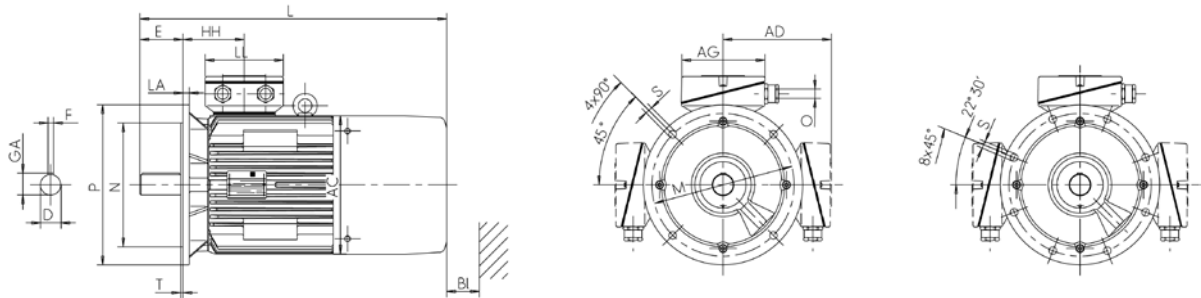
Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN IEC/60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	AD	D	DB ¹⁾	E	F	GA	H	HH
		g	g1	VIK g1	d		l	u	t	h	A
IE2-K11R 132 S2G Ex e IIC	A300	217	220	220	38	M12	80	10	41	132	108
IE2-K11R 132 SX2G Ex e IIC	A300	258	246	246	38	M12	80	10	41	132	114
IE2-K11R 160 M G2 Ex e IIC	A350	313	249	275	42	M16	110	12	45	160	138
IE2-K11R 160 MX2G Ex e IIC	A350	313	249	275	42	M16	110	12	45	160	138
IE2-K11R 160 L2G Ex e IIC	A350	313	249	275	42	M16	110	12	45	160	138
IE2-K11R 180 M2G Ex e IIC	A350	351	268	294	48	M16	110	14	51.5	180	147
IE2-K11R 200 L2G Ex e IIC	A400	351	268	294	55	M20	110	16	59	200	147
IE2-K11R 200 LX2G Ex e IIC	A400	390	311	375	55	M20	110	16	59	200	168
IE2-K11R 225 M2G Ex e IIC	A450	440	300	300	55	M20	110	16	59	225	177
IE2-K11R 250 M2G Ex e IIC	A550	490	386	403	60	M20	140	18	64	250	206
IE2-K11R 280 S2G Ex e IIC	A550	490	386	403	65	M20	140	18	69	280	206
IE2-K11R 280 M2G Ex e IIC	A550	490	386	403	65	M20	140	18	69	280	206

¹⁾ Centre holes to DIN 332-DS ...

Type designation	L	TB Type Ex e IIC Standard	AG x	LL z	TB Type Ex e IIC VIK	AG x	LL z	AH -	O -	LB	BI BI
IE2-K11R 132 S2G Ex e IIC	623	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 132 SX2G Ex e IIC	635	25 A	143	134	25 AV	143	134	-	M32 x 1.5	4L	35
IE2-K11R 160 M G2 Ex e IIC	738	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 160 MX2G Ex e IIC	649	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 160 L2G Ex e IIC	776	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 180 M2G Ex e IIC	821	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE2-K11R 200 L2G Ex e IIC	896	100/63 AV	223	214	100/63 AV	223	214	-	M50 x 1.5	4L	35
IE2-K11R 200 LX2G Ex e IIC	830	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE2-K11R 225 M2G Ex e IIC	937	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE2-K11R 250 M2G Ex e IIC	1089	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE2-K11R 280 S2G Ex e IIC	1089	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE2-K11R 280 M2G Ex e IIC	1089	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	8L	50

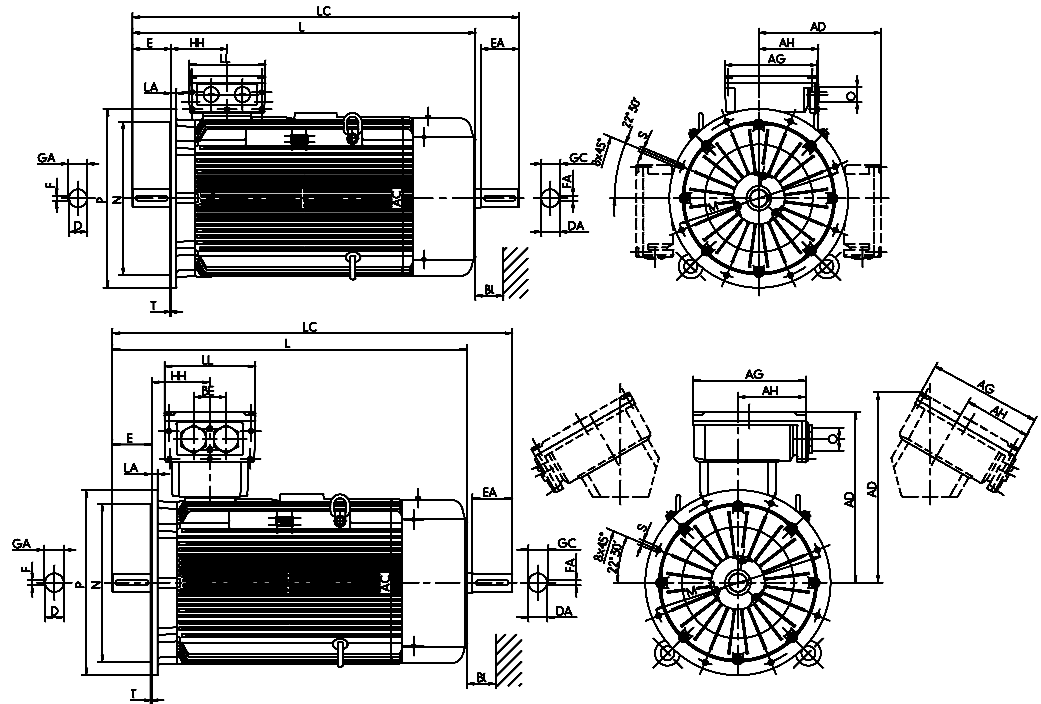
Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 315, 355

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	AD VIK	D	DA	DB'	E	EA	F	FA	GA	GC	H	HH	K	K'
		g	g1	g1	d	d1		l	l1	u	u1	t	t1	h	A	s	s'
IE2-K11R 315 S2 Ex e IIC	A660	550	416	460.5	65	65	M20	140	140	18	18	69	69	315	211	28	35
IE2-K11R 315 M2 Ex e IIC	A660	550	416	460.5	65	65	M20	140	140	18	18	69	69	315	211	28	35
IE2-K11R 315 MX2 Ex e IIC	A660	550	416	460.5	65	65	M20	140	140	18	18	69	69	315	211	28	35
IE2-K11R 315 MY2 Ex e IIC	A660	610	494	680.5	65	65	M20	140	140	18	18	69	69	315	230	28	35
IE2-K11R 315 L2 Ex e IIC	A660	610	494	680.5	65	65	M20	140	140	18	18	69	69	315	230	28	35
IE2-K11R 315 LX2 Ex e IIC	A660	610	494	680.5	65	65	M20	140	140	18	18	69	69	315	230	28	35
IE2-K11R 315 S4 Ex e IIC	A660	550	416	461	80	70	M20	170	140	22	20	85	74.5	315	211	28	35
IE2-K11R 315 M4 Ex e IIC	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	28	35
IE2-K11R 315 MX4 Ex e IIC	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	28	35
IE2-K11R 315 MY4 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K11R 315 L4 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K11R 315 LX4 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K11R 315 S6 Ex e IIC	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	28	35
IE2-K11R 315 M6 Ex e IIC	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	28	35
IE2-K11R 315 MX6 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K11R 315 MY6 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K11R 315 L6 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K11R 315 LX6 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K11R 315 S8 Ex e IIC	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	28	35
IE2-K11R 315 M8 Ex e IIC	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	28	35
IE2-K11R 315 MX8 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K11R 315 MY8 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K11R 315 L8 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K11R 315 LX8 Ex e IIC	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	28	35
IE2-K12R 355 MY4 Ex e IIC	A800	715	736	736	100	80	M24	210	170	28	22	106	85	355	250	28	35

Type designation	L	L	LC	TB Type	AG	LL	AH	TB Type	AG	LL	AH	O	LB	BI
	k	IM V1 k	k1	Ex e IIC Standard	x	z	-	Ex e IIC VIK	x	z	-	-		BI
IE2-K11R 315 S2 Ex e IIC	1050	1160	1218	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 M2 Ex e IIC	1105	1215	1273	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MX2 Ex e IIC	1185	1295	1353	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MY2 Ex e IIC	1270	1380	1448	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 L2 Ex e IIC	1390	1500	1568	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 LX2 Ex e IIC	1510	1620	1688	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 S4 Ex e IIC	1135	1234	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 M4 Ex e IIC	1135	1245	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MX4 Ex e IIC	1210	1325	1383	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MY4 Ex e IIC	1300	1410	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 L4 Ex e IIC	1420	1530	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 S6 Ex e IIC	1540	1650	1718	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 S6 Ex e IIC	1135	1245	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 M6 Ex e IIC	1135	1245	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MX6 Ex e IIC	1300	1410	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 MY6 Ex e IIC	1300	1410	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 L6 Ex e IIC	1420	1530	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 S8 Ex e IIC	1420	1530	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 S8 Ex e IIC	1135	1245	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 M8 Ex e IIC	1135	1245	1303	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MX8 Ex e IIC	1300	1410	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 MY8 Ex e IIC	1300	1410	1478	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 L8 Ex e IIC	1420	1530	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 LX8 Ex e IIC	1420	1530	1598	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K12R 355 MY4 Ex e IIC	1570	1690	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 M4 Ex e IIC	1570	1690	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 MY6 Ex e IIC	1570	1690	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 M6 Ex e IIC	1570	1690	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 MX6 Ex e IIC	1690	1810	1875	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 MX4 Ex e IIC	1690	1810	1875	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	8L	60
IE2-K12R 355 L4 Ex e IIC	1690	1810	1875	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	8L	60
IE2-K12R 355 L8 Ex e IIC	1690	1810	1875	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	8L	60

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Increased safety „e“ („eb“) for operation in Zone 1 according to EN 60079-7 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

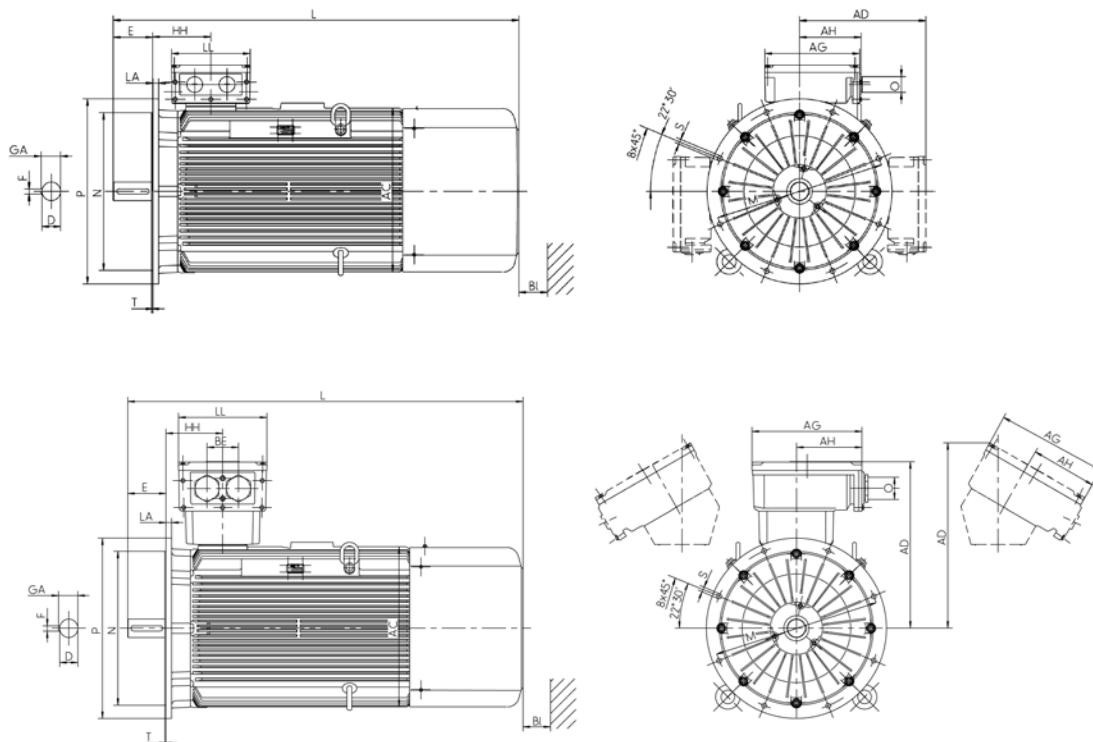
Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411

Size 315, 355

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	AD VIK	D	DB ¹⁾	E	F	GA	H	HH	K	K'
		g	g1	g1	d		l	u	t	h	A	s	s'
IE2-K11R 315 S2G Ex e IIC	A660	550	416	460.5	65	M20	140	18	69	315	211	28	35
IE2-K11R 315 M2G Ex e IIC	A660	550	416	460.5	65	M20	140	18	69	315	211	28	35
IE2-K11R 315 MX2G Ex e IIC	A660	550	416	460.5	65	M20	140	18	69	315	211	28	35
IE2-K11R 315 MY2G Ex e IIC	A660	610	494	680.5	65	M20	140	18	69	315	230	28	35
IE2-K11R 315 L2G Ex e IIC	A660	610	494	680.5	65	M20	140	18	69	315	230	28	35
IE2-K11R 315 LX2G Ex e IIC	A660	610	494	680.5	65	M20	140	18	69	315	230	28	35
IE2-K12R 355 MY2 Ex e IIC	A800	715	736	736	80	M20	170	22	85	355	250	28	35
IE2-K12R 355 M2 Ex e IIC	A800	715	736	736	80	M20	170	22	85	355	250	28	35
IE2-K12R 355 MX2G Ex e IIC	A800	715	729	729	80	M20	170	22	85	355	327	28	35
IE2-K12R 355 L2 Ex e IIC	A800	715	729	729	80	M20	170	22	85	355	327	28	35

¹⁾ Centre holes to DIN 332-DS ...

Type designation	L	L	TB Type	AG	LL	AH	TB Type	AG	LL	AH	O	LB	BI
	k	IM V1 k	Ex e IIC Standard	x	z	-	Ex e IIC VIK	x	z	-	-		BI
IE2-K11R 315 S2G Ex e IIC	1135	1245	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 M2G Ex e IIC	1190	1300	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MX2G Ex e IIC	1270	1380	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	8L	55
IE2-K11R 315 MY2G Ex e IIC	1270	1380	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 L2G Ex e IIC	1510	1620	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K11R 315 LX2G Ex e IIC	1630	1740	630 A	496	390	301	630 A	496	390	301	M63 x 1.5	8L	55
IE2-K12R 355 MY2 Ex e IIC	1530	1650	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 M2 Ex e IIC	1530	1650	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	8L	60
IE2-K12R 355 MX2G Ex e IIC	1650	1770	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	8L	60
IE2-K12R 355 L2 Ex e IIC	1650	1770	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	8L	60

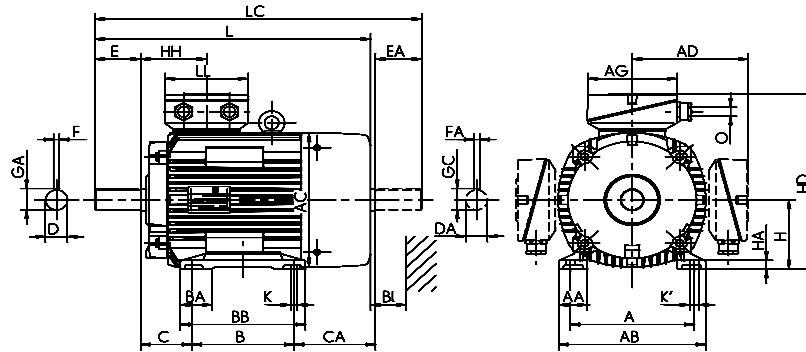
Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“), VIK version

with surface cooling, type of cooling IC 411, degree of protection IP 55

Size 56 to 250

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ^{*)}	E	EA	F	FA
		b	n	f	g	g1	VIK	a	m	e	w1	w2	d	d1		l	l1	u	u1
KPEO 56 K	A120	90	18	110	109	-	-	71	-	86	36	28	9	9	M3	20	20	3	3
KPER 56 G	A120	90	18	110	109	-	-	71	-	86	36	52	9	9	M3	20	20	3	3
KPER 63 K, L	A140	100	28	128	109	-	-	80	-	100	40	39	11	11	M4	23	23	4	4
KPER 71 K, L	A160	112	32	138	124	-	-	90	-	116	45	44	14	14	M5	30	30	5	5
KPER 80 K, L	A200	125	38	168	139	-	-	100	-	125	50	63	19	19	M6	40	40	6	6
KPER 90 S	A200	140	40	178	157	-	-	100	-	130	56	74	24	22	M8	50	50	8	6
KPER 90 L	A200	140	40	178	157	-	-	125	-	155	56	71	24	22	M8	50	50	8	6
KPER 100 L	A250	160	45	192	177	-	-	140	-	175	63	73	28	24	M10	60	50	8	8
KPER 100 LX4	A250	160	33	188	196	-	-	140	-	171	63	102	28	28	M10	60	60	8	8
KPER 112 M2	A250	190	50	224	196	-	-	140	-	180	70	95	28	28	M10	60	60	8	8
KPER 112 MX2	A250	190	50	224	196	-	-	140	-	180	70	129	28	28	M10	60	60	8	8
KPER 112 M4	A250	190	50	224	196	-	-	140	-	180	70	129	28	28	M10	60	60	8	8
KPER 132 S2T	A300	216	50	256	196	-	-	140	-	180	89	129	38	28	M10	80	60	10	8
KPER 132 S4T	A300	216	50	256	196	-	-	140	-	180	89	129	38	28	M10	80	60	10	8
K11R 132 S2	A300	216	50	256	217	178	178	140	55	180	89	153	38	32	M12	80	80	10	10
K11R 132 SX2	A300	216	50	256	258	178	178	140	47	180	89	176	38	38	M12	80	80	10	10
K12R 132 SX2	A300	216	50	256	258	178	178	140	47	180	89	176	38	38	M12	80	80	10	10
K11R 132 S4	A300	216	50	256	217	178	178	140	55	180	89	153	38	32	M12	80	80	10	10
K11R 132 M4	A300	216	50	256	258	199	199	178	55	218	89	138	38	38	M12	80	80	10	10
K11R 132 M6	A300	216	50	256	217	178	178	178	55	218	89	135	38	32	M12	80	80	10	10
K11R 132 MX6	A300	216	50	256	258	199	199	178	55	218	89	138	38	38	M12	80	80	10	10
K11R 132 M8	A300	216	50	256	217	178	178	178	55	218	89	135	38	32	M12	80	80	10	10
K11R 160 M2	A350	254	55	296	313	249	275	210	60	257	108	178	42	38	M16	110	80	12	10
K11R 160 MX2	A350	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
K11R 160 L2	A350	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12
K11R 160 M4	A350	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
K11R 160 L4	A350	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12
K11R 160 M6	A350	254	55	296	258	249	275	210	60	257	108	135	42	38	M16	110	80	12	10
K11R 160 L6	A350	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12
K11R 160 M8	A350	254	55	296	258	225	251	210	60	257	108	135	42	38	M16	110	80	12	10
K11R 160 MX8	A350	254	55	296	258	225	251	210	60	257	108	135	42	38	M16	110	80	12	10
K11R 180 M2	A350	279	62	328	351	261	242	241	65	288	121	169	48	48	M16	110	110	14	14
K11R 180 M4	A350	279	62	328	351	242	242	241	65	288	121	169	48	42	M16	110	110	14	12
K11R 180 L4	A350	279	62	328	351	261	261	279	65	326	121	176	48	48	M16	110	110	14	14
K11R 180 L6	A350	279	62	328	313	242	242	279	65	326	121	104	48	42	M16	110	110	14	12
K11R 200 L2	A400	318	70	372	351	261	301	305	70	360	133	138	55	48	M20	110	110	16	14
K11R 200 LX2	A400	318	70	372	390	300	300	305	70	360	133	193	55	55	M20	110	110	16	16
K11R 200 L4	A400	318	70	372	351	261	301	305	70	360	133	138	55	48	M20	110	110	16	14
K11R 200 L6	A400	318	70	372	351	261	301	305	70	360	133	138	55	48	M20	110	110	16	14
K11R 200 LX6	A400	318	70	372	351	261	301	305	70	360	133	138	55	48	M20	110	110	16	14
K11R 225 M2	A450	356	75	413	440	300	300	311	75	368	149	267	55	55	M20	110	110	16	16
K11R 225 S4	A450	356	75	413	440	300	300	286	75	343	149	262	60	55	M20	140	110	18	16
K11R 225 M4	A450	356	75	413	440	300	300	311	75	368	149	267	60	55	M20	140	110	18	16
K11R 225 M6	A450	356	75	413	390	300	300	311	75	368	149	171	60	55	M20	140	110	18	16
K11R 225 S8	A450	356	75	413	390	300	300	286	75	343	149	196	60	55	M20	140	110	18	16
K11R 250 M2	A550	406	84	469	490	358	324	349	84	412	168	275	60	55	M20	140	110	18	16
K11R 250 M4	A550	406	84	469	490	358	324	349	84	412	168	275	65	55	M20	140	110	18	16

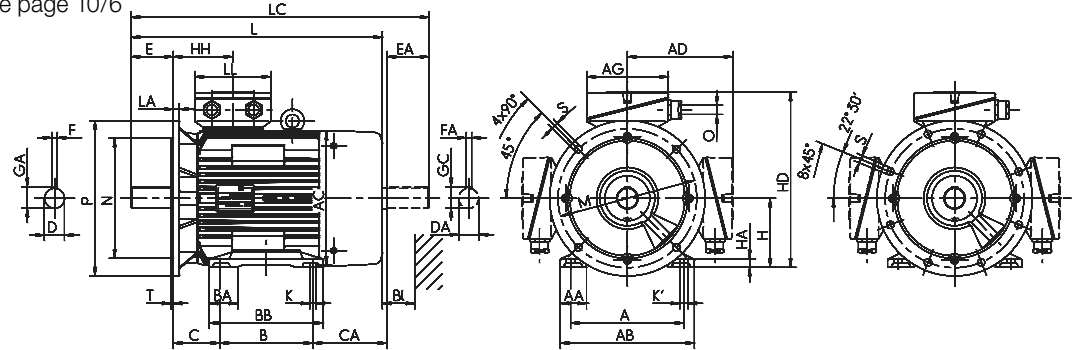
Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 56 to 250

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	L (IM V1)	LC	TB Type	AG	LL	O	TB Type	AG	LL	O	Hole pattern	BI
	t	t1	h	c	p	p	VIK	A	s	s'	k	k (IM V1)	k1	Ex e IIC Standard			-	Ex e IIC VIK					BI
KPEO 56 K	10.2	10.2	56	7	173	113	173	67	6	6	152	152	175	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	-
KPER 56 G	10.2	10.2	56	7	173	113	173	67	6	6	177	198	199	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	14
KPER 63 K, L	12.5	12.5	63	10	180	121	180	67	8	8	180	198	205	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	14
KPER 71 K, L	16	16	71	11	194	133	194	70	8	8	207	225	239	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	14
KPER 80 K, L	21.5	21.5	80	12	210	150	210	76	10	10	250	268	293	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	16
KPER 90 S	27	24.5	90	14	229	170	229	79	10	10	276	294	330	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	16
KPER 90 L	27	24.5	90	14	229	170	229	79	10	10	298	316	352	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	16
KPER 100 L	31	27	100	15	246	189	246	84	12	12	332	350	386	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	18
KPER 100 LX4	31	31	100	11	256	198	256	86	12	12	358	376	425	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 112 M2	31	31	112	18	268	210	268	86	12	12	392	376	425	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 112 MX2	31	31	112	18	268	210	268	86	12	12	392	376	459	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 112 M4	31	31	112	18	268	210	268	86	12	12	392	376	459	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 132 S2T	41	31	132	18	287	266	287	105	12	12	431	457	498	KA 05-13	104	112	M32 x 1.5	KA 05-13	104	112	M32 x 1.5	4L	20
KPER 132 S4T	41	31	132	18	287	266	287	105	12	12	460	480	528	KA 05-13	104	112	M32 x 1.5	KA 05-13	104	112	M32 x 1.5	4L	20
K11R 132 S2	41	35	132	16	310	257	310	108	12	12	459	499	542	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 SX2	41	35	132	15	310	279	310	108	12	12	459	499	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K12R 132 SX2	41	35	132	15	310	279	310	108	12	12	530	570	613	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 S4	41	35	132	16	310	257	310	108	12	12	459	499	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 M4	41	41	132	16	331	279	331	114	12	12	481	521	565	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 M6	41	35	132	16	310	257	310	108	12	12	479	519	562	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 MX6	41	41	132	16	331	279	331	114	12	12	481	521	565	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 M8	41	35	132	16	310	257	310	108	12	12	479	519	562	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 160 M2	45	41	160	18	374	336	397	114	15	20	571	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 MX2	45	45	160	18	402	336	402	138	15	20	571	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L2	45	45	160	18	402	336	402	138	15	20	609	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 M4	45	45	160	18	374	336	374	114	15	20	571	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160L4	45	45	160	18	402	336	402	138	15	20	609	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 M6	45	41	160	18	374	307	397	114	15	20	559	599	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L6	45	45	160	18	402	336	402	138	15	20	609	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 M8	45	41	160	18	374	307	397	138	15	20	559	599	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 MX8	45	41	160	18	374	307	397	138	15	20	559	599	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 M2	51.5	51.5	180	20	441	369	422	147	15	20	635	675	751	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 M4	51.5	45	180	20	441	369	422	138	15	20	635	675	751	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 L4	51.5	51.5	180	20	441	369	441	147	15	20	680	720	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 L6	51.5	45	180	20	422	369	402	138	15	20	609	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 200 L2	59	51.5	200	22	461	389	501	147	19	25	680	720	796	100/63 AV	223	214	M50 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
K11R 200 LX2	59	59	200	22	500	417	555	168	19	25	727	772	851	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	4L	35
K11R 200 L4	59	51.5	200	22	461	389	501	147	19	25	680	720	796	100 A	222	214	M50 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
K11R 200 L6	59	51.5	200	22	461	389	501	147	19	25	680	720	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 200 LX6	59	51.5	200	22	461	389	501	147	19	25	680	720	796	100/63 AV	223	214	M50 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
K11R 225 M2	59	59	225	25	525	459	555	168	19	25	832	917	947	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	45
K11R 225 S4	64	59	225	25	525	459	555	168	19	25	862	947	977	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	45
K11R 225 M4	64	59	225	25	525	459	555	168	19	25	862	947	977	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	45
K11R 225 M6	64	59	225	25	525	442	555	168	19	25	757	842	881	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	40
K11R 225 S8	64	59	225	25	525	442	555	168	19	25	757	802	881	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	40
K11R 250 M2	64	59	250	28	608	516	604	177	24	30	924	1010	1042	200 A	290	252	M63 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	50
K11R 250 M4	69	59	250	28	608	516	604	177	24	30	924	1010	1042	200 A	290	252	M63 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	50

**) Terminal box left/right

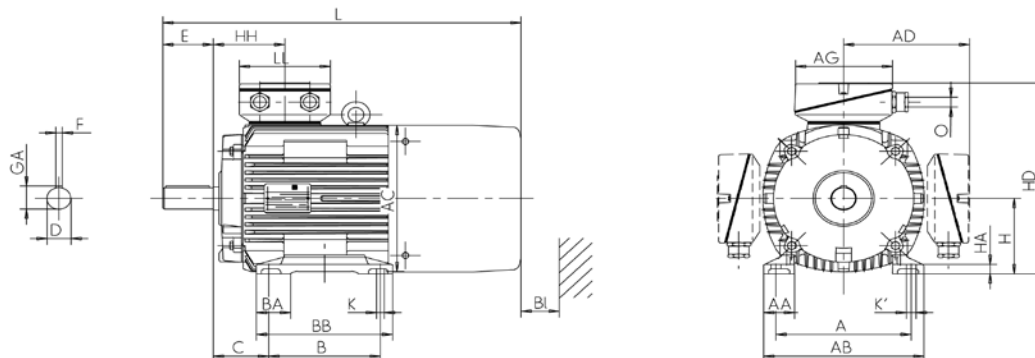
Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 132 to 250

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BB	C	D	DB ¹⁾	E	F
		b	n	f	g	g1	V1K	a	m	e	w1	d		l	u
K11R 132 S2G	A300	216	50	256	217	178	178	140	55	180	89	38	M12	80	10
K11R 132 SX2G	A300	216	50	256	258	178	178	140	47	180	89	38	M12	80	10
K12R 132 SX2G	A300	216	50	256	258	178	178	140	47	180	89	38	M12	80	10
K11R 160 M2G	A350	254	55	296	313	249	275	210	60	257	108	42	M16	110	12
K11R 160 MX2G	A350	254	55	296	313	249	275	210	60	257	108	42	M16	110	12
K11R 160 L2G	A350	254	55	296	313	249	275	254	60	301	108	42	M16	110	12
K11R 180 M2G	A350	279	62	328	351	261	261	241	65	288	121	48	M16	110	14
K11R 200 L2G	A400	318	70	372	351	261	301	305	70	360	133	55	M20	110	16
K11R 200 LX2G	A400	318	70	372	390	300	300	305	70	360	133	55	M20	110	16
K11R 225 M2G	A450	356	75	413	440	300	300	311	75	368	149	55	M20	110	16
K11R 250 M2G	A550	406	84	469	490	358	324	349	84	412	168	60	M20	140	18

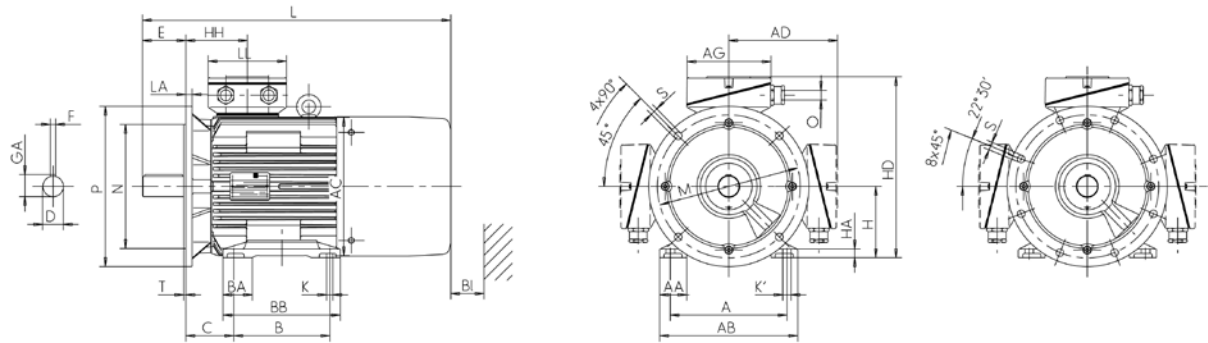
¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor
Type of explosion protection – Increased safety „e“ („eb“)
Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411, degree of protection IP 55
 Size 132 to 250

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	H	HA	HD	HD ^{*)}	HD	HH	K	K'	L	L (IM V1) k (IM V1)	TB Type Ex e IIC Standard	AG	LL	O	TB Type Ex e IIC VIK	AG	LL	O	Hole pattern	BI
	t	h	c	p	p	VIK	A	s	s'	k					-						BI
K11R 132 S2G	41	132	16	310	257	310	108	12	12	584	624	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 SX2G	41	132	15	310	279	310	108	12	12	584	624	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K12R 132 SX2G	41	132	15	310	279	310	108	12	12	644	684	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 160 M2G	45	160	18	374	336	374	114	15	20	699	739	25 A	143	134	M32 x 1.5	100/63 AV	223	214	M32 x 1.5	4L	35
K11R 160 MX2G	45	160	18	402	336	402	138	15	20	699	739	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L2G	45	160	18	402	336	402	138	15	20	737	777	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 M2G	51.5	180	20	441	369	441	147	15	20	782	822	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 200 L2G	59	200	22	461	389	501	147	19	25	827	867	100/63 AV	223	214	M50 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
K11R 200 LX2G	59	200	22	500	417	555	168	19	25	790	835	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	4L	35
K11R 225 M2G	59	225	25	525	459	555	168	19	25	897	952	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	45
K11R 250 M2G	64	250	28	608	516	604	177	24	30	1004	1090	200 A	290	252	M63 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	50

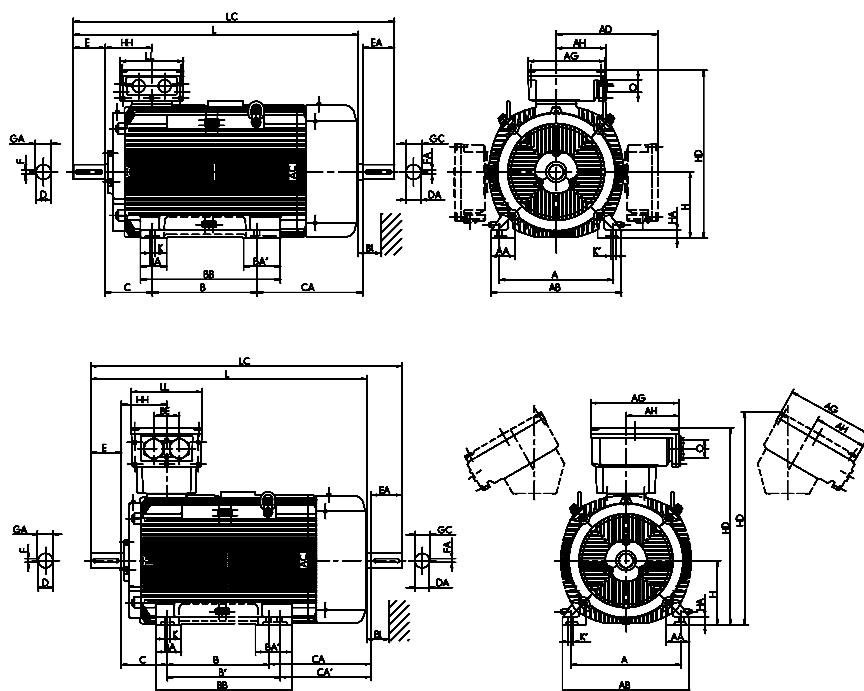
^{*)} Terminal box left/right

Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 280 to 315

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	B'	BA	BA'	BB	C	CA	D	DA	DB'	E	EA	F	FA
VIK																					
		b	n	f	g	g1	g1	a	a'	m	m1	e	w1	w2	d	d1		l	l1	u	u1
K11R 280 S2	A550	457	94	522	550	386	386	368	-	96	-	431	190	380	65	65	M20	140	140	18	18
K11R 280 M2	A550	457	94	522	550	386	386	419	-	96	-	482	190	384	65	65	M20	140	140	18	18
K11R 280 S4	A550	457	94	522	550	386	386	368	-	96	-	431	190	380	75	65	M20	140	140	20	18
K11R 280 M4	A550	457	94	522	550	386	386	419	-	96	-	482	190	384	75	65	M20	140	140	20	18
K11R 280 S6	A660	457	88	522	550	386	386	368	-	-	-	431	190	380	80	70	M20	140	140	20	18
K11R 315 S2	A660	508	132	590	550	416	451	406	-	120	-	554	216	371	65	65	M20	140	140	18	18
K11R 315 M2	A660	508	132	590	550	416	451	457	-	120	-	554	216	400	65	65	M20	140	140	18	18
K11R 315 MX2	A660	508	126	590	550	416	451	406	457	120	150	554	216	400	65	65	M20	140	140	18	18
K11R 315 MY2	A660	508	110	590	610	498	681	457	-	120	-	573	216	495	65	65	M20	140	140	18	18
K11R 315 S4	A660	508	132	590	550	416	451	406	-	120	-	554	216	371	80	70	M20	170	140	22	20
K11R 315 M4	A660	508	132	590	550	416	451	457	-	120	-	554	216	400	80	70	M20	170	140	22	20
K11R 315 MX4	A660	508	126	590	550	416	451	406	457	120	150	554	216	400	80	70	M20	170	140	22	20
K11R 315 MY4	A660	508	110	590	610	498	681	457	-	120	-	573	216	495	80	70	M20	170	140	22	20
K11R 315 L4	A660	508	110	590	610	498	681	508	-	120	-	624	216	564	80	70	M20	170	140	22	20
K11R 315 MX6	A660	508	126	590	550	416	451	406	457	120	150	554	216	320	80	70	M20	170	140	22	20
K11R 315 L2	A660	508	110	590	610	681	681	508	-	120	-	624	216	539	65	65	M20	140	140	18	18
K11R 315 LX2	A660	508	110	590	610	681	681	508	-	120	-	624	216	684	65	65	M20	140	140	18	18
K11R 315 LX4	A660	508	110	590	610	681	681	508	-	120	-	624	216	689	80	70	M20	170	140	22	20
K11R 315 LX6	A660	508	110	590	610	681	681	508	-	120	-	624	216	564	80	70	M20	170	140	22	20

^{*)} Centre holes to DIN 332-DS ...

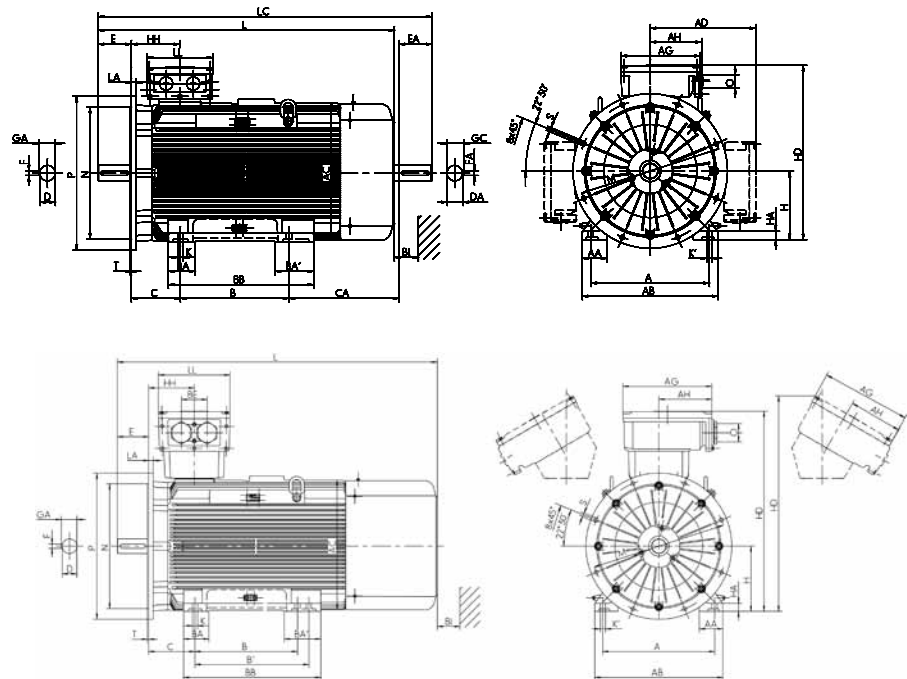
Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 280 to 315

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD ^{*)}	HD	HH	K	K'	L	L	LC	TB Type	AG	LL	AH	TB Type	AG	LL	AH	O	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k	k1	Ex e IIC Standard			-	Ex e IIC VIK	x	z	-	r	BI
K11R 280 S2	69	69	280	40	666	560	666	206	24	30	1050	1149	1218	200 A	290	252	-	200 A-SB	335	270	200	M63 x 1.5	55
K11R 280 M2	69	69	280	40	666	560	666	206	24	30	1105	1204	1273	200 A	290	252	-	200 A-SB	335	270	200	M63 x 1.5	55
K11R 280 S4	79.5	69	280	40	666	560	666	206	24	30	1050	1149	1218	200 A	290	252	-	200 A-SB	335	270	200	M63 x 1.5	55
K11R 280 M4	79.5	69	280	40	666	560	666	206	24	30	1105	1204	1273	200 A	290	252	-	200 A-SB	335	270	200	M63 x 1.5	55
K11R 280 S6	79.5	69	280	40	666	560	666	206	24	30	1080	1179	1248	200 A	290	252	-	200 A-SB	335	270	200	M63 x 1.5	55
K11R 315 S2	69	69	315	44	731	595	766	211	28	35	1105	1204	1273	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	55
K11R 315 M2	69	69	315	44	731	595	766	211	28	35	1185	1284	1353	200 A	290	252	-	400 A-SB	415	340	265	M63 x 1.5	55
K11R 315 MX2	69	69	315	44	731	595	766	211	28	35	1185	1284	1353	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55
K11R 315 MY2	69	69	315	44	808	628	996	230	28	35	1270	1385	1448	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55
K11R 315 S4	85	74.5	315	44	731	595	760	211	28	35	1135	1234	1303	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55
K11R 315 M4	85	74.5	315	44	731	595	760	211	28	35	1215	1314	1383	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55
K11R 315 MX4	85	74.5	315	44	731	595	760	211	28	35	1215	1314	1383	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55
K11R 315 MY4	85	74.5	315	44	808	628	996	230	28	35	1300	1415	1478	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55
K11R 315 L4	85	74.5	315	44	808	628	996	230	28	35	1420	1535	1598	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55
K11R 315 MX6	85	74.5	315	44	731	595	760	211	28	35	1135	1234	1303	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55
K11R 315 L2	69	69	315	44	996	628	996	230	28	35	1390	1505	1543	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	55
K11R 315 LX2	69	69	315	44	996	628	996	230	28	35	1510	1625	1688	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	55
K11R 315 LX4	85	74.5	315	44	996	628	996	230	28	35	1540	1655	1723	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	55
K11R 315 LX6	85	74.5	315	44	996	628	996	230	28	35	1420	1535	1598	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	55

^{*)} Terminal box left/right

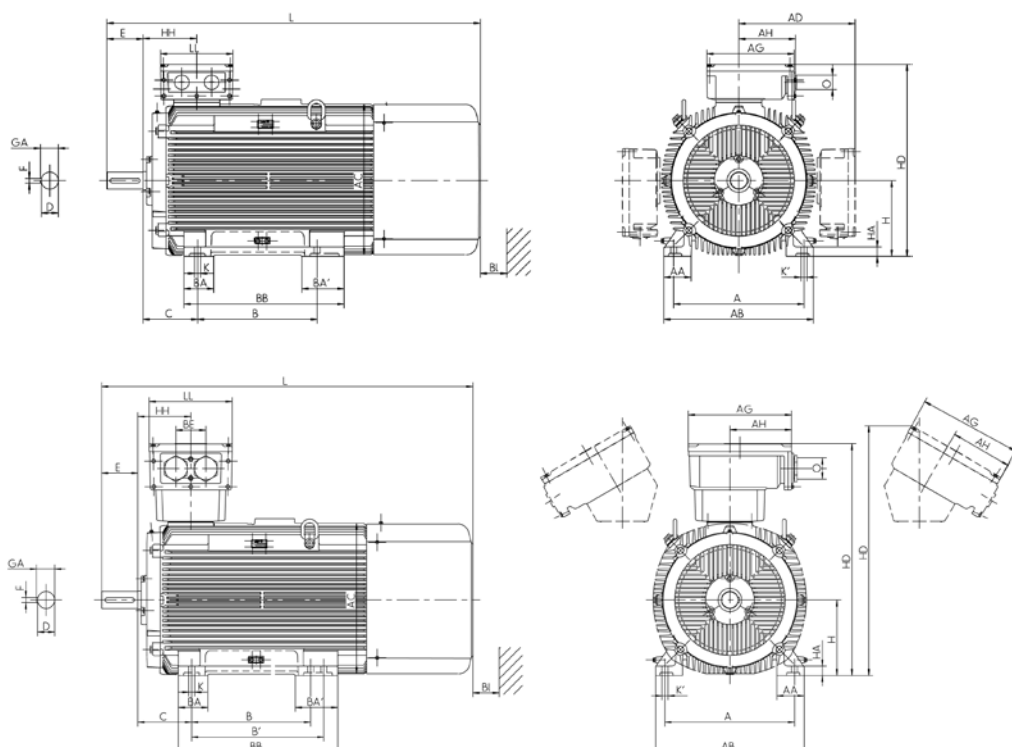
Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 280 to 315

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	B'	BA	BA'	BB	C	CA	D	DB ¹⁾	E	F
		b	n	f	g	g1	g1	a	a'	m	m1	e	w1	w2	d		l	u
K11R 280 S2G	A550	457	94	522	550	386	386	368	-	96	-	431	190	380	65	M20	140	18
K11R 280 M2G	A550	457	94	522	550	386	386	419	-	96	-	482	190	384	65	M20	140	18
K11R 315 S2G	A660	508	132	590	550	416	451	406	-	120	-	554	216	371	65	M20	140	18
K11R 315 M2G	A660	508	132	590	550	416	451	457	-	120	-	554	216	400	65	M20	140	18
K11R 315 MX2G	A660	508	126	590	550	416	451	406	457	120	150	554	216	400	65	M20	140	18
K11R 315 MY2G	A660	508	110	590	610	493	681	457	-	120	-	573	216	495	65	M20	140	18
K11R 315 L2G	A660	508	110	590	610	681	681	508	-	120	-	624	216	539	65	M20	140	18
K11R 315 LX2G	A660	508	110	590	610	681	681	508	-	120	-	624	216	684	65	M20	140	18

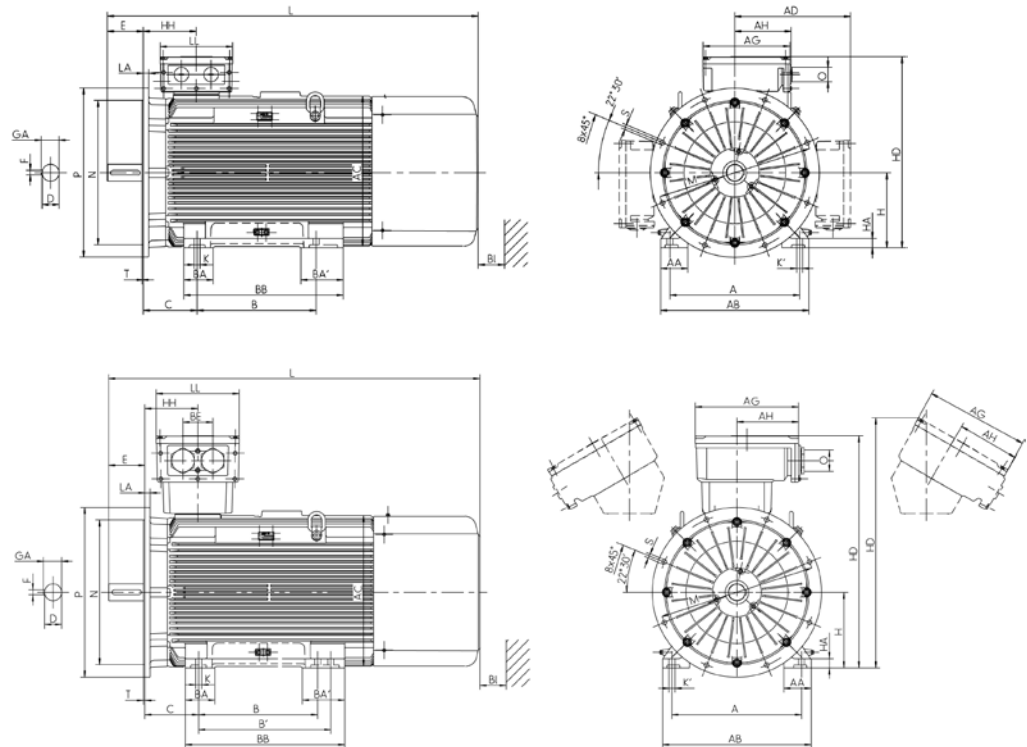
¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor
Type of explosion protection – Increased safety „e“ („eb“)
Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411, degree of protection IP 55
 Size 280 to 315

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	H	HA	HD	HD ^{**)}	HD	HH	K	K'	L	L (IM V1)	TB Type	AG	LL	AH	TB Type	AG	LL	AH	O	BI
	t	h	c	p	p	VIK p	A	s	s'	k	k (IM V1)	Ex e IIC Standard			-	Ex e IIC VIK	x	z	-	r	BI
K11R 280 S2G	69	280	40	666	560	666	206	24	30	1135	1234	200 A	290	252	-	200 A-SB	335	270	200	M63 x 1.5	55
K11R 280 M2G	69	280	40	666	560	666	206	24	30	1190	1289	200 A	290	252	-	200 A-SB	335	270	200	M63 x 1.5	55
K11R 315 S2G	69	315	44	731	595	766	211	28	35	1190	1289	200 A	290	252	-	200 A-SB	335	270	200	M63 x 1.5	55
K11R 315 M2G	69	315	44	731	595	766	211	28	35	1270	1369	200 A	290	252	-	200 A-SB	335	270	200	M63 x 1.5	55
K11R 315 MX2G	69	315	44	731	595	766	211	28	35	-	-	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55
K11R 315 MY2G	69	315	44	808	628	996	230	28	35	1390	1505	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55
K11R 315 L2G	69	315	44	996	628	996	230	28	35	1510	1625	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	55
K11R 315 LX2G	69	315	44	996	628	996	230	28	35	1510	1625	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	55

^{**)} Terminal box left/right

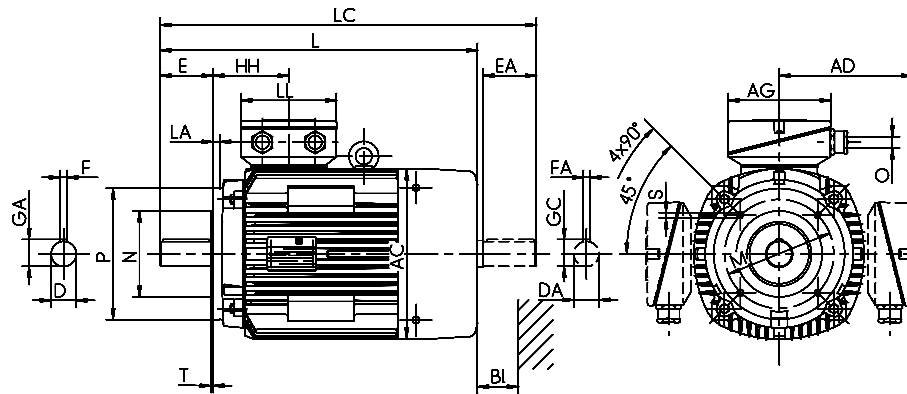
Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 56 to 180

Type of construction IM B14 [IM 3601]

Flange dimensions, see page 10/6



Type designation	Flange size		A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
	small	large	b	n	f	g	g1	g1	a	m	e	w1	w2	d	d1		l	l1	u	u1
KPEO 56 K	C80	C105	90	18	110	109	-	-	71	-	86	36	28	9	9	M3	20	20	3	3
KPER 56 G	C80	C105	90	18	110	109	-	-	71	-	86	36	52	9	9	M3	20	20	3	3
KPER 63 K, L	C90	C120	100	28	128	109	-	-	80	-	100	40	39	11	11	M4	23	23	4	4
KPER 71 K, L	C105	C140	112	32	138	124	-	-	90	-	116	45	44	14	14	M5	30	30	5	5
KPER 80 K, L	C120	C160	125	38	168	139	-	-	100	-	125	50	63	19	19	M6	40	40	6	6
KPER 90 S	C140	C160	140	40	178	157	-	-	100	-	130	56	74	24	22	M8	50	50	8	6
KPER 90 L	C140	C160	140	40	178	157	-	-	125	-	155	56	71	24	22	M8	50	50	8	6
KPER 100 L	C160	C200	160	45	192	177	-	-	140	-	175	63	73	28	24	M10	60	50	8	8
KPER 100 LX4	C160	C200	160	33	188	196	-	-	140	-	171	63	102	28	28	M10	60	60	8	8
KPER 112 M2	C160	C200	190	50	224	196	-	-	140	-	180	70	95	28	28	M10	60	60	8	8
KPER 112 MX2	C160	C200	190	50	224	196	-	-	140	-	180	70	129	28	28	M10	60	60	8	8
KPER 112 M4	C160	C200	190	50	224	196	-	-	140	-	180	70	129	28	28	M10	60	60	8	8
KPER 132 S2T	C160	C200	216	50	256	196	-	-	140	-	180	89	129	38	28	M10	80	60	10	8
KPER 132 S4T	C160	C200	216	50	256	196	-	-	140	-	180	89	129	38	28	M10	80	60	10	8
K11R 132 S2	C160	C200	216	50	256	217	178	178	140	55	180	89	153	38	32	M12	80	80	10	10
K11R 132 SX2	C160	C200	216	50	256	258	178	178	140	47	180	89	176	38	38	M12	80	80	10	10
K12R 132 SX2	C160	C200	216	50	256	258	178	178	140	47	180	89	176	38	38	M12	80	80	10	10
K11R 132 S4	C160	C200	216	50	256	217	178	178	140	55	180	89	153	38	32	M12	80	80	10	10
K11R 132 M4	C200	C250	216	50	256	258	199	199	178	55	218	89	138	38	38	M12	80	80	10	10
K11R 132 M6	C160	C200	216	50	256	217	178	178	178	55	218	89	135	38	32	M12	80	80	10	10
K11R 132 MX6	C200	C250	216	50	256	258	199	199	178	55	218	89	138	38	38	M12	80	80	10	10
K11R 132 M8	C160	C200	216	50	256	217	178	178	178	55	218	89	135	38	32	M12	80	80	10	10
K11R 160 M2	C250	C300	254	55	296	313	214	237	210	60	257	108	178	42	38	M16	110	80	12	10
K11R 160 MX2	C250	C300	254	55	296	313	242	242	210	60	257	108	148	42	42	M16	110	110	12	12
K11R 160 L2	C250	C300	254	55	296	313	242	242	254	60	301	108	142	42	42	M16	110	110	12	12
K11R 160 M4	C250	C300	254	55	296	313	214	214	210	60	257	108	148	42	42	M16	110	110	12	12
K11R 160 L4	C250	C300	254	55	296	313	242	242	254	60	301	108	142	42	42	M16	110	110	12	12
K11R 160 M6	C200	C250	254	55	296	258	214	214	210	60	257	108	135	42	38	M16	110	80	12	10
K11R 160 L6	C250	C300	254	55	296	313	242	242	254	60	301	108	142	42	42	M16	110	110	12	12
K11R 160 M8	C200	C250	254	55	296	258	214	237	210	60	257	108	135	42	38	M16	110	80	12	10
K11R 160 MX8	C200	C250	254	55	296	258	214	237	210	60	257	108	135	42	38	M16	110	80	12	10
K11R 180 M4	C300	0	279	62	328	351	242	242	241	65	288	121	169	48	42	M16	110	110	14	12
K11R 180 L6	C300	0	279	62	328	313	242	242	279	65	326	121	104	48	42	M16	110	110	14	12

¹⁾ Centre holes to DIN 332-DS ...

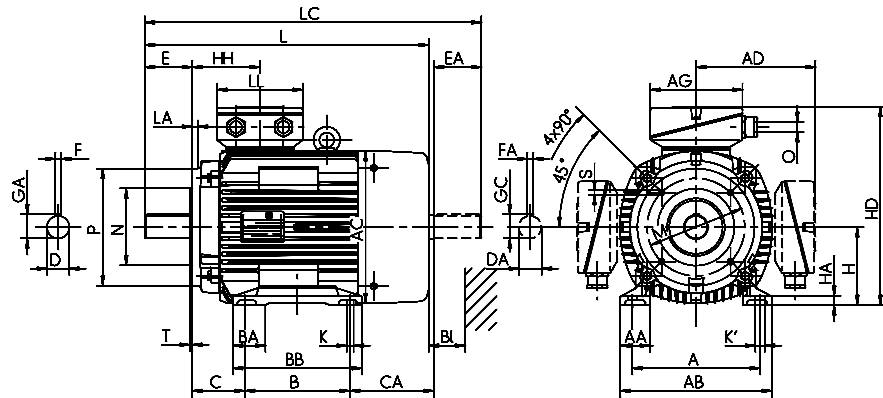
Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 56 to 180

Type of construction IM B34 [IM 2101]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	L	LC	TB Type	AG	LL	O	TB Type	AG	LL	O	LB	BI
	t	tl	h	c	p	p	p	A	s	s'	k	k	k1	Ex e IIC Standard			-	Ex e IIC VIK	x	z	r		BI
KPEO 56 K	10.2	10.2	56	7	173	113	-	67	6	6	152	152	175	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	-
KPER 56 G	10.2	10.2	56	7	173	113	-	67	6	6	177	198	199	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	14
KPER 63 K, L	12.5	12.5	63	10	180	121	-	67	8	8	180	198	205	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	14
KPER 71 K, L	16	16	71	11	194	133	-	70	8	8	207	225	239	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	14
KPER 80 K, L	21.5	21.5	80	12	210	150	-	76	10	10	250	268	293	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	16
KPER 90 S	27	24.5	90	14	229	170	-	79	10	10	276	294	330	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	16
KPER 90 L	27	24.5	90	14	229	170	-	79	10	10	298	316	352	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	16
KPER 100 L	31	27	100	15	246	189	-	84	12	12	332	350	386	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	18
KPER 100 LX4	31	31	100	11	256	198	-	86	12	12	358	376	425	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 112 M2	31	31	112	18	268	210	-	86	12	12	392	376	425	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 112 MX2	31	31	112	18	268	210	-	86	12	12	392	376	459	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 112 M4	31	31	112	18	268	210	-	86	12	12	392	376	459	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 132 S2T	41	31	132	18	287	266	-	105	12	12	431	457	498	KA 05-13	104	112	M32 x 1.5	KA 05-13	104	112	M32 x 1.5	4L	20
KPER 132 S4T	41	31	132	18	287	266	-	105	12	12	460	480	528	KA 05-13	104	112	M32 x 1.5	KA 05-13	104	112	M32 x 1.5	4L	20
K11R 132 S2	41	35	132	16	310	257	310	108	12	12	459	499	542	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 SX2	41	35	132	15	310	279	310	108	12	12	459	499	542	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K12R 132 SX2	41	35	132	15	310	279	310	108	12	12	530	570	613	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 S4	41	35	132	16	310	257	310	108	12	12	459	499	542	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 M4	41	41	132	16	331	279	331	114	12	12	481	521	565	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 M6	41	35	132	16	310	257	310	108	12	12	479	519	562	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 MX6	41	41	132	16	331	279	331	114	12	12	481	521	565	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 M8	41	35	132	16	310	257	310	108	12	12	479	519	562	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 160 M2	45	41	160	18	374	336	397	114	15	20	571	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 MX2	45	45	160	18	402	336	402	138	15	20	571	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L2	45	45	160	18	402	336	402	138	15	20	609	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 M4	45	45	160	18	374	336	374	114	15	20	571	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L4	45	45	160	18	402	336	402	138	15	20	609	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 M6	45	41	160	18	374	307	397	114	15	20	559	599	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L6	45	45	160	18	402	336	402	138	15	20	609	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 M8	45	41	160	18	374	307	397	138	15	20	559	599	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 MX8	45	41	160	18	374	307	397	138	15	20	559	599	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 M4	51.5	45	180	20	441	369	422	138	15	20	635	675	751	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 L6	51.5	45	180	20	422	369	422	138	15	20	609	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35

**) Terminal box left/right

Three-phase motors with squirrel-cage rotor

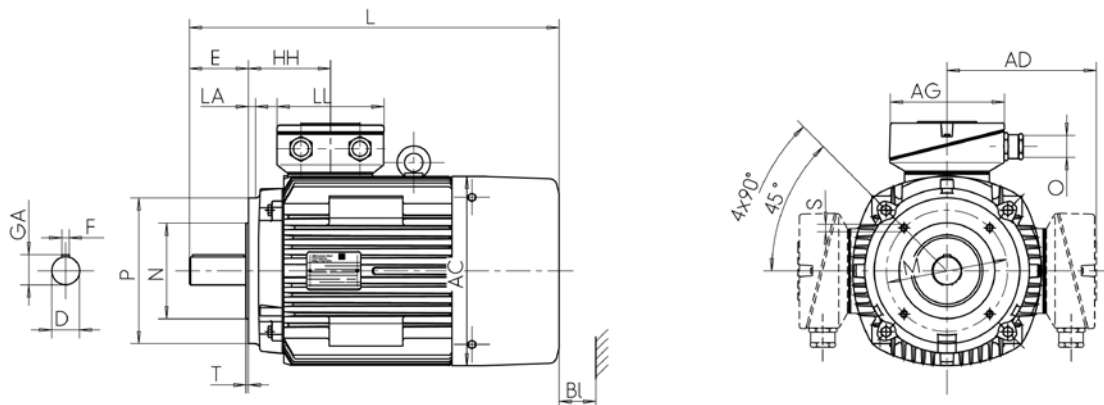
Type of explosion protection – Increased safety „e“ („eb“)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 132 to 160

Type of construction IM B14 [IM 3601]

Flange dimensions, see page 10/6



Type designation	Flange size		A	AA	AB	AC	AD	AD	B	BA	BB	C	D	DB ¹⁾	E	F
	small	large	b	n	f	g	g1	VIK g1	a	m	e	w1	d		l	u
K11R 132 S2G	C160	C200	216	50	256	217	178	178	140	55	180	89	38	M12	80	10
K11R 132 SX2G	C160	C200	216	50	256	258	178	178	140	47	180	89	38	M12	80	10
K12R 132 SX2G	C160	C200	216	50	256	258	178	178	140	47	180	89	38	M12	80	10
K11R 160 M2G	C250	C300	254	55	296	313	214	237	210	60	257	108	42	M16	110	12
K11R 160 MX2G	C250	C300	254	55	296	313	242	242	210	60	257	108	42	M16	110	12
K11R 160 L2G	C250	C300	254	55	296	313	242	242	254	60	301	108	42	M16	110	12

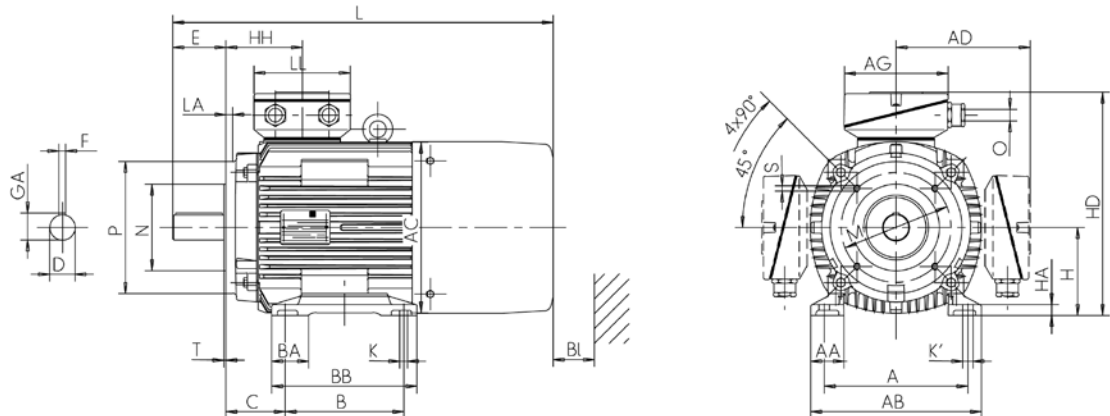
¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor
Type of explosion protection – Increased safety „e“ („eb“)
Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411, degree of protection IP 55
 Size 56 to 180

Type of construction IM B34 [IM 2101]

Flange dimensions, see page 10/6



Type designation	GA	H	HA	HD	HD ^{*)}	HD	HH	K	K'	L	L	TB Type	AG	LL	O	TB Type	AG	LL	O	Hole pattern	BI
	t	h	c	p	p	p	A	s	s'	k	k	Ex e IIC Standard	x	z	r	Ex e IIC VIK	x	z	r		BI
K11R 132 S2G	41	132	16	310	257	310	108	12	12	584	624	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 SX2G	41	132	15	310	279	310	108	12	12	584	624	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K12R 132 SX2G	41	132	15	310	279	310	108	12	12	644	684	25A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 160 M2G	45	160	18	374	336	397	114	15	20	699	739	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 MX2G	45	160	18	402	336	402	138	15	20	699	739	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L2G	45	160	18	402	336	402	138	15	20	737	777	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35

^{*)} Terminal box left/right

Three-phase motors with squirrel-cage rotor**Type of explosion protection – Increased safety „e“ („eb“)**

with surface cooling, type of cooling IC 411, degree of protection IP 55

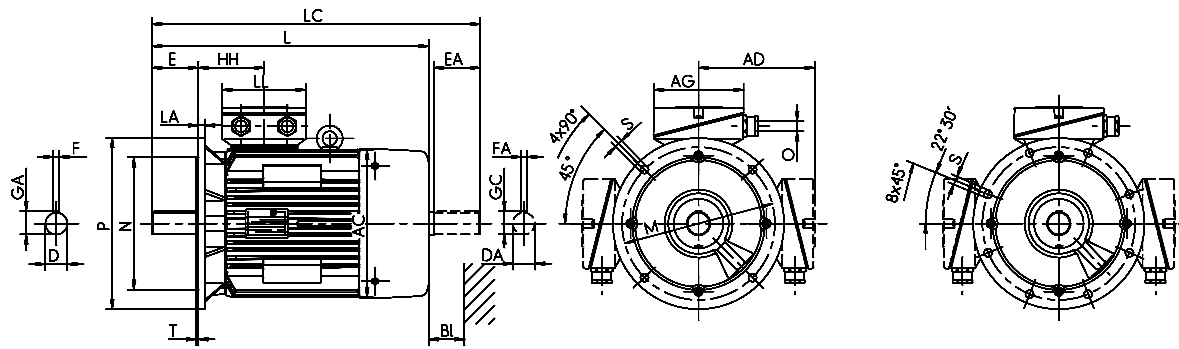
Size 56 to 250

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6

Type designation	Flange size	AC	AD	D	DA	DB ^{*)}	E	EA	F	FA	GA	GC	H	HH	L
		g	g1	d	d1		l	l1	u	u1	t	t1	h	A	k
KPEO 56 K	A120	109	-	9	9	M3	20	20	3	3	10.2	10.2	56	67	152
KPER 56 G	A120	109	-	9	9	M3	20	20	3	3	10.2	10.2	56	67	177
KPER 63 K, L	A140	109	-	11	11	M4	23	23	4	4	12.5	12.5	63	67	180
KPER 71 K, L	A160	124	-	14	14	M5	30	30	5	5	16	16	71	70	207
KPER 80 K, L	A200	139	-	19	19	M6	40	40	6	6	21.5	21.5	80	76	250
KPER 90 S	A200	157	-	24	22	M8	50	50	8	6	27	24.5	90	79	276
KPER 90 L	A200	157	-	24	22	M8	50	50	8	6	27	24.5	90	79	298
KPER 100 L	A250	177	-	28	24	M10	60	50	8	8	31	27	100	84	332
KPER 100 LX4	A250	196	-	28	28	M10	60	60	8	8	31	31	100	86	358
KPER 112 M2	A250	196	-	28	28	M10	60	60	8	8	31	31	112	86	392
KPER 112 MX2	A250	196	-	28	28	M10	60	60	8	8	31	31	112	86	392
KPER 112 M4	A250	196	-	28	28	M10	60	60	8	8	31	31	112	86	392
KPER 132 S2T	A300	196	-	38	28	M10	80	60	10	8	41	31	132	105	431
KPER 132 S4T	A300	196	-	38	28	M10	80	60	10	8	41	31	132	105	460
K11R 132 S2	A300	217	178	38	32	M12	80	80	10	10	41	35	132	108	459
K11R 132 SX2	A300	258	178	38	38	M12	80	80	10	10	41	35	132	108	459
K12R 132 SX2	A300	258	178	38	38	M12	80	80	10	10	41	35	132	108	530
K11R 132 S4	A300	217	178	38	32	M12	80	80	10	10	41	35	132	108	459
K11R 132 M4	A300	258	199	38	38	M12	80	80	10	10	41	41	132	114	481
K11R 132 M6	A300	217	178	38	32	M12	80	80	10	10	41	35	132	108	479
K11R 132 MX6	A300	258	199	38	38	M12	80	80	10	10	41	41	132	114	481
K11R 132 M8	A300	217	178	38	32	M12	80	80	10	10	41	35	132	108	479
K11R 160 M2	A350	313	214	42	38	M16	110	80	12	10	45	41	160	114	571
K11R 160 MX2	A350	313	242	42	42	M16	110	110	12	12	45	45	160	138	571
K11R 160 L2	A350	313	242	42	42	M16	110	110	12	12	45	45	160	138	609
K11R 160 M4	A350	313	214	42	42	M16	110	110	12	12	45	45	160	114	571
K11R 160 L4	A350	313	242	42	42	M16	110	110	12	12	45	45	160	138	609
K11R 160 M6	A350	258	214	42	38	M16	110	80	12	10	45	41	160	114	559
K11R 160 L6	A350	313	242	42	42	M16	110	110	12	12	45	45	160	138	609
K11R 160 M8	A350	258	214	42	38	M16	110	80	12	10	45	41	160	138	559
K11R 160 MX8	A350	258	214	42	38	M16	110	80	12	10	45	41	160	138	559
K11R 180 M2	A350	351	261	48	48	M16	110	110	14	14	51.5	51.5	180	147	635
K11R 180 M4	A350	351	242	48	42	M16	110	110	14	12	51.5	45	180	138	635
K11R 180 L4	A350	351	261	48	48	M16	110	110	14	14	51.5	51.5	180	147	680
K11R 180 L6	A350	313	242	48	42	M16	110	110	14	12	51.5	45	180	138	609
K11R 200 L2	A400	351	261	55	48	M20	110	110	16	14	59	51.5	200	147	680
K11R 200 LX2	A400	390	300	55	55	M20	110	110	16	16	59	59	200	168	727
K11R 200 L4	A400	351	261	55	48	M20	110	110	16	14	59	51.5	200	147	680
K11R 200 L6	A400	351	261	55	48	M20	110	110	16	14	59	51.5	200	147	680
K11R 200 LX6	A400	351	261	55	48	M20	110	110	16	14	59	51.5	200	147	680
K11R 225 M2	A450	440	300	55	55	M20	110	110	16	16	59	59	225	168	832
K11R 225 S4	A450	440	300	60	55	M20	140	110	18	16	64	59	225	168	862
K11R 225 M4	A450	440	300	60	55	M20	140	110	18	16	64	59	225	168	862
K11R 225 M6	A450	390	300	60	55	M20	140	110	18	16	64	59	225	168	757
K11R 225 S8	A450	390	300	60	55	M20	140	110	18	16	64	59	225	168	757
K11R 250 M2	A550	490	358	60	55	M20	140	110	18	16	64	59	250	177	924
K11R 250 M4	A550	490	358	65	55	M20	140	110	18	16	69	59	250	177	924

*) Centre holes to DIN 332-DS ...



Type designation	L (IM V1)	LC	TB Type Ex e IIC Standard	AG	LL	O	TB Type Ex e IIC VIK	AG	LL	O	Hole pattern	BI
k (IM V1)	k1											
KPEO 56 K	152	175	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	-
KPER 56 G	198	199	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	14
KPER 63 K, L	198	205	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	14
KPER 71 K, L	225	239	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	14
KPER 80 K, L	268	293	KA 05-13	104	112	M20 x 1.5	KA 05-13	104	112	M20 x 1.5	4L	16
KPER 90 S	294	330	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	16
KPER 90 L	316	352	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	16
KPER 100 L	350	386	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	18
KPER 100 LX4	376	425	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 112 M2	376	425	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 112 MX2	376	459	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 112 M4	376	459	KA 05-13	104	112	M25 x 1.5	KA 05-13	104	112	M25 x 1.5	4L	20
KPER 132 S2T	457	498	KA 05-13	104	112	M32 x 1.5	KA 05-13	104	112	M32 x 1.5	4L	20
KPER 132 S4T	480	528	KA 05-13	104	112	M32 x 1.5	KA 05-13	104	112	M32 x 1.5	4L	20
K11R 132 S2	499	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 SX2	499	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K12R 132 SX2	570	613	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 S4	499	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 M4	521	565	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 M6	519	562	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 MX6	521	565	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 M8	519	562	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 160 M2	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 MX2	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L2	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 M4	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L4	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 M6	599	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L6	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 M8	599	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 MX8	599	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 M2	675	751	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 M4	675	751	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 L4	720	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 L6	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 200 L2	720	796	63/100 A	223	214	M50 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
K11R 200 LX2	772	851	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	4L	35
K11R 200 L4	720	796	100 A	222	214	M50 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
K11R 200 L6	720	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 200 LX6	720	796	63/100 A	223	214	M50 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
K11R 225 M2	917	947	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	45
K11R 225 S4	947	977	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	45
K11R 225 M4	947	977	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	45
K11R 225 M6	842	881	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	40
K11R 225 S8	802	881	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	40
K11R 250 M2	1010	1042	200 A	290	252	M63 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	50
K11R 250 M4	1010	1042	200 A	290	252	M63 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	50

Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

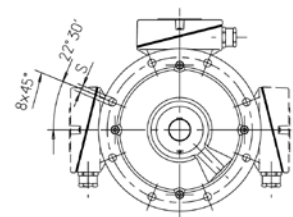
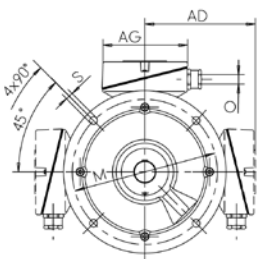
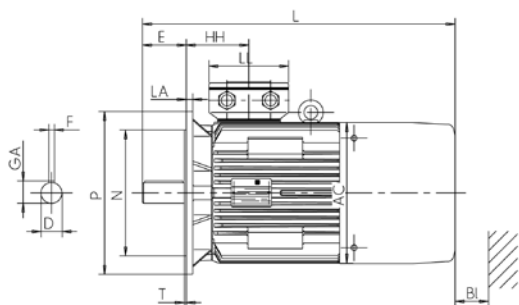
Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411, degree of protection IP 55

Size 132 to 250

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC g	AD g1	D d	DA d1	DB ¹⁾	E l	F u	GA t	H h	HH A	L k
K11R 132 S2G	A300	217	178	38	32	M12	80	10	41	132	108	584
K11R 132 SX2G	A300	258	178	38	38	M12	80	10	41	132	108	584
K12R 132 SX2G	A300	258	178	38	38	M12	80	10	41	132	108	644
K11R 160 M2G	A350	313	214	42	38	M16	110	12	45	160	114	699
K11R 160 MX2G	A350	313	242	42	42	M16	110	12	45	160	138	699
K11R 160 L2G	A350	313	242	42	42	M16	110	12	45	160	138	737
K11R 180 M2G	A350	351	261	48	48	M16	110	14	51.5	180	147	782
K11R 200 L2G	A400	351	261	55	48	M20	110	16	59	200	147	827
K11R 200 LX2G	A400	390	300	55	55	M20	110	16	59	200	168	790
K11R 225 M2G	A450	440	300	55	55	M20	110	16	59	225	168	897
K11R 250 M2G	A550	490	358	60	55	M20	140	18	64	250	177	1004

Type designation	L (IM V1) k (IM V1)	TB Type Ex e IIC Standard	AG	LL	O	TB Type Ex e IIC VIK	AG	LL	O	Hole pattern	BI
K11R 132 S2G	624	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 132 SX2G	624	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K12R 132 SX2G	684	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
K11R 160 M2G	739	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M32 x 1.5	4L	35
K11R 160 MX2G	739	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 160 L2G	777	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 180 M2G	822	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
K11R 200 L2G	867	63/100 A	223	214	M50 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
K11R 200 LX2G	835	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	4L	35
K11R 225 M2G	952	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	8L	45
K11R 250 M2G	1090	200 A	290	252	M63 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	50

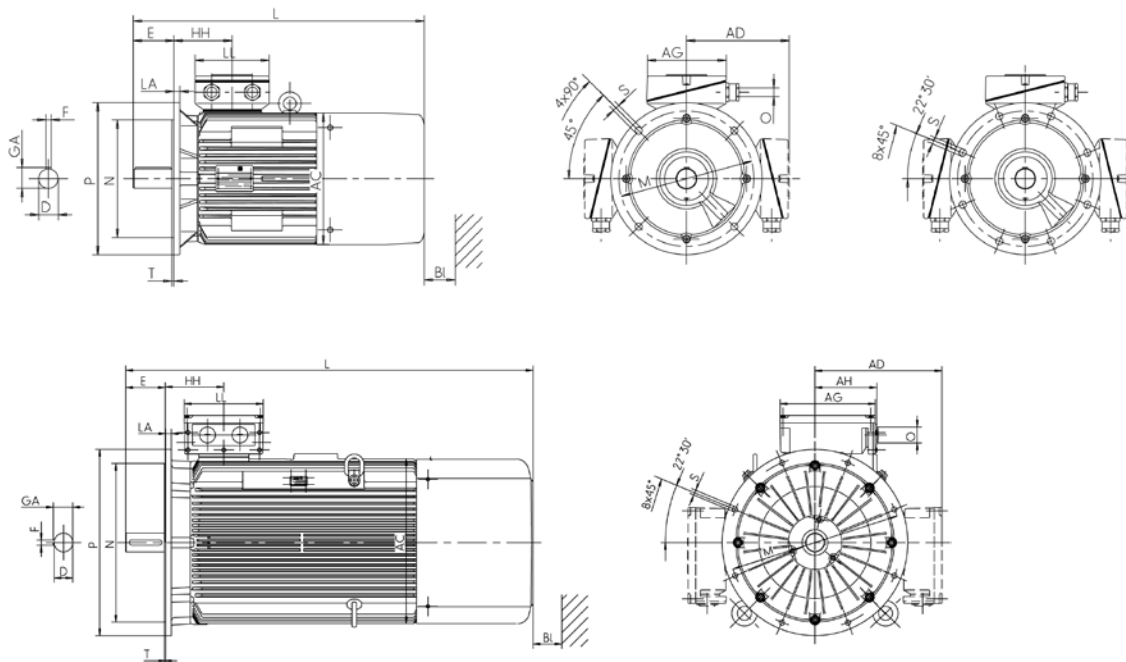
¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor, Type of explosion protection – Increased safety „e“ („eb“) Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 132 to 315

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	D	DA	DB ¹⁾	E	EA	F	FA	GA	GC	H	HH	L	L (IM V1)	LC	TB Type	AG	LL	O	Hole pattern	BI
		g	g1	d	d1		l	l1	u	u1	t	t1	h	A	k	k (IM V1)	k1	Ex e IIC Standard					
K11R 132 S2G	A300	217	178	38	32	M12	80	80	10	10	41	35	132	108	584	624	542	25 A	143	134	M32 x 1.5	4L	35
K11R 132 SX2G	A300	258	178	38	38	M12	80	80	10	10	41	35	132	108	584	624	542	25 A	143	134	M32 x 1.5	4L	35
K12R 132 SX2G	A300	258	178	38	38	M12	80	80	10	10	41	35	132	108	644	684	613	25 A	143	134	M32 x 1.5	4L	35
K11R 160 M2G	A350	313	214	42	38	M16	110	80	12	10	45	41	160	114	699	739	686	63 A	184	172	M40 x 1.5	4L	35
K11R 160 MX2G	A350	313	242	42	42	M16	110	110	12	12	45	45	160	138	699	739	686	63 A	184	172	M40 x 1.5	4L	35
K11R 160 L2G	A350	313	242	42	42	M16	110	110	12	12	45	45	160	138	737	777	724	63 A	184	172	M40 x 1.5	4L	35
K11R 180 M2G	A350	351	261	48	48	M16	110	110	14	14	51.5	51.5	180	147	782	822	751	63 A	184	172	M40 x 1.5	4L	35
K11R 200 L2G	A400	351	261	55	48	M20	110	110	16	14	59	51.5	200	147	827	867	796	63/100 A	223	214	M50 x 1.5	4L	35
K11R 200 LX2G	A400	390	300	55	55	M20	110	110	16	16	59	59	200	168	790	835	851	100 A	222	214	M50 x 1.5	4L	35
K11R 225 M2G	A450	440	300	55	55	M20	110	110	16	16	59	59	225	168	897	952	947	100 A	222	214	M50 x 1.5	8L	45
K11R 250 M2G	A550	490	358	60	55	M20	140	110	18	16	64	59	250	177	1004	1090	1042	200 A	290	252	M63 x 1.5	8L	50
K11R 280 S2G	A550	550	386	65	65	M20	140	140	18	18	69	69	280	206	1135	1234	1218	400 A-SB	415	340	M63 x 1.5	8L	55
K11R 280 M2G	A550	550	386	65	65	M20	140	140	18	18	69	69	280	206	1190	1289	1273	400 A-SB	415	340	M63 x 1.5	8L	55
K11R 315 S2G	A660	550	416	65	65	M20	140	140	18	18	69	69	315	211	1190	1289	1273	400 A-SB	415	340	M63 x 1.5	8L	55
K11R 315 M2G	A660	550	416	65	65	M20	140	140	18	18	69	69	315	211	1270	1369	1353	400 A-SB	415	340	M63 x 1.5	8L	55
K11R 315 MX2G	A660	550	416	65	65	M20	140	140	18	18	69	69	315	211	-	-	1353	400 A-SB	415	340	M63 x 1.5	8L	55
K11R 315 MY2G	A660	610	498	65	65	M20	140	140	18	18	69	69	315	230	1390	1505	1448	400 A-SB	415	340	M63 x 1.5	8L	55
K11R 315 L2G	A660	610	498	65	65	M20	140	140	18	18	69	69	315	230	1510	1625	1543	630 A	496	390	M75 x 1.5	8L	55
K11R 315 LX2G	A660	610	481	65	65	M20	140	140	18	18	69	69	315	230	1510	1625	1688	630 A	496	390	M75 x 1.5	8L	55

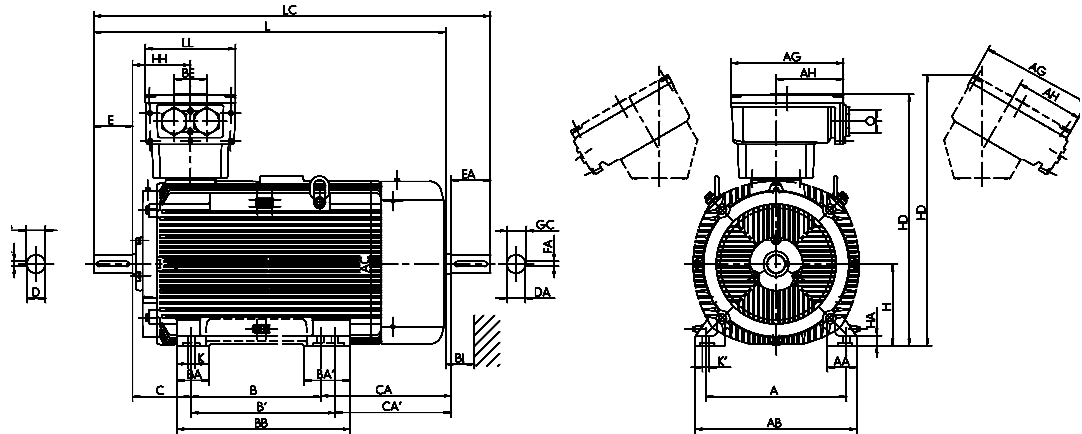
¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

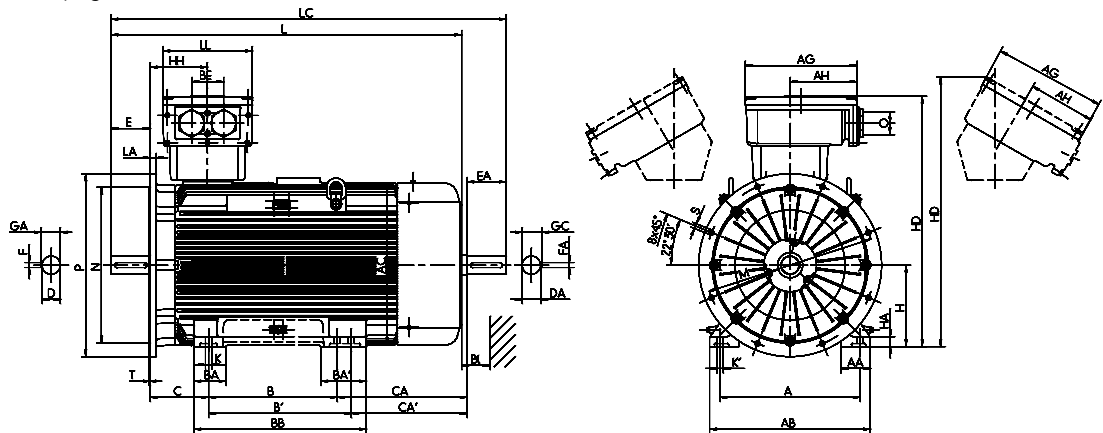
with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 355

Type of construction IM B3 [IM 1001]



Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	Flange size	A	AA	AB	AC	B	B'	BA	BA'	BB	C	CA	D	DA	DB ^{*)}	E	EA	F	FA
		b	n	f	g	a	a	m	m1	e	w1	w2	d	d1		l	l1	u	u1
K12R 355 M4, 6, 8	A800	610	130	700	715	560	630	140	200	750	254	561	100	80	M24	210	170	28	22
K12R 355 MX4, 6, 8	A800	610	130	700	715	560	630	140	200	750	254	681	100	80	M24	210	170	28	22
K12R 355 L4, 6, 8	A800	610	130	700	715	560	630	140	200	750	254	611	100	80	M24	210	170	28	22

	GA	GC	H	HA	HD	HD ^{**)}	HH	K	K'	L	L (IM V1)	LC	TB Type Ex e IIC Standard/VIK	AG	LL	AH	BE	O	BI
	t	t1	h	c	p	p	A	s	s'	k	k (IM V1)	k1		x	z	-	-	r	BI
K12R 355 M4, 6, 8	106	85	355	44	1172	-	250	28	35	1570	1691	1755	630 A	496	390	301	140	M75 x 1.5	60
K12R 355 MX4, 6, 8	106	85	355	44	1179	-	327	28	35	1690	1811	1875	630 A	496	390	301	140	M75 x 1.5	60
K12R 355 L4, 6, 8	106	85	355	44	1179	-	327	28	35	1690	1811	1875	630 A	496	390	301	140	M75 x 1.5	60

^{*)} Centre holes to DIN 332-DS ...

^{**)} Terminal box left/right

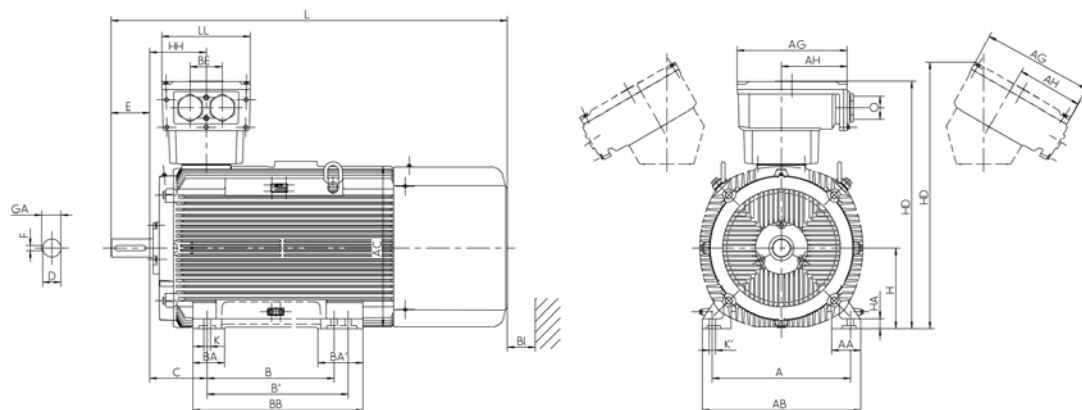
Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

Low-noise design with direction-dependent fan

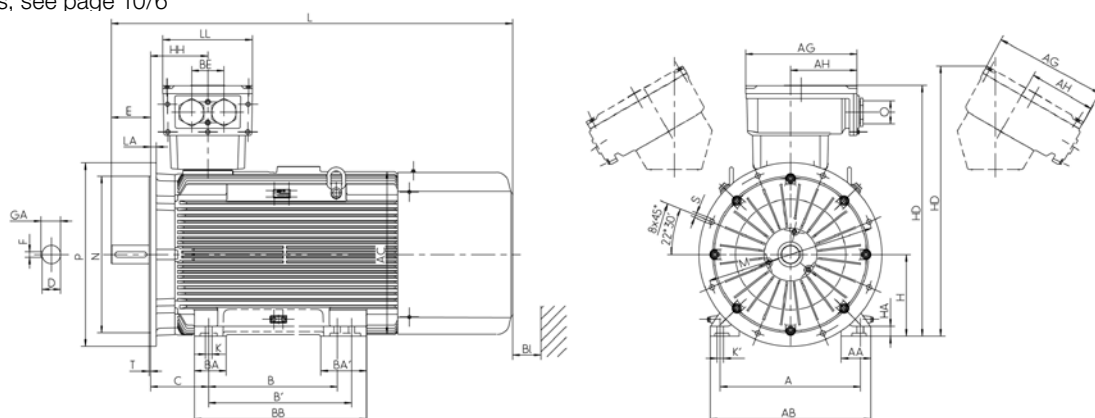
with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 355

Type of construction IM B3 [IM 1001]



Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	Flange size	A	AA	AB	AC	B	B'	BA	BA'	BB	C	CA	D	DA	DB ^{*)}	E	F
		b	n	f	g	a	a	m	m1	e	w1	w2	d	d1		l	u
K12R 355 M2G	A800	610	130	700	715	560	-	140	200	750	254	561	80	80	M20	170	22
K12R 355 MX2G	A800	610	130	700	715	560	630	140	200	750	254	681	80	80	M20	170	22
K12R 355 L2G	A800	610	130	700	715	560	630	140	200	750	254	611	80	80	M20	170	22

	GA	H	HA	HD	HD ^{**)}	HH	K	K'	L	L (IM V1)	TB Type	AG	LL	AH	O
	t	h	c	p	p	A	s	s'	k	k (IM V1)	Ex e IIC	x	z	-	r
K12R 355 M2G	85	355	44	1172	-	250	28	35	1530	1651	630 A	496	390	301	M75 x 1.5
K12R 355 MX2G	85	355	44	1172	-	327	28	35	1650	1771	630 A	496	390	301	M75 x 1.5
K12R 355 L2G	85	355	44	1179	-	327	28	35	1650	1771	630 A	496	390	301	M75 x 1.5

^{*)} Centre holes to DIN 332-DS ...

^{**)} Terminal box left/right

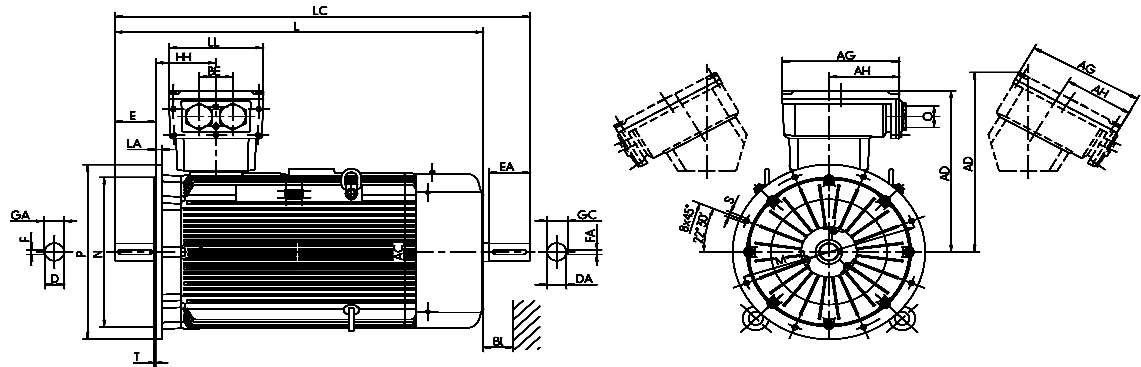
Three-phase motors with squirrel-cage rotor

Type of explosion protection – Increased safety „e“ („eb“)

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 355

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	AD ^{*)}	D	DA	DB ^{*)}	E	EA	F	FA	GA	GC	H	HH	L	L	LC	TB Type	AG	LL	AH	BE	O	BI
		g	g1	g1	d	d1		l	l1	u	u1	t	t1	h	A	K	k	K1	Ex e IIC Standard/VIK	x	z	-	-	r	BI
K12R 355 M4, 6, 8	A800	715	736	736	100	80	M24	210	170	28	22	106	85	355	250	1570	1691	1755	630 A	496	390	301	140	M75 x 1.5	60
K12R 355 MX4, 6, 8	A800	715	736	736	100	80	M24	210	170	28	22	106	85	355	327	1690	1811	1875	630 A	496	390	301	140	M75 x 1.5	60
K12R 355 L4, 6, 8	A800	715	736	736	100	80	M24	210	170	28	22	106	85	355	327	1690	1811	1875	630 A	496	390	301	140	M75 x 1.5	60

^{*)} Centre holes to DIN 332-DS ...

^{**)} Terminal box left/right

Three-phase motors with squirrel-cage rotor

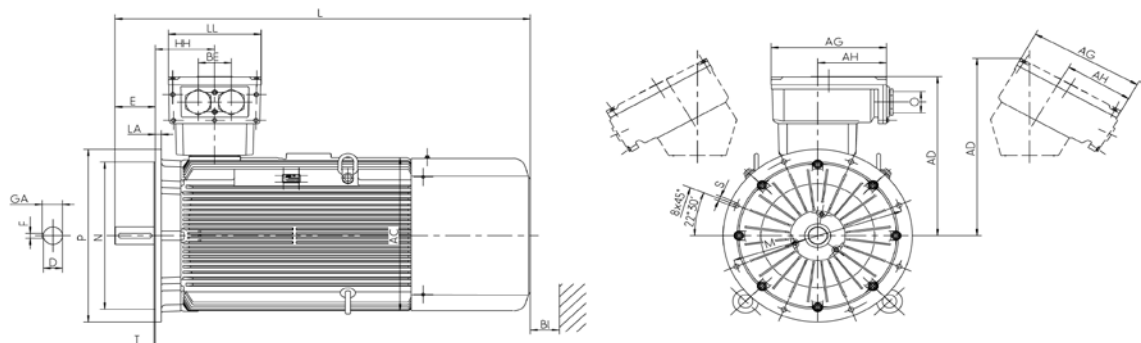
Type of explosion protection – Increased safety „e“ („eb“)

Low-noise design with direction-dependent fan

with surface cooling, type of cooling IC 411, degree of protection IP 55
Size 355

Type of construction IM B5 [IM 3001], IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	AD ^{*)}	D	DA	DB ^{*)}	E	EA	F	FA	GA	GC	H	HH	L	L	LC	TB Type	AG	LL	AH	BE	O	BI
		g	g1	g1	d	d1		l	l1	u	u1	t	t1	h	A	K	k	K1	Ex e IIC Standard/VIK	x	z	-	-	r	BI
K12R 355 M2G	A800	715	736	736	80	80	M20	170	-	22	-	85	-	355	250	1530	1651	-	630 A	496	390	301	140	M75 x 1.5	60
K12R 355 MX2G	A800	715	729	729	80	80	M20	170	-	22	-	85	-	355	327	1650	1771	-	630 A	496	390	301	140	M75 x 1.5	60
K12R 355 L2G	A800	715	729	729	80	80	M20	170	-	22	-	85	-	355	327	1650	1771	-	630 A	496	390	301	140	M75 x 1.5	60

^{*)} Centre holes to DIN 332-DS ...

^{**)} Terminal box left/right

Overview of technical data

The most important technical data are summarised in the following table.
Further information can be taken from the catalogue section "Introduction" (Chapter 1).

Product group	Squirrel-cage rotor, IEC/DIN
Explosion protection type	Flameproof enclosure „d/de“ („db/db eb“)
Rated output	Ex d/de (Ex db/db eb) (IE.) – K8.R, 0.12 to 730 kW
Sizes	Ex d/de (Ex db/db eb) (IE.) – K8.R, 63 to 450
Housing material	Grey cast iron
Rated torque	0.6 Nm to 5770 Nm
Efficiency classification/ efficiency determination	IEC/EN 60034-30-1 / IEC/EN 60034-2-1, ≤ 1 kW direct measurement, > 1 kW residual loss method
Method of connection	Single-speed motors are designed in star-delta configuration as standard.
Stator winding insulation	Thermal class 155, optional 155 [F(B)], 180 to IEC/EN 60034-1
Degree of protection	IP 55 to IEC/EN 60034-5
Type of cooling	IC 411, IC 416, IC 71W (IC 31W) to IEC/EN 60034-6
Coolant temperature/ installation altitude	Standard -20 °C to +40 °C, Deviating coolant temperatures upon request Altitude 1000 m above sea level
Rated voltage	Standard voltages to EN 60038 50 Hz: 230 V, 400 V, 500 V, 690 V, 60 Hz: 275 V, 460 V, 480 V, 600 V
Duty types	Continuous duty S1, converter-fed operation S9
Types of construction	IM B3, IM B35, IM B5 and derived types to IEC/EN 60034-7
Paint finish	Normal finish "Moderate", colour RAL 7031, blue-grey Special finish "Worldwide", colour RAL 7031, blue-grey
Vibration severity grade	Grade "A" as standard for machines with no special vibration requirements
Shaft ends	to DIN 748 (IEC 60072), balanced with half-key
Limit speeds	Please refer to the section of "Limit speeds" in catalogue section "Motors for converter-fed operation", Chapter 4.
Bearing design	Please refer to the tables of bearing design data.
Motor mass	Please refer to the technical selection lists.
Terminal boxes	Please refer to the section "Terminal boxes".
Documentation	An operating and maintenance manual, a terminal plan and a safety data sheet are supplied with each motor.
Tolerances	Please refer to the section "Tolerances" in catalogue section "Introduction", Chapter 1.
Options	Please refer to the section "Overview of modifications" in catalogue section "Introduction", Chapter 1.

Motor selection data

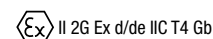
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1

II 2G Ex d/de IIC T4 Gb

for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data											Design point 400 V, 50 Hz	
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	A	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version												
Efficiency according to manufacturer standard												
K82R 63 M2 Ex de IIC T4	0.18	0.6	2905	66	0.67	0.59	6.8	4.6	6.5	PTB 09 ATEX 1017 X	0.00028	16
K82R 63 MX2 Ex de IIC T4	0.25	0.8	2860	70	0.75	0.69	5.8	3.4	4.7	PTB 09 ATEX 1017 X	0.00028	16
K82R 71 M2 Ex de IIC T4	0.37	1.3	2800	71.5	0.84	0.89	5.2	2.7	3.5	PTB 09 ATEX 1017 X	0.00028	16
K82R 71 MX2 Ex de IIC T4	0.55	1.9	2810	72	0.82	1.34	5.5	2.8	3.6	PTB 09 ATEX 1017 X	0.00039	17
Efficiency according to IEC/EN 60034-30-1												
IE3-K82R 80 M2 Ex de IIC T4	0.75	2.48	2890	IE3- 82.8	0.87	1.5	6.6	3	3.6	PTB 16 ATEX 1002 X	0.0013	31
IE3-K82R 80 MX2 Ex de IIC T4	1.1	3.64	2885	IE3- 83.7	0.87	2.2	6.5	2.9	3.5	PTB 16 ATEX 1002 X	0.0018	35
IE3-K82R 90 S2 Ex de IIC T4	1.5	4.95	2895	IE3- 84.7	0.88	2.9	6.8	3	3.5	PTB 16 ATEX 1002 X	0.0029	45
IE3-K82R 90 L2 Ex de IIC T4	2.2	7.2	2900	IE3- 86.4	0.88	4.2	6.9	3	3.6	PTB 16 ATEX 1002 X	0.0039	48
IE3-K82R 100 L2 Ex de IIC T4	3	9.8	2910	IE3- 88.1	0.88	5.6	6.9	2.5	2.9	PTB 16 ATEX 1003 X	0.0051	53
IE3-K82R 112 M2 Ex de IIC T4	4	13	2930	IE3- 88.4	0.87	7.5	6.9	2.8	3.6	PTB 16 ATEX 1003 X	0.0089	95
IE3-K82R 132 S2 Ex de IIC T4	5.5	18	2925	IE3- 89.5	0.89	10	7	2.5	3.3	PTB 16 ATEX 1004 X	0.0125	103
IE3-K82R 132 SX2 Ex de IIC T4	7.5	24.4	2930	IE3- 90.3	0.89	13.5	7.1	2.7	3.5	PTB 16 ATEX 1004 X	0.0177	115
K82R 160 M2 Ex de IIC T4 Y3	11	35.7	2940	IE3- 91.3	0.87	20	7.3	3	3.6	PTB 09 ATEX 1018 X	0.032	163
K82R 160 MX2 Ex de IIC T4 Y3	15	48.7	2940	IE3- 92	0.9	26	7.2	2.8	3.2	PTB 09 ATEX 1018 X	0.043	173
K82R 160 L2 Ex de IIC T4 Y3	18.5	60	2940	IE3- 92.5	0.91	31.5	7.2	2.7	3.1	PTB 09 ATEX 1018 X	0.052	188
K82R 180 M2 Ex de IIC T4 Y3	22	71	2945	IE3- 92.9	0.91	37.5	7.5	2.6	3.2	PTB 09 ATEX 1018 X	0.075	196
K82R 200 L2 Ex de IIC T4 Y3	30	97	2955	IE3- 93.5	0.9	51	7.5	2.7	3.1	PTB 09 ATEX 1019 X	0.13	254
K82R 200 LX2 Ex de IIC T4 Y3	37	120	2955	IE3- 93.8	0.9	63	7.6	2.8	3.2	PTB 09 ATEX 1020 X	0.16	278
K82R 225 M2 Ex de IIC T4 Y3	45	145	2960	IE3- 94.2	0.9	77	7.3	2.7	3	PTB 09 ATEX 1020 X	0.24	400
K82R 250 M2 Ex de IIC T4 Y3	55	177	2970	IE3- 94.4	0.88	96	7.5	2.8	3.1	PTB 09 ATEX 1018 X	0.4	545
K82R 280 S2 Ex de IIC T4 Y3	75	241	2975	IE3- 94.8	0.88	130	7.1	2.3	2.8	PTB 09 ATEX 1018 X	0.65	700
K82R 280 M2 Ex de IIC T4 Y3	90	288	2980	IE3- 95.1	0.87	157	7.4	2.4	2.9	PTB 09 ATEX 1018 X	0.78	762
K82R 315 S2 Ex de IIC T4 Y3	110	353	2975	IE3- 95.4	0.89	187	7.1	2.2	2.6	PTB 09 ATEX 1018 X	1.4	960
K82R 315 M2 Ex de IIC T4 Y3	132	424	2975	IE3- 95.8	0.9	220	6.8	2.1	2.5	PTB 09 ATEX 1018 X	1.6	1025
K82R 315 L2 Ex de IIC T4 Y3	160	514	2980	IE3- 95.9	0.9	270	7.4	2.4	2.7	PTB 09 ATEX 1018 X	1.7	1065
K82R 315 LX2 Ex de IIC T4 Y3	200	614	2980	IE3- 96	0.9	335	6.9	2.3	2.6	PTB 09 ATEX 1018 X	2.2	1270
K82R 315 LY2 Ex de IIC T4 Y3	250	801	2980	IE3- 96	0.92	410	7.2	1.7	2.7	PTB 09 ATEX 1018 X	2.8	1420
K82R 355 L2 Ex de IIC T4 Y3	315	1009	2980	IE3- 96.6	0.92	510	6.7	1.5	2.8	PTB 09 ATEX 1021 X	4.5	1900
K82R 355 LX2 Ex de IIC T4 Y3	355	1136	2985	IE3- 96.8	0.93	570	6.9	1.4	2.7	PTB 09 ATEX 1021 X	5	2050
Efficiency according to manufacturer standard												
K82R 355 LX2 Ex de IIC T4	400	1280	2985	96.8	0.93	640	7	1.3	2.8		5.5	2350
K82R 400 L2 Ex de IIC T4	450	1437	2990	97	0.94	710	7.2	1.1	2.8		8.5	2910

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1



for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version												
Efficiency according to manufacturer standard												
K82R 63 M4 Ex de IIC T4	0.12	0.8	1445	67	0.60	0.43	5.6	3.9	3.9	PTB 09 ATEX 1017 X	0.00046	16
K82R 63 MX4 Ex de IIC T4	0.18	1.2	1415	70	0.70	0.53	4.7	2.7	2.7	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 M4 Ex de IIC T4	0.25	1.7	1370	68.5	0.80	0.66	3.9	2	2.3	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 MX4 Ex de IIC T4	0.37	2.6	1380	71	0.80	0.94	3.9	2.2	2.3	PTB 09 ATEX 1017 X	0.00063	17
K82R 80 M4 Ex de IIC T4	0.55	3.8	1380	72	0.80	1.36	3.8	2	2.3	PTB 09 ATEX 1018 X	0.00092	24
Efficiency according to IEC/EN 60034-30-1												
IE3-K82R 80 MX4 Ex de IIC T4	0.75	5	1445	IE3- 82.6	0.78	1.68	6.8	3.2	4.2	PTB 16 ATEX 1002 X	0.0029	35
IE3-K82R 90 S4 Ex de IIC T4	1.1	7.2	1455	IE3- 84.2	0.8	2.35	6.8	2.4	3.1	PTB 16 ATEX 1002 X	0.0046	44
IE3-K82R 90 L4 Ex de IIC T4	1.5	9.9	1450	IE3- 85.5	0.81	3.15	6.9	2.5	3.2	PTB 16 ATEX 1002 X	0.0056	46
IE3-K82R 100 L4 Ex de IIC T4	2.2	14.5	1450	IE3- 87.1	0.84	4.35	7.3	2.9	3.3	PTB 16 ATEX 1003 X	0.011	59
IE3-K82R 100 LX4 Ex de IIC T4	3	18.8	1450	IE3- 87.8	0.84	5.9	7.4	3.1	3.6	PTB 16 ATEX 1003 X	0.011	59
IE3-K82R 112 M4 Ex de IIC T4	4	26.2	1460	IE3- 88.7	0.83	7.8	7.2	3	3.4	PTB 16 ATEX 1003 X	0.022	100
IE3-K82R 132 S4 Ex de IIC T4	5.5	36	1460	IE3- 89.6	0.85	10.4	7.1	3.2	3.5	PTB 16 ATEX 1004 X	0.03	113
IE3-K82R 132 M4 Ex de IIC T4	7.5	49	1460	IE3- 90.5	0.86	13.9	7.4	3.1	3.3	PTB 16 ATEX 1004 X	0.041	125
K82R 160 M4 Ex de IIC T4 Y3	11	71	1470	IE3- 91.5	0.85	20.5	7.1	2.8	3.1	PTB 09 ATEX 1018 X	0.079	184
K82R 160 L4 Ex de IIC T4 Y3	15	97	1470	IE3- 92.1	0.83	28.5	7.4	3.1	3.4	PTB 09 ATEX 1018 X	0.092	208
K82R 180 M4 Ex de IIC T4 Y3	18.5	120	1470	IE3- 92.7	0.83	34.5	7.4	3.3	3.4	PTB 09 ATEX 1018 X	0.155	217
K82R 180 L4 Ex de IIC T4 Y3	22	143	1470	IE3- 93.2	0.83	41	7.4	3.3	3.3	PTB 09 ATEX 1019 X	0.197	272
K82R 200 L4 Ex de IIC T4 Y3	30	195	1470	IE3- 93.8	0.85	54	7.6	3.1	3.3	PTB 09 ATEX 1019 X	0.25	274
K82R 225 S4 Ex de IIC T4 Y3	37	240	1475	IE3- 93.9	0.85	67	7.1	3	2.9	PTB 09 ATEX 1020 X	0.4	372
K82R 225 M4 Ex de IIC T4 Y3	45	291	1475	IE3- 94.3	0.86	80	7.2	3.1	3	PTB 09 ATEX 1018 X	0.48	402
K82R 250 M4 Ex de IIC T4 Y3	55	356	1475	IE3- 94.6	0.88	95	7.3	3.1	3	PTB 09 ATEX 1018 X	0.75	588
K82R 280 S4 Ex de IIC T4 Y3	75	484	1480	IE3- 95.2	0.85	134	7.4	3	2.8	PTB 09 ATEX 1018 X	1.25	740
K82R 280 M4 Ex de IIC T4 Y3	90	579	1485	IE3- 95.3	0.85	160	7.8	3.2	3	PTB 09 ATEX 1018 X	1.48	820
K82R 315 S4 Ex de IIC T4 Y3	110	707	1485	IE3- 95.6	0.84	198	6.9	2.7	2.7	PTB 09 ATEX 1018 X	2.2	1040
K82R 315 M4 Ex de IIC T4 Y3	132	849	1485	IE3- 95.8	0.84	235	7	2.7	2.7	PTB 09 ATEX 1018 X	2.7	1120
K82R 315 L4 Ex de IIC T4 Y3	160	1026	1490	IE3- 96	0.84	285	7.4	2.8	2.8	PTB 09 ATEX 1018 X	3.1	1210
K82R 315 LX4 Ex de IIC T4 Y3	200	1286	1490	IE3- 96.1	0.85	355	6.9	2.6	2.6	PTB 09 ATEX 1018 X	3.9	1430
K82R 315 LY4 Ex de IIC T4 Y3	250	1602	1490	IE3- 96.2	0.87	430	7.3	1.7	2.7	PTB 09 ATEX 1018 X	4.6	1565
K82R 355 L4 Ex de IIC T4 Y3	315	2019	1490	IE3- 96.3	0.9	525	6.9	1.5	2.7	PTB 09 ATEX 1018 X	6.1	2050
K82R 355 LX4 Ex de IIC T4 Y3	355	2275	1490	IE3- 96.6	0.9	590	6.9	1.6	2.8	PTB 09 ATEX 1021 X	6.7	2200
Efficiency according to manufacturer standard												
K82R 355 LY4 Ex de IIC T4	400	2564	1490	97	0.90	665	7	1.5	2.8	PTB 09 ATEX 1021 X	7.4	2430
K82R 400 M4 Ex de IIC T4	450	2875	1495	97	0.91	735	7.3	1.1	2.7	PTB 09 ATEX 1022 X	18	2850
K82R 400 L4 Ex de IIC T4	500	3194	1495	97.1	0.91	815	7.3	1.1	2.7	PTB 09 ATEX 1022 X	20	3230
K82R 450 M4 Ex de IIC T4	560	3577	1495	97.2	0.91	915	6.8	1	2.7	PTB 09 ATEX 1023 X	26	3500
K82R 450 L4 Ex de IIC T4	630	4024	1495	97.4	0.91	1025	6.8	1	2.7	PTB 09 ATEX 1023 X	31	3800

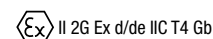
Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1

II 2G Ex d/de IIC T4 Gb

for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	A	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version												
Efficiency according to manufacturer standard												
K82R 71 MX6 Ex de IIC T4	0.25	2.6	920	62	0.71	0.82	3.5	2.2	2.6	PTB 09 ATEX 1017 X	0.0012	17
K82R 80 M6 Ex de IIC T4	0.37	3.8	925	67	0.71	1.12	4.1	2.5	2.8	PTB 09 ATEX 1018 X	0.0019	24
K82R 80 MX6 Ex de IIC T4	0.55	5.7	925	69	0.72	1.6	4	2.4	2.7	PTB 09 ATEX 1018 X	0.0025	25
Efficiency according to IEC/EN 60034-30-1												
IE3-K82R 90 S6 Ex de IIC T4	0.75	7.5	955	IE3- 79.1	0.7	1.96	5.5	2.7	3.1	PTB 16 ATEX 1002 X	0.008	44
IE3-K82R 90 L6 Ex de IIC T4	1.1	11	955	IE3- 81.4	0.72	2.7	5.9	2.8	3.1	PTB 16 ATEX 1002 X	0.0095	46
IE3-K82R 100 L6 Ex de IIC T4	1.5	14.8	965	IE3- 83.5	0.71	3.65	6.8	3	3.3	PTB 16 ATEX 1003 X	0.017	59
IE3-K82R 112 M6 Ex de IIC T4	2.2	21.8	965	IE3- 85.5	0.78	4.75	6.8	2.6	3.1	PTB 16 ATEX 1003 X	0.031	100
IE3-K82R 132 S6 Ex de IIC T4	3	29.5	970	IE3- 85.7	0.74	6.8	7.1	3.2	3.7	PTB 16 ATEX 1004 X	0.031	100
IE3-K82R 132 M6 Ex de IIC T4	4	39.6	965	IE3- 87	0.76	8.7	6.9	2.9	3.7	PTB 16 ATEX 1004 X	0.037	104
IE3-K82R 132 MX6 Ex de IIC T4	5.5	54	965	IE3- 88.3	0.81	11.1	7.2	2.7	3.4	PTB 16 ATEX 1004 X	0.048	117
K82R 160 M6 Ex de IIC T4 Y3	7.5	74	970	IE3- 89.4	0.84	14.4	7.5	2.8	3.8	PTB 09 ATEX 1018 X	0.12	190
K82R 160 L6 Ex de IIC T4 Y3	11	108	975	IE3- 90.5	0.84	21	7.6	3	3.9	PTB 09 ATEX 1018 X	0.14	220
K82R 180 L6 Ex de IIC T4 Y3	15	147	975	IE3- 91.5	0.82	29	7.4	2.7	3.8	PTB 09 ATEX 1019 X	0.19	215
K82R 200 L6 Ex de IIC T4 Y3	18.5	181	975	IE3- 92	0.83	35	7	2.5	3.5	PTB 09 ATEX 1020 X	0.28	270
K82R 200 LX6 Ex de IIC T4 Y3	22	215	975	IE3- 92.4	0.84	41	6.9	2.2	3.2	PTB 09 ATEX 1020 X	0.31	280
K82R 225 M6 Ex de IIC T4 Y3	30	291	985	IE3- 93	0.83	56	6.9	3	2.7	PTB 09 ATEX 1018 X	0.69	404
K82R 250 M6 Ex de IIC T4 Y3	37	359	985	IE3- 93.5	0.83	69	6.8	3	2.7	PTB 09 ATEX 1018 X	1.03	570
K82R 280 S6 Ex de IIC T4 Y3	45	434	990	IE3- 93.9	0.82	84	6.6	2.8	2.4	PTB 09 ATEX 1018 X	1.35	720
K82R 280 M6 Ex de IIC T4 Y3	55	533	985	IE3- 94.4	0.81	104	6.5	2.8	2.4	PTB 09 ATEX 1018 X	1.7	770
K82R 315 S6 Ex de IIC T4 Y3	75	723	990	IE3- 94.9	0.88	130	7.2	3	2.7	PTB 09 ATEX 1018 X	4.3	995
K82R 315 M6 Ex de IIC T4 Y3	90	868	990	IE3- 95.2	0.88	155	7.7	3.2	2.8	PTB 09 ATEX 1018 X	5	1050
K82R 315 L6 Ex de IIC T4 Y3	110	1061	990	IE3- 95.5	0.88	189	7.8	3.3	2.8	PTB 09 ATEX 1018 X	6	1145
K82R 315 LX6 Ex de IIC T4 Y3	132	1273	990	IE3- 95.6	0.88	225	7.7	3.2	2.8	PTB 09 ATEX 1018 X	7.3	1265
K82R 315 LY6 Ex de IIC T4 Y3	160	1543	990	IE3- 95.8	0.88	275	7.8	3.3	2.8	PTB 09 ATEX 1018 X	8.3	1440
K82R 355 M6 Ex de IIC T4 Y3	200	1929	990	IE3- 95.9	0.87	345	6.7	1.8	2.7	PTB 09 ATEX 1021 X	11.3	1750
K82R 355 L6 Ex de IIC T4 Y3	250	2411	990	IE3- 95.9	0.88	430	6.7	1.8	2.7	PTB 09 ATEX 1021 X	13.8	1950
K82R 355 LX6 Ex de IIC T4 Y3	315	3039	990	IE3- 96	0.88	540	6.9	1.7	2.6	PTB 09 ATEX 1021 X	17.6	2300
K82R 400 M6 Ex de IIC T4 Y3	355	3411	990	IE3- 96.6	0.89	595	6.6	1.1	2.7	PTB 09 ATEX 1022 X	21	2850
Efficiency according to manufacturer standard												
K82R 400 L6 Ex de IIC T4	400	3843	994	96.6	0.89	670	6.8	1.1	2.6	PTB 09 ATEX 1022 X	31	3230
K82R 450 M6 Ex de IIC T4	450	4319	995	96.6	0.89	755	6.8	1.2	2.8	PTB 09 ATEX 1023 X	46	3500
K82R 450 L6 Ex de IIC T4	500	4799	995	97	0.89	835	6.8	1.1	2.7	PTB 09 ATEX 1023 X	51	3800

Three-phase motors with squirrel-cage rotor, High Efficiency IE2
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1



for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	A	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version												
Efficiency according to manufacturer standard												
K82R 63 M2 Ex de IIC T4	0.18	0.6	2905	66	0.67	0.59	6.8	4.6	6.5	PTB 09 ATEX 1017 X	0.00028	16
K82R 63 MX2 Ex de IIC T4	0.25	0.8	2860	70	0.75	0.69	5.8	3.4	4.7	PTB 09 ATEX 1017 X	0.00028	16
K82R 71 M2 Ex de IIC T4	0.37	1.3	2800	71.5	0.84	0.89	5.2	2.7	3.5	PTB 09 ATEX 1017 X	0.00028	16
K82R 71 MX2 Ex de IIC T4	0.55	1.9	2810	72	0.82	1.34	5.5	2.8	3.6	PTB 09 ATEX 1017 X	0.00039	17
Efficiency according to IEC/EN 60034-30-1												
IE2-K82R 80 M2 Ex de IIC T4	0.75	2.48	2890	IE2- 79	0.87	1.58	6.6	3	3.6	PTB 16 ATEX 1002 X	0.0013	31
IE2-K82R 80 MX2 Ex de IIC T4	1.1	3.64	2885	IE2- 81.1	0.87	2.25	6.5	2.9	3.5	PTB 16 ATEX 1002 X	0.0018	35
IE2-K82R 90 S2 Ex de IIC T4	1.5	4.95	2895	IE2- 82.7	0.88	3	6.8	3	3.5	PTB 16 ATEX 1002 X	0.0029	45
IE2-K82R 90 L2 Ex de IIC T4	2.2	7.2	2900	IE2- 84.5	0.88	4.25	6.9	3	3.6	PTB 16 ATEX 1002 X	0.0039	48
IE2-K82R 100 L2 Ex de IIC T4	3	9.8	2910	IE2- 85.8	0.88	5.7	6.9	2.5	2.9	PTB 16 ATEX 1003 X	0.0051	53
IE2-K82R 112 M2 Ex de IIC T4	4	13	2930	IE2- 86.9	0.87	7.6	6.9	2.8	3.6	PTB 16 ATEX 1003 X	0.0089	95
IE2-K82R 132 S2 Ex de IIC T4	5.5	18	2925	IE2- 88.1	0.89	10.1	7	2.5	3.3	PTB 16 ATEX 1004 X	0.0125	103
IE2-K82R 132 SX2 Ex de IIC T4	7.5	24.4	2930	IE2- 89.1	0.89	13.7	7.1	2.7	3.5	PTB 16 ATEX 1004 X	0.0177	115
K82R 160 M2 Ex de IIC T4 Y2	11	35.7	2940	IE2- 90.3	0.87	20	7.3	3	3.6	PTB 09 ATEX 1018 X	0.032	163
K82R 160 MX2 Ex de IIC T4 Y2	15	48.7	2940	IE2- 91.1	0.9	26.5	7.2	2.8	3.2	PTB 09 ATEX 1018 X	0.043	173
K82R 160 L2 Ex de IIC T4 Y2	18.5	60	2940	IE2- 91.6	0.91	32	7.2	2.7	3.1	PTB 09 ATEX 1018 X	0.052	188
K82R 180 M2 Ex de IIC T4 Y2	22	71	2945	IE2- 92	0.91	38	7.5	2.6	3.2	PTB 09 ATEX 1018 X	0.075	196
K82R 200 L2 Ex de IIC T4 Y2	30	97	2955	IE2- 92.7	0.9	52	7.5	2.7	3.1	PTB 09 ATEX 1019 X	0.13	254
K82R 200 LX2 Ex de IIC T4 Y2	37	120	2955	IE2- 93.3	0.91	63	7.2	2.7	3	PTB 09 ATEX 1020 X	0.16	278
K82R 225 M2 Ex de IIC T4 Y2	45	145	2960	IE2- 93.4	0.9	77	7.3	2.7	3	PTB 09 ATEX 1020 X	0.24	400
K82R 250 M2 Ex de IIC T4 Y2	55	177	2970	IE2- 93.8	0.89	95	7.1	2.4	2.8	PTB 09 ATEX 1018 X	0.4	545
K82R 280 S2 Ex de IIC T4 Y2	75	241	2970	IE2- 94.5	0.9	129	6.8	2.2	2.7	PTB 09 ATEX 1018 X	0.65	700
K82R 280 M2 Ex de IIC T4 Y2	90	288	2970	IE2- 94.7	0.89	152	6.8	2.4	2.8	PTB 09 ATEX 1018 X	0.78	762
K82R 315 S2 Ex de IIC T4 Y2	110	353	2975	IE2- 95	0.89	188	6.5	2	2.4	PTB 09 ATEX 1018 X	1.4	960
K82R 315 M2 Ex de IIC T4 Y2	132	424	2975	IE2- 95.5	0.89	225	6.8	2.1	2.5	PTB 09 ATEX 1018 X	1.6	1025
K82R 315 L2 Ex de IIC T4 Y2	160	514	2975	IE2- 95.7	0.9	270	6.9	2.4	2.7	PTB 09 ATEX 1018 X	1.7	1065
K82R 315 LX2 Ex de IIC T4 Y2	200	614	2980	IE2- 95.8	0.9	335	6.9	2.3	2.6	PTB 09 ATEX 1018 X	2.2	1270
K82R 315 LY2 Ex de IIC T4 Y2	250	801	2980	IE2- 96	0.92	410	7.2	1.7	2.7	PTB 09 ATEX 1018 X	2.8	1420
K82R 355 L2 Ex de IIC T4 Y2	315	1009	2980	IE2- 96.6	0.92	510	6.7	1.5	2.8	PTB 09 ATEX 1021 X	4.5	1900
K82R 355 LX2 Ex de IIC T4 Y2	355	1036	2985	IE2- 96.8	0.93	570	6.9	1.4	2.7	PTB 09 ATEX 1021 X	5	2050
Efficiency according to manufacturer standard (IEC/EN 60034-2)												
K82R 355 LY2 Ex de IIC T4	400	1280	2985	96.8	0.94	640	7	1.3	2.8	PTB 09 ATEX 1021 X	5.5	2350
K82R 400 L2 Ex de IIC T4	450	1437.3	2990	97	0.94	710	7.2	1.1	2.8	PTB 09 ATEX 1022 X	8.5	2910

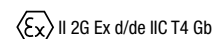
Three-phase motors with squirrel-cage rotor, High Efficiency IE2 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“) for operation in Zone 1 according to EN 60079-1

II 2G Ex d/de IIC T4 Gb

for rated voltage, temperature class T4
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	A	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version												
Efficiency according to manufacturer standard												
K82R 63 M4 Ex de IIC T4	0.12	0.8	1445	67	0.60	0.43	5.6	3.9	3.9	PTB 09 ATEX 1017 X	0.00046	16
K82R 63 MX4 Ex de IIC T4	0.18	1.2	1415	70	0.70	0.53	4.7	2.7	2.7	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 M4 Ex de IIC T4	0.25	1.7	1370	68.5	0.80	0.66	3.9	2	2.3	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 MX4 Ex de IIC T4	0.37	2.6	1380	71	0.80	0.94	3.9	2.2	2.3	PTB 09 ATEX 1017 X	0.00063	17
K82R 80 M4 Ex de IIC T4	0.55	3.8	1380	72	0.80	1.36	3.8	2	2.3	PTB 09 ATEX 1018 X	0.00092	24
Efficiency according to IEC/EN 60034-30-1												
IE2-K82R 80 MX4 Ex de IIC T4	0.75	5	1445	IE2- 81	0.78	1.71	6.8	3.2	4.2	PTB 16 ATEX 1002 X	0.0029	35
IE2-K82R 90 S4 Ex de IIC T4	1.1	7.2	1455	IE2- 82.7	0.8	2.4	6.8	2.4	3.1	PTB 16 ATEX 1002 X	0.0046	44
IE2-K82R 90 L4 Ex de IIC T4	1.5	9.9	1450	IE2- 84	0.81	3.2	6.9	2.5	3.2	PTB 16 ATEX 1002 X	0.0056	46
IE2-K82R 100 L4 Ex de IIC T4	2.2	14.5	1450	IE2- 85.5	0.84	4.4	7.3	2.9	3.3	PTB 16 ATEX 1003 X	0.011	59
IE2-K82R 100 LX4 Ex de IIC T4	3	18.8	1450	IE2- 86.6	0.84	6	7.4	3.1	3.6	PTB 16 ATEX 1003 X	0.011	59
IE2-K82R 112 M4 Ex de IIC T4	4	26.2	1460	IE2- 87.6	0.83	7.9	7.2	3	3.4	PTB 16 ATEX 1003 X	0.022	100
IE2-K82R 132 S4 Ex de IIC T4	5.5	36	1460	IE2- 88.6	0.85	10.5	7.1	3.2	3.5	PTB 16 ATEX 1004 X	0.03	113
IE2-K82R 132 M4 Ex de IIC T4	7.5	49	1460	IE2- 89.5	0.86	14.1	7.4	3.1	3.3	PTB 16 ATEX 1004 X	0.041	125
K82R 160 M4 Ex de IIC T4 Y2	11	71	1470	IE2- 90.6	0.85	20.5	7.1	2.8	3.1	PTB 09 ATEX 1018 X	0.079	184
K82R 160 L4 Ex de IIC T4 Y2	15	97	1470	IE2- 91.3	0.83	28.5	7.4	3	3.3	PTB 09 ATEX 1018 X	0.083	187
K82R 180 M4 Ex de IIC T4 Y2	18.5	120	1470	IE2- 91.9	0.83	35	7.4	3.3	3.4	PTB 09 ATEX 1018 X	0.155	217
K82R 180 L4 Ex de IIC T4 Y2	22	143	1470	IE2- 92.3	0.83	41.5	7.3	3.3	3.3	PTB 09 ATEX 1019 X	0.164	225
K82R 200 L4 Ex de IIC T4 Y2	30	195	1470	IE2- 92.9	0.85	55	7.6	3.1	3.3	PTB 09 ATEX 1019 X	0.25	274
K82R 225 S4 Ex de IIC T4 Y2	37	240	1475	IE2- 93.3	0.85	67	7.1	3	2.9	PTB 09 ATEX 1020 X	0.4	372
K82R 225 M4 Ex de IIC T4 Y2	45	291	1475	IE2- 93.6	0.86	81	7.2	3.1	3	PTB 09 ATEX 1018 X	0.48	402
K82R 250 M4 Ex de IIC T4 Y2	55	356	1475	IE2- 94	0.88	96	7.3	3.1	3	PTB 09 ATEX 1018 X	0.75	588
K82R 280 S4 Ex de IIC T4 Y2	75	484	1480	IE2- 94.5	0.85	135	7.4	3	2.8	PTB 09 ATEX 1018 X	1.25	740
K82R 280 M4 Ex de IIC T4 Y2	90	579	1485	IE2- 94.7	0.85	161	7.8	3.2	3	PTB 09 ATEX 1018 X	1.48	820
K82R 315 S4 Ex de IIC T4 Y2	110	707	1485	IE2- 95.1	0.85	196	6.7	2.5	2.5	PTB 09 ATEX 1018 X	2.2	1040
K82R 315 M4 Ex de IIC T4 Y2	132	849	1485	IE2- 95.3	0.85	235	6.8	2.6	2.6	PTB 09 ATEX 1018 X	2.7	1120
K82R 315 L4 Ex de IIC T4 Y2	160	1026	1485	IE2- 95.6	0.86	280	6.9	2.7	2.6	PTB 09 ATEX 1018 X	3.1	1210
K82R 315 LX4 Ex de IIC T4 Y2	200	1286	1485	IE2- 95.8	0.86	350	6.9	2.7	2.6	PTB 09 ATEX 1018 X	3.9	1430
K82R 315 LY4 Ex de IIC T4 Y2	250	1602	1490	IE2- 96.2	0.87	430	7.3	1.7	2.7	PTB 09 ATEX 1018 X	4.6	1565
K82R 355 L4 Ex de IIC T4 Y2	315	2019	1490	IE2- 96.3	0.9	525	6.9	1.5	2.7	PTB 09 ATEX 1018 X	6.1	2050
K82R 355 LX4 Ex de IIC T4 Y2	355	2275	1490	IE2- 96.6	0.9	590	6.9	1.6	2.8	PTB 09 ATEX 1021 X	6.7	2200
Efficiency according to manufacturer standard												
K82R 355 LY4 Ex de IIC T4	400	2564	1490	97	0.90	665	7	1.5	2.8	PTB 09 ATEX 1021 X	7.4	2430
K82R 400 M4 Ex de IIC T4	450	2875	1495	97	0.91	735	7.3	1.1	2.7	PTB 09 ATEX 1022 X	18	2850
K82R 400 L4 Ex de IIC T4	500	3194	1495	97.1	0.91	815	7.3	1.1	2.7	PTB 09 ATEX 1022 X	20	3230
K82R 450 M4 Ex de IIC T4	560	3577	1495	97.2	0.91	915	6.8	1	2.7	PTB 09 ATEX 1023 X	26	3500
K82R 450 L4 Ex de IIC T4	630	4024	1495	97.4	0.91	1025	6.8	1	2.7	PTB 09 ATEX 1023 X	31	3800

Three-phase motors with squirrel-cage rotor, High Efficiency IE2
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1



for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data											Design point 400 V, 50 Hz	
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version												
Efficiency according to manufacturer standard												
K82R 71 MX6 Ex de IIC T4	0.25	2.6	920	62	0.71	0.82	3.5	2.2	2.6	PTB 09 ATEX 1017 X	0.0012	17
K82R 80 M6 Ex de IIC T4	0.37	3.8	925	67	0.71	1.12	4.1	2.5	2.8	PTB 09 ATEX 1018 X	0.0019	24
K82R 80 MX6 Ex de IIC T4	0.55	5.7	925	69	0.72	1.6	4	2.4	2.7	PTB 09 ATEX 1018 X	0.0025	25
Efficiency according to IEC/EN 60034-30-1												
IE2-K82R 90 S6 Ex de IIC T4	0.75	7.5	955	IE2- 77.4	0.7	2	5.5	2.7	3.1	PTB 16 ATEX 1002 X	0.0080	44
IE2-K82R 90 L6 Ex de IIC T4	1.1	11	955	IE2- 79.5	0.72	2.75	5.9	2.8	3.1	PTB 16 ATEX 1002 X	0.0095	46
IE2-K82R 100 L6 Ex de IIC T4	1.5	14.8	965	IE2- 81.1	0.71	3.75	6.8	3	3.3	PTB 16 ATEX 1003 X	0.017	59
IE2-K82R 112 M6 Ex de IIC T4	2.2	21.8	965	IE2- 83	0.78	4.9	6.8	2.6	3.1	PTB 16 ATEX 1003 X	0.031	100
IE2-K82R 132 S6 Ex de IIC T4	3	29.5	970	IE2- 84.4	0.74	6.9	7.1	3.2	3.7	PTB 16 ATEX 1004 X	0.031	100
IE2-K82R 132 M6 Ex de IIC T4	4	39.6	965	IE2- 85.7	0.76	8.9	6.9	2.9	3.7	PTB 16 ATEX 1004 X	0.037	104
IE2-K82R 132 MX6 Ex de IIC T4	5.5	54	965	IE2- 87	0.81	11.3	7.2	2.7	3.4	PTB 16 ATEX 1004 X	0.048	117
K82R 160 M6 Ex de IIC T4 Y2	7.5	74	970	IE2- 88.1	0.84	14.6	7.5	2.8	3.8	PTB 09 ATEX 1018 X	0.12	190
K82R 160 L6 Ex de IIC T4 Y2	11	108	975	IE2- 89.5	0.81	22	7.6	2.9	3.9	PTB 09 ATEX 1018 X	0.12	190
K82R 180 L6 Ex de IIC T4 Y2	15	147	975	IE2- 90.4	0.82	29	7.4	2.7	3.8	PTB 09 ATEX 1019 X	0.19	215
K82R 200 L6 Ex de IIC T4 Y2	18.5	181	975	IE2- 91	0.83	35.5	7	2.5	3.5	PTB 09 ATEX 1020 X	0.28	270
K82R 200 LX6 Ex de IIC T4 Y2	22	215	975	IE2- 91.5	0.84	41.5	6.9	2.2	3.2	PTB 09 ATEX 1020 X	0.31	280
K82R 225 M6 Ex de IIC T4 Y2	30	291	985	IE2- 92.3	0.83	57	6.9	3	2.7	PTB 09 ATEX 1018 X	0.69	404
K82R 250 M6 Ex de IIC T4 Y2	37	359	985	IE2- 92.7	0.83	69	6.8	3	2.7	PTB 09 ATEX 1018 X	1.03	570
K82R 280 S6 Ex de IIC T4 Y2	45	434	985	IE2- 93.5	0.83	84	5.8	2.8	2.4	PTB 09 ATEX 1018 X	1.35	720
K82R 280 M6 Ex de IIC T4 Y2	55	533	985	IE2- 93.6	0.82	103	5.8	2.7	2.3	PTB 09 ATEX 1018 X	1.7	770
K82R 315 S6 Ex de IIC T4 Y2	75	723	990	IE2- 94.1	0.88	131	7.2	3	2.7	PTB 09 ATEX 1018 X	4.3	995
K82R 315 M6 Ex de IIC T4 Y2	90	868	990	IE2- 94.4	0.88	156	7.7	3.2	2.8	PTB 09 ATEX 1018 X	5	1050
K82R 315 L6 Ex de IIC T4 Y2	110	1061	990	IE2- 94.7	0.88	191	7.8	3.3	2.8	PTB 09 ATEX 1018 X	6	1145
K82R 315 LX6 Ex de IIC T4 Y2	132	1273	990	IE2- 95	0.88	230	7.7	3.2	2.8	PTB 09 ATEX 1018 X	7.3	1265
K82R 315 LY6 Ex de IIC T4 Y2	160	1543	990	IE2- 95.2	0.88	275	7.8	3.3	2.8	PTB 09 ATEX 1018 X	8.3	1440
K82R 355 M6 Ex de IIC T4 Y2	200	1929	990	IE2- 95.5	0.88	345	6.7	1.8	2.7	PTB 09 ATEX 1021 X	11.3	1750
K82R 355 L6 Ex de IIC T4 Y2	250	2411	990	IE2- 95.9	0.88	430	6.7	1.8	2.7	PTB 09 ATEX 1021 X	13.8	1950
K82R 355 LX6 Ex de IIC T4 Y2	315	3039	990	IE2- 96	0.88	540	6.9	1.7	2.6	PTB 09 ATEX 1021 X	17.6	2300
K82R 400 M6 Ex de IIC T4 Y2	355	3411	994	IE2- 96.6	0.89	595	6.6	1.7	2.7	PTB 09 ATEX 1022 X	27	2850
Efficiency according to manufacturer standard												
K82R 400 L 6 Ex de IIC T4	400	3843	994	96.6	0.89	670	6.8	1.1	2.6	PTB 09 ATEX 1022 X	31	3230
K82R 450 M 6 Ex de IIC T4	450	4319	995	96.6	0.89	755	6.8	1.2	2.8	PTB 09 ATEX 1023 X	46	3500
K82R 450 L6 Ex de IIC T4	500	4799	995	97	0.89	835	6.8	1.1	2.7	PTB 09 ATEX 1023 X	51	3800

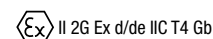
Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1

II 2G Ex d/de IIC T4 Gb

for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data										Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _x /I _B	M _x /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version												
K82R 63 M2 Ex de IIC T4	0.18	0.6	2905	66	0.67	0.59	6.8	4.6	6.5	PTB 09 ATEX 1017 X	0.00028	16
K82R 63 MX2 Ex de IIC T4	0.25	0.8	2860	70	0.75	0.69	5.8	3.4	4.7	PTB 09 ATEX 1017 X	0.00028	16
K82R 71 M2 Ex de IIC T4	0.37	1.3	2800	71.5	0.84	0.89	5.2	2.7	3.5	PTB 09 ATEX 1017 X	0.00028	16
K82R 71 MX2 Ex de IIC T4	0.55	1.9	2810	72	0.82	1.34	5.5	2.8	3.6	PTB 09 ATEX 1017 X	0.00039	17
K82R 80 M2 Ex de IIC T4	0.75	2.6	2790	IE1- 74.5	0.84	1.73	4.8	2.7	3.3	PTB 09 ATEX 1018 X	0.00058	24
K82R 80 MX2 Ex de IIC T4	1.1	3.7	2820	IE1- 78	0.82	2.5	5.5	2.8	3.5	PTB 09 ATEX 1018 X	0.0008	25
K82R 90 S2 Ex de IIC T4	1.5	5	2840	IE1- 77	0.86	3.25	5.9	2.9	3.2	PTB 09 ATEX 1018 X	0.0013	31
K82R 90 L2 Ex de IIC T4	2.2	7.4	2850	IE1- 82	0.85	4.55	6.3	3	3.5	PTB 09 ATEX 1018 X	0.0018	35
K82R 100 L2 Ex de IIC T4	3	10	2850	IE1- 82	0.87	6.1	6.8	2.7	3.3	PTB 09 ATEX 1018 X	0.0029	45
K82R 112 M2 Ex de IIC T4	4	13	2880	IE1- 85	0.88	7.7	6.5	2.3	3.1	PTB 09 ATEX 1018 X	0.0051	53
K82R 132 S2 Ex de IIC T4	5.5	18	2880	IE1- 85.5	0.87	10.7	6.4	2.5	3.3	PTB 09 ATEX 1018 X	0.0089	95
K82R 132 SX2 Ex de IIC T4	7.5	25	2910	IE1- 86.5	0.87	14.4	6.8	2.7	3.5	PTB 09 ATEX 1018 X	0.0125	100
K82R 160 M2 Ex de IIC T4	11	36	2925	IE1- 89	0.89	20	6.6	2.8	3.2	PTB 09 ATEX 1018 X	0.032	163
K82R 160 MX2 Ex de IIC T4	15	49	2920	IE1- 89	0.91	26.5	6.8	2.8	3.2	PTB 09 ATEX 1018 X	0.043	173
K82R 160 L2 Ex de IIC T4	18.5	60	2925	IE1- 90.5	0.92	32	6.8	2.6	3.1	PTB 09 ATEX 1018 X	0.052	188
K82R 180 M2 Ex de IIC T4	22	72	2925	IE1- 91.5	0.92	37.5	6.9	2.5	3	PTB 09 ATEX 1019 X	0.075	196
K82R 200 L2 Ex de IIC T4	30	97	2955	IE1- 92.5	0.90	52	7.2	2.6	2.9	PTB 09 ATEX 1020 X	0.13	254
K82R 200 LX2 Ex de IIC T4	37	120	2955	IE1- 93.3	0.91	63	7.2	2.7	3	PTB 09 ATEX 1020 X	0.16	278
K82R 225 M2 Ex de IIC T4	45	145	2960	IE1- 93	0.89	78	7.1	2.5	3	PTB 09 ATEX 1018 X	0.24	400
K82R 250 M2 Ex de IIC T4	55	177	2970	IE1- 93.8	0.89	95	7.1	2.4	2.8	PTB 09 ATEX 1018 X	0.4	545
K82R 280 S2 Ex de IIC T4	75	241	2970	IE1- 94.5	0.89	129	6.8	2.2	2.7	PTB 09 ATEX 1018 X	0.65	700
K82R 280 M2 Ex de IIC T4	90	289	2970	IE1- 94.7	0.9	152	6.8	2.4	2.8	PTB 09 ATEX 1018 X	0.78	762
K82R 315 S2 Ex de IIC T4	110	353	2975	IE1- 95	0.89	188	6.5	2	2.4	PTB 09 ATEX 1018 X	1.4	960
K82R 315 M2 Ex de IIC T4	132	424	2975	IE1- 95.5	0.89	225	6.8	2.1	2.5	PTB 09 ATEX 1018 X	1.6	1025
K82R 315 L2 Ex de IIC T4	160	514	2975	IE1- 95.7	0.90	270	6.9	2.4	2.7	PTB 09 ATEX 1018 X	1.9	1065
K82R 315 LX2 Ex de IIC T4	200	641	2980	IE1- 95.8	0.90	335	6.9	2.3	2.6	PTB 09 ATEX 1018 X	2.2	1270
K82R 315 LY2 Ex de IIC T4	250	801	2980	IE1- 96	0.92	410	7.2	1.7	2.7	PTB 09 ATEX 1018 X	2.8	1420
K82R 355 L2 Ex de IIC T4	315	1009	2980	IE1- 96.6	0.92	510	6.7	1.5	2.8	PTB 09 ATEX 1021 X	4.5	1900
K82R 355 LX2 Ex de IIC T4	355	1136	2985	IE1- 96.8	0.93	570	6.9	1.4	2.7	PTB 09 ATEX 1021 X	5	2050
K82R 355 LY2 Ex de IIC T4	400	1280	2985	96.8	0.94	640	7	1.3	2.8	PTB 09 ATEX 1021 X	5.5	2350
K82R 400 L2 Ex de IIC T4	450	1437	2990	97	0.94	710	7.2	1.1	2.8	PTB 09 ATEX 1022 X	8.5	2910

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1
Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-1



for rated voltage, temperature class T4
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

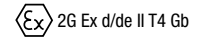
Motor selection data											Design point 400 V, 50 Hz	
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version												
K82R 63 M4 Ex de IIC T4	0.12	0.8	1445	67	0.60	0.43	5.6	3.9	3.9	PTB 09 ATEX 1017 X	0.00046	16
K82R 63 MX4 Ex de IIC T4	0.18	1.2	1415	70	0.70	0.53	4.7	2.7	2.7	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 M4 Ex de IIC T4	0.25	1.7	1370	68.5	0.80	0.66	3.9	2	2.3	PTB 09 ATEX 1017 X	0.00046	16
K82R 71 MX4 Ex de IIC T4	0.37	2.6	1380	71	0.80	0.94	3.9	2.2	2.3	PTB 09 ATEX 1017 X	0.00063	17
K82R 80 M4 Ex de IIC T4	0.55	3.8	1380	72	0.80	1.36	3.8	2	2.3	PTB 09 ATEX 1018 X	0.00092	24
K82R 80 MX4 Ex de IIC T4	0.75	5.1	1400	IE1- 75.5	0.79	1.81	4.5	2.1	2.5	PTB 09 ATEX 1018 X	0.0013	25
K82R 90 S4 Ex de IIC T4	1.1	7.5	1400	IE1- 76	0.83	2.55	4.8	2.1	2.5	PTB 09 ATEX 1018 X	0.0021	31
K82R 90 L4 Ex de IIC T4	1.5	10	1405	IE1- 79	0.82	3.35	5	2.3	2.7	PTB 09 ATEX 1018 X	0.0029	35
K82R 100 L4 Ex de IIC T4	2.2	15	1420	IE1- 80	0.8	4.95	5.4	2.4	2.8	PTB 09 ATEX 1018 X	0.0046	44
K82R 100 LX4 Ex de IIC T4	3	20	1415	IE1- 81.7	0.82	6.5	5.5	2.3	2.7	PTB 09 ATEX 1018 X	0.0056	46
K82R 112 M4 Ex de IIC T4	4	27	1435	IE1- 85	0.84	8.1	6.8	2.7	3.2	PTB 09 ATEX 1018 X	0.011	59
K82R 132 S4 Ex de IIC T4	5.5	36	1440	IE1- 86.5	0.85	10.8	6.4	2.5	2.7	PTB 09 ATEX 1018 X	0.022	100
K82R 132 M4 Ex de IIC T4	7.5	50	1440	IE1- 88	0.86	14.3	6.5	2.7	2.8	PTB 09 ATEX 1018 X	0.03	110
K82R 160 M4 Ex de IIC T4	11	72	1460	IE1- 89.5	0.85	21	6.6	2.5	2.8	PTB 09 ATEX 1018 X	0.057	168
K82R 160 L4 Ex de IIC T4	15	98	1455	IE1- 90	0.86	28	6.7	2.8	3.1	PTB 09 ATEX 1018 X	0.079	184
K82R 180 M4 Ex de IIC T4	18.5	121	1460	IE1- 91	0.84	35	6.7	2.9	3	PTB 09 ATEX 1019 X	0.13	198
K82R 180 L4 Ex de IIC T4	22	144	1460	IE1- 91.5	0.84	41.5	6.9	3	3	PTB 09 ATEX 1019 X	0.155	217
K82R 200 L4 Ex de IIC T4	30	196	1460	IE1- 92.5	0.88	53	6.8	2.6	2.9	PTB 09 ATEX 1020 X	0.25	274
K82R 225 S4 Ex de IIC T4	37	241	1465	IE1- 93	0.88	65	6.7	2.7	2.6	PTB 09 ATEX 1018 X	0.4	372
K82R 225 M4 Ex de IIC T4	45	292	1470	IE1- 93.5	0.88	79	6.5	2.7	2.6	PTB 09 ATEX 1018 X	0.48	402
K82R 250 M4 Ex de IIC T4	55	357	1470	IE1- 93.8	0.89	95	7.1	2.9	2.9	PTB 09 ATEX 1018 X	0.75	573
K82R 280 S4 Ex de IIC T4	75	484	1480	IE1- 94	0.86	134	6.8	2.6	2.5	PTB 09 ATEX 1018 X	1.25	740
K82R 280 M4 Ex de IIC T4	90	581	1480	IE1- 94.5	0.86	160	6.9	2.8	2.6	PTB 09 ATEX 1018 X	1.48	820
K82R 315 S4 Ex de IIC T4	110	707	1485	IE1- 95.1	0.85	196	6.7	2.5	2.5	PTB 09 ATEX 1018 X	2.2	1040
K82R 315 M4 Ex de IIC T4	132	849	1485	IE1- 95.3	0.85	235	6.8	2.6	2.6	PTB 09 ATEX 1018 X	2.7	1120
K82R 315 L4 Ex de IIC T4	160	1029	1485	IE1- 95.6	0.86	280	6.9	2.7	2.6	PTB 09 ATEX 1018 X	3.1	1210
K82R 315 LX4 Ex de IIC T4	200	1286	1485	IE1- 95.8	0.86	350	6.9	2.7	2.6	PTB 09 ATEX 1018 X	3.9	1430
K82R 315 LY4 Ex de IIC T4	250	1602	1490	IE1- 96.2	0.87	430	7.3	1.7	2.7	PTB 09 ATEX 1018 X	4.6	1565
K82R 355 L4 Ex de IIC T4	315	2019	1490	IE1- 96.3	0.9	525	6.9	1.5	2.7	PTB 09 ATEX 1021 X	6.1	2050
K82R 355 LX4 Ex de IIC T4	355	2275	1490	IE1- 96.6	0.90	590	6.9	1.6	2.8	PTB 09 ATEX 1021 X	6.7	2200
K82R 355 LY4 Ex de IIC T4	400	2564	1490	97	0.90	665	7	1.5	2.8	PTB 09 ATEX 1021 X	7.4	2430
K82R 400 M4 Ex de IIC T4	450	2875	1495	97	0.91	735	7.3	1.1	2.7	PTB 09 ATEX 1022 X	18	2850
K82R 400 L4 Ex de IIC T4	500	3194	1495	97.1	0.91	815	7.3	1.1	2.7	PTB 09 ATEX 1022 X	20	3230
K82R 450 M4 Ex de IIC T4	560	3577	1495	97.2	0.91	915	6.8	1	2.7	PTB 09 ATEX 1023 X	26	3500
K82R 450 L4 Ex de IIC T4	630	4024	1495	97.4	0.91	1025	6.8	1	2.7	PTB 09 ATEX 1023 X	31	3800

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“) for operation in Zone 1 according to EN 60079-1

for rated voltage, temperature class T4
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data											Design point 400 V, 50 Hz		
Type	P _B	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _K /M _B	ATEX no.	J	m	
	kW	Nm	rpm	%	-	400 V A	-	-	-		kgm ²	kg	
Synchronous speed 1000 rpm – 6-pole version													
K82R 71 MX6 Ex de IIC T4	0.25	2.6	920	62	0.71	0.82	3.5	2.2	2.6	PTB 09 ATEX 1017 X	0.0012	17	
K82R 80 M6 Ex de IIC T4	0.37	3.8	925	67	0.71	1.12	4.1	2.5	2.8	PTB 09 ATEX 1018 X	0.0019	24	
K82R 80 MX6 Ex de IIC T4	0.55	5.7	925	69	0.72	1.6	4	2.4	2.7	PTB 09 ATEX 1018 X	0.0025	25	
K82R 90 S6 Ex de IIC T4	0.75	7.9	910	IE1-	70.2	0.75	2.15	3.4	1.8	PTB 09 ATEX 1018 X	0.0033	31	
K82R 90 L6 Ex de IIC T4	1.1	11.4	920	IE1-	73	0.73	3.05	3.7	2	PTB 09 ATEX 1018 X	0.0046	35	
K82R 100 L6 Ex de IIC T4	1.5	15	945	IE1-	77	0.75	3.75	4.9	2.5	3	PTB 09 ATEX 1018 X	0.0095	46
K82R 112 M6 Ex de IIC T4	2.2	22	950	IE1-	81	0.75	5.2	5.6	2.7	3.1	PTB 09 ATEX 1018 X	0.017	59
K82R 132 S6 Ex de IIC T4	3	30	965	IE1-	84	0.78	6.6	6.3	2.7	3.1	PTB 09 ATEX 1018 X	0.031	100
K82R 132 M6 Ex de IIC T4	4	40	965	IE1-	85	0.79	8.6	6	2.6	3	PTB 09 ATEX 1018 X	0.037	104
K82R 132 MX6 Ex de IIC T4	5.5	55	960	IE1-	86	0.81	11.4	6.4	2.6	3	PTB 09 ATEX 1018 X	0.043	112
K82R 160 M6 Ex de IIC T4	7.5	75	960	IE1-	86.8	0.85	14.7	6.8	2.5	3.3	PTB 09 ATEX 1018 X	0.087	170
K82R 160 L6 Ex de IIC T4	11	109	965	IE1-	87.5	0.86	21	6.7	2.5	3.2	PTB 09 ATEX 1018 X	0.12	190
K82R 180 L6 Ex de IIC T4	15	148	965	IE1-	90	0.84	28.5	6.9	2.4	3.2	PTB 09 ATEX 1019 X	0.19	215
K82R 200 L6 Ex de IIC T4	18.5	181	975	IE1-	90.5	0.84	35	6.3	1.9	2.7	PTB 09 ATEX 1020 X	0.28	270
K82R 200 LX6 Ex de IIC T4	22	217	970	IE1-	91	0.85	41	6.8	2.2	3	PTB 09 ATEX 1020 X	0.31	280
K82R 225 M6 Ex de IIC T4	30	294	975	IE1-	92	0.84	56	6.6	2.8	2.5	PTB 09 ATEX 1018 X	0.69	404
K82R 250 M6 Ex de IIC T4	37	361	980	IE1-	92.5	0.84	69	6.6	2.8	2.6	PTB 09 ATEX 1018 X	1.03	570
K82R 280 S6 Ex de IIC T4	45	436	985	IE1-	93.5	0.83	84	5.8	2.8	2.4	PTB 09 ATEX 1018 X	1.35	720
K82R 280 M6 Ex de IIC T4	55	533	985	IE1-	93.5	0.82	104	5.8	2.7	2.3	PTB 09 ATEX 1018 X	1.7	770
K82R 315 S6 Ex de IIC T4	75	723	990	IE1-	94	0.87	132	6.4	2.6	2.4	PTB 09 ATEX 1018 X	4.3	995
K82R 315 M6 Ex de IIC T4	90	868	990	IE1-	94.2	0.88	157	6.5	2.6	2.4	PTB 09 ATEX 1018 X	5	1050
K82R 315 L6 Ex de IIC T4	110	1061	990	IE1-	94.5	0.88	191	6.5	2.7	2.5	PTB 09 ATEX 1018 X	6	1145
K82R 315 LX6 Ex de IIC T4	132	1273	990	IE1-	94.7	0.88	230	6.7	2.7	2.5	PTB 09 ATEX 1018 X	7.3	1265
K82R 315 LY6 Ex de IIC T4	160	1543	990	IE1-	95	0.88	275	6.8	2.6	2.5	PTB 09 ATEX 1018 X	8.3	1440
K82R 355 M6 Ex de IIC T4	200	1929	990	IE1-	95.5	0.88	345	6.7	1.8	2.7	PTB 09 ATEX 1021 X	11.3	1750
K82R 355 L6 Ex de IIC T4	250	2412	990	IE1-	95.9	0.88	430	6.7	1.8	2.7	PTB 09 ATEX 1021 X	13.8	1950
K82R 355 LX6 Ex de IIC T4	315	3039	990	IE1-	96	0.88	540	6.9	1.7	2.6	PTB 09 ATEX 1021 X	17.6	2300
K82R 400 M6 Ex de IIC T4	355	3411	994	IE1-	96.6	0.89	595	6.6	1.1	2.7	PTB 09 ATEX 1022 X	27	2850
K82R 400 L6 Ex de IIC T4	400	3843	994		96.6	0.89	670	6.8	1.1	2.6	PTB 09 ATEX 1022 X	31	3230
K82R 450 M6 Ex de IIC T4	450	4319	995		96.6	0.89	755	6.8	1.2	2.8	PTB 09 ATEX 1023 X	46	3500
K82R 450 L6 Ex de IIC T4	500	4799	995		97	0.89	835	6.8	1.1	2.7	PTB 09 ATEX 1023 X	51	3800
Synchronous speed 750 rpm – 8-pole version													
K82R 71 MX8 Ex de IIC T4	0.12	1.7	680	51	0.65	0.52	2.6	1.9	2.4	PTB 09 ATEX 1017 X	0.0012	17	
K82R 80 M8 Ex de IIC T4	0.18	2.5	690	61	0.65	0.66	3.2	2.2	2.6	PTB 09 ATEX 1018 X	0.0019	24	
K82R 80 MX8 Ex de IIC T4	0.25	3.5	690	62	0.64	0.91	3.2	2.2	2.5	PTB 09 ATEX 1018 X	0.0025	25	
K82R 90 S8 Ex de IIC T4	0.37	5.1	690	63	0.65	1.3	3	1.8	2.2	PTB 09 ATEX 1018 X	0.0033	31	
K82R 90 L8 Ex de IIC T4	0.55	7.6	690	67	0.65	1.85	3.1	1.8	2.2	PTB 09 ATEX 1018 X	0.0046	35	
K82R 100 L8 Ex de IIC T4	0.75	9.9	720	77	0.64	2.2	5	2.3	2.9	PTB 09 ATEX 1018 X	0.017	59	
K82R 100 LX8 Ex de IIC T4	1.1	15	715	78	0.68	3	4.8	2.2	2.7	PTB 09 ATEX 1018 X	0.017	59	
K82R 112 M8 Ex de IIC T4	1.5	20	705	80.6	0.76	3.55	4.9	2	2.6	PTB 09 ATEX 1018 X	0.029	97	
K82R 132 S8 Ex de IIC T4	2.2	30	710	81.2	0.72	5.4	5.4	2.3	2.7	PTB 09 ATEX 1018 X	0.029	97	
K82R 132 M8 Ex de IIC T4	3	40	715	92.9	0.72	7.3	6.3	2.7	3.1	PTB 09 ATEX 1018 X	0.036	113	
K82R 160 M8 Ex de IIC T4	4	53	725	95.5	0.77	8.8	5.6	1.9	3.1	PTB 09 ATEX 1018 X	0.071	157	
K82R 160 MX8 Ex de IIC T4	5.5	72	725	87.1	0.76	12	6	2.3	3.2	PTB 09 ATEX 1018 X	0.105	170	
K82R 160 L8 Ex de IIC T4	7.5	99	725	87.9	0.74	16.6	6.1	2.4	3.3	PTB 09 ATEX 1018 X	0.136	190	
K82R 180 L8 Ex de IIC T4	11	145	725	89.2	0.78	23	6.9	2.6	3.3	PTB 09 ATEX 1019 X	0.22	215	
K82R 200 L8 Ex de IIC T4	15	196	730	90.3	0.77	31	7.1	2.4	3.3	PTB 09 ATEX 1020 X	0.4	280	
K82R 225 S8 Ex de IIC T4	18.5	240	735	91.1	0.78	37.5	7.1	2.3	3.1	PTB 09 ATEX 1017 X	0.56	372	
K82R 225 M8 Ex de IIC T4	22	286	735	91.5	0.78	44.5	7.2	2.4	3.4	PTB 09 ATEX 1018 X	0.69	404	
K82R 250 M8 Ex de IIC T4	30	390	735	92.5	0.82	57	6.8	2	2.8	PTB 09 ATEX 1018 X	1.2	550	
K82R 280 S8 Ex de IIC T4	37	481	735	92.9	0.82	70	6.5	2	2.9	PTB 09 ATEX 1018 X	1.9	740	
K82R 280 M8 Ex de IIC T4	45	581	740	93.2	0.82	85	6.7	2.2	2.9	PTB 09 ATEX 1018 X	2.3	800	
K82R 315 S8 Ex de IIC T4	55	710	740	94	0.8	106	7.1	2	2.7	PTB 09 ATEX 1018 X	4.3	995	
K82R 315 M8 Ex de IIC T4	75	968	740	94.5	0.8	143	7	2	2.7	PTB 09 ATEX 1018 X	5	1050	
K82R 315 L8 Ex de IIC T4	90	1161	740	94.9	0.8	171	7.2	2.1	2.8	PTB 09 ATEX 1018 X	6	1145	
K82R 315 LX8 Ex de IIC T4	110	1420	740	95.2	0.81	205	7.1	2	2.7	PTB 09 ATEX 1018 X	7.3	1265	
K82R 315 LY8 Ex de IIC T4	132	1704	740	95.4	0.8	250	7.3	2.1	2.8	PTB 09 ATEX 1018 X	8.3	1440	
K82R 355 M8 Ex de IIC T4	160	2051	745	95.8	0.82	295	7.2	1.9	2.7	PTB 09 ATEX 1021 X	11.4	1750	
K82R 355 L8 Ex de IIC T4	200	2564	745	95.8	0.82	370	6.6	1.7	2.5	PTB 09 ATEX 1021 X	13.9	1950	
K82R 355 LX8 Ex de IIC T4	250	3205	745	95.8	0.82	460	6.1	1.2	2.4	PTB 09 ATEX 1021 X	17.7	2300	
K82R 400 M8 Ex de IIC T4	315	4038	745	96.2	0.83	570	6.2	1.2	2.4	PTB 09 ATEX 1022 X	30	3100	
K82R 400 L8 Ex de IIC T4	355	4551	745	96.3	0.83	640	6.1	1	2.4	PTB 09 ATEX 1022 X	34	3440	
K82R 450 M8 Ex de IIC T4	400	5128	745	96.6	0.84	710	6.1	1	2.2	PTB 09 ATEX 1023 X	51	3750	
K82R 450 L8 Ex de IIC T4	450	5768	745	96.7	0.84	800	6.1	1	2.2	PTB 09 ATEX 1023 X	57	4050	

Three-phase motors with squirrel-cage rotor with built-in brake



Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-0/60079-1

for mains operation, temperature class T4

Version for rated voltage range A according to IEC/EN 60034-1, 50 Hz

With surface cooling, duty type S1, continuous duty

Degree of protection IP 55, thermal class 155

Motor selection data																
Type	Output	Rated current at		Speed	Efficiency	Power factor	Starting torque	Starting current	Motor torque	Braking torque	Moment of inertia	Weight	Permissible cyclic duration factor per hour under duty type S4 15, 20, 40 or 60 % c.d.f.			
	P ₂	I _B 400 V	I _B 500 V	n _B	η _B	cosφ _B	M _A /M _N	I _A /I _N	M	M _e ¹⁾	J	m ²⁾	Fl=1.5	Fl=2	Fl=3	Fl=4
	kW	A	A	rpm	%	-	-	-	Nm	Nm	kgm ²	kg	S/h	S/h	S/h	S/h
Synchronous speed 3000 rpm – 2-pole version																
B82R 80 K2	0.75	1.84	1.47	2790	70	0.84	2.7	4.8	2.57	10	0.000925	26	1110	935	710	570
B82R 80 L2	1.1	2.6	2.05	2820	75	0.82	2.8	5.5	3.7	10	0.00118	27	580	495	435	320
B82R 90 L2	1.5	3.25	2.6	2840	77	0.86	2.7	5.5	5	20	0.00193	38	130	115	90	80
B82R 90 LX2	2.2	4.6	3.7	2850	81	0.85	2.7	5.6	7.4	20	0.00240	42	184	165	135	115
B82R 100 L2	3	6.1	4.85	2850	82	0.87	2.7	6.8	10.1	46	0.00365	51	71	65	54	47
B82R 112 M2	4	7.8	6.2	2880	84	0.88	2.3	6.5	13.3	46	0.00638	64	140	120	95	75
B82R 132 S2	5.5	10.9	8.7	2880	84	0.87	2.5	6.4	18.2	86	0.013	113	53	46	37	30
B82R 132 SX2	7.5	14.6	11.7	2910	85	0.87	2.7	6.8	24.7	86	0.0159	118	70	60	45	40
Synchronous speed 1500 rpm – 4-pole version																
B82R 80 K4	0.55	1.38	1.1	1380	72	0.8	2	3.8	3.8	10	0.0013	26	1340	1185	960	800
B82R 80 L4	0.75	1.85	1.48	1400	74	0.79	2.1	4.2	5.2	10	0.00168	27	1340	1170	930	640
B82R 90 L4	1.1	2.55	2.05	1400	75	0.83	2.1	4.8	7.5	20	0.003	38	230	205	170	145
B82R 90 LX4	1.5	3.4	2.7	1405	78	0.82	2.3	5	10.3	20	0.00525	42	270	245	200	170
B82R 100 L4	2.2	5	4	1420	79	0.8	2.4	5.4	14.8	46	0.00688	51	235	215	185	165
B82R 100 LX4	3	6.6	5.2	1415	79.5	0.83	2.3	5.5	20.1	46	0.007	54	110	105	90	80
B82R 112 M4	4	8.2	6.5	1435	84	0.84	2.7	6.8	26.5	46	0.0133	69	220	210	180	160
B82R 132 S4	5.5	11	8.8	1440	85	0.85	2.5	6.2	36.5	86	0.0263	118	100	95	75	65
B82R 132 M4	7.5	14.5	11.6	1440	87	0.86	2.7	6.5	50	86	0.0348	128	100	90	75	65
Synchronous speed 1000 rpm – 6-pole version																
B82R 80 K6	0.37	1.12	0.9	925	67	0.71	2.5	4.1	3.8	10	0.0024	26	1120	950	725	590
B82R 80 L6	0.55	1.6	1.28	925	69	0.72	2.4	4	5.7	10	0.003	27	1145	980	765	620
B82R 90 L6	0.75	2.2	1.75	910	66	0.75	1.8	3.4	7.8	20	0.00445	38	675	605	500	425
B82R 90 LX6	1.1	3.1	2.5	920	70	0.73	2	3.7	11.4	20	0.00573	42	125	115	100	85
B82R 100 L6	1.5	3.8	3.05	945	76	0.75	2.5	4.9	15.2	46	0.0113	54	240	215	175	145
B82R 112 M6	2.2	5.47	4.3	950	80	0.74	2.7	5.6	22.1	46	0.0198	69	595	530	425	355
B82R 132 S6	3	6.7	5.4	965	83	0.78	2.7	6.3	29.8	86	0.0347	118	390	350	290	250
B82R 132 M6	4	8.8	7	960	83.5	0.79	2.6	6	40	86	0.0415	124	215	195	160	140
B82R 132 MX6	5.5	11.6	9.3	960	84.5	0.81	2.6	6.4	55	86	0.0498	133	125	110	95	80
Synchronous speed 750 rpm – 8-pole version																
B82R 80 K8	0.18	0.66	0.52	690	61	0.65	2.2	3.2	2.5	10	0.0023	26	1125	940	710	580
B82R 80 L8	0.25	0.91	0.73	690	62	0.64	2.2	3.2	3.5	10	0.0029	27	1125	940	710	580
B82R 90 L8	0.37	1.3	1.04	690	63	0.65	1.8	3	5.1	20	0.0039	38	1285	1090	920	780
B82R 90 LX8	0.55	1.92	1.54	690	64.5	0.64	1.8	3.1	7.6	20	0.0052	42	1160	980	830	690
B82R 100 L8	0.75	2.35	1.87	710	70	0.66	2.4	4	10.2	46	0.0094	51	970	820	690	570
B82R 100 LX8	1.1	3.1	2.5	695	70	0.73	2	3.8	15.1	46	0.0109	54	880	750	630	520
B82R 112 M8	1.5	4.2	3.35	710	77	0.67	2.2	4.6	20.5	46	0.0198	69	680	560	480	406
B82R 132 S8	2.2	5	4	695	80	0.79	2	4.1	30	86	0.0331	113	650	550	460	380
B82R 132 M8	3	7	5.6	705	80.5	0.77	2.4	4.6	41	86	0.0401	122	630	520	450	360

¹⁾ Tolerance -20 %/+40 % at 1 m/s friction speed

²⁾ Type of construction B3 with terminal box

Three-phase motors with squirrel-cage rotor with built-in brake, pole-changing Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“) for operation in Zone 1 according to EN 60079-0/60079-1

2G Ex d/de II T4 Gb

for mains operation, temperature class T4
Version for rated voltage range A according to IEC/EN 60034-1, 50 Hz
With surface cooling, duty type S1, continuous duty
Degree of protection IP 55, thermal class 155

Motor selection data																
Type	Output	Rated current at		Speed	Efficiency	Power factor	Starting torque	Starting current	Motor torque	Braking torque	Moment of inertia	Weight	Permissible cyclic duration factor per hour under duty type S4 15, 20, 40 or 60 % c.d.f.			
	P ₂	I _B 400 V	I _B 500 V	n _B	η _B	cosφ _B	M _A /M _N	I _A /I _N	M	M _e ¹⁾	J	m ²⁾	FI=1.5	FI=2	FI=3	FI=4
	kW	A	A	rpm	%	-	-	-	Nm	Nm	kgm ²	kg	S/h	S/h	S/h	S/h
Synchronous speed 750/1500 rpm – 8/4-pole version																
B82R 90 L8-4	0.4	1.62	1.3	690	57.5	0.62	1.6	2.9	5.7	20	0.0049	38	***)			
	0.6	1.46	1.17	1395	69	0.86	1.6	4.2	4.1							
B82R 90 LX8-4	0.55	2.14	1.71	690	58	0.64	1.6	3	7.7	20	0.0069	42				
	0.8	1.9	1.52	1410	70	0.87	1.8	4.6	5.4							
B82R 100 L8-4	0.9	3	2.4	690	61	0.71	1.8	3.2	12.5	46	0.0098	51	***)			
	1.3	3	2.45	1400	69.5	0.89	1.5	4.2	8.9							
B82R 100 LX8-4	1	3.2	2.55	700	65	0.7	1.8	3.7	13.6	46	0.0138	54				
	1.6	3.6	2.9	1400	71	0.9	1.6	4.5	10.9							
B82R 112 M8-4	1.5	4.4	3.5	700	72	0.69	2	4.4	30.5	46	0.0218	69	***)			
	2.5	5.3	4.25	1390	74.5	0.91	1.9	5	17.1							
B82R 132 S8-4	2.3	6.8	5.4	720	75	0.65	1.8	4.4	30.5	86	0.0353	127	***)			
	3.6	7.2	5.8	1440	81	0.89	1.8	5.4	23.8							
B82R 132 M8-4	3	8.5	6.7	720	78	0.66	2	4.6	40	86	0.0498	138				
	5	9.7	7.8	1440	82.5	0.9	1.9	5.8	33							
Synchronous speed 750/3000 rpm – 8–2-pole version																
B82R 80 K8-2	0.1	0.5	0.4	685	46.5	0.62	1.5	2.3	1.4	10	0.0015	26	***)			
	0.4	1.07	0.86	2870	62.5	0.86	2.3	2.5	1.3							
B82R 80 L8-2	0.14	0.72	0.58	660	43	0.65	1.3	2.5	2	10	0.0019	27				
	0.56	1.58	1.26	2870	60.3	0.85	1.5	2.5	1.9							
B82R 90 L8-2	0.2	0.91	0.73	710	53	0.6	1.5	3	2.7	20	0.0035	38	***)			
	0.8	1.97	1.56	2885	65	0.9	1.4	6	2.6							
B82R 90 LX8-2	0.3	1.29	1.04	710	54	0.62	1.6	3	4	20	0.0058	42				
	1.1	2.5	2	2885	69.3	0.91	1.5	6.2	3.6							
B82R 100 L8-2	0.33	1.42	1.14	715	54	0.62	1.6	3	4.4	46	0.0069	51	***)			
	1.3	2.9	2.3	2885	70	0.92	1.4	6	4.3							
B82R 100 LX8-2	0.4	1.72	1.38	715	54	0.62	1.6	3	5.3	46	0.007	54				
	1.5	3.35	2.65	2885	70.8	0.92	1.5	6	5							
B82R 112 M8-2	0.55	2.1	1.67	715	59.3	0.64	1.5	3.5	7.3	46	0.011	69	***)			
	2.2	4.9	3.95	2920	71	0.9	2	6.9	7.2							
B82R 132 S8-2	0.8	3	2.4	720	59.8	0.65	1.7	3.2	10.6	86	0.0286	127	***)			
	3.2	6.7	5.4	2925	76.6	0.92	2.5	7.2	10.4							
B82R 132 M8-2	1.1	3.65	2.95	720	65.8	0.66	1.8	3	14.6	86	0.037	138				
	4.2	8.3	6.6	2935	78.9	0.93	2.6	7	13.7							

¹⁾ Tolerance -20 %/+40 % at 1 m/s friction speed

²⁾ Type of construction B3 with terminal box

***) upon request

Three-phase motors with Built-on brake

Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)
for operation in Zone 1 according to EN 60079-0/60079-1

for mains operation, temperature class T4 ..T5

Version for rated voltage range A according to IEC/EN 60034-1, 50 Hz

With surface cooling, duty type S1, continuous duty

Degree of protection IP 55, thermal class 155

Motor selection data																	
Type	P ₂	I _B	I _B	n _B	η _B	cosφ _B	M _A /M _N	I _A /I _N	M	M _e ¹⁾	J	m ²⁾	Fl=1.5	Fl=2	Fl=3	Fl=4	
	kW	400 V	500 V	rpm	%	-	-	-	Nm	Nm	kgm ²	kg	S/h	S/h	S/h	S/h	
Synchronous speed 3000 rpm – 2-pole version																	
K82R 80 K2	0.75	1.74	1.39	2790	74	0.84	2.7	4.8	2.57	10	10	0.00083	39	upon request			
K82R 80 L2	1.1	2.4	1.92	2820	78	0.85	2.7	5.5	3.73	10	10	0.00105	40				
K82R 90 L2	1.5	3.15	2.55	2840	78.5	0.87	2.7	5.5	5	20	11	0.00155	46				
K82R 90 LX2	2.2	4.4	3.5	2850	83	0.87	2.7	5.6	7.4	20	11	0.00205	50				
K82R 100 L2	3	5.9	4.7	2850	85	0.87	2.7	6.8	10.1	50	13	0.00505	74				
K82R 112 M2	4	7.7	6.1	2880	85.5	0.88	2.3	6.5	13.3	50	13	0.00725	82				
K82R 132 S2	5.5	10.4	8.3	2880	87	0.88	2.5	6.4	18.2	50	13	0.01105	124				
K82R 132 SX2	7.5	13.8	11.1	2910	88	0.89	2.7	6.8	24.6	100	16	0.01465	129				
K82R 160 M2	11	20	16	2925	89	0.89	2.8	6.6	36	150	19	0.0445	192				
K82R 160 M2	15	26.50	21	2920	89.5	0.92	2.8	6.8	49	150	19	0.0555	202				
K82R 160 L2	18.5	32.1	25.5	2925	90.5	0.92	2.6	6.8	60	150	19	0.0645	217				
K82R 180 M2	22	37.50	30.00	2925	91.5	0.92	2.5	6.9	72	150	19	0.0875	225				
K82R 180 L2	30	52	42	2955	92.5	0.9	2.6	7.2	97	270	24	0.1425	284				
K82R 200 L2	37	63	50	2955	93.3	0.91	2.7	7.2	120	270	24	0.1725	307				
Synchronous speed 1500 rpm – 4-pole version																	
K82R 80 K4	0.55	1.36	1.09	1380	73	0.8	2	3.8	3.8	10	10	0.00117	39	1340	1010	670	500
K82R 80 L4	0.75	1.81	1.45	1400	75.5	0.79	2.1	4.5	5.1	10	10	0.00155	40	1340	1010	670	500
K82R 90 L4	1.1	2.5	1.99	1400	77	0.83	2.1	4.8	7.5	10	11	0.0024	46	230	170	110	90
K82R 90 LX4	1.5	3.25	2.65	1405	79	0.82	2.3	5	10.2	20	11	0.0032	51	270	200	135	100
K82R 100 L4	2.2	4.8	3.8	1420	81	0.82	2.4	5.4	14.8	50	13	0.0049	66	235	175	120	90
K82R 100 LX4	3	6.3	5.1	1415	82.5	0.83	2.3	5.5	20.2	50	13	0.0078	83	110	80	55	45
K82R 112 M4	4	8.1	6.5	1435	85	0.84	2.7	6.8	26.6	50	13	0.013	97	220	165	110	85
K82R 132 S4	5.5	10.7	8.6	1440	87	0.85	2.5	6.2	36.5	50	13	0.025	142	150	110	75	55
K82R 132 M4	7.5	14.3	11.4	1440	88.2	0.86	2.7	6.5	50	100	16	0.033	152	140	105	70	50
K82R 160 M4	11	21	16.7	1460	89.5	0.85	2.5	6.6	72	100	19	0.06	210	95	70	50	35
K82R 160 L4	15	28	22.5	1455	90	0.86	2.8	6.5	98	150	19	0.092	251	60	45	30	25
K82R 180 M4	18.5	345	27.5	1460	91	0.85	2.9	6.6	121	150	19	0.143	243	70	50	35	25
K82R 180 L4	22	41	32.5	1460	91.5	0.85	3	6.9	144	270	24	0.168	277	60	45	30	20
K82R 200 L4	30	53	42.5	1460	92.5	0.88	2.6	6.8	196	270	24	0.26	344	40	50	20	15
Synchronous speed 1000 rpm – 6-pole version																	
K82R 80 K6	0.37	1.12	0.9	925	67	0.71	2.5	4.1	3.8	10	10	0.0012	39	1260	945	630	470
K82R 80 L6	0.55	1.6	1.28	925	69	0.72	2.4	4	5.7	10	10	0.0028	40	540	400	270	200
K82R 90 L6	0.75	2.15	1.72	910	67	0.75	1.8	3.4	7.9	10	11	0.0036	46	420	310	210	150
K82R 90 LX6	1.1	3.05	2.45	920	71	0.73	2	3.7	11.4	20	11	0.0049	51	560	420	280	210
K82R 100 L6	1	3.75	3	945	77	0.75	2.4	5	15.2	20	13	0.0098	68	44	330	220	165
K82R 112 M6	2.2	5.2	4.2	950	81	0.75	2.7	5.6	22.1	50	13	0.02	97	240	180	120	90
K82R 132 S6	3	6.6	5.3	965	84	0.78	2.7	6.3	29.7	50	13	0.034	142	170	130	85	54
K82R 132 M6	4	8.6	6.9	960	85	0.79	2.6	6	40	50	13	0.04	164	240	180	120	90
K82R 132 MX6	5.5	11.4	9.1	960	86	0.81	2.6	6.4	55	100	16	0.046	152	220	165	110	80
K82R 160 M6	7.5	14.7	11.7	960	86.8	0.85	2.5	6.8	75	100	19	0.09	212	290	220	145	110
K82R 160 L6	11	21	16.9	965	87.5	0.86	2.5	6.7	109	150	19	0.13	257	160	120	80	60
K82R 180 L6	15	28.5	23	965	90	0.84	2.4	6.9	148	270	24	0.2	285	130	100	65	50
K82R 200 L6	18.5	35	28	975	90.5	0.84	1.9	6.2	181	270	24	0.29	340	90	65	45	35
K82R 200 LX6	22	41	33	970	91	0.85	2.2	6.8	217	270	24	0.32	350	80	60	40	30
Synchronous speed 750 rpm – 8-pole version																	
K82R 80 K8	0.18	0.66	0.52	690	61	0.65	3.2	2.2	2.5	10	10	0.0021	39	960	720	480	360
K82R 80 L8	0.25	0.91	0.73	690	62	0.64	3.2	2.2	3.5	10	10	0.0028	40	720	540	360	270
K82R 90 L8	0.37	1.3	1.04	690	63	0.65	3	1.8	5.1	10	11	0.0036	46	560	420	280	210
K82R 90 LX8	0.55	1.85	1.48	690	67	0.64	3.1	1.8	7.6	10	11	0.0049	51	530	400	265	200
K82R 100 L8	0.75	2.3	1.85	710	71	0.66	4	2.4	10.1	20	13	0.0083	65	500	375	250	190
K82R 100 LX8	1.1	3.15	2.5	695	69	0.73	3.8	2	15.1	20	13	0.0098	68	700	530	350	260
K82R 112 M8	1.5	4.15	3.3	710	78	0.67	4.6	2.2	20.2	50	13	0.019	97	620	465	310	230
K82R 132 S8	2.2	5	4	695	80	0.79	4.1	2	30	50	13	0.031	139	230	170	115	90
K82R 132 M8	3	6.9	5.6	705	81	0.77	4.6	2.4	41	50	13	0.038	152	240	180	120	90
K82R 160 M8	4	8.7	7	715	85	0.78	4.6	1.8	53	100	19	0.073	201	150	110	75	55
K82R 160 MX8	5.5	12	9.6	720	86	0.77	5.4	2.1	73	100	19	0.107	212	145	110	70	55
K82R 160 L8	7.5	16.3	13	720	86.5	0.77	5.6	2.2	99	150	19	0.149	257	145	110	70	55
K82R 180 L8	11	22.5	18.1	725	89	0.79	6.4	2.4	145	270	24	0.23	285	200	150	100	75
K82R 200 L8	15	31	24	730	89.5	0.8	6.9	2.4	196	270	24	0.41	350	100	75	50	35

¹⁾ Certificate no. for all brakes BVS No. 81.001, marking Ex de IIC T5

²⁾ Type of construction B3 with terminal box

Coil data for built-in brake (version II2G Ex de II (B+H2)T4)

Size Motor	Voltage U = [V]	Current I = [A]	Resistance R _{min} [Ω]	Voltage U ~ [V]	Current I ~ [A]
80	24	1.09	22	-	-
	103	0.29	369	230	0.46
	130	0.23	567	290	0.36
	176	0.19	910	400	0.3
90	24	1.5	16	-	-
	103	0.36	290	230	0.57
	130	0.35	376	290	0.55
	176	0.26	684	400	0.41
100 and 112	24	1.85	13	-	-
	103	0.42	244	230	0.66
	130	0.35	376	290	0.55
	176	0.31	575	400	0.49
132	24	2.93	8.58	-	-
	130	0.56	232	290	0.88
	176	0.49	360	400	0.77

Coil data for built-on brake (version II2G Ex de IIC T5)

Size Brake	Moment M [V]	Voltage U = [V]	Current I = [A]	Resistance R _{min} [Ω]	Voltage U ~ [V]	Current I ~ [A]
10/11	10 or 20	24	2.1	11.6	-	-
		98	0.55	177	110	0.61
		205	0.27	770	230	0.3
		215	0.225	954	240	0.25
		258	0.21	1197	270	0.23
		356	0.14	2571	400	0.16
13/16	50 or 100	24	2.93	8.2	-	-
		98	0.8	122.4	110	0.89
		205	0.39	536	230	0.44
		215	0.346	621	240	0.38
		258	0.31	838	270	0.34
		356	0.2	1685	400	0.24
19/24	150 or 270	24	3.08	7.8	-	-
		98	0.85	116	110	0.94
		205	0.4	516	230	0.45
		215	0.4	538	240	0.44
		356	0.25	1438	400	0.28

Bearings

Version IE1 (K82R .../B82R ...)

Size	Pole number	D-end bearing		N-end bearing	
		Standard Fixed bearing for all types of construction	Reinforced bearing	Standard Floating bearing for all types of construction	Insulated bearing
K82R 63	2, 4	6202 2Z	---	6004 2Z	
K82R 71	2, 4, 6, 8	6202 2Z	---	6004 2Z	
K82R 80	2, 4, 6, 8	6204 2Z	---	6204 2Z	
K82R 90	2, 4, 6, 8	6205 2Z	---	6205 2Z	
K82R 100	2, 4, 6, 8	6206 2Z C3	NU 206	6206 2Z C3	6206 C3 VL 2071
K82R 112	2, 4, 6, 8	6306 2Z C3	NU 306	6206 2Z C3	6206 C3 VL 2071
K82R 132	2, 4, 6, 8	6308 2Z C3	NU 308	6308 2Z C3	6308 C3 VL 2071
K82R 160	2, 4, 6, 8	6309 2Z C3	NU 309	6309 2Z C3	6309 C3 VL 2071
K82R 180	2, 4, 6, 8	6310 2Z C3	NU 310	6310 2Z C3	6310 C3 VL 2071
K82R 200	2, 4, 6, 8	6312 2Z C3	NU 312	6312 2Z C3	6312 C3 VL 2071
K82R 225	2, 4, 6, 8	6313 2Z C3	NU 313	6313 2Z C3	6313 C3 VL 2071
K82R 250	2, 4, 6, 8	6315 2Z C3	NU 315	6313 2Z C3	6313 C3 VL 2071
K82R 280	2, 4, 6, 8	6316 2Z C3	NU 316	6315 2Z C3	6315 C3 VL 2071
K82R 315	2	6316 C3	NU 316	6316 C3	6316 C3 VL 2071
K82R 315	4, 6, 8	6318 C3	NU 318	6316 C3	6316 C3 VL 2071
K82R 355	2	6318 C3	NU 318	6318 C3	6318 C3 VL 2071
K82R 355	4, 6, 8	6320 C3	NU 320	6318 C3	6318 C3 VL 2071
Type of construction V1, V3 only					
K82R 400	2	6318 C3	7318 B	6318 C4	
K82R 400	4, 6, 8	6322 C3	7322 B	6320 C3	
K82R 450	2	6318 C3	7318 B	6318 C4	
K82R 450	4, 6, 8	6324 C3	7324 B	6322 C3	

Version IE2, IE3 and MEPS (K82R ... Y2/Y3/Y/B82R ... Y2/Y3/Y)

Size	Pole number	D-end bearing		N-end bearing	
		Standard	Reinforced bearing	Standard	Insulated bearing
K82R 80	2, 4, 6, 8		---	6205 2Z	
K82R 90	2, 4, 6, 8	6206 2Z C3	---	6206 2Z C3	
K82R 100	2, 4, 6, 8	6306 2Z C3	NU 306	6206 2Z C3	
K82R 112	2, 4, 6, 8	6308 2Z C3	NU 308	6308 2Z C3	
K82R 132	2, 4, 6, 8	6308 2Z C3	NU 308	6308 2Z C3	
K82R 160	2, 4, 6, 8	6309 2Z C3	NU 309	6309 2Z C3	
K82R 180	2, 4, 6, 8	6310 2Z C3	NU 310	6310 2Z C3	
K82R 200	2, 4, 6, 8	6312 2Z C3	NU 312	6312 2Z C3	
K82R 225	2, 4, 6, 8	6313 2Z C3	NU 313	6313 2Z C3	
K82R 250	2, 4, 6, 8	6315 2Z C3	NU 315	6313 2Z C3	
K82R 280	2, 4, 6, 8	6316 2Z C3	NU 316	6315 2Z C3	
K82R 315	2	6316 C3	NU 316	6316 C3	6316 C3 VL 2071
K82R 315	4, 6, 8	6318 C3	NU 318	6316 C3	6316 C3 VL 2071
K82R 355	2	6318 C3	NU 318	6318 C3	6318 C3 VL 2071
K82R 355	4, 6, 8	6320 C3	NU 320	6318 C3	6318 C3 VL 2071

Version MEPS (K82R ... XY/B82R ... XY)

Size	Pole number	D-end bearing		N-end bearing	
		Standard	Reinforced bearing	Standard	Insulated bearing
K82R 250S	2, 4, 6, 8	6315 2Z C3	NU 315	6313 2Z C3	
K82R 250M	2, 4, 6, 8	6316 2Z C3	NU 316	6315 2Z C3	
K82R 280S	2, 4, 6, 8	6316 2Z C3	NU 316	6315 2Z C3	
K82R 280M	2	6316 C3	NU 316	6316 C3	6316 C3 VL 2071
K82R 280M	4, 6, 8	6318 C3	NU 318	6316 C3	6316 C3 VL 2071
K82R 315	2	6316 C3	NU 316	6316 C3	6316 C3 VL 2071
K82R 315	4, 6, 8	6318 C3	NU 318	6316 C3	6316 C3 VL 2071

Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)

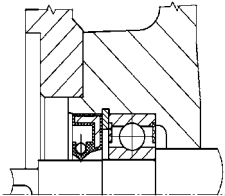
Bearing arrangement

D-end bearing

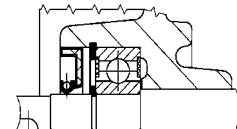
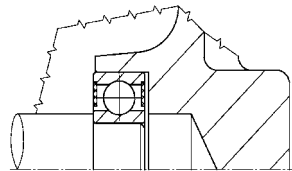
N-end bearing

D-end bearing

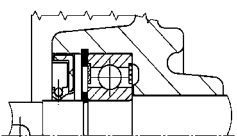
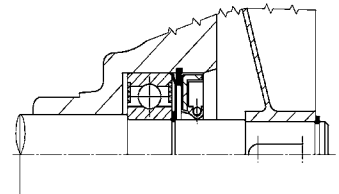
N-end bearing



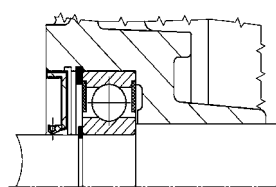
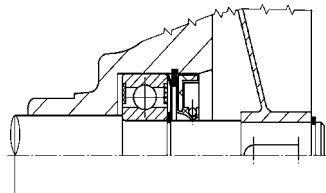
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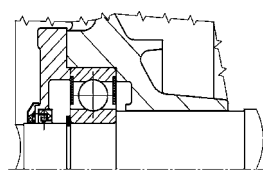
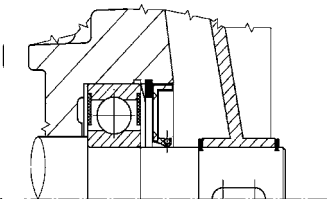
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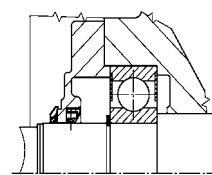
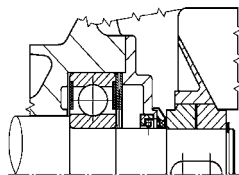
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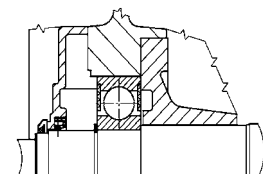
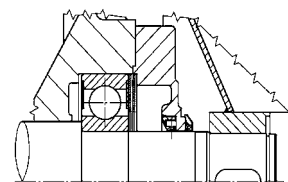
Size 160



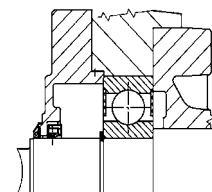
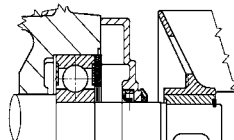
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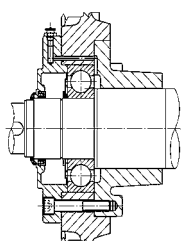
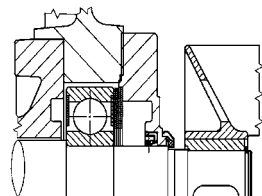
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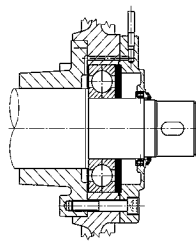
Size 250



Size 280



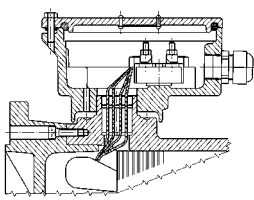
Size 315-450



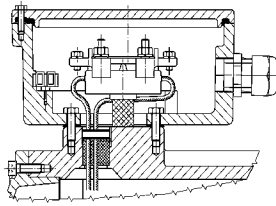
Illustrations without obligation

Terminal boxes

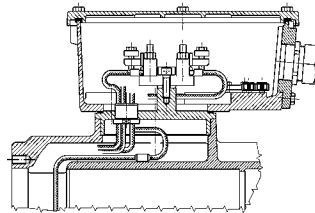
Explosion protected motors, Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)



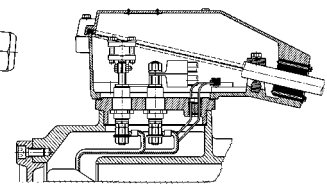
Size 63 – 112



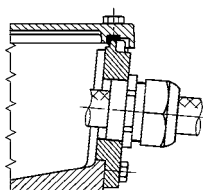
Size 132 – 160



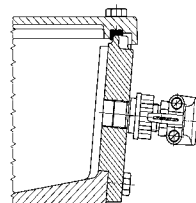
Size 180 – 280
Size 315 with stud bushing



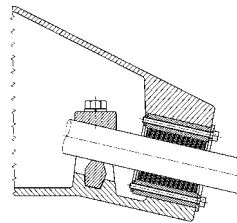
Size 250 – 450
Size 250 + 280 with
terminal plate
as size 180 – 280



Version 1
Cable entry according to
EN 60079-7
(compression gland)
for entry of fixed cables



Version 3
Cable entry gland according to
EN 60079-7,
with strain relief and twist/kink
protection for cables of mobile
equipment



Version 9
Divided terminal box with internal strain relief,
cable entry according to EN 60079-7

Mains cable entry to Ex e („eb“) terminal boxes

Ver- sion	Size	63	71	80	90	100	112	132	160	180	200	225	250	280	315	355	400–450
1	Thread	1 x M25 x 1.5				1 x M32 x 1.5			1 x M40 x 1.5		1 x M50 x 1.5		1 x M63 x 1.5			not available	
	for cable Outer diameter-Ø mm	13–19				12–21			17–28		21–35		27–48			not available	
3	Thread	1 x M25 x 1.5				1 x M32 x 1.5			1 x M40 x 1.5		1 x M50 x 1.5		1 x M63 x 1.5			1 x M80 x 2	1 x M90 x 2
	for cable Outer diameter-Ø mm	11–16				15–20			19–27		26–34		35–46			62–68	74–80
9	for cable Outer diameter-Ø mm	not available											1 x Ø 48–70 2 x Ø 26–48			1 x Ø 48–70 2 x Ø 48–70	

Normal version

Terminal boxes in normal version Ex e („eb“) IIC

The terminal boxes of low-voltage motors are supplied with metric threads, with assignments according to DIN 42 925 and cable glands according to EN 50262, certified to EN 60079-7.

From size 180, they are provided with a detachable screw-
ed plate to accommodate either threaded compression
glands or conductor glands. From size 250, longitudinally
divided terminal boxes are also available.

An additional terminal box for thermal monitoring or space
heating can be supplied upon request for motors from
size 132. The additional box is screwed onto the motor
terminal box, except for sizes 355 to 450, where it is
mounted on the housing.

Suitable cross-sections for Ex e („eb“) IIC for low voltage

Size	Rated cross-section max. [mm ²]	Rated current max. [A]	Terminal type	No. of terminals	Terminal thread
36–112	4	25	U-clamp terminal ²⁾	6	M5
132, 160	10	63	U-clamp terminal ²⁾	6	M6
180–225	70	100	Tab terminal ²⁾	6	M8
250–280	120	250	Tab terminal ²⁾	6	M12
315	150	315 ¹⁾	Round terminal ²⁾	6	M12
355–450	300	400 ¹⁾	Round terminal ²⁾	6	M16
355–450	400	630 ¹⁾	Universal terminal ³⁾	6	M16

¹⁾ Material Cu

²⁾ Suitable for connection with and without cable lug

³⁾ Suitable for connection with cable lug

Terminal boxes for Ex d („db“) IIC for low voltage

The terminal boxes comply with the stipulations for explosion protection type Ex “d” (“db”) according to EN 60079.

In the normal version, they are provided with a threaded hole according to ISO DIN 13.

Upon request, they can also be supplied with the thread version specified in the bottom table. The required thread dimensions must be specified in the order.

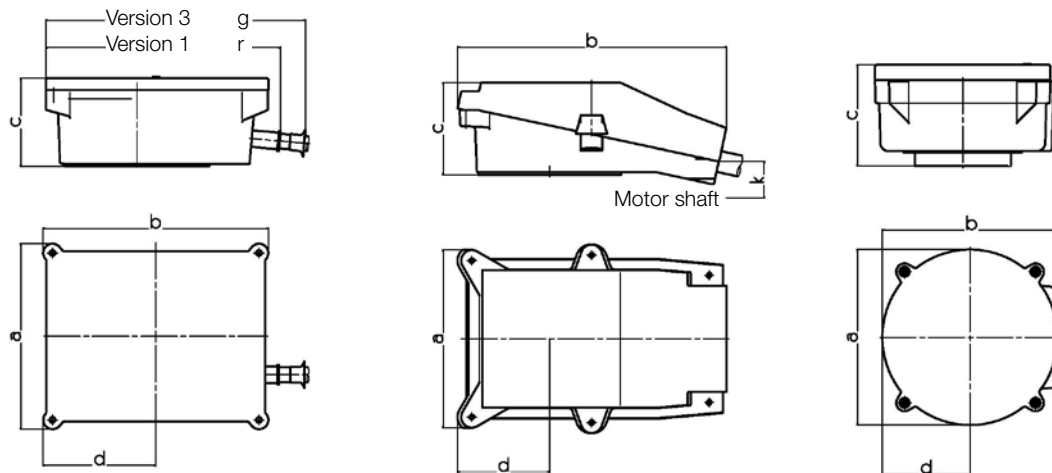
Note: Cable entry components for explosion protection type Ex “d” (“db”) IIC must also comply with EN 60079-1 and must be certified accordingly. These components are not included in the scope of delivery.

Cable entry threads for Ex d („db“) terminal boxes for low-voltage motors

Size	63	71	80	90	100	112	132	160	180	200	225	250	280	315	400–450
Thread version ISO-DIN 13	1 x M25 x 1.5				1 x M32 x 1.5				1 x M40 x 1.5	1 x M50 x 1.5		1 x M63 x 1.5			1 x M80 x 2
NEMA version NPT	¾"				1"				1¼"	1½"		2"			3"

For thermal monitoring: For all versions additionally 1 x M25 x 1.5 and 1 x ½"

Motors in type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“)



Protection type		EAR – Ex e						CAR – Ex d					
Cable entry		Version 1 and 3						Without cable gland					
Size		a	b	c	d	r	g	Size		a	b	c	d
Connection space								Connection space					
63	EAR 80	145	145	88	53	179	185	63	CAR 80	145	145	92	53
71	EAR 80	145	145	88	53	179	185	71	CAR 80	145	145	92	53
80	EAR 80	145	145	88	53	179	185	80	CAR 80	145	145	92	53
90	EAR 80	145	145	88	53	179	185	90	CAR 80	145	145	92	53
100	EAR 80	145	145	88	53	185	200	100	CAR 80	145	145	92	53
112	EAR 80	145	145	88	53	185	200	112	CAR 80	145	145	92	53
132	EAR 132	220	220	117	110	260	275	132	CAR 132	220	220	103	110
160	EAR 132	220	220	117	110	265	281	160	CAR 132	220	220	103	110
180	EAR 180	280	340	152	140	385	401	180	CAR 180	265	270	162	133
200	EAR 180	280	340	152	140	390	420	200	CAR 180	265	270	162	133
225	EAR 180	280	340	154	140	390	420	225	CAR 225	380	380	202	190
250	EAR 250	340	422	206	161	474	512	250	CAR 225	380	380	202	190
280	EAR 250	340	422	206	161	474	512	280	CAR 225	380	380	202	190
315	EAR 250	340	422	198	161	474	512	315	CAR 315	380	380	208	190
355	EAR 355	480	527	249	224	---	617	355	CAR 355	484	734	335	242
400	EAR 355	480	527	249	224	---	630	400	CAR 355	484	734	335	242
450	EAR 355	480	527	249	224	---	630	450	CAR 355	484	734	335	242

Protection type		EAR – Ex e				
Cable entry		Version 9				
Size		a	b	c	d	k
Connection space						
250	EAR 250	356	512	186	179	317
280	EAR 250	356	512	186	179	357
315	EAR 250	356	512	186	179	427
355	EAR 355	425	650	254	213	541
400	EAR 355	425	650	254	213	558
450	EAR 355	425	650	254	213	626

Protection type		EAR – Ex e						CAR – Ex d					
Cable entry		Version 1 and 3						without cable gland					
Type CD...XY*		a	b	c	d	r	g	Size		a	b	c	d
Connection space								Connection space					
250S	EAR 250	340	422	196	161	474	512	250S	CAR 225	380	380	202	190
250M	EAR 250	340	422	196	161	474	512	250M	CAR 225	380	380	202	190
280S	EAR 250	340	422	196	161	474	512	280S	CAR 225	380	380	202	190
280M	EAR 250	340	422	196	161	474	512	280M	CAR 315	380	380	208	190
315	EAR 250	340	422	196	161	474	512	315	CAR 315	380	380	208	190

Dimensions

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1

Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“),

High- and Premium Efficiency IE2, IE3

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B3, IM B6, IM B7,

IM B8, IM V5¹⁾, IM V6

Type	A	AA	AB	AC	B	BA	BB	BC	C	H _{-0.5}	HA	HD	K _{H17}	K' _{H17}	L Pole number			
IE-K82R...															2	4	6	8
80 M	125	35	160	158	100	37	130	15	50	80	12	271	Ø 10	-	343	343	-	-
90 S	140	38	180	178	100	44	130	15	56	90	12	295	Ø 10	-	398	398	398	-
90 L	140	40	180	183	125	44	155	15	56	90	12	295	Ø 10	-	398	398	398	-
100 L	160	42	200	198	140	46	175	17.5	63	100	15	311	Ø 12	-	419	419	419	419
112 M	190	45	235	218	140	46	175	17.5	70	112	17	337	Ø 12	-	517	517	517	517
132 S	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12	-	-	529	529	529
132 S1	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12	-	529	-	-	-
132 S2	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12	-	579	-	-	-
132 M	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12	-	-	579	-	579
132 M1	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12	-	-	-	529	-
132 M2	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12	-	-	-	579	-
K82R...Y2/Y3/Y																		
160 M	254	65	310	318	210	100	300	23	108	160	25	477	15	20	713	676	676	676
160 LY2	254	65	310	318	254	100	300	23	108	160	25	477	15	20	713	676	676	-
160 LY3/Y	254	65	310	318	254	100	300	23	108	160	25	477	15	20	713	711	711	676
180 M	279	75	350	353	241	100	340	30	121	180	25	545	15	20	726	726	-	-
180 LY2	279	75	350	353	279	100	340	30	121	180	25	545	15	20	-	726	726	-
180 LY3/Y	279	75	350	353	279	100	340	30	121	180	25	545	15	20	-	776	726	726
200 L	318	80	390	393	305	90	365	30	133	200	30	581	20	26	789	789	789	789
K82R...Y2/Y3/Y																		
225 S	356	85	450	455	286	90	370	29.5	149	225 _{-0.5}	35	634	20	26	-	937	-	888
225 M	356	85	450	455	311	90	370	29.5	149	225 _{-0.5}	35	634	20	26	907	937	888	888
250 M	406	105	510	493	349	110	420	35.5	168	250 _{-0.5}	40	731	26	35	1000	1000	934	934
280 S	457	110	570	548	368	120	500	40.5	190	280 ₋₁	45	802	26	35	1109	1109	1109	1109
280 M	457	110	570	548	419	120	500	40.5	190	280 ₋₁	45	802	26	35	1109	1109	1109	1109
315 S	508	150	630	635	406	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218
315 M	508	150	630	635	457	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218
315 L1	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218
315 L2	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1418	1498
315 L3	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1418	1498
355 M	610	180	720	725	560	220	720	45	254	355 ₋₁	50	1084	30	39	-	-	1597	1597
K82R ... XY2/XY3/XY****																		
250 S	406	110	510	493	311	110	420	30	168	250 _{-0.5}	45	731	Ø 26.5	-	1000	1000	934	934
250 M	406	110	510	548	349	110	420	30	168	250 _{-0.5}	45	762	Ø 26.5	-	1109	1109	1109	1109
280 S	457	110	570	548	368	120	500	40.5	190	280 ₋₁	45	802	26	35	1109	1109	1109	1109
280 M	457	110	570	635	419	-	570	40	190	280 ₋₁	48	862	Ø 26.5	-	1268	1298	1218	1218
315 S	508	150	630	635	406	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218
315 M	508	150	630	635	457	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1298
315 L1	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1218	1298
315 L2	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1418	1498

Lifting eye bolts from size 90.

Dimension AC measured over screw head.

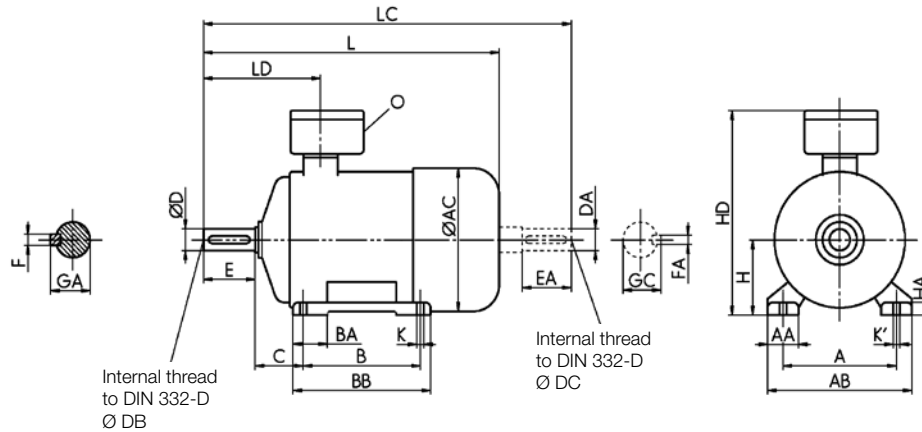
Dimension HD refers to terminal box Ex "e".

Terminal box can be rotated by 4 x 90°.

¹⁾ Type of construction IM V5 with protective canopy.

²⁾ For type 250 to 400-4, 6, 8: Specifications for 2 poles apply for dimensions DA, EA, GC, FA, DC.

For type 450-6, 8: Specifications for 4 poles apply for dimensions EA, GC, FA, DC.



Type	LC			LD		0	Shaft end			E, EA	GA, GC		F, FA	DB, DC	
(IE-)K82R...	Pole number			Pole number			D, DA								
	2	4	6, 8												
80 M	417	417	-	127		2 x M25 x 1.5	19 ₆			40	21.5		6		M6
90 S	479	479	479	139		2 x M25 x 1.5	24 ₆			50	27		8		M8
90 L	479	479	479	139		2 x M25 x 1.5	24 ₆			50	27		8		M8
100 L	515	515	515	154		2 x M32 x 1.5	28 ₆			60	31		8		M10
112 M	608	608	608	189		2 x M32 x 1.5	28 ₆			60	31		8		M10
132 S	645	645	645	226		2 x M32 x 1.5	38 ₆			80	41		10		M12
132 S1	645	-	-	226		2 x M32 x 1.5	38 ₆			80	41		10		M12
132 S2	652	-	-	226		2 x M32 x 1.5	38 ₆			80	41		10		M12
132 M	-	652	645*	226		2 x M32 x 1.5	38 ₆			80	41		10		M12
132 M1	-	-	645**	226		2 x M32 x 1.5	38 ₆			80	41		10		M12
132 M2	-	-	652**	226		2 x M32 x 1.5	38 ₆			80	41		10		M12

K82R Y2,Y3,Y

160 M	864	864	864	261		2 x M40 x 1.5	42 ₆			110	45		12		M16
160 LY2	864	864	864**	261		2 x M40 x 1.5	42 ₆			110	45		12		M16
160 LY3/Y	864	899	***	261		2 x M40 x 1.5	42 ₆			110	45		12		M16
180 M	909	909	-	369		2 x M40 x 1.5	48 ₆			110	51.5		14		M16
180 LY2	-	909	909**	369		2 x M40 x 1.5	48 ₆			110	51.5		14		M16
180 LY3/Y	-	959	909	369		2 x M40 x 1.5	48 ₆			110	51.5		14		M16
200 L	983	983	983	390		2 x M50 x 1.5	55 ₆			110	59		16		M20

Type	LC		LD		0		Shaft end			E, EA ²⁾		GA, GC ²⁾		F, FA ²⁾		DB, DC ²⁾		
K82R...	Pole number		Pole number				D _{m6} ¹⁾	DA _{m6} ²⁾										
Y2/Y3/Y	2	4	6, 8	2	4, 6, 8		2	4	6, 8	2	4, 6, 8	2	4	6, 8	2	4, 6, 8	2	4, 6, 8
225 S	-	1175	1175	-	377	2 x M50 x 1.5	-	60	60	-	140	-	64	64	-	18	-	M20
225 M	1145	1175	1175	347	377	2 x M50 x 1.5	55	60	60	110	140	59	64	64	16	18	M20	M20
250 M	1250	1250	1250	482	482	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20
280 S	1375	1375	1375	483	483	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
280 M	1375	1375	1375	483	483	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
315 S	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 M	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L1	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L2	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L3	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
355 M	-	-	1980	-	702	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24

Type	LC			LD			Shaft end			E, EA ²⁾			GA, GC ²⁾			F, FA ²⁾			DB, DC	
CD...	Pole number			Pole number			0	D _{m6} ¹⁾	DA _{m6} ²⁾											
XY2/XY3	2	4	6, 8	2	4, 6, 8			2	4	6, 8	2	4, 6, 8	2	4	6, 8	2	4, 6, 8	2	4, 6, 8	
250 S	1250	1250	1250	482	482	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20		
250 M	1375	1375	1375	483	483	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20		
280 S	1375	1375	1375	483	483	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20		
280 M	1543	1573	1573	496	526	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20		
315 S	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20		
315 M	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20		
315 L1	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20		
315 L2	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20		

For pole-switching motors (4/2, 6/4 and 8/4), the 4-pole shaft end is used.

Exception: Motors in sizes 355, 400 and 450 with pole-switching configuration 4/2. In this case, the 2-pole shaft end is used.

The length dimension L corresponds to 4-pole motors for all sizes.

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“), High- and Premium Efficiency IE2, IE3

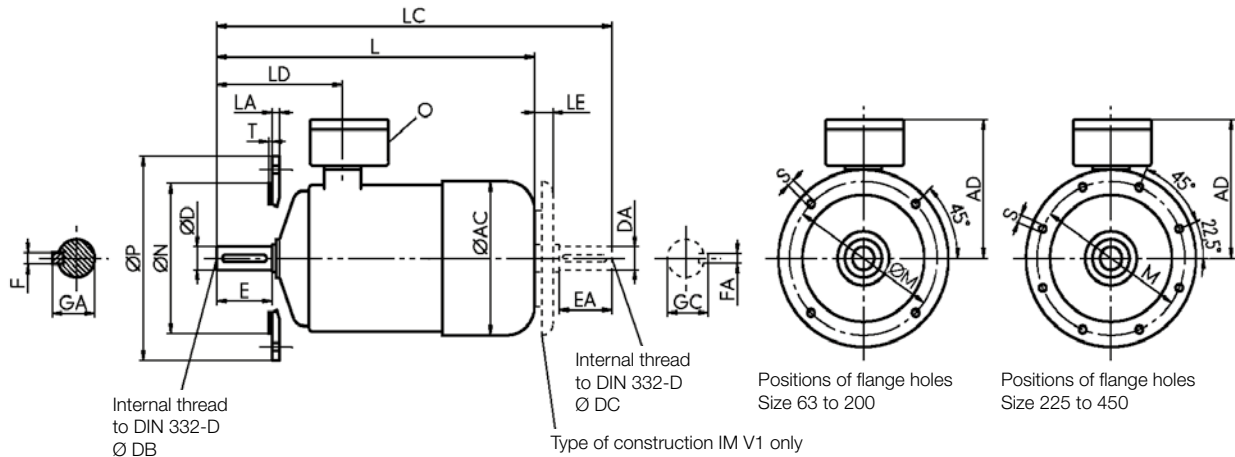
with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B5, IM V1¹⁾, IM V3

Type	Mounting flange			P	S _{H17}	T	AC	AD	L				LC			
	LA	M	N						Pole number				Pole number			
IE-K82R...									2	4	6	8	2	4	6	8
80 M	12	165	130 _{j6}	200	12	3.5	158	185	343	343	-	-	417	417	-	-
90 S+L	12	165	130 _{j6}	200	12	3.5	178	198	398	398	398	-	479	479	479	-
100 L	16	215	180 _{j6}	250	14.5	4	198	205	419	419	419	419	515	515	515	515
112 M	16	215	180 _{j6}	250	14.5	4	218	225	517	517	517	517	608	608	608	608
132 S	16	265	230 _{j6}	300	14.5	4	265	279	-	529	529	529	-	645	645	645
132 S1	16	265	230 _{j6}	300	14.5	4	265	279	529	-	-	-	645	-	-	-
132 S2	16	265	230 _{j6}	300	14.5	4	265	279	579	-	-	-	652	-	-	-
132 M	16	265	230 _{j6}	300	14.5	4	265	279	-	579	-	529	-	652	-	645
132 M1	16	265	230 _{j6}	300	14.5	4	265	279	-	-	529	-	-	-	645	-
132 M2	16	265	230 _{j6}	300	14.5	4	265	279	-	-	579	-	-	-	652	-
K82R...Y2/Y3/Y																
160 M	20	300	250 _{j6}	350	18.5	5	318	317	713	676	676	676	864	864	864	864
160 LY2	20	300	250 _{j6}	350	18.5	5	318	317	713	676	676	-	864	864	864	-
160 LY3/Y	20	300	250 _{j6}	350	18.5	5	318	317	713	711	711	676	864	899	899	864
180 M	20	300	250 _{j6}	350	18.5	5	353	365	726	726	-	-	909	909	-	-
180 LY2	20	300	250 _{j6}	350	18.5	5	353	365	-	726	726	-	-	909	909	-
180 LY3/Y	20	300	250 _{j6}	350	18.5	5	353	365	-	776	726	726	-	959	909	909
200 L	20	350	300 _{h6}	400	18.5	5	393	381	789	789	789	789	983	983	983	983
K82R...Y2/Y3/Y																
Type	Mounting flange			P	S _{H17}	T	AC	AD	L				LC			
	LA	M	N _{h6}						Pole number				Pole number			
K82R...Y2/Y3/Y									2	4	6	8	2	4	6	8
225 S	22	400	350	450	18.5	5	455	409	-	937	-	888	-	1175	-	1175
225 M	22	400	350	450	18.5	5	455	409	907	937	888	888	1145	1175	1175	1175
250 M	18	500	450	550	18.5	5	493	471	1000	1000	934	934	1250	1250	1250	1250
280 S	18	500	450	550	18.5	5	548	511	1109	1109	1109	1109	1375	1375	1375	1375
280 M	18	500	450	550	18.5	5	548	511	1109	1109	1109	1109	1375	1375	1375	1375
315 S	22	600	550	660	24	6	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 M	22	600	550	660	24	6	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 L1	22	600	550	660	24	6	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 L2	22	600	550	660	24	6	635	582	1468	1498	1418	1498	1743	1773	1773	1773
315 L3	22	600	550	660	24	6	635	582	1468	1498	1418	1498	1743	1773	1773	1773
335 M	25	740	680	800	24	6	725	729	-	-	1597	1597	-	-	1980	1980
K82R ... XY2/XY3/XY****																
250 S	22	500	450	550	18.5	5	493	481	1000	1000	934	934	1250	1250	1184	1184
250 M	22	500	450	550	18.5	5	548	476	1109	1109	1109	1109	1375	1375	1375	1375
280 S	22	500	450	550	18.5	5	548	522	1109	1109	1109	1109	1375	1375	1375	1375
280 M	22	500	450	550	18.5	5	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 S	22	600	550	660	24	6	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 M	22	600	550	660	24	6	635	582	1268	1298	1218	1218	1543	1573	1573	1573
315 L1	22	600	550	660	24	6	635	582	1468	1498	1218	1298	1743	1773	1773	1773
315 L2	22	600	550	660	24	6	635	582	1468	1498	1418	1498	1743	1773	1773	1773

¹⁾ Type of construction IM V5 with protective canopy

²⁾ For type 250 to 315-4, 6, 8: Specifications for 2 poles apply for dimensions DA, EA, GC, FA, DC.



Type	LD	LE Pole number			0	Shaft end D, DA			E, EA	GA, GC	F, FA	DB, DC
IE-K82R...		2	4	6, 8								
80 M	127	25	25	25	2 x M25 x 1.5	19 _{j6}			40	21.5	6	M6
90 S+L	139	25	25	25	2 x M25 x 1.5	24 _{j6}			50	27	8	M8
100 L	154	30	30	30	2 x M32 x 1.5	28 _{j6}			60	31	8	M10
112 M	189	30	30	30	2 x M32 x 1.5	28 _{j6}			60	31	8	M10
132 S+M	226	30	30	30	2 x M32 x 1.5	38 _{k6}			80	41	10	M12

K82R...Y2/Y3/Y

160 M+L	261	66	66	66	2 x M40 x 1.5	42 _{k6}			110	45	12	M16
180 M+L	369	66	66	-	2 x M40 x 1.5	48 _{k6}			110	51.5	14	M16
200 L	390	77	77	77	2 x M50 x 1.5	55 _{m6}			110	59	16	M20

Type	LD					Shaft end			E. EA ²⁾			GA. GC ²⁾			F. FA ²⁾			DB. DC ²⁾	
K82R... Y2/Y3/Y	LD 2		Pole number 2 4 6, 8			0	D _{m6} ²⁾	DA _{m6} ²⁾		2	4.6. 8	2	4	6. 8	2	4.6. 8	2	4.6. 8	
225 S	-	377	-	87	87	2 x M50 x 1.5	-	60	60	-	140	-	64	64	-	18	-	M20	
225 M	347	377	87	87	87	2 x M50 x 1.5	55	60	60	110	140	59	64	64	16	18	M20	M20	
250 M	482	482	94	94	94	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20	
280 S	483	483	110	110	110	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20	
280 M	483	483	110	110	110	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20	
315 S	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20	
315 M	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20	
315 L1	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20	
315 L2	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20	
315 L3	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20	
355 M	-	702	130	130	130	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24	

K82R ... XY2/XY3/XY

250 S	482	482	94	94	94	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20
250 M	483	483	110	110	110	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20
280 S	483	483	110	110	110	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
280 M	496	526	115	115	115	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
315 S	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 M	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L1	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L2	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20

For pole-switching motors (4/2, 6/4 and 8/4), the 4-pole shaft end is used.

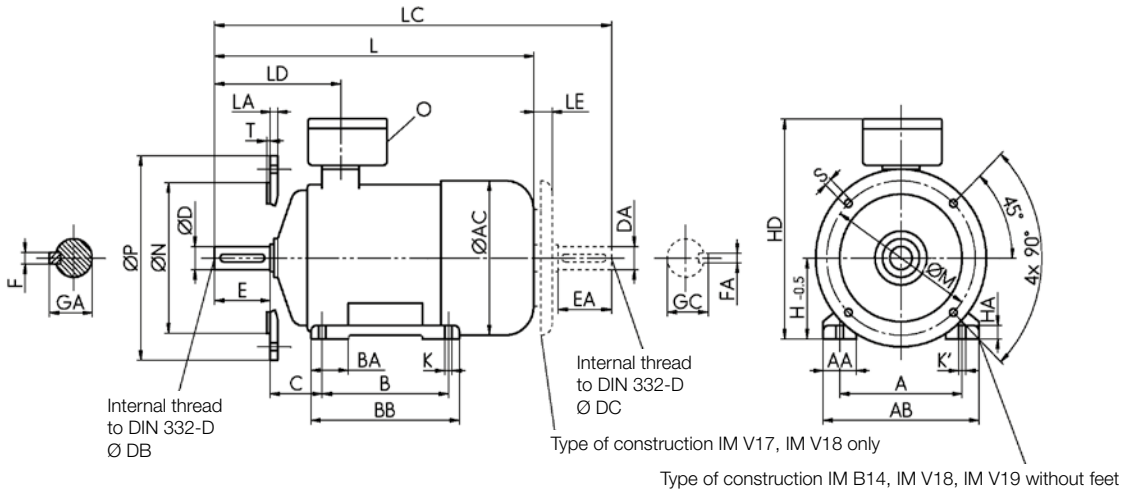
Exception: Motors in sizes 355, 400 and 450 with pole-switching configuration 4/2.

In this case, the 2-pole shaft end is used. The length dimension L corresponds to 4-pole motors for all sizes.

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“), High- and Premium Efficiency IE2, IE3

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B5, IM V1¹⁾, IM V3



Type	A	AA	AB	AC	B	BA	BB	BC	C	H _{-0.5}	HA	HD	K _{H17}
IE.-K82R...													
80 M	125	35	160	158	100	37	130	15	50	80	12	271	Ø 10
90 S	140	38	180	178	100	44	130	15	56	90	12	295	Ø 10
90 L	140	40	180	183	125	44	155	15	56	90	12	295	Ø 10
100 L	160	42	200	198	140	46	175	17.5	63	100	15	311	Ø 12
112 M	190	45	235	218	140	46	175	17.5	70	112	17	337	Ø 12
132 S	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12
132 S1	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12
132 S2	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12
132 M	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12
132 M1	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12
132 M2	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12

Type	L Pole number				LC Pole number				LE	LD	0
IE.-K82R...	2	4	6	8	2	4	6	8			
80 M	343	343	-	-	417	417	-	-	25	127	2 x M25 x 1.5
90 S+L	398	398	398	-	479	479	479	-	25	139	2 x M25 x 1.5
100 L	419	419	419	419	515	515	515	515	30	154	2 x M32 x 1.5
112 M	517	517	517	517	608	608	608	608	30	189	2 x M32 x 1.5
132 S	-	529	529	529	-	645	645	645	30	226	2 x M32 x 1.5
132 S1	529	-	-	-	645	-	-	-	30	226	2 x M32 x 1.5
132 S2	579	-	-	-	652	-	-	-	30	226	2 x M32 x 1.5
132 M	-	579	-	579	-	652	-	645	30	226	2 x M32 x 1.5
132 M1	-	-	529	-	-	-	645	-	30	226	2 x M32 x 1.5
132 M2	-	-	579	-	-	-	652	-	30	226	2 x M32 x 1.5

Type	Mounting flange										
	D, DA	E, EA	GA, GC	F, FA	DA, DC	LA	M	N _{j6}	P	S	T
IE.-K82R...											
80 M	19 _{j6}	40	21.5	6	M6	10	100	80	120	M6	3
90 S+L	24 _{j6}	50	27	8	M8	10	115	95	140	M8	3
100 L	28 _{j6}	60	31	8	M10	12	130	110	160	M8	3.5
112 M	28 _{j6}	60	31	8	M10	12	130	110	160	M8	3.5
132 S+M	38 _{k6}	80	41	10	M12	12	165	130	200	M10	3.5

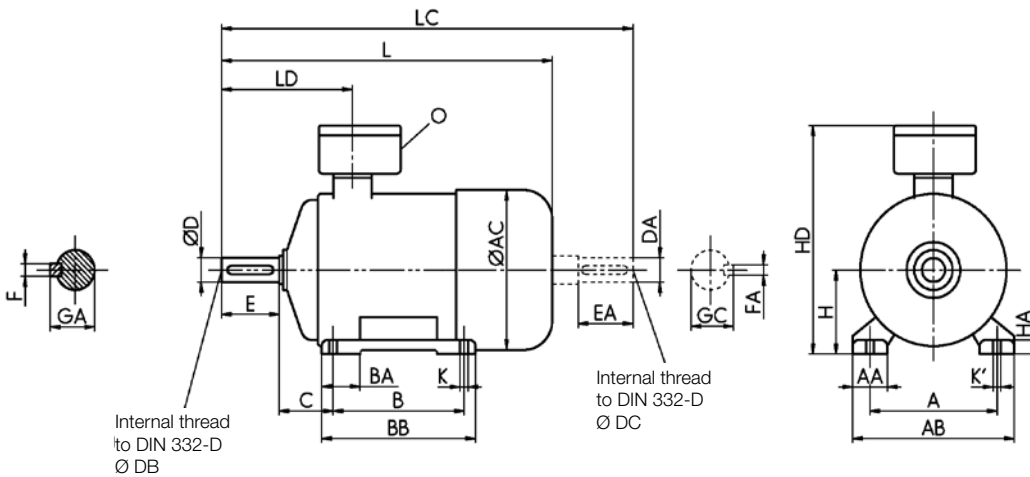
Mounting flange according to EN 50347, form FT.
Lifting eye bolts from size 90.
Dimension AC measured over screw head.
Dimension HD refers to terminal space Ex "e".
Terminal space can be rotated by 4 x 90°.

¹⁾ Protective canopy required for type of construction IM V17 and IM V18
²⁾ For pole-switching motors (4/2, 6/4 and 8/4), the 4-pole shaft end is used.
Exception: Motors in sizes 355, 400 and 450 with pole-switching configuration 4/2.
In this case, the 2-pole shaft end is used. The length dimension L corresponds to 4-pole motors for all sizes.

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“), Standard Efficiency IE1

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B3, IM B6, IM B7, IM B8, IM V5¹⁾, IM V6



Type	A	AA	AB	AC	B	BA	BB	BC	C	H _{-0.5}	HA	HD	K _{H17}	K' _{H17}	L	Pole number			
K82R...																2	4	6	8
63 M	100	20	120	134	80	25	100	10	40	63	6	227	Ø 7	-	239	239	239	239	
71 M	112	30	139	145	90	25	110	10	45	71	10	235	Ø 7	-	278	278	278	278	
80 M	125	35	160	163	100	35	130	15	50	80	12	260	Ø 10	-	313	313	313	313	
90 S	140	40	180	183	100	40	130	15	56	90	12	275	Ø 10	-	364	364	364	364	
90 L	140	40	180	183	125	40	155	15	56	90	12	275	Ø 10	-	364	364	364	364	
100 L	160	45	200	201	140	45	175	17.5	63	100	15	305	Ø 12	-	415	415	415	415	
112 M	190	50	235	225	140	50	175	17.5	70	112	17	317	Ø 12	-	425	425	425	425	
132 S	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12	-	529	529	529	529	
132 M	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12	-	-	529	529	529	
160 M	254	65	310	318	210	100	300	23	108	160	25	477	15	20	713	676	676	676	
160 L	254	65	310	318	254	100	300	23	108	160	25	477	15	20	713	676	676	676	
180 M	279	75	350	353	241	100	340	30	121	180	25	545	15	20	726	726	-	-	
180 L	279	75	350	353	279	100	340	30	121	180	25	545	15	20	-	726	726	726	
200 L	318	80	390	393	305	90	365	30	133	200	30	581	20	26	789	789	789	789	

Type	A	AA	AB	AC	B	BA	BB	BC	C	H _{-0.5}	HA	HD	K _{H17}	K' _{H17}	L	Pole number			
K82R...																2	4	6	8
225 S	356	85	450	455	286	90	370	29.5	149	225 _{-0.5}	35	634	20	26	-	937	-	888	
225 M	356	85	450	455	311	90	370	29.5	149	225 _{-0.5}	35	634	20	26	907	937	888	888	
250 M	406	105	510	493	349	110	420	35.5	168	250 _{-0.5}	40	731	26	35	1000	1000	934	934	
280 S	457	110	570	548	368	120	500	40.5	190	280 ₋₁	45	802	26	35	1109	1109	1109	1109	
280 M	457	110	570	548	419	120	500	40.5	190	280 ₋₁	45	802	26	35	1109	1109	1109	1109	
315 S	508	150	630	635	406	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218	
315 M	508	150	630	635	457	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218	
315 L1	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1268	1298	1218	1218	
315 L2	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1418	1498	
315 L3	508	150	630	635	508	210	615	53	216	315 ₋₁	40	897	39	30	1468	1498	1418	1498	
355 M	610	180	720	725	560	220	720	45	254	355 ₋₁	50	1084	30	39	-	-	1597	1597	
355 L1	610	180	720	725	630	220	720	45	254	355 ₋₁	50	1084	30	39	1667	1697	1597	1597	
355 L2	610	180	720	725	630	220	720	45	254	355 ₋₁	50	1084	30	39	1667	1667	1597	1597	
355 L3	610	180	720	725	630	220	720	45	254	355 ₋₁	50	1084	30	39	1747	1777	-	-	
400 M	686	130	800	810	630	150	1264	152	280	400 ₋₁	34	1146	Ø 35	-	-	1907	1907	1907	
400 L	686	130	800	810	710	150	1264	152	280	400 ₋₁	34	1146	Ø 35	-	1837	1907	1907	1907	
450 M	760	150	900	910	710	180	1135	150	280	450 ₋₁	35	1264	Ø 35	-	-	1903	1903	1903	
450 L	760	150	900	910	840	180	1135	150	280	450 ₋₁	35	1264	Ø 35	-	-	1903	1903	1903	

Size 63 in T4 non-ventilated.

Lifting eye bolts from size 90

Dimension AC measured over screw head.

Dimension HD for Ex "e", rotatable.

Applies also for series BD ...

¹⁾ Type of construction IM V5 with protective canopy.

²⁾ For type 250 to 400-4, 6, 8: Specifications for 2 poles apply for dimensions DA, EA, GC, FA, DC.

For type 450-6, 8: Specifications for 4 poles apply for dimensions EA, GC, FA, DC.

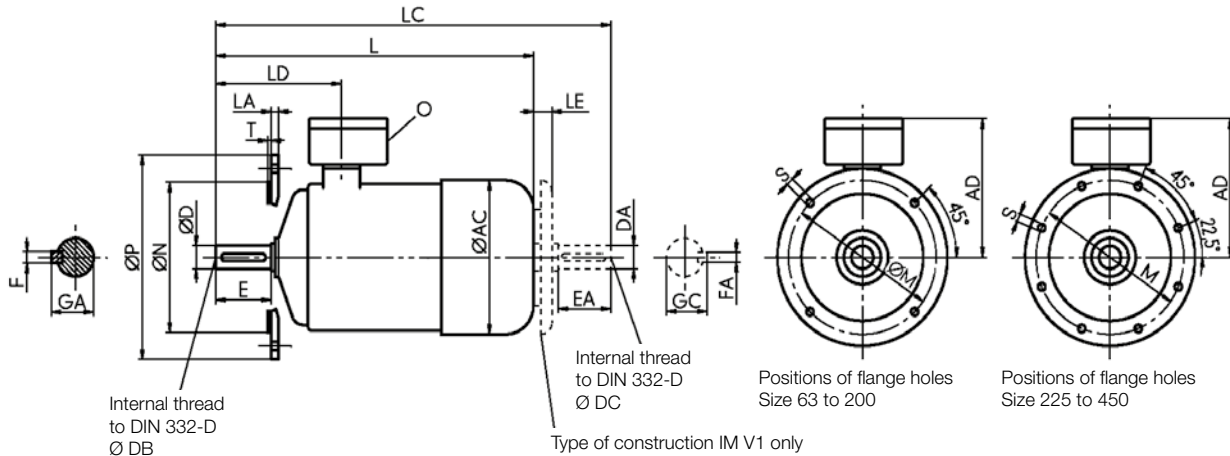
Type	LC Pole number			LD	0	Shaft end D, DA	E, EA	GA, GC	F, FA	DB, DC
K82R...	2	4	6, 8							
63 M	274	274	274	104	2 x M25 x 1.5	11 _{j6}	23	12.5	4	M4
71 M	334	334	334	111	2 x M25 x 1.5	14 _{j6}	30	16	5	M5
80 M	387	387	387	116	2 x M25 x 1.5	19 _{j6}	40	21.5	6	M6
90 S	445	445	445	137	2 x M25 x 1.5	24 _{j6}	50	27	8	M8
90 L	445	445	445	137	2 x M25 x 1.5	24 _{j6}	50	27	8	M8
100 L	510	510	510	149	2 x M32 x 1.5	28 _{j6}	60	31	8	M10
112 M	526	526	526	154	2 x M32 x 1.5	28 _{j6}	60	31	8	M10
132 S	645	645	645	226	2 x M32 x 1.5	38 _{k6}	80	41	10	M12
132 M	-	645	645	226	2 x M32 x 1.5	38 _{k6}	80	41	10	M12
160 M	864	864	864	261	2 x M40 x 1.5	42 _{k6}	110	45	12	M16
160 L	864	864	864	261	2 x M40 x 1.5	42 _{k6}	110	45	12	M16
180 M	909	909	-	369	2 x M40 x 1.5	48 _{k6}	110	51.5	14	M16
180 L	-	909	909	369	2 x M40 x 1.5	48 _{k6}	110	51.5	14	M16
200 L	983	983	983	390	2 x M50 x 1.5	55 _{m6}	110	59	16	M20

Type	LC Pole number			LD Pole number		0	Shaft end D _{m6} , DA _{m6}			E, EA ²⁾	GA, GC ²⁾			F, FA ²⁾			DB, DC	
K82R...	2	4	6, 8	2	4, 6, 8		2	4	6, 8	2	4, 6, 8	2	4	6, 8	2	4, 6, 8	2	4, 6, 8
225 S	-	1175	1175	-	377	2 x M50 x 1.5	-	60	60	-	140	-	64	64	-	18	-	M20
225 M	1145	1175	1175	347	377	2 x M50 x 1.5	55	60	60	110	140	59	64	64	16	18	M20	M20
250 M	1250	1250	1250	482	482	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20
280 S	1375	1375	1375	483	483	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
280 M	1375	1375	1375	483	483	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
315 S	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 M	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L1	1543	1573	1573	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L2	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L3	1743	1773	1773	496	526	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
355 M	-	-	1980	-	702	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
355 L1	1925	1980	1980	672	702	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
355 L2	1950	1980	1980	672	702	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
355 L3	2030	2060	-	672	702	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
400 M	-	2190	2190	-	788	2 x M95 x 2	75	100	100	140	210	79.5	106	106	20	28	M20	M24
400 L	2120	2190	2190	718	788	2 x M95 x 2	75	100	100	140	210	79.5	106	106	20	28	M20	M24
450 M	-	2280	2280	-	826	2 x M95 x 2	75	100	110	140	210	79.5	106	116	20	28	M20	M24
450 L	-	2280	2280	-	826	2 x M95 x 2	75	100	110	140	210	79.5	106	116	20	28	M20	M24

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“), Standard Efficiency IE1

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B5, IM V1¹⁾, IM V3



Type K82R...	Mounting flange			P	S _{H17}	T	AC	AD	L				LC			
	LA	M	N						Pole number				Pole number			
									2	4	6	8	2	4	6	8
63 M	9	115	95 ₆	140	10	3	134	164	239	239	239	239	274	274	274	274
71 M	9	130	110 ₆	160	10	3.5	145	164	278	278	278	278	334	334	334	334
80 M	12	165	130 ₆	200	12	3.5	163	180	313	313	313	313	387	387	387	387
90 S	12	165	130 ₆	200	12	3.5	183	185	364	364	364	364	445	445	445	445
90 L	12	165	130 ₆	200	12	3.5	183	185	364	364	364	364	445	445	445	445
100 L	16	215	180 ₆	250	14.5	4	201	205	415	415	415	415	510	510	510	510
112	16	215	180 ₆	250	14.5	4	225	205	425	425	425	425	526	526	526	526
132 S+M	16	265	230 ₆	300	14.5	4	265	279	529	529	529	529	645	645	645	645
160 M+L	20	300	250 ₆	350	18.5	5	318	317	713	676	676	676	864	864	864	864
180 M	20	300	250 ₆	350	18.5	5	353	365	726	726	-	-	909	909	-	-
180 L	20	300	250 ₆	350	18.5	5	353	365	-	726	726	726	-	909	909	909
200 L	20	350	300 ₆	400	18.5	5	393	381	789	789	789	789	983	983	983	983

Type K82R...	Mounting flange			P	S _{H17}	T	AC	AD	L				LC			
	LA	M	N _{h6}						Pole number				Pole number			
									2	4	6	8	2	4	6	8
225 S	22	400	350	450	18.5	5	455	409	-	937	-	888	-	1175	-	1175
225 M	22	400	350	450	18.5	5	455	409	907	937	888	888	1145	1175	1175	1175
250 M	18	500	450	550	18.5	5	493	471	1000	1000	934	934	1250	1250	1250	1250
280 S	18	500	450	550	18.5	5	548	511	1109	1109	1109	1109	1375	1375	1375	1375
280 M	18	500	450	550	18.5	5	548	511	1109	1109	1109	1109	1375	1375	1375	1375
315 S	22	600	550	660	24	6	635	581	1268	1298	1218	1218	1543	1573	1573	1573
315 M	22	600	550	660	24	6	635	581	1268	1298	1218	1218	1543	1573	1573	1573
315 L1	22	600	550	660	24	6	635	581	1268	1298	1218	1218	1543	1573	1573	1573
315 L2	22	600	550	660	24	6	635	581	1468	1498	1418	1498	1743	1773	1773	1773
315 L3	22	600	550	660	24	6	635	581	1468	1498	1418	1498	1743	1773	1773	1773
335 M	25	740	680	800	24	6	725	729	-	-	1597	1597	-	-	1980	1980
355 L1	25	740	680	800	24	6	725	729	1667	1697	1597	1597	1925	1980	1980	1980
355 L2	25	740	680	800	24	6	725	729	1667	1697	1597	1597	1950	1980	1980	1980
355 L3	25	740	680	800	24	6	725	729	1747	1777	-	-	2030	2060	-	-
400 M	28	940	880	1000	28	6	810	746	-	1907	1907	1907	-	2190	2190	2190
400 L	28	940	880	1000	28	6	810	746	1837	1907	1907	1907	2120	2190	2190	2190
450 M	28	940	880	1000	28	6	910	814	-	1903	1903	1903	-	2280	2280	2280
450 L	28	940	880	1000	28	6	910	814	-	1903	1903	1903	-	2280	2280	2280

Size 63 in T4 non-ventilated.

Mounting flange according to EN 50347, form FF.

Lifting eye bolts from size 90

Dimension AC measured over screw head.

Dimension HD refers to terminal space Ex "e".

Terminal space can be rotated by 4 x 90°.

Applies also for series BD ...

Size 400 to 450 only available in type of construction V1.

¹⁾ Type of construction IM V5 with protective canopy.

²⁾ For type 250 to 400-4, 6, 8: Specifications for 2 poles apply for dimensions DA, EA, GC, FA, DC.

For type 450-6, 8: Specifications for 4 poles apply for dimensions EA, GC, FA, DC.

Type K82R...	LD	LE			Shaft end				E, EA	GA, GC	F, FA	DB, DC
		Pole number			0	D, DA						
		2	4	6, 8								
63 M	104	-	-	-	2 x M25 x 1.5	11j6		23	12.5		4	M4
71 M	111	25	25	25	2 x M25 x 1.5	14j6		30	16		5	M5
80 M	116	25	25	25	2 x M25 x 1.5	19j6		40	21.5		6	M6
90 S	137	25	25	25	2 x M25 x 1.5	24j6		50	27		8	M8
90 L	137	25	25	25	2 x M25 x 1.5	24j6		50	27		8	M8
100 L	149	30	30	30	2 x M32 x 1.5	28j6		60	31		8	M10
112 M	154	30	30	30	2 x M32 x 1.5	28j6		60	31		8	M10
132 S+M	226	30	30	30	2 x M32 x 1.5	38k6		80	41		10	M12
160 M+L	261	66	66	66	2 x M40 x 1.5	42k6		110	45		12	M16
180 M	369	66	66	-	2 x M40 x 1.5	48k6		110	51.5		14	M16
180 L	369	-	66	66	2 x M40 x 1.5	48k6		110	51.5		14	M16
200 L	390	77	77	77	2 x M50 x 1.5	55m6		110	59		16	M20

Type	LD					0	Shaft end			E, EA ²⁾	GA, GC ²⁾			F, FA ²⁾	DB, DC ²⁾			
	LD			Pole number			D _{m6} ¹⁾	DA _{m6} ²⁾										
K82R...	2	4, 6, 8	2	4	6, 8		2	4	6, 8	2	4, 6, 8	2	4	6, 8	2	4, 6, 8	2	4, 6, 8
225 S	-	377	-	87	87	2 x M50 x 1.5	-	60	60	-	140	-	64	64	-	18	-	M20
225 M	347	377	87	87	87	2 x M50 x 1.5	55	60	60	110	140	59	64	64	16	18	M20	M20
250 M	482	482	94	94	94	2 x M63 x 1.5	60	65	65	140	140	64	69	69	18	18	M20	M20
280 S	483	483	110	110	110	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
280 M	483	483	110	110	110	2 x M63 x 1.5	65	75	75	140	140	69	79.5	79.5	18	20	M20	M20
315 S	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 M	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L1	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L2	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
315 L3	496	526	115	115	115	2 x M63 x 1.5	65	80	80	140	170	69	85	85	18	22	M20	M20
355 M	-	702	130	130	130	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
355 L1	672	702	130	130	130	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
355 L2	672	702	130	130	130	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
355 L3	672	702	130	130	130	2 x M80 x 2	75	90	90	140	170	79.5	95	95	20	25	M20	M24
400 M	-	788	130	130	130	2 x M95 x 2	75	100	100	140	210	79.5	106	106	20	28	M20	M24
400 L	718	788	130	130	130	2 x M95 x 2	75	100	100	140	210	79.5	106	106	20	28	M20	M24
450 M	704	826	130	130	130	2 x M95 x 2	75	100	110	140	210	79.5	106	116	20	28	M20	M24
450 L	704	826	130	130	130	2 x M95 x 2	75	100	110	140	210	79.5	106	116	20	28	M20	M24

For pole-switching motors (4/2, 6/4 and 8/4), the 4-pole shaft end is used.

Exception: Motors in sizes 355, 400 and 450 with pole-switching configuration 4/2.

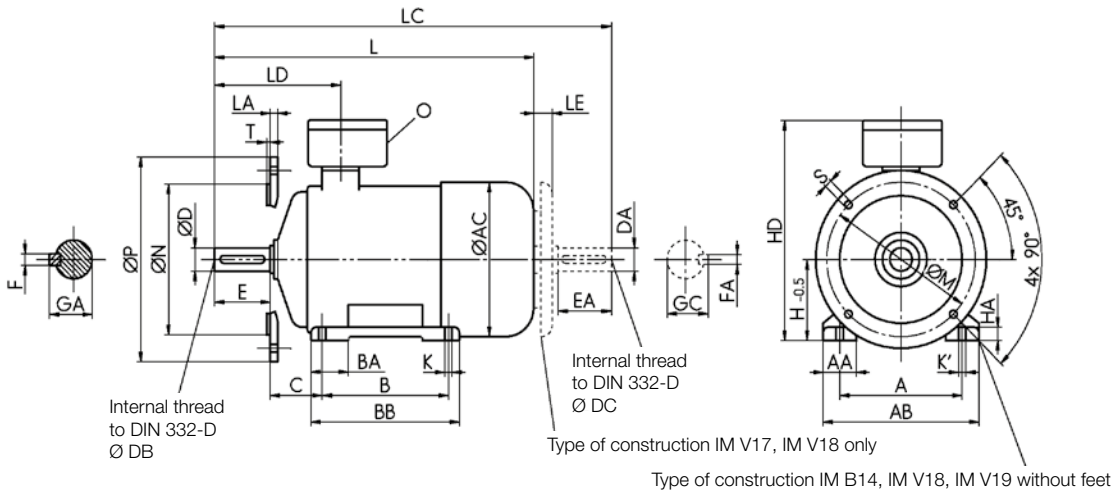
In this case, the 2-pole shaft end is used.

The length dimension L corresponds to 4-pole motors for all sizes.

Three-phase motors with squirrel-cage rotor for operation in Zone 1 according to EN 60079-1 Type of explosion protection – Flameproof enclosure „d/de“ („db/db eb“), Standard Efficiency IE1

with surface cooling with radial fan, type of cooling IC 411

Type of construction IM B14, IM B34; IM V17¹⁾, IM V18¹⁾, IM V19, IM V37



Type IE-K82R...	A	AA	AB	AC	B	BA	BB	BC	C	H _{-0.5}	HA	HD	K _{H17}
63 M	100	20	120	134	80	25	100	10	40	63	6	227	Ø 7
71 M	112	30	139	145	90	25	110	10	45	71	10	235	Ø 7
80 M	125	35	160	163	100	35	130	15	50	80	12	260	Ø 10
90 S	140	40	180	183	100	40	130	15	56	90	12	275	Ø 10
90 L	140	40	180	183	125	40	155	15	56	90	12	275	Ø 10
100 L	160	45	200	201	140	45	175	17.5	63	100	15	305	Ø 12
112 M	190	50	235	225	140	50	175	17.5	70	112	17	317	Ø 12
132 S	216	60	266	265	140	60	187	23.5	89	132	20	411	Ø 12
132 M	216	60	266	265	178	60	225	23.5	89	132	20	411	Ø 12

Type K82R...	L	LC	LE	LD	O	Shaft end D, DA	E, EA	GA, GC	F, FA	DB, DC
63 M	239	274	---	104	2 x M25 x 1.5	11 _{j6}	23	12.5	4	M4
71 M	278	334	25	111	2 x M25 x 1.5	14 _{j6}	30	16	5	M5
80 M	313	387	25	116	2 x M25 x 1.5	19 _{j6}	40	21.5	6	M6
90 S+L	364	445	25	137	2 x M25 x 1.5	24 _{j6}	50	27	8	M8
100 L	415	510	30	149	2 x M32 x 1.5	28 _{j6}	60	31	8	M10
112 M	425	526	30	154	2 x M32 x 1.5	28 _{j6}	60	31	8	M10
132 S+M	529	645	30	226	2 x M32 x 1.5	38 _{j6}	80	41	10	M12

Type K82R...	Mounting flange LA	M	N _{j6}	P	S	T
63 M	8	75	60	90	M5	2.5
71 M	8	85	70	105	M6	2.5
80 M	10	100	80	120	M6	3
90 S+L	10	115	95	140	M8	3
100 L	12	130	110	160	M8	3.5
112 M	12	130	110	160	M8	3.5
132 S+M	12	165	130	200	M10	3.5

Size 63 in T4 non-ventilated.

Mounting flange according to EN 50347, form FT.

Lifting eye bolts from size 90

Dimension AC measured over screw head.

Dimension HD refers to terminal space Ex "e".

Terminal space can be rotated by 4 x 90°.

Applies also for series BD ...

¹⁾ Protective canopy required for type of construction IM V17 and IM V18

²⁾ For pole-switching motors (4/2, 6/4 and 8/4), the 4-pole shaft end is used.

Exception: Motors in sizes 355, 400 and 450 with pole-switching configuration 4/2.

In this case, the 2-pole shaft end is used. The length dimension L corresponds to 4-pole motors for all sizes.

Overview of technical data

The most important technical data are summarised in the following table.
Further information can be taken from the catalogue section "Introduction" (Chapter 1).

Product group	Squirrel-cage rotor, IEC/DIN
Explosion protection type	Explosion protection type "n" (Increased safety "ec") / Protection by enclosure "tb", "tc"
Rated output	Ex nA (Ex ec)/(IE.) – KPR/KPER/K..R/W..R, 0.06 to 650 kW Zone 21/22/(IE.) – KPR/KPER/K..R/W..R, 0.06 to 650 kW
Sizes	Ex nA(Ex ec)/(IE.) – KPR/KPER/K..R/W..R, 56 to 400 Zone 21/22/(IE.) – KPR/KPER/K..R/W..R, 56 to 400
Housing material	Grey cast iron
Rated torque	0.4 Nm to 5770 Nm
Efficiency classification/ efficiency determination	IEC/EN 60034-30-1 / IEC/EN 60034-2-1, ≤ 1 kW direct measurement, > 1 kW residual loss method
Method of connection	Single-speed motors are designed in star-delta configuration as standard.
Stator winding insulation	Thermal class 155, optional 155 [F(B)], 180 to IEC/EN 60034-1
Degree of protection	IP 55, optimally IP 56 or higher to IEC/EN 60034-5
Type of cooling	IC 411, IC 416, IC 71W (IC 31W) to IEC/EN 60034-6
Coolant temperature/ installation altitude	Standard -20 °C to +40 °C, max. +55 °C Deviating coolant temperatures upon request Altitude 1000 m above sea level
Rated voltage	Standard voltages to EN 60038 50 Hz: 230 V, 400 V, 500 V, 690 V, 60 Hz: 275 V, 460 V, 480 V, 600 V
Duty types	Continuous duty S1, converter-fed operation S9
Types of construction	IM B3, IM B35, IM B5 and derived types to IEC/EN 60034-7
Paint finish	Normal finish "Moderate", colour RAL 7031, blue-grey Special finish "Worldwide", colour RAL 7031, blue-grey
Vibration severity grade	Grade "A" as standard for machines with no special vibration requirements
Shaft ends	to DIN 748 (IEC 60072), balanced with half-key
Limit speeds	Please refer to the section of "Limit speeds" in catalogue section "Motors for converter-fed operation", Chapter 4.
Bearing design	Please refer to the tables of bearing design data in catalogue section "Standard motors", Chapter 2.
Motor mass	Please refer to the technical selection lists.
Terminal boxes	Please refer to the section "Terminal boxes".
Documentation	An operating and maintenance manual, a terminal plan and a safety data sheet are supplied with each motor.
Tolerances	Please refer to the section "Tolerances" in catalogue section "Introduction", Chapter 1.
Options	Please refer to the section "Overview of modifications" in catalogue section "Introduction", Chapter 1.

Motor selection data

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3

II 3G Ex nA IIC T3 Gc

Type of explosion protection „n“ (Increased safety „ec“)

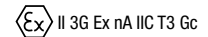
for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version															
IE3-KPER 90 S2 Ex II 3G Ex nA II T3	1.5	4.94	2900	IE3- 84.2	85.4	83.2	0.81	3.12	7.9	3.5	3.5	4.4	IBExU06ATEXB002	0.0017	19
IE3-KPR 90 S2 Ex II 3G Ex nA II T3	1.5	4.92	2910	IE3- 84.2	86.6	84.5	0.86	2.9	9.1	3.0	2.7	3.7	IBExU06ATEXB001	0.00275	23.5
IE3-KPR 90 LY2 Ex II 3G Ex nA II T3	2.2	7.3	2880	IE3- 85.9	85.7	83.9	0.88	4.25	8.0	2.5	2.3	2.9	IBExU06ATEXB001	0.00275	23.5
IE3-KPR 90 L2 Ex II 3G Ex nA II T3	2.2	7.23	2905	IE3- 85.9	87.7	86.0	0.89	4.05	8.6	2.7	2.3	3.7	IBExU06ATEXB001	0.00333	29
IE3-KPR 100 LY2 Ex II 3G Ex nA II T3	3	9.81	2920	IE3- 87.1	88.0	86.3	0.82	6	7.7	2.3	2.2	3.5	IBExU06ATEXB001	0.0045	31
IE3-KPR 100 L2 Ex II 3G Ex nA II T3	3	9.78	2930	IE3- 87.1	88.2	87.5	0.85	5.8	9.1	2.3	2.0	3.6	IBExU06ATEXB001	0.0055	38
IE3-KPER 112 MY2 Ex II 3G Ex nA II T3	4	13.1	2920	IE3- 88.1	87.5	86.9	0.84	7.9	8.3	2.3	2.1	3.3	IBExU06ATEXB002	0.0055	38
IE3-KPER 112 MV2 Ex II 3G Ex nA II T3	4	13	2930	IE3- 88.1	89.3	88.1	0.85	7.6	9.0	2.7	2.4	3.7	IBExU06ATEXB002	0.0068	46
IE3-KPER 112 MX2 Ex II 3G Ex nA II T3	5.5	17.96	2925	IE3- 89.2	89.4	87.7	0.8	11.1	8.3	2.6	2.5	3.8	IBExU06ATEXB002	0.0068	46
IE3-KPER 132 S2T Ex II 3G Ex nA II T3	5.5	18	2925	IE3- 89.2	89.4	87.7	0.8	11.1	8.3	2.6	2.5	3.8	IBExU06ATEXB002	0.0068	48
IE3-W41R 112 M2 Ex nA IIC T3	4	13.0	2930	IE3- 89.2	89.2	87.9	0.87	7.4	6.9	1.5	1.2	2.9	IBExU03ATEXB004	0.011	60
IE3-W41R 132 S2 Ex nA IIC T3	5.5	18.0	2930	IE3- 89.2	88.6	87.0	0.84	10.5	7.7	1.9	1.3	3.5	IBExU03ATEXB004	0.011	65
IE3-W41R 132 SX2 Ex nA IIC T3	7.5	24.0	2925	IE3- 90.1	89.4	87.9	0.87	14.0	8.0	2.5	2.1	3.3	IBExU03ATEXB004	0.0168	75
IE3-W41R 160 M2 Ex nA IIC T3	11	36.0	2950	IE3- 91.4	91.7	90.5	0.90	19.5	8.0	2.2	1.8	3.2	IBExU03ATEXB004	0.0575	125
IE3-W41R 160 MX2 Ex nA IIC T3	15	49.0	2950	IE3- 91.9	92.0	91.3	0.91	26.0	7.9	2.2	1.7	3.1	IBExU03ATEXB004	0.0675	145
IE3-W41R 160 L2 Ex nA IIC T3	18.5	60.0	2960	IE3- 92.4	92.5	91.4	0.90	32.0	9.2	2.6	2.1	3.6	IBExU03ATEXB004	0.078	160
IE3-W41R 180 M2C Ex nA IIC T3	22	71	2975	IE3- 92.7	92.6	91.5	0.91	37.5	8.9	1.9	1.4	3.3	IBExU03ATEXB004	0.1717	214
IE3-W41R 200 L2 Ex nA IIC T3	30	97	2965	IE3- 93.3	92.2	90.6	0.88	52.5	8.6	2.1	1.6	3.3	IBExU03ATEXB004	0.36	305
IE3-W41R 200 LX2C Ex nA IIC T3	37	119	2980	IE3- 93.7	92.9	91.7	0.89	64.0	8.7	1.7	1.3	3.2	IBExU03ATEXB004	0.4757	310
IE3-W41R 225 M2 Ex nA IIC T3	45	145	2960	IE3- 94.0	93.7	93.0	0.89	77.5	8.8	2.3	1.9	3.2	IBExU03ATEXB004	0.375	375
IE3-W41R 250 M2 Ex nA IIC T3	55	177	2970	IE3- 94.6	94.4	93.6	0.91	92	8.9	2.2	1.9	3.2	IBExU03ATEXB004	0.65	510
IE3-W41R 280 S2 Ex nA IIC T3	75	241	2967	IE3- 94.7	94.5	93.9	0.89	128	8.1	1.9	1.9	2.8	IBExU03ATEXB004	0.65	500
IE3-W41R 280 M2 Ex nA IIC T3	90	289	2970	IE3- 95.0	94.5	94.0	0.90	152	8.4	2.2		3.1	IBExU03ATEXB004	0.675	545
IE3-W41R 315 S2 Ex nA IIC T3	110	354	2970	IE3- 95.2	94.5	93.5	0.89	187	10.0	1.9	1.7	3.0	IBExU03ATEXB004	1.21	750
IE3-W41R 315 M2 Ex nA IIC T3	132	423	2980	IE3- 95.4	95.0	94.5	0.89	224	10.0	2.0	1.8	3.0	IBExU03ATEXB004	1.44	815
IE3-W41R 315 MX2 Ex nA IIC T3	160	513	2980	IE3- 95.7	95.7	95.0	0.9	268	8.5	2.3	1.7	2.6	IBExU03ATEXB004	2.37	1095
IE3-W41R 315 MY2 Ex nA IIC T3	200	641	2980	IE3- 95.8	95.9	95.5	0.91	331	8.3	2.6	1.6	2.4	IBExU03ATEXB004	2.82	1200
IE3-W41R 315 L2 Ex nA IIC T3	250	800	2985	IE3- 96.0	96.0	95.9	0.92	409	8.4	2.5	1.4	2.3	IBExU03ATEXB004	3.66	1460
IE3-W41R 315 LX2 Ex nA IIC T3	315	1008	2985	IE3- 95.8	95.8	95.8	0.92	516	8.5	2.8	1.6	2.5	IBExU03ATEXB004	4.43	1700
IE3-W41R 355 M2G Ex nA IIC T3	355	1136	2985	IE3- 96.0	96.0	96.0	0.92	580	7.7	1.9	1.5	3.8	IBExU03ATEXB004	4.20	2000
IE3-W42R 355 MX2G Ex nA IIC T3	400	1278	2990	IE3- 95.8	95.8	95.3	0.91	665	8.5	1.5	1.2	2.5	IBExU03ATEXB004	5.50	2200
IE3-W42R 355 L2G Ex nA IIC T3	500	1597	2990	IE3- 95.8	95.8	95.3	0.90	840	9.0	2.0	1.3	3.0		7.10	2445
IE3-W42R 400 M2G Ex nA IIC T3	530	1690	2990	IE3- 95.8	95.4	95.0	0.84	950	8.5	1.7	1.1	2.2		8.44	3060
IE3-W42R 400 MX2G Ex nA IIC T3	570	1820	2990	IE3- 95.8	95.8	95.3	0.90	955	8.1	2.0	1.4	2.2		9.41	3200
IE3-W42R 400 L2G Ex nA IIC T3	650	2075	2990	IE3- 96.1	96.0	95.4	0.90	1085	8.1	2.2	1.2	2.4		10.41	3400

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3
Type of explosion protection „n“ (Increased safety „ec“)
for operation in Zone 2 according to EN 60079-15 (EN 60079-7)



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version															
IE3-KPER 63 K4 Ex II 3G Ex nA II T3	0.12	0.84	1365	IE3- 64.8	64.5	59.7	0.72	0.37	3.2	1.9	1.8	2.2	IBExU06ATEXB002	0.00024	5.2
IE3-KPR 63 G4 Ex II 3G Ex nA II T3	0.18	1.21	1415	IE3- 69.9	67.2	61.2	0.67	0.55	4.4	1.8	1.8	2.7	IBExU06ATEXB001	0.0005	7.1
IE3-KPER 71 K4 Ex II 3G Ex nA II T3	0.25	1.71	1395	IE3- 73.5	71.2	66.7	0.7	0.72	3.9	2.1	2.1	2.5	IBExU06ATEXB002	0.0005	7.8
IE3-KPR 71 K4 Ex II 3G Ex nA II T3	0.25	1.67	1430	IE3- 73.5	73.1	69.6	0.71	0.66	5.6	2.5	2.3	2.9	IBExU06ATEXB001	0.00087	9.9
IE3-KPR 71 GY4 Ex II 3G Ex nA II T3	0.37	2.48	1425	IE3- 77.3	76.8	73.0	0.69	1	4.9	2.4	2.4	3.0	IBExU06ATEXB001	0.00087	9.9
IE3-KPR 71 G4 Ex II 3G Ex nA II T3	0.37	2.47	1430	IE3- 77.3	78.2	73.1	0.69	0.98	6.2	2.8	2.6	3.2	IBExU06ATEXB001	0.00107	11
IE3-KPR 80 K4 Ex II 3G Ex nA II T3	0.55	3.67	1430	IE3- 80.8	81.0	80.1	0.8	1.25	6.0	2.4	2.3	2.7	IBExU06ATEXB001	0.00207	14.5
IE3-KPR 80 G4 Ex II 3G Ex nA II T3	0.75	4.96	1445	IE3- 82.5	82.3	79.6	0.77	1.7	7.0	3.1	3.1	3.7	IBExU06ATEXB001	0.0026	17
IE3-KPR 80 GX4 Ex II 3G Ex nA II T3	0.75	5.01	1430	IE3- 82.5	82.9	81.1	0.8	1.65	7.0	2.9	2.8	3.2	IBExU06ATEXB001	17.94	4600
IE3-KPR 90 SY4 Ex II 3G Ex nA II T3	1.1	7.3	1440	IE3- 84.1	82.6	79.7	0.76	2.5	6.7	2.8	2.7	3.7	IBExU06ATEXB001	0.004	22.5
IE3-KPR 90 S4 Ex II 3G Ex nA II T3	1.1	7.24	1450	IE3- 84.1	83.5	80.0	0.74	2.55	8.0	3.6	3.5	4.2	IBExU06ATEXB001	0.0045	28
IE3-KPR 90 L4 Ex II 3G Ex nA II T3	1.5	9.91	1445	IE3- 85.3	83.2	80.7	0.77	3.35	7.2	3.2	3.0	3.5	IBExU06ATEXB001	0.0045	28
IE3-KPR 90 LX4 Ex II 3G Ex nA II T3	1.5	9.85	1455	IE3- 85.3	84.0	80.6	0.75	3.4	9.5	4.5	3.8	4.9	IBExU06ATEXB001	0.0058	31
IE3-KPR 100 LY4 Ex II 3G Ex nA II T3	2.2	14.4	1455	IE3- 86.7	85.2	81.7	0.77	4.8	9.3	3.2	3.0	3.6	IBExU06ATEXB001	0.009	36
IE3-KPR 100 L4 Ex II 3G Ex nA II T3	2.2	14.49	1450	IE3- 86.7	87.0	85.1	0.81	4.55	8.2	2.9	2.7	3.8	IBExU06ATEXB001	0.011	45
IE3-KPR 100 LW4 Ex II 3G Ex nA II T3	2.2	14.4	1460	IE3- 86.7	86.4	84.3	0.76	4.75	8.6	3.8	3.7	4.5	IBExU06ATEXB001	0.013	50
IE3-KPR 100 LX4 Ex II 3G Ex nA II T3	3	19.7	1455	IE3- 87.7	86.3	84.5	0.77	6.5	9.0	3.3	3.1	3.9	IBExU06ATEXB001	0.011	45
IE3-KPR 100 LZ4 Ex II 3G Ex nA II T3	3	19.7	1455	IE3- 87.7	87.6	86.1	0.77	6.4	8.6	3.2	3.1	4.1	IBExU06ATEXB001	0.013	50
IE3-W41R 112 M4 Ex nA IIC T3	4	26	1470	IE3- 89.9	89.8	88.4	0.83	7.7	9.5	2.8	2.4	4.5	IBExU03ATEXB004	0.02	65
IE3-W41R 132 S4 Ex nA IIC T3	5.5	35	1480	IE3- 91.0	90.2	87.8	0.73	12.0	9.9	3.4	2.8	5.4	IBExU03ATEXB004	0.035	90
IE3-W41R 132 M4 Ex nA IIC T3	7.5	49	1475	IE3- 91.3	91.3	90.1	0.83	14.5	8.6	2.4	2.0	3.9	IBExU03ATEXB004	0.043	100
IE3-W41R 160 M4 Ex nA IIC T3	11	71	1475	IE3- 91.4	91.5	90.5	0.83	21.0	7.5	2.5	2.0	3.2	IBExU03ATEXB004	0.078	125
IE3-W41R 160 L4C Ex nA IIC T3	15	96	1490	IE3- 92.8	92.5	91.0	0.83	28.0	10.5	2.8	2.4	3.9	IBExU03ATEXB004	0.1567	175
IE3-W41R 180 M4 Ex nA IIC T3	18.5	120	1475	IE3- 92.7	92.9	92.0	0.84	34.5	6.9	1.9	1.7	3.0	IBExU03ATEXB004	0.168	210
IE3-W41R 180 L4 Ex nA IIC T3	22	142	1480	IE3- 93.0	93.0	92.1	0.84	40.5	7.6	2.2	2.0	3.2	IBExU03ATEXB004	0.203	240
IE3-W41R 200 L4C Ex nA IIC T3	30	193	1485	IE3- 93.6	92.4	92.4	0.85	54.5	7.0	1.6	1.4	2.6	IBExU03ATEXB004	0.411	327
IE3-W41R 225 S4C Ex nA IIC T3	37	237	1490	IE3- 93.9	93.8	93.2	0.85	67.0	7.4	1.9	1.4	2.7	IBExU03ATEXB004	0.4675	367
IE3-W41R 225 M4 Ex nA IIC T3	45	290	1482	IE3- 94.2	94.3	94.0	0.82	84	8.1	2.6	2.1	2.6	IBExU03ATEXB004	0.619	450
IE3-W41R 250 M4 Ex nA IIC T3	55	354	1485	IE3- 94.7	94.8	94.4	0.83	101	8.1	2.1	1.8	2.5	IBExU03ATEXB004	0.95	550
IE3-W41R 280 S4 Ex nA IIC T3	75	482	1485	IE3- 95.0	94.6	94.2	0.83	137	8.2	2.1	1.8	2.5	IBExU03ATEXB004	1.1	617
IE3-W41R 280 M4 Ex nA IIC T3	90	578	1487	IE3- 95.2	94.7	94.0	0.83	164	9.2	2.1	1.9	2.7	IBExU03ATEXB004	1.96	785
IE3-W41R 315 S4 Ex nA IIC T3	110	706	1487	IE3- 95.4	95.0	94.3	0.82	203	9.5	1.9	1.7	2.7	IBExU03ATEXB004	1.96	760
IE3-W41R 315 M4 Ex nA IIC T3	132	849	1485	IE3- 95.6	95.4	95.0	0.83	240	9.0	2.2	1.9	2.7	IBExU03ATEXB004	2.27	850
IE3-W41R 315 MX4 Ex nA IIC T3	160	1026	1490	IE3- 95.8	95.8	95.0	0.84	287	9.5	2.1	2.0	3.2	IBExU03ATEXB004	4.01	1120
IE3-W41R 315 MY4 Ex nA IIC T3	200	1282	1490	IE3- 96.0	95.8	95.5	0.87	346	9.5	2.1	1.7	2.7	IBExU03ATEXB004	4.82	1250
IE3-W41R 315 L4 Ex nA IIC T3	250	1602	1490	IE3- 96.2	96.2	96.0	0.87	431	9.4	2.2	1.8	2.7	IBExU03ATEXB004	5.93	1450
IE3-W41R 315 LX4 Ex nA IIC T3	315	2019	1490	IE3- 96.0	96.0	96.0	0.87	544	9.5	2.3	1.7	2.9	IBExU03ATEXB004	6.82	1630
IE3-W41R 355 M4 Ex nA IIC T3	355	2271	1493	IE3- 96.2	96.2	95.5	0.87	612	8.1	1.3	1.0	2.7	IBExU03ATEXB004	7.90	2150
IE3-W42R 355 MX4 Ex nA IIC T3	400	2557	1494	IE3- 96.0	96.0	95.5	0.84	719	8.0	1.7	1.4	2.4		9.50	2400
IE3-W42R 355 L4 Ex nA IIC T3	500	3205	1490	IE3- 96.0	96.0	95.5	0.84	899	7.2	1.6	1.2	2.2		10.00	2500
IE3-W42R 400 M4 Ex nA IIC T3	560	3582	1493	IE3- 96.0	96.0	95.5	0.84	1006	9.0	3.4	2.9	3.9		12.60	2900
IE3-W42R 400 MX4 Ex nA IIC T3	630	4030	1493	IE3- 96.0	96.0	95.5	0.85	1119	9.0	3.6	3.0	4.2		14.33	3100
IE3-W42R 400 L4 Ex nA IIC T3	710	4542	1493	IE3- 96.0	96.0	95.5	0.85	1261	9.0	3.9	3.1	4.2		16.29	3450

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.
 Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3 Type of explosion protection „n“ (Increased safety „ec“) for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

II 3G Ex nA IIC T3 Gc

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version															
IE3-KPR 63 G6 Ex II 3G Ex nA II T3	0.12	1.23	930	IE3- 57.7	60.0	54.0	0.56	0.5	2.8	1.9	1.8	2.1	IBExU06ATEXB001	0.00045	6.7
IE3-KPER 71 KY6 Ex II 3G Ex nA II T3	0.18	1.89	910	IE3- 63.9	62.0	56.5	0.55	0.75	2.9	1.7	1.7	2.1	IBExU06ATEXB002	0.0006	8.3
IE3-KPR 71 K6 Ex II 3G Ex nA II T3	0.18	1.85	930	IE3- 63.9	62.9	57.5	0.68	0.57	3.4	2.0	2.0	2.2	IBExU06ATEXB001	0.0013	11
IE3-KPR 71 GY6 Ex II 3G Ex nA II T3	0.25	2.54	940	IE3- 68.6	65.3	58.5	0.63	0.84	4.0	2.2	2.2	2.9	IBExU06ATEXB001	0.0013	10
IE3-KPR 71 G6 Ex II 3G Ex nA II T3	0.25	2.55	935	IE3- 68.6	66.9	62.2	0.67	0.75	3.9	2.3	2.3	2.5	IBExU06ATEXB001	0.00175	12.5
IE3-KPR 80 K6 Ex II 3G Ex nA II T3	0.37	3.72	950	IE3- 73.5	72.9	69.2	0.7	1.03	4.0	1.9	1.9	2.4	IBExU06ATEXB001	0.00325	15
IE3-KPR 80 G6 Ex II 3G Ex nA II T3	0.55	5.53	950	IE3- 77.2	75.9	72.4	0.69	1.5	4.1	2.1	2.1	2.5	IBExU06ATEXB001	0.00425	18
IE3-KPR 90 SY6 Ex II 3G Ex nA II T3	0.75	7.5	955	IE3- 78.9	78.3	75.1	0.71	1.95	4.9	2.4	2.3	2.6	IBExU06ATEXB001	0.00625	24
IE3-KPR 90 S6 Ex II 3G Ex nA II T3	0.75	7.54	950	IE3- 78.9	79.7	77.5	0.73	1.87	5.3	2.4	2.2	2.9	IBExU06ATEXB001	0.0072	30
IE3-KPR 90 L6 Ex II 3G Ex nA II T3	1.1	11	955	IE3- 81.0	81.0	78.5	0.71	2.75	5.4	2.5	2.4	2.8	IBExU06ATEXB001	0.0072	30
IE3-KPR 100 LX6 Ex II 3G Ex nA II T3	1.5	15	955	IE3- 82.5	83.5	81.5	0.76	3.45	5.9	2.3	2.2	2.8	IBExU06ATEXB001	0.0139	36
IE3-KPER 112 MV6 Ex II 3G Ex nA II T3	2.2	22	955	IE3- 84.3	83.6	80.9	0.74	5.15	5.7	2.4	2.3	2.9	IBExU06ATEXB002	0.0155	48
IE3-KPER 112 MZ6 Ex II 3G Ex nA II T3	2.2	21.88	960	IE3- 84.3	84.0	81.5	0.75	5	6.9	3.0	3.0	3.8	IBExU06ATEXB002	0.018	50
IE3-W41R 132 S6 Ex nA IIC T3	3	30.0	965	IE3- 86.3	86.7	85.6	0.82	6.1	6.2	2.0	1.3	3.1	IBExU03ATEXB004	0.029	70
IE3-W41R 132 M6 Ex nA IIC T3	4	40.0	965	IE3- 86.8	87.0	86.0	0.80	8.3	4.8	1.7	1.4	2.4	IBExU03ATEXB004	0.043	75
IE3-W41R 132 MX6 Ex nA IIC T3	5.5	54.0	970	IE3- 88.6	88.6	87.2	0.80	11.0	6.0	2.1	1.7	3.0	IBExU03ATEXB004	0.053	105
IE3-W41R 160 M6 Ex nA IIC T3	7.5	73.0	980	IE3- 90.2	90.0	88.3	0.83	14.5	6.4	2.4	2.0	3.0	IBExU03ATEXB004	0.145	145
IE3-W41R 160 L6C Ex nA IIC T3	11	107.0	985	IE3- 91.4	91.2	89.8	0.85	20.5	6.8	2.2	2	2.8	IBExU03ATEXB004	0.166	168
IE3-W41R 180 L6C Ex nA IIC T3	15	145.0	985	IE3- 91.2	91.3	90.2	0.87	27.5	6.8	2	1.7	2.7	IBExU03ATEXB004	0.3396	214
IE3-W41R 200 L6 Ex nA IIC T3	18.5	180.0	980	IE3- 91.8	91.7	90.5	0.87	33.5	7.2	2.3	2	3	IBExU03ATEXB004	0.514	310
IE3-W41R 200 LX6C Ex nA IIC T3	22	213.0	985	IE3- 92.2	91.5	90.0	0.87	39.5	7.6	2.1	1.7	2.9	IBExU03ATEXB004	0.6476	321
IE3-W41R 225 M6 Ex nA IIC T3	30	291	984	IE3- 92.9	92.2	91.0	0.84	55.5	7.2	2.7	2.2	2.9	IBExU03ATEXB004	0.92	400
IE3-W41R 250 M6 Ex nA IIC T3	37	359	985	IE3- 93.3	93.2	92.3	0.86	66.5	7.1	2.8	2.0	2.7	IBExU03ATEXB004	1.48	545
IE3-W41R 280 S6 Ex nA IIC T3	45	434	990	IE3- 93.7	93.5	91.5	0.86	80.5	8.5	2.1	1.8	2.8	IBExU03ATEXB004	2.63	695
IE3-W41R 280 M6 Ex nA IIC T3	55	531	990	IE3- 94.2	94.1	93.1	0.85	99	9.0	2.2	1.9	3.1	IBExU03ATEXB004	3.33	815
IE3-W41R 315 S6 Ex nA IIC T3	75	723	990	IE3- 94.6	94.0	93.5	0.86	133	8.2	1.8	1.4	2.3	IBExU03ATEXB004	5.55	1060
IE3-W41R 315 M6 Ex nA IIC T3	90	868	990	IE3- 94.9	94.0	93.0	0.83	165	8.5	2.2	1.7	2.8	IBExU03ATEXB004	6	1100
IE3-W41R 315 MX6 Ex nA IIC T3	110	1.061	990	IE3- 95.1	95.0	94.5	0.86	194	8.5	2.5	1.7	2.7	IBExU03ATEXB004	6.67	1210
IE3-W41R 315 L6 Ex nA IIC T3	132	1.267	995	IE3- 95.4	95.0	94.5	0.87	230	9.0	2.8	2.0	3.2	IBExU03ATEXB004	8.6	1550
IE3-W41R 355 M6 Ex nA IIC T3	160	1.536	995	IE3- 95.6	95.0	94.6	0.82	295	8.0	2.1	0.0	2.7	IBExU03ATEXB004	8.2	1850
IE3-W42R 355 MX6 Ex nA IIC	200	1919	995	IE3- 95.8	95.2	95.0	0.83	363	8.0	1.8	1.3	2.5		12.10	2200
IE3-W42R 355 L6 Ex nA IIC	250	2402	994	IE3- 95.8	95.5	95.0	0.81	468	7.0	1.8	1.3	2.3		14.00	2400
IE3-W42R 355 LX6 Ex nA IIC	315	3032	992	IE3- 95.8	95.5	95.3	0.86	554	7.4	2.5	2.0	2.7		14.00	2400
IE3-W42R 400 MY6 Ex nA IIC	355	3407	995	IE3- 95.8	95.5	94.5	0.85	632	8.0	2.0	1.6	2.6		16.54	2900
IE3-W42R 400 M6 Ex nA IIC	400	3847	993	IE3- 95.8	95.5	94.5	0.87	696	7.0	1.8	1.5	2.3		16.54	2900
IE3-W42R 400 MX6 Ex nA IIC	450	4327	993	IE3- 95.8	95.7	94.6	0.83	821	7.3	1.8	1.5	2.1		18.44	3100
IE3-W42R 400 L6 Ex nA IIC	500	4808	993	IE3- 95.8	95.6	94.5	0.83	911	7.5	1.9	1.7	2.2		20.63	3200

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3
Type of explosion protection „n“ (Increased safety „ec“)
for operation in Zone 2 according to EN 60079-15 (EN 60079-7)



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data														Design point 400 V, 50 Hz	
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-		kgm ²	kg
				100 %	75 %	50 %	-	A	-	-	-	-			
Synchronous speed 750 rpm – 8-pole version															
IE3-KPR 71 G8 Ex II 3G Ex nA II T3	0.12	1.67	685	IE3- 50.7	48.8	43.0	0.64	0.48	2.6	1.7	1.7	2.0	IBExU06ATEXB001	0.0013	9.9
IE3-KPER 80 K8 Ex II 3G Ex nA II T3	0.18	2.53	680	IE3- 58.7	56.3	49.8	0.61	0.73	2.6	1.6	1.6	2.0	IBExU06ATEXB002	0.00175	12
IE3-KPR 80 G8 Ex II 3G Ex nA II T3	0.25	3.39	705	IE3- 64.1	64.3	58.4	0.59	0.93	3.0	1.4	1.4	2.1	IBExU06ATEXB001	0.003	14
IE3-KPER 90 SY8 Ex II 3G Ex nA II T3	0.37	5.01	705	IE3- 69.3	67.0	61.2	0.56	1.39	3.1	1.6	1.6	2.2	IBExU06ATEXB002	0.00375	18.5
IE3-KPR 90 S8 Ex II 3G Ex nA II T3	0.37	4.98	710	IE3- 69.3	69.0	64.4	0.63	1.2	3.6	2.1	2.1	2.3	IBExU06ATEXB001	0.00625	25
IE3-KPR 90 L8 Ex II 3G Ex nA II T3	0.55	7.5	700	IE3- 73.0	70.6	66.3	0.64	1.72	3.6	1.8	1.8	2.3	IBExU06ATEXB001	0.0072	26
IE3-KPR 100 LY8 Ex II 3G Ex nA II T3	0.75	10.1	710	IE3- 75.0	74.1	70.0	0.64	2.21	4.2	2.0	2.0	2.7	IBExU06ATEXB001	0.009	28
IE3-KPR 100 L8 Ex II 3G Ex nA II T3	0.75	10	715	IE3- 75.0	75.9	71.3	0.63	2.25	4.4	2.5	2.5	2.8	IBExU06ATEXB001	0.0123	33.5
IE3-KPR 100 LW8 Ex II 3G Ex nA II T3	1.1	***	***	IE3- 77.7	***	***	***	***	***	***	***	***	IBExU06ATEXB001	***	***
IE3-KPR 100 LX8 Ex II 3G Ex nA II T3	1.1	14.8	710	IE3- 77.7	77.5	73.7	0.63	3.2	4.2	1.9	1.8	2.5	IBExU06ATEXB001	0.0139	36
IE3-KPER 112 M8 Ex II 3G Ex nA II T3	1.5	20.46	700	IE3- 79.7	78.7	76.0	0.65	4.25	3.8	1.6	1.5	2.1	IBExU06ATEXB002	0.0155	48
IE3-KPER 112 MZ8 Ex II 3G Ex nA II T3	1.5	20.3	705	IE3- 79.7	78.8	75.8	0.66	4.15	4.7	2.7	2.7	3.2	IBExU06ATEXB002	0.018	50
IE3-W41R 132 S8 Ex nA IIC T3	2.2	29	725	IE3- 84.4	84.5	82.4	0.7	5.4	4.1	1.6	1.5	2.3	IBExU03ATEXB004	0.043	80
IE3-W41R 132 M8 Ex nA IIC T3	3	40	720	IE3- 83.5	83.5	81.4	0.72	7	3.9	1.6	1.4	2.1	IBExU03ATEXB004	0.043	74
IE3-W41R 160 M8 Ex nA IIC T3	4	52	735	IE3- 87	86.7	83.8	0.71	9.4	5.4	2.5	2.2	2.9	IBExU03ATEXB004	0.113	119
IE3-W41R 160 MX8 Ex nA IIC T3	5.5	72	730	IE3- 87.5	87.5	85.6	0.73	12.5	4.7	1.9	1.7	2.5	IBExU03ATEXB004	0.145	143
IE3-W41R 160 L8 Ex nA IIC T3	7.5	98	733	IE3- 87.9	87.6	85.6	0.73	17	5.1	2.1	1.8	2.7	IBExU03ATEXB004	0.166	155
IE3-W41R 180 L8 Ex nA IIC T3	11	145	725	IE3- 89.3	89	87.1	0.75	23.5	5.4	2.1	1.9	2.8	IBExU03ATEXB004	0.228	175
IE3-W41R 200 L8 Ex nA IIC T3	15	196	730	IE3- 89.6	90	89	0.80	30	5.3	1.8	1.7	2.5	IBExU03ATEXB004	0.324	235
IE3-W41R 225 S8 Ex nA IIC T3	18.5	240	735	IE3- 90.1									IBExU03ATEXB004	0.514	310
IE3-W41R 225 M8 Ex nA IIC T3	22	286	735	IE3- 91.5	91.6	90.6	0.79	44	5.7	2.3	2	2.5	IBExU03ATEXB004	0.825	360
IE3-W41R 250 M8 Ex nA IIC T3	30	391	732	IE3- 91.3	91.9	91.4	0.81	58.5	5.4	2	1.8	2.3	IBExU03ATEXB004	0.92	420
IE3-W41R 280 S8 Ex nA IIC T3	37	479	738	IE3- 92	92	90.8	0.78	74.5	5.9	2.3	1.8	2.4	IBExU03ATEXB004	1.55	555
IE3-W41R 280 M8 Ex nA IIC T3	45	581	740	IE3- 93	93	92.4	0.78	89.5	6.5	1.7	1.5	2.4	IBExU03ATEXB004	2.63	700
IE3-W41R 315 S8 Ex nA IIC T3	55	707	743	IE3- 93.3	93.3	92.4	0.78	109	7.0	1.9	1.7	2.5	IBExU03ATEXB004	3.33	805
IE3-W41R 315 M8 Ex nA IIC T3	75	965	742	IE3- 93.8	94.2	93.8	0.81	142	7.0	1.9	1.7	2.3	IBExU03ATEXB004	5.55	1120
IE3-W41R 315 MX8 Ex nA IIC T3	90	1157	743	IE3- 94.3	94.4	93.6	0.8	172	7.9	2.4	2.0	2.7	IBExU03ATEXB004	6	1185
IE3-W41R 315 MY8 Ex nA IIC T3	110	1419	740	IE3- 93.8	94.0	93.8	0.82	206	6.5	1.9	1.5	2.1	IBExU03ATEXB004	6.76	1250
IE3-W41R 315 L8 Ex nA IIC T3	132	1703	740	IE3- 94.2	94.2	93.5	0.8	253	8.0	2.4	1.9	2.7	IBExU03ATEXB004	8.71	1450
IE3-W41R 355 MY8 Ex nA IIC T3	160	2051	745	IE3- 94.3	94.3	94.0	0.82	299	6.6	1.2	1.0	2.6	IBExU03ATEXB004	9.3	1700
IE3-W41R 355 M8 Ex nA IIC T3	200	2564	745	IE3- 94.7	94.9	94.2	0.81	376	7.0	1.0	1.0	2.7	IBExU03ATEXB004	9.5	1890
IE3-W41R 355 MX8 Ex nA IIC T3	230	2948	745	IE3- 95.2	95.2	95.0	0.83	420	7.0	1.2	1.0	2.6	IBExU03ATEXB004	13.40	2200
IE3-W41R 355 L8 Ex nA IIC T3	250	3205	745	IE3- 94.8	94.1	91.5	0.78	488					IBExU03ATEXB004	15.80	2400
IE3-W42R 355 MX8 Ex nA IIC	160	2054	744	IE3- 95.4	95.0	94.0	0.8	303	6.8	1.3	1.0	2.5		13.4	2200
IE3-W42R 355 L8 Ex nA IIC	200	2570	743	IE3- 95.6	95.5	94.0	0.77	393	6.5	1.6	1.0	2.7		15.8	2400
IE3-W42R 355 LX8 Ex nA IIC	250	3213	743	IE3- 95.6	95.4	93.8	0.78	487	6.4	2.5	1.9	2.5		15.8	2400
IE3-W42R 400 MY8 Ex nA IIC	315	4048	743	IE3- 95.6	95.5	94.5	0.78	611	6.4	2.5	1.9	2.5		17.94	3000
IE3-W42R 400 M8 Ex nA IIC	355	4550	745	IE3- 95.6	95.5	94.5	0.76	708	6.6	1.9	1.7	2.3		17.94	3000
IE3-W42R 400 MX8 Ex nA IIC	400	5134	744	IE3- 95.6	95.6	94.6	0.73	831	6.1	1.8	1.7	1.9		19.99	3150
IE3-W42R 400 L8 Ex nA IIC	450	5776	744	IE3- 95.6	95.6	94.6	0.72	947	6.4	2.0	1.7	2.0		22.34	3300

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

*** upon request

Three-phase motors with squirrel-cage rotor, High Efficiency IE2 Type of explosion protection „n“ (Increased safety „ec“) for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

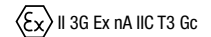
Ex II 3G Ex nA IIC T3 Gc

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version															
IE2-KPER 56 G2 Ex nA IIC T3	0.12	0.4	2830	IE2- 53.6	69.6	60.8	0.77	0.32	4.5	2.1	2.1	2.3	IBExU06ATEXB002	0.00013	4.5
IE2-KPR 56 G2 Ex nA IIC T3	0.12	0.41	2810	IE2- 53.6	65.5	61.6	0.83	0.31	4.7	2.0	2.0	2.2	IBExU06ATEXB001	0.00015	4.8
IE2-KPER 63 K2 Ex nA IIC T3	0.18	0.62	2790	IE2- 60.4	63.1	57.6	0.76	0.51	4.1	1.9	1.9	2.2	IBExU06ATEXB002	0.00013	4.9
IE2-KPR 63 K2 Ex nA IIC T3	0.18	0.61	2840	IE2- 60.4	68.6	63.5	0.84	0.44	5.5	2.5	2.4	2.9	IBExU06ATEXB001	0.00025	6.3
IE2-KPER 63 G2 Ex nA IIC T3	0.25	0.86	2775	IE2- 64.8	66.7	61.9	0.8	0.67	4.2	1.9	1.9	2.2	IBExU06ATEXB002	0.00015	5.2
IE2-KPR 63 G2 Ex nA IIC T3	0.25	0.83	2860	IE2- 64.8	77.6	73.6	0.84	0.55	6.2	2.6	2.5	2.8	IBExU06ATEXB001	0.00032	7
IE2-KPER 71 K2 Ex nA IIC T3	0.37	1.28	2750	IE2- 69.5	70.8	69.4	0.84	0.89	4.6	1.8	1.8	2.1	IBExU06ATEXB002	0.00025	6.7
IE2-KPR 71 K2 Ex nA IIC T3	0.37	1.24	2860	IE2- 69.5	74.2	72.7	0.87	0.78	7.1	2.9	2.7	3.1	IBExU06ATEXB001	0.00057	10
IE2-KPER 71 G2 Ex nA IIC T3	0.55	1.89	2775	IE2- 74.1	75.0	72.0	0.81	1.32	5.1	2.3	2.1	2.6	IBExU06ATEXB002	0.00032	7.6
IE2-KPR 71 G2 Ex nA IIC T3	0.55	1.83	2870	IE2- 74.1	78.3	75.4	0.86	1.14	7.4	3.0	2.7	3.3	IBExU06ATEXB001	0.00072	11.2
IE2-KPER 80 K2 Ex nA IIC T3	0.75	2.54	2825	IE2- 77.4	77.1	72.9	0.81	1.72	5.9	2.4	2.4	2.4	IBExU06ATEXB002	0.00057	10.7
IE2-KPR 80 K2 Ex nA IIC T3	0.75	2.49	2880	IE2- 77.4	83.6	81.6	0.88	1.48	7.7	2.2	2.1	2.7	IBExU06ATEXB001	0.00132	15
IE2-KPER 80 G2 Ex nA IIC T3	1.1	3.75	2805	IE2- 79.6	78.7	76.4	0.85	2.36	5.6	1.9	1.8	2.2	IBExU06ATEXB002	0.00072	11.5
IE2-KPR 80 G2 Ex nA IIC T3	1.1	3.64	2885	IE2- 79.6	82.1	81.2	0.89	2.15	7.8	2.5	2.3	2.8	IBExU06ATEXB001	0.0017	18
IE2-KPER 90 S2 Ex nA IIC T3	1.5	4.99	2870	IE2- 81.3	82.0	79.4	0.8	3.3	6.6	3.2	3.2	3.7	IBExU06ATEXB002	0.00132	16
IE2-KPR 90 S2 Ex nA IIC T3	1.5	4.92	2910	IE2- 81.3	85.5	82.9	0.87	2.9	9.0	2.8	2.4	3.4	IBExU06ATEXB001	0.00275	23.5
IE2-KPER 90 L2 Ex nA IIC T3	2.2	7.37	2850	IE2- 83.2	81.5	***	0.85	4.55	7.5	2.8	2.3	2.9	IBExU06ATEXB002	0.0017	19
IE2-KPR 90 L2 Ex nA IIC T3	2.2	7.29	2880	IE2- 83.2	85.7	83.9	0.88	4.25	8.0	2.5	2.3	2.9	IBExU06ATEXB001	0.00275	23.5
IE2-KPER 100 LY2 Ex nA IIC T3	3	9.97	2875	IE2- 84.6	85.1	83.6	0.85	6	7.4	2.6	2.3	3.3	IBExU06ATEXB002	0.00303	***
IE2-KPR 100 L2 Ex nA IIC T3	3	9.78	2930	IE2- 84.6	86.2	83.5	0.76	6.55	8.5	2.6	2.4	3.8	IBExU06ATEXB001	0.0045	31
IE2-KPER 112 M2 Ex nA IIC T3	4	13.2	2900	IE2- 85.8	86.3	***	0.81	8.4	7.0	2.2	2.1	2.9	IBExU06ATEXB002	0.0045	32
IE2-KPR 112 MX2 Ex nA IIC T3	4	13.08	2920	IE2- 85.8	86.4	85.8	0.84	7.9	8.3	2.3	2.1	3.3	IBExU06ATEXB002	0.0055	38
IE2-KPER 112 ML2 Ex nA IIC T3	5.5	18.2	2890	IE2- 85.9	86.6	***	0.84	11	7.5	2.4	2.2	3.0	IBExU06ATEXB002	0.0055	38
IE2-KPR 112 MV2 Ex nA IIC T3	5.5	18.11	2900	IE2- 87.0	88.7	88.8	0.88	10.3	7.8	2.0	1.9	2.7	IBExU06ATEXB002	0.0068	46
IE2-KPER 132 SY2T Ex nA IIC T3	5.5	18.2	2890	IE2- 87.0	86.6	***	0.84	11	7.5	2.4	2.2	3.0	IBExU06ATEXB002	0.0055	40
IE2-KPR 132 S2T Ex nA IIC T3	5.5	18.11	2900	IE2- 87.0	88.7	88.8	0.88	10.3	7.8	2.0	1.9	2.7	IBExU06ATEXB002	0.0068	48
IE2-KPER 112 MW2 Ex nA IIC T3	7.5	24.9	2880	IE2- 88.1	88.0	***	0.84	14.8	6.3	1.5	1.2	2.6	IBExU06ATEXB002	0.0068	46
IE2-KPR 132 SX2T Ex nA IIC T3	7.5	24.9	2880	IE2- 88.1	88.0	***	0.84	14.8	6.3	1.5	1.2	2.6	IBExU06ATEXB002	0.0068	48
IE2-WE1R 132 S2 Ex nA IIC T3	5.5	18.0	2915	IE2- 88.7	88.7	87.8	0.85	10.5	6.8	1.9	1.5	3.0	IBExU03ATEXB004	0.0110	57
IE2-WE1R 132 SX2 Ex nA IIC T3	7.5	24.5	2925	IE2- 88.8	89.2	88.3	0.91	13.5	6.7	2.1	1.6	2.9	IBExU03ATEXB004	0.0168	75
IE2-WE1R 160 M2 Ex nA IIC T3	11.0	35.6	2950	IE2- 90.3	90.3	89.1	0.90	19.5	7.7	2.3	1.7	3.1	IBExU03ATEXB004	0.0258	125
IE2-WE1R 160 MX2 Ex nA IIC T3	15.0	48.7	2940	IE2- 90.7	90.5	89.1	0.92	26	6.7	1.8	1.4	2.6	IBExU03ATEXB004	0.0675	140
IE2-WE1R 160 L2 Ex nA IIC T3	18.5	60.2	2935	IE2- 91.0	91.4	91.4	0.91	32	7.2	2.0	1.5	2.8	IBExU03ATEXB004	0.0675	140
IE2-WE1R 180 M2 Ex nA IIC T3	22	72	2935	IE2- 91.3	90.6	86.4	0.90	38.5	6.2	1.4	1.1	2.4	IBExU03ATEXB004	0.105	173
IE2-WE1R 200 L2 Ex nA IIC T3	30	97	2945	IE2- 92.0	91.3	90.5	0.91	52	6.9	1.7	1.3	2.6	IBExU03ATEXB004	0.128	210
IE2-WE1R 200 LX2 Ex nA IIC T3	37	120	2940	IE2- 92.5	92.3	91.6	0.92	63	7.4	1.9	1.4	2.9	IBExU03ATEXB004	0.154	233
IE2-WE2R 200 LX2 Ex nA IIC T3	37	120	2940	IE2- 92.5	92.3	91.6	0.92	63	7.4	1.9	1.4	2.9	IBExU03ATEXB004	0.154	233
IE2-WE1R 225 M2 Ex nA IIC T3	45	146	2950	IE2- 92.9	92.2	91.2	0.87	80.5	6.9	1.7	1.1	2.7	IBExU03ATEXB004	0.220	295
IE2-WE1R 250 M2 Ex nA IIC T3	55	178	2955	IE2- 93.5	93.7	93.2	0.89	95.5	8.2	2.3	1.9	2.8	IBExU03ATEXB004	0.375	385
IE2-WE1R 280 S2 Ex nA IIC T3	75	241	2970	IE2- 94.1	94.0	91.5	0.90	128	7.9	2.1	1.7	3.0	IBExU03ATEXB004	0.65	500
IE2-WE1R 280 M2 Ex nA IIC T3	90	289	2970	IE2- 94.4	94.1	91.9	0.91	151	7.7	2.0	1.7	2.8	IBExU03ATEXB004	0.68	550
IE2-WE1R 315 S2 Ex nA IIC T3	110	353	2975	IE2- 94.5	94.3	93.3	0.89	189	8.0	1.3	1.2	2.4	IBExU03ATEXB004	1.21	730
IE2-WE1R 315 M2 Ex nA IIC T3	132	424	2975	IE2- 95.0	94.8	94.5	0.89	225	9.2	1.4	1.2	2.4	IBExU03ATEXB004	1.44	820
IE2-WE1R 315 MX2 Ex nA IIC T3	160	514	2973	IE2- 94.8	94.8	94.8	0.89	274	8.2	1.3	1.3	2.4	IBExU03ATEXB004	1.76	955
IE2-WE1R 315 MY2 Ex nA IIC T3	200	640	2983	IE2- 95.4	95.0	94.3	0.88	344	9.4	2.8	2.0	3.0	IBExU03ATEXB004	2.82	1200
IE2-WE1R 315 L2 Ex nA IIC T3	250	800	2984	IE2- 95.4	95.4	95.4	0.92	411	9.0	2.3	1.2	2.3	IBExU03ATEXB004	3.66	1450
IE2-WE1R 315 LX2 Ex nA IIC T3	315	1008	2985	IE2- 95.4	95.4	95.0	0.92	518	8.5	2.8	1.6	2.5	IBExU03ATEXB004	4.43	1700
IE2-WE2R 355 M2G Ex nA IIC T3	355	1136	2985	IE2- 95.5	95.5	95.5	0.92	583	7.7	1.3	1.0	2.6	IBExU03ATEXB004	4.20	2000
IE2-WE2R 355 MX2G Ex nA IIC T3	400	1278	2990	IE2- 95.5	95.5	95.5	0.91	664	9.4	1.8	1.0	3.0	IBExU03ATEXB004	4.50	2200
E2-WE2R 355 LY2G Ex nA IIC T3	450	1440	2985	IE2- 95.5	95.5	95.5	0.92	739	7.0	1.3	0.9	2.4	IBExU03ATEXB004	7.10	2400
E2-WE2R 355 L2G Ex nA IIC T3	500	1597	2990	IE2- 95.5	95.5	95.5	0.92	821	8.5	1.5	1.2	2.5	IBExU03ATEXB004	7.10	2400

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.
***) upon request

Three-phase motors with squirrel-cage rotor, High Efficiency IE2
Type of explosion protection „n“ (Increased safety „ec“)
for operation in Zone 2 according to EN 60079-15 (EN 60079-7)



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version															
IE2-KPER 63 K4 Ex nA IIC T3	0.12	0.83	1380	IE2- 59.1	55.7	46.8	0.69	0.45	2.8	1.6	1.6	2.1	IBExU06ATEXB002	0.00019	4.8
IE2-KPR 63 K4 Ex nA IIC T3	0.12	0.82	1400	IE2- 59.1	69.1	63.9	0.71	0.35	3.8	2.0	1.9	2.3	IBExU06ATEXB001	0.0004	6.3
IE2-KPR 63 GY4 Ex nA IIC T3	0.18	1.23	1395	IE2- 64.7	66.3	61.3	0.72	0.54	3.5	1.7	1.7	2.2	IBExU06ATEXB001	0.0004	6.3
IE2-KPR 63 G4 Ex nA IIC T3	0.18	1.21	1425	IE2- 64.7	66.6	60.7	0.64	0.57	4.4	1.8	1.8	2.7	IBExU06ATEXB001	0.0005	7.1
IE2-KPER 71 K4 Ex nA IIC T3	0.25	1.71	1395	IE2- 68.5	68.1	63.8	0.7	0.73	3.9	2.1	2.1	2.5	IBExU06ATEXB002	0.0005	7.8
IE2-KPR 71 K4 Ex nA IIC T3	0.25	1.67	1430	IE2- 68.5	76.6	73.0	0.71	0.66	5.6	2.5	2.3	2.9	IBExU06ATEXB001	0.00087	9.9
IE2-KPR 71 GY4 Ex nA IIC T3	0.37	2.48	1425	IE2- 72.7	72.2	68.6	0.69	1	4.9	2.4	2.4	3.0	IBExU06ATEXB001	0.00087	9.9
IE2-KPR 71 G4 Ex nA IIC T3	0.37	2.47	1430	IE2- 72.7	78.2	73.1	0.69	0.98	6.2	2.8	2.6	3.2	IBExU06ATEXB001	0.00107	11
IE2-KPER 80 K4 Ex nA IIC T3	0.55	3.71	1415	IE2- 77.1	77.1	73.9	0.72	1.42	4.9	2.6	2.5	2.8	IBExU06ATEXB002	0.00107	11.7
IE2-KPR 80 K4 Ex nA IIC T3	0.55	3.67	1430	IE2- 77.1	79.6	78.7	0.8	1.25	6.0	2.4	2.3	2.7	IBExU06ATEXB001	0.00207	14.5
IE2-KPR 80 GY4 Ex nA IIC T3	0.75	5.01	1430	IE2- 79.6	78.0	74.7	0.8	1.73	5.7	2.2	2.2	3.1	IBExU06ATEXB001	0.00207	14.5
IE2-KPR 80 G4 Ex nA IIC T3	0.75	5.01	1430	IE2- 79.6	81.4	79.6	0.81	1.65	7.0	2.9	2.8	3.2	IBExU06ATEXB001	0.0026	17
IE2-KPER 90 S4 Ex nA IIC T3	1.1	7.32	1435	IE2- 81.4	80.1	77.0	0.76	2.6	6.3	3.0	3.0	3.8	IBExU06ATEXB002	0.0028	18.5
IE2-KPR 90 S4 Ex nA IIC T3	1.1	7.32	1435	IE2- 81.4	82.3	80.4	0.8	2.42	6.8	2.4	2.2	2.9	IBExU06ATEXB001	0.004	23
IE2-KPR 90 LW4 Ex nA IIC T3	1.5	9.95	1440	IE2- 82.8	83.8	81.4	0.76	3.4	6.5	2.7	2.7	3.6	IBExU06ATEXB001	0.004	23
IE2-KPR 90 L4 Ex nA IIC T3	1.5	9.91	1445	IE2- 82.8	83.2	80.7	0.77	3.35	7.2	3.2	3.0	3.5	IBExU06ATEXB001	0.0045	28
IE2-KPR 100 S4 Ex nA IIC T3	2.2	14.5	1445	IE2- 84.3	84.9	82.7	0.79	4.67	7.3	2.7	2.5	3.1	IBExU06ATEXB001	0.00725	30
IE2-KPR 100 L4 Ex nA IIC T3	2.2	14.4	1455	IE2- 84.3	85.2	81.7	0.77	4.8	9.3	3.2	3.0	3.6	IBExU06ATEXB001	0.009	36
IE2-KPR 100 LW4 Ex nA IIC T3	3	19.8	1445	IE2- 85.5	85.8	83.6	0.79	6.33	7.8	3.0	2.9	3.6	IBExU06ATEXB001	0.009	36
IE2-KPR 100 LX4 Ex nA IIC T3	3	19.7	1455	IE2- 85.5	86.3	84.5	0.77	6.5	9.0	3.3	3.1	3.9	IBExU06ATEXB001	0.011	45
IE2-KPER 112 MZ4 Ex nA IIC T3	4	26.4	1445	IE2- 86.6	87.0	85.0	0.8	8.3	8.2	2.8	2.6	3.6	IBExU06ATEXB002	0.013	50
IE2-WE1R 112 M4 Ex nA IIC T3	4.0	26.2	1460	IE2- 86.6	88.0	86.9	0.86	7.6	8.3	2.6	2.3	3.9	IBExU03ATEXB004	0.017	56
IE2-WE1R 132 S4 Ex nA IIC T3	5.5	35.7	1470	IE2- 89.8	89.9	88.4	0.87	10	7.4	2.3	1.9	3.4	IBExU03ATEXB004	0.035	87
IE2-WE2R 132 S4 Ex nA IIC T3	5.5	36.2	1450	IE2- 88.4	89.3	89.0	0.87	10.5	7.7	2.3	1.8	3.5	IBExU03ATEXB004	0.020	64
IE2-WE1R 132 M4 Ex nA IIC T3	7.5	48.7	1470	IE2- 89.9	90.0	88.5	0.82	14.5	8.5	2.6	2.1	4.0	IBExU03ATEXB004	0.035	88
IE2-WE1R 160 M4 Ex nA IIC T3	11.0	71	1475	IE2- 90.6	90.3	88.5	0.82	21.5	8.1	3.1	2.4	3.4	IBExU03ATEXB004	0.078	122
IE2-WE2R 160 M4 Ex nA IIC T3	11	71.5	1470	IE2- 90.3	90.3	88.5	0.78	22.5	7.8	2.4	2.1	3.9	IBExU03ATEXB004	0.043	105
IE2-WE1R 160 L4 Ex nA IIC T3	15.0	97	1470	IE2- 90.6	90.9	90.5	0.87	27.5	8.3	2.7	2.2	3.2	IBExU03ATEXB004	0.115	160
IE2-WE2R 160 L4 Ex nA IIC T3	15	97	1480	IE2- 92.0	92.0	90.6	0.84	28	9.1	3.0	2.5	3.9	IBExU03ATEXB004	0.115	161
IE2-WE1R 180 M4 Ex nA IIC T3	18.5	120	1475	IE2- 91.5	91.5	90.4	0.86	34	6.8	1.8	1.5	2.7	IBExU03ATEXB004	0.168	207
IE2-WE2R 180 M4 Ex nA IIC T3	18.5	120	1470	IE2- 91.2	90.6	89.3	0.78	37.5	6.4	2.0	1.6	2.8	IBExU03ATEXB004	0.138	176
IE2-WE1R 180 L4 Ex nA IIC T3	22	142	1475	IE2- 91.6	91.4	89.9	0.83	42	7.3	2.1	1.7	3.0	IBExU03ATEXB004	0.168	215
IE2-WE1R 200 L4 Ex nA IIC T3	30	194	1480	IE2- 92.3	91.3	88.2	0.80	58.5	7.3	2.1	1.7	2.9	IBExU03ATEXB004	0.275	277
IE2-WE1R 225 S4 Ex nA IIC T3	37	240	1475	IE2- 92.7	91.8	90.7	0.84	68.5	7.4	2.2	1.7	2.7	IBExU03ATEXB004	0.313	313
IE2-WE1R 225 M4 Ex nA IIC T3	45	290	1483	IE2- 93.1	93.0	91.1	0.84	83	7.9	2.3	1.9	2.4	IBExU03ATEXB004	0.525	390
IE2-WE2R 225 M4 Ex nA IIC T3	45	291	1475	IE2- 93.1	92.9	92.1	0.80	87	7.6	2.6	1.9	3.1	IBExU03ATEXB004	0.356	346
IE2-WE1R 250 M4 Ex nA IIC T3	55	354	1485	IE2- 94.0	94.1	92.5	0.84	101	8.0	2.0	1.7	2.3	IBExU03ATEXB004	0.95	535
IE2-WE2R 250 M4 Ex nA IIC T3	55	356	1477	IE2- 93.9	93.8	93.7	0.82	103	7.5	2.4	1.9	2.4	IBExU03ATEXB004	0.62	435
IE2-WE1R 280 S4 Ex nA IIC T3	75	482	1485	IE2- 94.2	94.4	92.1	0.84	137	7.2	1.8	1.6	2.1	IBExU03ATEXB004	0.95	550
IE2-WE1R 280 M4 Ex nA IIC T3	90	580	1483	IE2- 94.3	94.5	94.0	0.84	164	7.6	1.8	1.6	2.3	IBExU03ATEXB004	1.10	610
IE2-WE1R 315 S4 Ex nA IIC T3	110	707	1485	IE2- 94.8	94.8	94.0	0.82	204	8.5	1.8	1.5	2.7	IBExU03ATEXB004	1.96	760
IE2-WE1R 315 M4 Ex nA IIC T3	132	849	1484	IE2- 95.0	95.0	94.5	0.83	242	8.2	1.8	1.6	2.3	IBExU03ATEXB004	2.27	850
IE2-WE1R 315 MX4 Ex nA IIC T3	160	1031	1482	IE2- 95.0	95.0	94.5	0.84	289	7.4	1.6	1.4	2.2	IBExU03ATEXB004	2.73	975
IE2-WE1R 315 MY4 Ex nA IIC T3	200	1282	1490	IE2- 95.1	95.1	94.5	0.87	349	8.5	1.8	1.6	2.5	IBExU03ATEXB004	4.82	1270
IE2-WE1R 315 L4 Ex nA IIC T3	250	1602	1490	IE2- 95.4	95.4	95.3	0.88	430	9.0	2.2	1.5	2.7	IBExU03ATEXB004	5.93	1450
IE2-WE1R 315 LX4 Ex nA IIC T3	315	2019	1490	IE2- 95.4	95.4	95.0	0.88	542	9.0	2.4	1.6	2.6	IBExU03ATEXB004	6.82	1630
IE2-WE2R 355 M4 Ex nA IIC T3	355	2271	1493	IE2- 95.5	95.5	95.0	0.87	617	8.0	1.3	1.0	2.7	IBExU03ATEXB004	7.90	2150
IE2-WE2R 355 MX4 Ex nA IIC T3	400	2557	1494	IE2- 95.5	95.5	95.5	0.88	687	8.5	1.3	1.0	3.0	IBExU03ATEXB004	9.50	2400
IE2-WE2R 355 L4 Ex nA IIC T3	450	2873	1496	IE2- 95.5	95.5	95.5	0.86	790	8.5	1.4	0.8	2.9	IBExU03ATEXB004	10.00	2500

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.
 Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2 Type of explosion protection „n“ (Increased safety „ec“) for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Ex II 3G Ex nA IIC T3 Gc

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version															
IE2-KPER 63 G6 Ex nA IIC T3	0.12	1.3	880	IE2- 50.6	48.0	***)	0.56	0.59	2.5	2.0	2.0	2.3	IBExU06ATEXB002	0.00027	5.7
IE2-KPER 71 K6 Ex nA IIC T3	0.18	1.87	920	IE2- 56.6	54.4	48.5	0.52	0.8	2.9	2.0	2.0	2.3	IBExU06ATEXB002	0.0006	8.3
IE2-KPR 71 K6 Ex nA IIC T3	0.18	1.85	930	IE2- 56.6	65.0	59.4	0.68	0.57	3.4	2.0	2.0	2.2	IBExU06ATEXB001	0.0013	11
IE2-KPER 71 G6 Ex nA IIC T3	0.25	2.61	915	IE2- 61.6	56.5	***)	0.55	1.1	2.9	2.0	2.0	2.2	IBExU06ATEXB002	0.0006	8.3
IE2-KPR 71 G6 Ex nA IIC T3	0.25	2.55	935	IE2- 61.6	69.9	65.0	0.67	0.75	3.9	2.3	2.3	2.5	IBExU06ATEXB001	0.00175	12.5
IE2-KPER 80 K6 Ex nA IIC T3	0.37	3.78	935	IE2- 67.6	68.5	63.3	0.65	1.17	3.7	2.1	2.1	2.6	IBExU06ATEXB002	0.00175	12.5
IE2-KPR 80 K6 Ex nA IIC T3	0.37	3.72	950	IE2- 67.6	73.5	69.7	0.7	1.03	4.0	1.9	1.9	2.4	IBExU06ATEXB001	0.00325	15
IE2-KPR 80 GY6 Ex nA IIC T3	0.55	5.56	945	IE2- 73.1	72.6	68.4	0.67	1.62	3.8	1.9	1.9	2.4	IBExU06ATEXB001	0.00325	15
IE2-KPR 80 G6 Ex nA IIC T3	0.55	5.53	950	IE2- 73.1	75.9	72.4	0.69	1.5	4.1	2.1	2.1	2.5	IBExU06ATEXB001	0.00425	18
IE2-KPER 90 S6 Ex nA IIC T3	0.75	7.58	945	IE2- 75.9	***)	***)	0.67	2.12	4.0	1.8	1.8	2.4	IBExU06ATEXB002	0.00425	19
IE2-KPR 90 S6 Ex nA IIC T3	0.75	7.5	955	IE2- 75.9	78.3	75.1	0.71	1.95	4.9	2.4	2.3	2.6	IBExU06ATEXB001	0.00625	24
IE2-KPR 90 LW6 Ex nA IIC T3	1.1	11	955	IE2- 78.1	78.0	75.1	0.69	2.95	4.7	2.5	2.4	2.8	IBExU06ATEXB001	0.00625	24
IE2-KPR 90 L6 Ex nA IIC T3	1.1	11	955	IE2- 78.1	82.0	79.3	0.71	2.75	5.4	2.5	2.4	2.8	IBExU06ATEXB001	0.0072	30
IE2-KPR 100 LW6 Ex nA IIC T3	1.1	10.94	960	IE2- 78.1	***)	***)	0.76	2.5	6.5	2.8	2.7	3.4	IBExU06ATEXB001	0.0139	36
IE2-KPER 100 L6 Ex nA IIC T3	1.5	15.08	950	IE2- 79.8	80.4	77.6	0.7	3.85	5.1	2.5	2.4	3.0	IBExU06ATEXB002	0.0072	30
IE2-KPR 100 LX6 Ex nA IIC T3	1.5	15	955	IE2- 79.8	83.5	81.5	0.76	3.45	5.9	2.3	2.2	2.8	IBExU06ATEXB001	0.0139	36
IE2-KPER 112 MX6 Ex nA IIC T3	2.2	21.89	960	IE2- 81.8	***)	***)	0.65	5.9	6.4	3.0	2.9	3.7	IBExU06ATEXB002	***)	37
IE2-KPER 112 MV6 Ex nA IIC T3	2.2	22	955	IE2- 81.8	82.5	79.8	0.75	5.15	5.7	2.4	2.3	2.9	IBExU06ATEXB002	0.0155	48
IE2-KPER 112 MZ6 ExnA IIC T3	3	30	955	IE2- 83.3	83.1	80.5	0.75	6.85	6.5	2.8	2.7	3.5	IBExU06ATEXB002	0.043	50
IE2-KPER 132 SX6T Ex nA IIC T3	3	30	955	IE2- 83.3	83.1	80.5	0.73	7.1	7.0	3.2	3.1	4.0	IBExU06ATEXB002	0.0165	52
IE2-W21R 132 S6 Ex nA IIC T3	3.0	29.8	963	IE2- 84.9	85.2	83.9	0.80	6.4	6.0	2.0	1.3	3.0	IBExU03ATEXB004	0.023	55
IE2-W21R 132 M6 Ex nA IIC T3	4.0	39.6	965	IE2- 85.5	85.5	83.8	0.79	8.5	5.1	1.8	1.6	2.4	IBExU03ATEXB004	0.043	76
IE2-WE2R 132 M6 Ex nA IIC T3	4	40	955	IE2- 85.1	86.0	85.2	0.82	8.3	5.7	2.1	2.0	2.9	IBExU03ATEXB004	0.029	66
IE2-W21R 132 MX6 Ex nA IIC T3	5.5	54	970	IE2- 86.1	85.5	82.4	0.77	12	5.7	2.2	1.7	2.7	IBExU03ATEXB004	0.053	85
IE2-W21R 160 M6 Ex nA IIC T3	7.5	73	975	IE2- 87.4	88.1	86.0	0.81	15.5	6.3	2.5	2.1	2.9	IBExU03ATEXB004	0.113	118
IE2-WE2R 160 M6 Ex nA IIC T3	7.5	74	970	IE2- 87.5	87.6	85.9	0.79	15.5	5.9	2.1	1.8	2.9	IBExU03ATEXB004	0.053	103
IE2-W21R 160 L6 Ex nA IIC T3	11.0	108	970	IE2- 88.7	87.9	86.3	0.85	21	5.8	2.2	1.9	2.7	IBExU03ATEXB004	0.145	135
IE2-WE1R 160 L6 Ex nA IIC T3	11.0	108	975	IE2- 88.9	88.8	87.0	0.81	22	6.8	2.7	2.4	3.1	IBExU03ATEXB004	0.166	155
IE2-W21R 180 L6 Ex nA IIC T3	15.0	147	975	IE2- 89.7	88.8	86.7	0.84	28.5	6.2	2.1	1.8	2.8	IBExU03ATEXB004	0.228	185
IE2-WE2R 180 L6 Ex nA IIC T3	15	148	970	IE2- 89.7	88.8	87.8	0.83	29	5.6	2.3	1.7	2.6	IBExU03ATEXB004	0.166	157
IE2-WE1R 200 L6 Ex nA IIC T3	18.5	180	980	IE2- 90.4	88.8	86.5	0.85	35	6.6	2.3	1.7	2.9	IBExU03ATEXB004	0.268	208
IE2-WE1R 200 LX6 Ex nA IIC T3	22	214	980	IE2- 90.9	90.2	88.5	0.86	40.5	6.4	2.2	1.8	2.7	IBExU03ATEXB004	0.443	272
IE2-WE2R 200 LX6 Ex nA IIC T3	22	215	975	IE2- 90.9	89.9	88.5	0.84	41.5	6.7	2.4	2.0	3.0	IBExU03ATEXB004	0.324	238
IE2-WE1R 225 M6 Ex nA IIC T3	30	291	985	IE2- 92.0	91.5	90.0	0.86	54.5	7.3	2.5	2.2	2.9	IBExU03ATEXB004	0.825	365
IE2-WE2R 225 M6 Ex nA IIC T3	30	294	975	IE2- 91.7	91.4	90.6	0.87	54.5	6.7	2.3	1.9	2.8	IBExU03ATEXB004	0.514	308
IE2-WE1R 250 M6 Ex nA IIC T3	37	359	985	IE2- 92.2	91.7	90.7	0.85	68	6.4	2.7	1.8	2.4	IBExU03ATEXB004	1.28	480
IE2-WE2R 250 M6 Ex nA IIC T3	37	361	979	IE2- 92.2	92.3	91.8	0.86	67.5	6.6	2.7	2.0	2.6	IBExU03ATEXB004	0.92	407
IE2-WE1R 280 S6 Ex nA IIC T3	45	437	983	IE2- 93.0	92.7	92.4	0.87	80.5	6.5	2.2	1.7	2.4	IBExU03ATEXB004	1.48	560
IE2-WE1R 280 M6 Ex nA IIC T3	55	531	990	IE2- 93.5	93.5	93.0	0.85	100	7.6	2.0	1.5	2.5	IBExU03ATEXB004	2.63	710
IE2-WE1R 315 S6 Ex nA IIC T3	75	723	990	IE2- 93.9	93.7	93.5	0.87	133	7.8	1.9	1.5	2.5	IBExU03ATEXB004	3.33	804
IE2-WE1R 315 M6 Ex nA IIC T3	90	868	990	IE2- 94.0	94.0	93.5	0.88	157	7.5	1.8	1.5	2.5	IBExU03ATEXB004	3.60	865
IE2-WE1R 315 MX6 Ex nA IIC T3	110	1061	990	IE2- 94.3	94.3	94.0	0.87	194	7.5	1.8	1.4	2.3	IBExU03ATEXB004	6.67	1210
IE2-WE1R 315 MY6 Ex nA IIC T3	132	1273	990	IE2- 94.6	94.3	94.0	0.87	231	7.5	1.9	1.4	2.2	IBExU03ATEXB004	6.67	1250
IE2-WE1R 315 L6 Ex nA IIC T3	160	1543	990	IE2- 94.8	94.5	93.5	0.88	277	7.5	2.0	1.5	2.4	IBExU03ATEXB004	8.60	1430
IE2-WE1R 315 LX6 Ex nA IIC T3	200	1929	990	IE2- 95.0	95.0	94.5	0.86	353	7.0	1.9	1.5	2.2	IBExU03ATEXB004	8.60	1460
IE2-WE2R 355 M6 Ex nA IIC T3	200	1920	995	IE2- 95.0	95.0	94.0	0.82	371	8.0	1.7	1.4	2.6	IBExU03ATEXB004	8.20	1850
IE2-WE2R 355 MX6 Ex nA IIC T3	315	3023	995	IE2- 95.0	95.0	94.5	0.85	447	7.5	1.6	1.2	2.5	IBExU03ATEXB004	12.1	2200
IE2-WE2R 355 LY6 Ex nA IIC T3	355	3407	995	IE2- 95.3	95.3	95.3	0.86	555	8.0	2.1	1.3	2.6	IBExU03ATEXB004	14.0	2400

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.
***) upon request

Three-phase motors with squirrel-cage rotor, High Efficiency IE2
Type of explosion protection „n“ (Increased safety „ec“)
for operation in Zone 2 according to EN 60079-15 (EN 60079-7)



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-		kgm ²	kg
Synchronous speed 750 rpm – 8-pole version															
IE2-KPER 71 G8 Ex nA IIC T3	0.12	1.71	670	IE2- 39.8	41.3	***)	0.51	0.73	2.3	1.8	1.8	2.1	IBExU06ATEXB002	0.0006	8.1
IE2-KPER 80 K8 Ex nA IIC T3	0.18	2.49	690	IE2- 45.9	53.8	***)	0.59	0.78	2.8	2.0	2.0	2.2	IBExU06ATEXB002	0.0013	10.5
IE2-KPER 80 G8 Ex nA IIC T3	0.25	3.44	695	IE2- 50.6	54.0	***)	0.56	1.12	3.0	2.3	2.3	2.5	IBExU06ATEXB002	0.00175	12
IE2-KPER 90 S8 Ex nA IIC T3	0.37	5.05	700	IE2- 56.1	56.3	***)	0.54	1.6	3.0	1.9	1.9	2.1	IBExU06ATEXB002	0.003	15
IE2-KPR 90 S8 Ex nA IIC T3	0.37	4.98	710	IE2- 56.1	70.3	65.7	0.63	1.2	3.6	2.1	2.1	2.3	IBExU06ATEXB001	0.00625	24
IE2-KPER 90 L8 Ex nA IIC T3	0.55	7.56	695	IE2- 61.7	61.8	***)	0.6	2.04	3.2	1.9	1.9	2.2	IBExU06ATEXB002	0.00375	18
IE2-KPR 90 L8 Ex nA IIC T3	0.55	7.5	700	IE2- 61.7	***)	***)	0.64	1.72	3.6	1.8	1.8	2.3	IBExU06ATEXB001	0.0072	26
IE2-KPER 100 L8 Ex nA IIC T3	0.75	10.2	705	IE2- 66.2	63.0	***)	0.6	2.9	3.3	1.8	1.8	2.2	IBExU06ATEXB002	0.00625	23
IE2-KPR 100 L8 Ex nA IIC T3	0.75	10.02	715	IE2- 66.2	75.9	71.3	0.63	2.25	4.4	2.5	2.5	2.8	IBExU06ATEXB001	0.0123	33.5
IE2-KPR 100 LY8 Ex nA IIC T3	1.1	14.9	705	IE2- 70.8	72.5	***)	0.67	3.25	4.0	2.0	2.0	2.4	IBExU06ATEXB001	0.009	28
IE2-KPR 100 LX8 Ex nA IIC T3	1.1	14.79	710	IE2- 70.8	78	74.2	0.63	3.2	4.2	1.9	1.8	2.5	IBExU06ATEXB001	0.0139	36
IE2-KPER 112 M8 Ex nA IIC T3	1.5	20.3	705	IE2- 74.1	73.6	70.1	0.62	4.5	4.2	2.0	2.0	2.7	IBExU06ATEXB002	0.0139	37
IE2-KPER 112 MV8 Ex nA IIC T3	1.5	20.46	700	IE2- 74.1	78.7	76.0	0.65	4.25	3.8	1.6	1.6	2.1	IBExU06ATEXB002	0.0155	48
IE2-WE1R 132 S8 Ex nA IIC T3	2.2	29.2	720	IE2- 81.7	81.0	77.5	0.65	6	4.8	2.2	2.0	3.2	IBExU03ATEXB004	0.0180	55
IE2-WE1R 132 M8 Ex nA IIC T3	3.0	39.8	720	IE2- 82.7	83.0	81.3	0.74	7.1	3.9	1.6	1.3	1.9	IBExU03ATEXB004	0.0430	74
IE2-WE2R 132 M8 Ex nA IIC T3	3	39.8	720	IE2- ***)	***)	***)	***)	***)	***)	***)	***)	***)	IBExU03ATEXB004	0.0290	65
IE2-WE1R 160 M8 Ex nA IIC T3	4.0	53.2	718	IE2- 84.2	83.7	81.9	0.72	9.5	4.6	1.6	***)	2.5	IBExU03ATEXB004	0.0530	86
IE2-WE1R 160 MX8 Ex nA IIC T3	5.5	72.0	730	IE2- 86.9	86.6	84.1	0.72	12.5	4.8	2.1	1.8	2.6	IBExU03ATEXB004	0.1130	115
IE2-WE2R 160 MX8 Ex nA IIC T3	5.5	73	715	IE2- 83.9	84.0	81.9	0.71	13.5	4.3	1.7	1.5	2.5	IBExU03ATEXB004	0.0530	103
IE2-WE1R 160 L8 Ex nA IIC T3	7.5	99	725	IE2- 87.5	87.0	83.5	0.77	16	5.5	2.0	***)	2.8	IBExU03ATEXB004	0.1450	136
IE2-WE1R 180 L8 Ex nA IIC T3	11.0	144	727	IE2- 88.2	88.2	86.7	0.78	23	4.9	1.8	1.6	2.4	IBExU03ATEXB004	0.2280	175
IE2-WE2R 180 L8 Ex nA IIC T3	11	144	730	IE2- 87.9	87.4	85.2	0.67	25.5	4.3	1.9	1.6	2.3	IBExU03ATEXB004	0.1660	157
IE2-WE1R 200 L8 Ex nA IIC T3	15.0	197	727	IE2- 88.2	88.1	86.4	0.77	32	4.9	1.9	1.7	2.3	IBExU03ATEXB004	0.2680	200
IE2-WE1R 225 S8 Ex nA IIC T3	18.5	242	730	IE2- 89.6	89.4	87.2	0.78	38	5.4	2.1	2.0	2.8	IBExU03ATEXB004	0.440	265
IE2-WE2R 225 S8 Ex nA IIC T3	18.5	240	735	IE2- 90.7	90.7	89.4	0.8	37	6.1	2.1	1.9	2.9	IBExU03ATEXB004	0.514	305
IE2-WE1R 225 M8 Ex nA IIC T3	22	287	733	IE2- 90.6	89.4	89.9	0.78	45	5.6	2.2	1.8	2.6	IBExU03ATEXB004	0.825	380
IE2-WE2R 225 M8 Ex nA IIC T3	22	286	735	IE2- 90.3	90.3	88.7	0.77	45.5	6.1	2.2	2.0	2.9	IBExU03ATEXB004	0.514	307
IE2-WE1R 250 M8 Ex nA IIC T3	30	389	737	IE2- 92.1	92.4	91.6	0.79	59.5	5.0	2.0	1.6	2.1	IBExU03ATEXB004	1.350	480
IE2-WE2R 250 M8 Ex nA IIC T3	30	391	732	IE2- 91.5	91.7	90.9	0.77	61.5	5.6	2.3	2.0	2.5	IBExU03ATEXB004	0.950	405
IE2-WE1R 280 S8 Ex nA IIC T3	37	479	737	IE2- 92.2	92.1	90.9	0.79	73.5	6.0	2.3	1.9	2.5	IBExU03ATEXB004	1.55	550
IE2-WE1R 280 M8 Ex nA IIC T3	45	581	740	IE2- 92.7	92.7	92.0	0.79	88.5	6.7	1.8	1.5	2.5	IBExU03ATEXB004	2.63	690
IE2-WE1R 315 S8 Ex nA IIC T3	55	710	740	IE2- 92.2	92.2	92.1	0.80	108	6.3	1.8	1.5	2.3	IBExU03ATEXB004	2.63	690
IE2-WE1R 315 M8 Ex nA IIC T3	75	968	740	IE2- 93.5	93.5	93.0	0.81	143	6.0	1.8	1.5	2.1	IBExU03ATEXB004	3.6	880
IE2-WE1R 315 MX8 Ex nA IIC T3	90	1161	740	IE2- 92.1	91.6	90.1	0.81	174	6.0	1.9	***)	2.2	IBExU03ATEXB004	6	1050
IE2-WE1R 315 MY8 Ex nA IIC T3	110	1420	740	IE2- 93.8	93.3	91.2	0.81	209	6.5	2.1	***)	2.4	IBExU03ATEXB004	6.76	1250
IE2-WE1R 315 L8 Ex nA IIC T3	132	1704	740	IE2- 94.4	94.0	93.5	0.83	243	7.5	2.2	1.8	2.5	IBExU03ATEXB004	8.71	1430
IE2-WE1R 315 LX8 Ex nA IIC T3	160	2065	740	IE2- 94.2	94.2	93.8	0.80	306	7.2	2.2	1.8	2.5	IBExU03ATEXB004	8.71	1430
IE2-WE2R 355 M8 Ex nA IIC T3	200	2571	743	IE2- 94.7	94.1	91.5	0.77	396	***)	***)	***)	***)	IBExU03ATEXB004	9.5	1850
IE2-WE2R 355 MX8 Ex nA IIC T3	250	3205	745	IE2- 95.8	95.8	95.5	0.83	454	7.0	1.2	1.0	2.6	IBExU03ATEXB004	13.4	2200
IE2-WE2R 355 LY8 Ex nA IIC T3	280	3599	743	IE2- 94.8	94.1	91.5	0.78	547	***)	***)	***)	***)	IBExU03ATEXB004	15.8	2400

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

***) upon request

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1 Type of explosion protection „n“ (Increased safety „ec“) for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

II 3G Ex nA IIC T3 Gc

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	A	-	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version															
(IE1-)KPEO 56 K2 Ex nA IIC T3	0.09	0.3	2840	IE1- 70.2	68.1	64.5	0.74	0.25	4.9	2.3	2.3	2.8		0.00013	4.4
(IE1-)KPER 56 G2 Ex nA IIC T3	0.12	0.41	2830	IE1- 70.3	67.0	60.1	0.77	0.32	4.5	2.1	2.1	2.3		0.00013	4.5
(IE1-)KPER 63 K2 Ex nA IIC T3	0.18	0.62	2790	IE1- 67.0	65.6	59.8	0.76	0.51	4.1	1.9	1.9	2.2		0.00013	4.9
(IE1-)KPER 63 G2 Ex nA IIC T3	0.25	0.85	2800	IE1- 67.7	64.9	56.2	0.72	0.74	4.2	2.2	2.2	2.4		0.00015	5.2
(IE1-)KPER 71 K2 Ex nA IIC T3	0.37	1.27	2780	IE1- 71.9	70.8	65.0	0.79	0.94	4.4	2.1	2.1	2.3		0.00025	6.7
(IE1-)KPER 71 G2 Ex nA IIC T3	0.55	1.89	2775	IE1- 74.2	75.0	72.0	0.81	1.32	5.1	2.3	2.1	2.6		0.00032	7.6
(IE1-)KPER 80 K2 Ex nA IIC T3	0.75	2.54	2825	IE1- 76.8	77.5	74.3	0.82	1.72	5.9	2.4	2.4	2.4		0.00057	10.7
(IE1-)KPER 80 G2 Ex nA IIC T3	1.1	3.71	2835	IE1- 76.9	75.9	73.3	0.81	2.55	6.0	2.4	2.3	2.6		0.00072	11.5
(IE1-)KPER 90 S2 Ex nA IIC T3	1.5	5.04	2840	IE1- 81.2	82.2	80.3	0.86	3.1	7.0	2.5	2.5	2.8		0.00132	16.0
(IE1-)KPER 90 L2 Ex nA IIC T3	2.2	7.37	2850	IE1- 82.1	83.4	81.9	0.85	4.55	7.5	2.8	2.3	2.9		0.0017	19.0
(IE1-)KPER 100 L2 Ex nA IIC T3	3.0	10	2865	IE1- 82.8	83.1	83.3	0.85	6.15	6.8	2.4	2.2	2.8		0.00275	25.0
(IE1-)KPER 112 M2 Ex nA IIC T3	4.0	13.2	2900	IE1- 84.9	85.5	84.4	0.81	8.4	7.0	2.2	2.1	2.9		0.0045	32
(IE1-)KPER 112 MX2 Ex nA IIC T3	5.5	18.2	2890	IE1- 85.9	86.2	86.4	0.84	11.0	7.5	2.4	2.2	3.0		0.0055	40
(IE1-)KPER 132 S2T Ex nA IIC T3	5.5	18.2	2890	IE1- 85.9	86.2	86.4	0.84	11.0	7.5	2.4	2.2	3.0		0.0055	40
(IE1-)KPER 132 SX2T Ex nA IIC T3	7.5	24.9	2880	IE1- 87.1	87.2	86.6	0.84	14.8	6.3	1.5	1.2	2.6		0.0680	48
(IE1-)K11R 132 S2 Ex nA IIC T3	5.5	18	2860	IE1- 84.7	84.7	82.4	0.86	11	5.5	1.8	1.6	2.2	IBExU09ATEXB006	0.0081	50
(IE1-)K11R 132 SX2 Ex nA IIC T3	7.5	25	2900	IE1- 86.0	86.0	84.0	0.86	14.5	6.6	1.8	1.3	2.5	IBExU09ATEXB006	0.0110	59
(IE1-)K11R 160 M2 Ex nA IIC T3	11.0	36	2900	IE1- 87.6	87.6	84.6	0.90	20	7.0	2.4	2.0	3.0	IBExU09ATEXB006	0.0258	88
(IE1-)K11R 160 MX2 Ex nA IIC T3	15.0	49	2930	IE1- 88.7	88.7	85.8	0.90	27	7.1	2.2	1.7	2.9	IBExU09ATEXB006	0.0575	131
(IE1-)K11R 160 L2 Ex nA IIC T3	18.5	61	2920	IE1- 89.3	88.3	85.8	0.92	32.5	7.2	2.1	1.6	2.8	IBExU09ATEXB006	0.0675	138
(IE1-)K11R 180 M2 Ex nA IIC T3	22	72	2935	IE1- 89.9	89.1	86.1	0.92	38.5	6.8	1.7	1.4	2.6	IBExU09ATEXB006	0.105	178
(IE1-)K11R 200 L2 Ex nA IIC T3	30	97	2940	IE1- 91.1	90.3	88.8	0.92	51.5	7.3	2.0	1.6	2.9	IBExU09ATEXB006	0.128	207
(IE1-)K11R 200 LX2 Ex nA IIC T3	37	120	2940	IE1- 91.5	90.5	89.0	0.90	65	7.0	1.8	1.3	2.4	IBExU09ATEXB006	0.193	265
(IE1-)K11R 225 M2 Ex nA IIC T3	45	146	2940	IE1- 92.0	91.3	88.8	0.91	77.5	7.5	1.8	1.4	2.7	IBExU09ATEXB006	0.220	295
(IE1-)K11R 250 M2 Ex nA IIC T3	55	178	2955	IE1- 92.2	91.0	89.0	0.91	94.5	7.5	2.0	1.5	2.6	IBExU09ATEXB006	0.375	383
(IE1-)K11R 280 S2 Ex nA IIC T3	75	241	2970	IE1- 93.1	92.0	90.5	0.92	126	7.5	2.0	1.6	2.6	IBExU09ATEXB006	0.650	505
(IE1-)K11R 280 M2 Ex nA IIC T3	90	289	2970	IE1- 93.2	92.7	90.5	0.91	153	8.5	2.2	1.8	2.8	IBExU09ATEXB006	0.675	546
(IE1-)K11R 315 S2 Ex nA IIC T3	110	353	2975	IE1- 93.5	92.6	91.1	0.91	187	8.5	1.5	1.3	2.5	IBExU09ATEXB006	1.21	720
(IE1-)K11R 315 M2 Ex nA IIC T3	132	424	2975	IE1- 93.8	92.9	91.9	0.91	223	8.5	2.0	1.8	2.7	IBExU09ATEXB006	1.44	800
(IE1-)K11R 315 MX2 Ex nA IIC T3	160	514	2975	IE1- 94.0	94.0	94.0	0.91	270	8.5	1.5	1.0	2.0	IBExU09ATEXB006	1.76	980
(IE1-)K11R 315 MY2 Ex nA IIC T3	200	643	2970	IE1- 94.0	93.2	92.5	0.92	334	8.2	2.6	2.0	2.6	IBExU09ATEXB006	2.82	1170
(IE1-)K11R 315 L2 Ex nA IIC T3	250	803	2973	IE1- 94.1	93.2	93.0	0.93	412	7.3	2.1	1.4	2.0	IBExU09ATEXB006	3.66	1460
(IE1-)K11R 315 LX2 Ex nA IIC T3	315	1010	2980	IE1- 94.5	94.5	92.8	0.92	523	8.6	2.7	1.7	2.4	IBExU09ATEXB006	4.43	1630
(IE1-)K12R 355 MY2G Ex nA IIC T3	315	1007	2988	IE1- 94.5	94.3	93.7	0.88	547	8.6	1.3	1.0	3.0	IBExU09ATEXB006	4.10	1900
(IE1-)K12R 355 M2G Ex nA IIC T3	355	1138	2980	IE1- 94.3	94.3	93.8	0.91	597	7.3	1.3	1.0	2.3	IBExU09ATEXB006	4.20	2000
(IE1-)K12R 355 MX2G Ex nA IIC T3	400	1280	2985	IE1- 94.6	94.5	93.8	0.90	678	8.5	1.9	1.3	3.2	IBExU09ATEXB006	5.50	2200
(IE1-)K12R 355 L2G Ex nA IIC T3	450	1441	2983	IE1- 94.7	94.5	93.8	0.92	746	7.2	1.3	1.0	2.4	IBExU09ATEXB006	7.10	2400

Progressive series KPR/K10R possible upon request

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1
Type of explosion protection „n“ (Increased safety „ec“)
for operation in Zone 2 according to EN 60079-15 (EN 60079-7)



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version															
(IE1-)KPEO 56 K4 Ex nA IIC T3	0.06	0.41	1410	IE1- 60.1	56.5	49.6	0.60	0.24	3.1	2.3	2.3	2.7		0.00019	4.3
(IE1-)KPER 56 G4 Ex nA IIC T3	0.09	0.63	1375	IE1- 61.6	58.7	53.0	0.68	0.31	3.2	1.9	1.9	2.2		0.00019	4.4
(IE1-)KPER 63 K4 Ex nA IIC T3	0.12	0.84	1370	IE1- 57.9	51.2	42.2	0.68	0.44	3.2	1.9	1.8	2.2		0.00019	4.8
(IE1-)KPER 63 G4 Ex nA IIC T3	0.18	1.26	1360	IE1- 60.6	57.5	49.4	0.66	0.65	3.3	2.0	2.0	2.3		0.00024	5.2
(IE1-)KPER 71 K4 Ex nA IIC T3	0.25	1.72	1385	IE1- 64.3	63.2	58.2	0.72	0.78	3.6	1.8	1.8	2.1		0.00040	6.8
(IE1-)KPER 71 G4 Ex nA IIC T3	0.37	2.58	1370	IE1- 68.1	66.7	62.0	0.74	1.06	3.8	2.0	2.0	2.2		0.00050	7.8
(IE1-)KPER 80 K4 Ex nA IIC T3	0.55	3.75	1400	IE1- 71.9	70.7	64.1	0.69	1.6	4.1	2.1	2.0	2.3		0.00087	10.6
(IE1-)KPER 80 G4 Ex nA IIC T3	0.75	5.12	1400	IE1- 73.6	72.2	66.8	0.70	2.1	4.6	2.2	2.1	2.3		0.00107	11.7
(IE1-)KPER 90 S4 Ex nA IIC T3	1.1	7.45	1410	IE1- 76.7	76.8	73.6	0.79	2.62	5.5	2.3	2.2	2.5		0.00207	15.5
(IE1-)KPER 90 L4 Ex nA IIC T3	1.5	10.2	1400	IE1- 78.6	79.1	76.9	0.81	3.4	5.5	2.5	2.4	2.6		0.00260	18.0
(IE1-)KPER 100 L4 Ex nA IIC T3	2.2	14.9	1410	IE1- 80.2	80.7	79.5	0.80	4.95	6.0	2.5	2.3	2.7		0.00400	23.5
(IE1-)KPER 100 LX4 Ex nA IIC T3	3.0	20	1430	IE1- 82.4	82.8	80.8	0.79	6.65	6.5	2.5	2.2	2.9		0.00725	30
(IE1-)KPER 112 M4 Ex nA IIC T3	4.0	26.6	1435	IE1- 84.1	85.1	83.6	0.78	8.8	6.9	2.6	2.5	3.2		0.009	37
(IE1-)KPER 112 MX4 Ex nA IIC T3	5.5	36.9	1425	IE1- 85.2	86.5	85.8	0.79	11.8	6.3	2.5	2.4	2.9		0.011	47
(IE1-)KPER 132 S4T Ex nA IIC T3	5.5	36.9	1425	IE1- 85.2	86.5	85.8	0.79	11.8	6.3	2.5	2.4	2.9		0.011	47
(IE1-)K11R 132 S4 Ex nA IIC T3	5.5	36	1440	IE1- 84.9	84.9	83.4	0.89	10.5	6.5	1.9	1.7	3.0	IBExU09ATEXB006	0.015	51
(IE1-)K11R 132 M4 Ex nA IIC T3	7.5	49	1450	IE1- 86.5	85.5	84.0	0.84	15	6.0	2.0	1.7	2.9	IBExU09ATEXB006	0.028	73
(IE1-)K11R 160 M4 Ex nA IIC T3	11.0	72	1450	IE1- 88.0	87.6	85.6	0.85	21	6.8	2.2	1.9	3.3	IBExU09ATEXB006	0.035	92
(IE1-)K11R 160 L4 Ex nA IIC T3	15.0	98	1465	IE1- 88.7	88.3	85.8	0.86	28.5	7.3	2.5	2.0	3.0	IBExU09ATEXB006	0.078	132
(IE1-)K11R 180 M4 Ex nA IIC T3	18.5	121	1460	IE1- 89.3	88.8	86.8	0.86	35	6.8	2.5	2.0	2.9	IBExU09ATEXB006	0.090	145
(IE1-)K11R 180 L4 Ex nA IIC T3	22	143	1465	IE1- 89.9	89.9	88.4	0.84	42	6.5	2.0	1.8	2.6	IBExU09ATEXB006	0.138	185
(IE1-)K11R 200 L4 Ex nA IIC T3	30	196	1465	IE1- 90.7	90.2	89.2	0.85	56	7.0	2.0	1.7	2.4	IBExU09ATEXB006	0.168	211
(IE1-)K11R 225 S4 Ex nA IIC T3	37	240	1470	IE1- 91.2	90.2	89.2	0.86	68	7.0	2.0	1.7	2.5	IBExU09ATEXB006	0.275	282
(IE1-)K11R 225 M4 Ex nA IIC T3	45	292	1470	IE1- 91.7	91.2	89.7	0.86	82.5	7.0	2.0	1.7	2.5	IBExU09ATEXB006	0.313	323
(IE1-)K11R 250 M4 Ex nA IIC T3	55	356	1475	IE1- 92.3	91.8	90.8	0.86	100	7.0	2.2	1.7	2.3	IBExU09ATEXB006	0.525	394
(IE1-)K11R 280 S4 Ex nA IIC T3	75	484	1480	IE1- 92.7	92.1	90.6	0.86	136	7.0	2.0	1.7	2.2	IBExU09ATEXB006	0.950	540
(IE1-)K11R 280 M4 Ex nA IIC T3	90	581	1480	IE1- 93.3	92.2	89.7	0.86	162	7.0	2.1	1.6	2.2	IBExU09ATEXB006	1.10	610
(IE1-)K11R 315 S4 Ex nA IIC T3	110	707	1485	IE1- 93.5	92.9	91.4	0.86	197	7.5	1.8	1.6	2.2	IBExU09ATEXB006	1.96	740
(IE1-)K11R 315 M4 Ex nA IIC T3	132	849	1485	IE1- 93.5	92.9	91.9	0.86	237	7.0	1.8	1.5	2.2	IBExU09ATEXB006	2.27	840
(IE1-)K11R 315 MX4 Ex nA IIC T3	160	1032	1480	IE1- 93.8	93.6	92.8	0.87	283	7.0	1.8	1.5	2.0	IBExU09ATEXB006	2.73	1000
(IE1-)K11R 315 MY4 Ex nA IIC T3	200	1286	1485	IE1- 94.3	93.3	92.8	0.88	348	7.5	2.0	1.8	2.4	IBExU09ATEXB006	4.82	1200
(IE1-)K11R 315 L4 Ex nA IIC T3	250	1608	1485	IE1- 94.3	93.2	92.7	0.90	425	8.0	2.0	1.6	2.3	IBExU09ATEXB006	5.93	1510
(IE1-)K11R 315 LX4 Ex nA IIC T3	315	2019	1490	IE1- 94.5	93.5	93.2	0.88	547	8.6	1.9	1.5	2.5	IBExU09ATEXB006	6.82	1630
(IE1-)K12R 355 MY4 Ex nA IIC T3	315	2016	1492	IE1- 94.0	93.9	92.4	0.85	569	7.1	1.4	1.0	2.9	IBExU09ATEXB006	5.60	1950
(IE1-)K12R 355 M4 Ex nA IIC T3	355	2275	1490	IE1- 94.5	94.2	93.2	0.84	646	8.1	1.8	1.0	3.1	IBExU09ATEXB006	7.9	2150
(IE1-)K12R 355 MX4 Ex nA IIC T3	400	2557	1494	IE1- 94.5	94.4	93.7	0.84	727	8.6	1.3	1.0	3.0	IBExU09ATEXB006	9.5	2400
(IE1-)K12R 355 L4 Ex nA IIC T3	450	2884	1490	IE1- 94.5	94.4	93.7	0.82	838	8.0	1.2	1.0	3.0	IBExU09ATEXB006	10.0	2500

Progressive series KPR/K10R possible upon request

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1 Type of explosion protection „n“ (Increased safety „ec“) for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

II 3G Ex nA IIC T3 Gc

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version															
(IE1-)KPER 63 K6 Ex nA IIC T3	0.09	0.96	895	IE1- 50.4	46.2	38.4	0.56	0.46	2.5	2.0	2.0	2.4		0.00024	4.9
(IE1-)KPER 63 G6 Ex nA IIC T3	0.12	1.3	880	IE1- 52.4	50.1	43.2	0.56	0.59	2.5	2.0	2.0	2.3		0.00027	5.7
(IE1-)KPER 71 K6 Ex nA IIC T3	0.18	1.86	925	IE1- 57.9	53.9	45.4	0.51	0.88	2.8	1.6	1.6	2.1		0.00045	7.4
(IE1-)KPER 71 G6 Ex nA IIC T3	0.25	2.61	915	IE1- 59.6	57.5	49.5	0.55	1.1	2.9	2.0	2.0	2.2		0.00060	8.3
(IE1-)KPER 80 K6 Ex nA IIC T3	0.37	3.86	915	IE1- 66.3	64.5	57.1	0.66	1.22	3.4	2.0	2.0	2.0		0.00130	11.0
(IE1-)KPER 80 G6 Ex nA IIC T3	0.55	5.74	915	IE1- 68.5	67.0	60.7	0.67	1.73	3.7	2.2	2.2	2.4		0.00175	12.5
(IE1-)KPER 90 S6 Ex nA IIC T3	0.75	7.66	935	IE1- 70.5	68.8	63.2	0.64	2.4	4.5	2.4	2.4	2.6		0.00325	16.0
(IE1-)KPER 90 L6 Ex nA IIC T3	1.1	11.24	935	IE1- 73.4	73.0	68.4	0.68	3.18	4.6	2.2	2.2	2.6		0.00425	19.0
(IE1-)KPER 100 L6 Ex nA IIC T3	1.5	15.16	945	IE1- 76.0	75.2	71.1	0.73	3.9	4.6	2.1	2.0	2.4		0.00625	24.0
(IE1-)KPER 112 M6 Ex nA IIC T3	2.2	22.12	950	IE1- 78.1	78.8	75.8	0.76	5.35	5.3	2.2	2.1	2.7		0.01225	33.5
(IE1-)KPER 132 S6T Ex nA IIC T3	3.0	30.6	935	IE1- 81.9	82.8	81.4	0.75	7.05	5.2	2.5	2.5	2.9		0.0139	39.0
(IE1-)K11R 132 S6 Ex nA IIC T3	3.0	30	955	IE1- 79.7	79.7	76.2	0.82	6.6	5.7	1.8	1.6	2.7	IBExU09ATEXB006	0.0180	46
(IE1-)K11R 132 M6 Ex nA IIC T3	4.0	40	955	IE1- 81.4	80.4	75.4	0.80	8.9	6.0	2.2	2.0	3.1	IBExU09ATEXB006	0.0230	56
(IE1-)K11R 132 MX6 Ex nA IIC T3	5.5	55	955	IE1- 83.3	83.3	81.3	0.83	11.5	5.0	1.8	1.5	2.3	IBExU09ATEXB006	0.0430	72
(IE1-)K11R 160 M6 Ex nA IIC T3	7.5	75	960	IE1- 85.0	84.0	80.0	0.82	15.5	5.5	2.0	1.6	2.5	IBExU09ATEXB006	0.0530	91
(IE1-)K11R 160 L6 Ex nA IIC T3	11.0	109	965	IE1- 86.4	86.2	84.2	0.86	21.5	5.0	2.0	1.7	2.3	IBExU09ATEXB006	0.1130	122
(IE1-)K11R 180 L6 Ex nA IIC T3	15.0	148	965	IE1- 87.7	86.7	83.7	0.83	29.5	6.0	2.4	2.1	2.7	IBExU09ATEXB006	0.1450	142
(IE1-)K11R 200 L6 Ex nA IIC T3	18.5	182	970	IE1- 88.6	88.5	86.5	0.87	34.5	5.5	2.0	1.7	2.4	IBExU09ATEXB006	0.2280	190
(IE1-)K11R 200 LX6 Ex nA IIC T3	22	217	970	IE1- 89.2	88.9	86.4	0.87	41	6.2	2.2	1.8	2.6	IBExU09ATEXB006	0.2680	208
(IE1-)K11R 225 M6 Ex nA IIC T3	30	295	973	IE1- 90.2	89.8	87.8	0.89	54	6.5	2.2	1.7	2.5	IBExU09ATEXB006	0.4430	284
(IE1-)K11R 250 M6 Ex nA IIC T3	37	362	975	IE1- 90.8	90.6	87.8	0.89	66	6.5	2.2	1.7	2.3	IBExU09ATEXB006	0.8250	376
(IE1-)K11R 280 S6 Ex nA IIC T3	45	439	980	IE1- 91.4	91.4	89.4	0.87	81.5	6.0	2.0	1.5	2.0	IBExU09ATEXB006	1.28	465
(IE1-)K11R 280 M6 Ex nA IIC T3	55	536	980	IE1- 91.9	91.4	89.4	0.88	98	6.5	2.3	1.7	2.4	IBExU09ATEXB006	1.48	575
(IE1-)K11R 315 S6 Ex nA IIC T3	75	727	985	IE1- 92.7	92.0	91.0	0.87	134	7.0	2.0	1.6	2.4	IBExU09ATEXB006	2.63	690
(IE1-)K11R 315 M6 Ex nA IIC T3	90	868	990	IE1- 93.4	92.5	91.0	0.88	158	7.0	2.0	1.7	2.4	IBExU09ATEXB006	3.33	800
(IE1-)K11R 315 MX6 Ex nA IIC T3	110	1061	990	IE1- 93.3	93.1	91.6	0.88	193	7.5	2.2	1.7	2.6	IBExU09ATEXB006	3.60	880
(IE1-)K11R 315 MY6 Ex nA IIC T3	132	1273	990	IE1- 94.0	93.7	92.5	0.88	230	7.5	2.0	1.7	2.4	IBExU09ATEXB006	6.00	1050
(IE1-)K11R 315 L6 Ex nA IIC T3	160	1551	985	IE1- 94.3	94.0	92.8	0.89	275	7.5	2.3	1.9	2.4	IBExU09ATEXB006	6.67	1250
(IE1-)K11R 315 LX6 Ex nA IIC T3	180	1735	990	IE1- 94.0	94.1	95.3	0.86	321	8.5	2.5	1.6	2.6	IBExU09ATEXB006	8.6	1460
(IE1-)K12R 355 MY6 Ex nA IIC T3	200	1920	995	IE1- 94.4	94.3	93.8	0.83	368	7.0	1.5	1.3	2.4	IBExU09ATEXB006	8.1	1550
(IE1-)K12R 355 M6 Ex nA IIC T3	250	2402	994	IE1- 94.5	94.2	93.3	0.81	471	7.0	1.8	1.3	2.3	IBExU09ATEXB006	8.2	1850
(IE1-)K12R 355 MX6 Ex nA IIC T3	315	3023	995	IE1- 94.5	94.5	93.8	0.83	580	6.8	1.6	1.3	2.5	IBExU09ATEXB006	12.1	2200
(IE1-)K12R 355 LY6 Ex nA IIC T3	355	3407	995	IE1- 94.4	94.2	92.4	0.78	696	7.4	1.9	1.4	2.6	IBExU09ATEXB006	14.0	2400

Progressive series KPR/K10R possible upon request
Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1
Type of explosion protection „n“ (Increased safety „ec“)
for operation in Zone 2 according to EN 60079-15 (EN 60079-7)



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	1.0	0.8	0.5	-	A	-	-	-	-		kgm ²	kg
Synchronous speed 750 rpm – 8-pole version															
(IE1-)KPER 71 K8 Ex nA IIC T3	0.09	1.27	675	IE1- 45.5	42.1	34.8	0.51	0.56	2.1	1.9	1.9	2.1		0.00050	6.6
(IE1-)KPER 71 G8 Ex nA IIC T3	0.12	1.71	670	IE1- 46.5	42.1	33.7	0.51	0.73	2.3	1.8	1.8	2.1		0.00060	8.1
(IE1-)KPER 80 K8 Ex nA IIC T3	0.18	2.49	690	IE1- 56.5	53.4	45.0	0.59	0.78	2.8	2.0	2.0	2.2		0.00130	10.5
(IE1-)KPER 80 G8 Ex nA IIC T3	0.25	3.44	695	IE1- 57.5	54.1	46.1	0.56	1.12	3.0	2.3	2.3	2.5		0.00175	12.0
(IE1-)KPER 90 S8 Ex nA IIC T3	0.37	5.05	700	IE1- 61.8	59.7	52.8	0.54	1.60	3.0	1.9	1.9	2.1		0.00300	15.0
(IE1-)KPER 90 L8 Ex nA IIC T3	0.55	7.56	695	IE1- 64.8	62.5	55.8	0.60	2.04	3.2	1.9	1.9	2.2		0.00375	18.0
(IE1-)KPER 100 L8 Ex nA IIC T3	0.75	10.2	705	IE1- 66.8	64.7	57.9	0.60	2.70	3.3	1.8	1.8	2.2		0.00625	23.0
(IE1-)KPER 100 LX8 Ex nA IIC T3	1.1	14.9	705	IE1- 72.9	73.3	69.6	0.67	3.25	4.0	2.0	2.0	2.4		0.00900	28.0
(IE1-)KPER 112 M8 Ex nA IIC T3	1.5	20.3	705	IE1- 75.4	75.7	72.4	0.70	4.10	4.4	2.2	2.1	2.5		0.01225	33.5
(IE1-)KPER 132 S8T Ex nA IIC T3	2.2	31	685	IE1- 74.1	74.8	72.4	0.68	6.30	3.8	2.0	1.9	2.3		0.01390	39.0
(IE1-)K11R 132 S8 Ex nA IIC T3	2.2	30	705	IE1- 75.5	75.0	72.0	0.76	5.5	4.5	1.7	1.6	2.3	IBExU09ATEXB006	0.01800	46
(IE1-)K11R 132 M8 Ex nA IIC T3	3.0	41	705	IE1- 78.0	78.0	75.0	0.75	7.4	4.5	1.7	1.6	2.3	IBExU09ATEXB006	0.0230	53
(IE1-)K11R 160 M8 Ex nA IIC T3	4.0	54	710	IE1- 79.3	79.0	77.0	0.78	9.3	4.0	1.6	1.3	1.9	IBExU09ATEXB006	0.0430	70
(IE1-)K11R 160 MX8 Ex nA IIC T3	5.5	74	710	IE1- 81.4	81.0	78.0	0.78	12.5	4.5	1.7	1.6	2.1	IBExU09ATEXB006	0.0530	86
(IE1-)K11R 160 L8 Ex nA IIC T3	7.5	99	725	IE1- 83.0	83.0	79.0	0.78	16.5	4.5	1.8	1.6	2.1	IBExU09ATEXB006	0.1130	114
(IE1-)K11R 180 L8 Ex nA IIC T3	11.0	146	720	IE1- 85.0	84.0	81.5	0.78	24	4.5	2.0	1.7	2.1	IBExU09ATEXB006	0.1450	136
(IE1-)K11R 200 L8 Ex nA IIC T3	15.0	198	725	IE1- 86.5	86.0	83.0	0.79	31.5	5.0	2.0	1.7	2.3	IBExU09ATEXB006	0.228	175
(IE1-)K11R 225 S8 Ex nA IIC T3	18.5	244	725	IE1- 89.2	88.0	86.0	0.83	36	5.5	2.0	1.6	2.2	IBExU09ATEXB006	0.440	265
(IE1-)K11R 225 M8 Ex nA IIC T3	22	290	725	IE1- 89.2	89.0	88.5	0.84	42.5	5.0	1.8	1.5	2.2	IBExU09ATEXB006	0.440	265
(IE1-)K11R 250 M8 Ex nA IIC T3	30	393	730	IE1- 89.7	89.5	86.5	0.79	61	5.5	2.2	1.8	2.2	IBExU09ATEXB006	0.825	360
(IE1-)K11R 280 S8 Ex nA IIC T3	37	481	735	IE1- 90.5	90.0	87.5	0.80	74	5.5	2.0	1.5	2.0	IBExU09ATEXB006	1.35	465
(IE1-)K11R 280 M8 Ex nA IIC T3	45	585	735	IE1- 91.0	90.5	88.0	0.77	92.5	6.0	2.3	1.8	2.4	IBExU09ATEXB006	1.55	520
(IE1-)K11R 315 S8 Ex nA IIC T3	55	710	740	IE1- 92.1	91.0	89.5	0.80	108	6.5	1.8	1.6	2.3	IBExU09ATEXB006	2.63	690
(IE1-)K11R 315 M8 Ex nA IIC T3	75	968	740	IE1- 92.3	92.0	90.5	0.81	145	6.0	2.0	1.6	2.3	IBExU09ATEXB006	3.33	800
(IE1-)K11R 315 MX8 Ex nA IIC T3	90	1162	740	IE1- 92.5	92.0	90.5	0.81	173	6.0	1.9	1.6	2.2	IBExU09ATEXB006	3.60	880
(IE1-)K11R 315 MY8 Ex nA IIC T3	110	1420	740	IE1- 93.6	93.0	91.0	0.81	209	6.5	2.1	1.8	2.4	IBExU09ATEXB006	6.00	1100
(IE1-)K11R 315 L8 Ex nA IIC T3	132	1704	740	IE1- 94.0	93.3	91.0	0.83	244	6.3	2.0	1.7	2.1	IBExU09ATEXB006	6.76	1250
(IE1-)K11R 315 LX8 Ex nA IIC T3	160	2065	740	IE1- 94.2	93.5	91.0	0.79	310	7.2	2.2	1.9	2.5	IBExU09ATEXB006	8.71	1430
(IE1-)K12R 355 MY8 Ex nA IIC T3	160	2054	744	IE1- 93.5	93.3	92.5	0.80	309	6.8	1.3	1.0	2.5	IBExU09ATEXB006	9.3	1700
(IE1-)K12R 355 M8 Ex nA IIC T3	200	2571	743	IE1- 93.9	93.6	92.8	0.77	399	6.5	1.6	1.0	2.7	IBExU09ATEXB006	9.5	1850
(IE1-)K12R 355 MX8 Ex nA IIC T3	250	3209	744	IE1- 94.1	93.9	92.8	0.78	492	6.6	1.3	1.0	2.8	IBExU09ATEXB006	13.4	2200
(IE1-)K12R 355 LY8 Ex nA IIC T3	280	3594	744	IE1- 93.6	93.4	92.3	0.78	554	8.2	1.2	1.0	2.8	IBExU09ATEXB006	15.8	2400

Progressive series KPR/K10R possible upon request

Optionally in dust-protected version, protection type: Protection by enclosure "tc" to EN 60079-31, double marking on rating plate.

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3 Type of explosion protection – Protection by enclosure „tb“ for operation in Zone 21 according to EN 60079-31

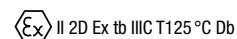
Ex II 2D Ex tb IIC T125 °C Db

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version															
IE3-KPER 63 G2 Ex II 2D	0.18	0.6	2750	IE3- 65.9	65.7	63.6	0.86	0.5	4.2	2.1	1.9	2.2	IBExU02ATEX1110/26	0.00015	5.2
IE3-KPR 63 KY2 Ex II 2D	0.25	0.7	2850	IE3- 69.7	67.7	61.6	0.78	0.7	5.2	2.5	2.5	2.9	IBExU02ATEX1110/23	0.00025	6.3
IE3-KPER 71 G2 Ex II 2D	0.37	1.2	2840	IE3- 73.8	72.7	69.3	0.82	0.9	6.0	2.7	2.7	3	IBExU02ATEX1111/09	0.00032	7.6
IE3-KPER 80 K2 Ex II 2D	0.55	1.8	2850	IE3- 77.8	76.8	76.0	0.82	1.2	6.5	3	3	2.7	IBExU02ATEX1112/01	0.00057	10.7
IE3-KPR 80 K2 Ex II 2D	0.75	2.5	2870	IE3- 80.7	81.7	81.2	0.88	1.6	6.8	2.6	2.9	2.5	IBExU02ATEX1112/51	0.00132	15
IE3-KPR 80 G2 Ex II 2D	1.1	3.7	2870	IE3- 82.7	83.7	82.8	0.89	2.3	7.3	3	3.2	2.7	IBExU02ATEX1112/50	0.0017	18
IE3-KPR 90 S2 Ex II 2D	1.3	4.3	2870	IE3- 83.5	84.5	84.5	0.91	2.6	6.1	1.8	2.5	1.7	IBExU02ATEX1113/41	0.00275	23.5
IE3-KPR 90 L2 Ex II 2D	1.85	6.1	2880	IE3- 85.1	86.1	85.6	0.92	3.6	7.2	2.3	3.1	2	IBExU02ATEX1113/45	0.00333	29
IE3-KPR 100 L2 Ex II 2D	2.5	8.2	2910	IE3- 86.4	87.1	84.9	0.89	4.9	6.8	1.7	2.7	1.6	IBExU02ATEX1114/36	0.0045	31
IE3-KPER 112 MX2 Ex II 2D	3.3	10.8	2910	IE3- 87.4	88.0	87.4	0.88	6.5	7.8	1.7	3.3	1.7	IBExU02ATEX1115/41	0.0055	38
IE3-W41R 112 M2 Ex II 2D	4	13.0	2930	IE3- 89.2	89.2	87.9	0.87	7.4	6.9	1.5	1.2	2.9		0.011	60
IE3-W41R 132 S2 Ex II 2D	5.5	18.0	2930	IE3- 89.2	88.6	87.0	0.84	10.5	7.7	1.9	1.3	3.5	IBExU04ATEX1118	0.011	65
IE3-W41R 132 SX2 Ex II 2D	7.5	24.0	2925	IE3- 90.1	89.4	87.9	0.87	14.0	8.0	2.5	2.1	3.3	IBExU04ATEX1118	0.0168	75
IE3-W41R 160 M2 Ex II 2D	11	36.0	2950	IE3- 91.4	91.7	90.5	0.90	19.5	8.0	2.2	1.8	3.2	IBExU04ATEX1118	0.0575	125
IE3-W41R 160 MX2 Ex II 2D	15	49.0	2950	IE3- 91.9	92.0	91.3	0.91	26.0	7.9	2.2	1.7	3.1	IBExU04ATEX1118	0.0675	145
IE3-W41R 160 L2 Ex II 2D	18.5	60.0	2960	IE3- 92.4	92.5	91.4	0.90	32.0	9.2	2.6	2.1	3.6	IBExU04ATEX1118	0.078	160
IE3-W41R 180 M2C Ex II 2D	22	71	2975	IE3- 92.7	92.6	91.5	0.91	37.5	8.9	1.9	1.4	3.3	IBExU04ATEX1118	0.1717	214
IE3-W41R 200 L2 Ex II 2D	30	97	2965	IE3- 93.3	92.2	90.6	0.88	52.5	8.6	2.1	1.6	3.3	IBExU04ATEX1118	0.36	305
IE3-W41R 200 LX2C Ex II 2D	37	119	2980	IE3- 93.7	92.9	91.7	0.89	64.0	8.7	1.7	1.3	3.2	IBExU04ATEX1118	0.4757	310
IE3-W41R 225 M2 Ex II 2D	45	145	2960	IE3- 94.0	93.7	93.0	0.89	77.5	8.8	2.3	1.9	3.2	IBExU04ATEX1118	0.375	375
IE3-W41R 250 M2 Ex II 2D	55	177	2970	IE3- 94.6	94.4	93.6	0.91	92	8.9	2.2	1.9	3.2	IBExU04ATEX1118	0.65	510
IE3-W41R 280 S2 Ex II 2D	75	241	2967	IE3- 94.7	94.5	93.9	0.89	128	8.1	1.9	1.9	2.8	IBExU04ATEX1118	0.65	500
IE3-W41R 280 M2 Ex II 2D	90	289	2970	IE3- 95.0	94.5	94.0	0.90	152	8.4	2.2		3.1	IBExU04ATEX1118	0.675	545
IE3-W41R 315 S2 Ex II 2D	110	354	2970	IE3- 95.2	94.5	93.5	0.89	187	10.0	1.9	1.7	3.0	IBExU04ATEX1118	1.21	750
IE3-W41R 315 M2 Ex II 2D	132	423	2980	IE3- 95.4	95.0	94.5	0.89	224	10.0	2.0	1.8	3.0	IBExU04ATEX1118	1.44	815
IE3-W41R 315 MX2 Ex II 2D	160	513	2980	IE3- 95.7	95.7	95.0	0.9	268	8.5	2.3	1.7	2.6	IBExU04ATEX1118	2.37	1095
IE3-W41R 315 MY2 Ex II 2D	200	641	2980	IE3- 95.8	95.9	95.5	0.91	331	8.3	2.6	1.6	2.4	IBExU04ATEX1118	2.82	1200
IE3-W41R 315 L2 Ex II 2D	250	800	2985	IE3- 96.0	96.0	95.9	0.92	409	8.4	2.5	1.4	2.3	IBExU04ATEX1118	3.66	1460
IE3-W41R 315 LX2 Ex II 2D	315	1008	2985	IE3- 95.8	95.8	95.8	0.92	516	8.5	2.8	1.6	2.5	IBExU04ATEX1118	4.43	1700
IE3-W41R 355 M2G Ex II 2D	355	1136	2985	IE3- 96.0	96.0	96.0	0.92	580	7.7	1.9	1.5	3.8	IBExU04ATEX1118	4.20	2000
IE3-W42R 355 MX2G Ex II 2D	400	1278	2990	IE3- 95.8	95.8	95.3	0.91	665	8.5	1.5	1.2	2.5		5.50	2200
IE3-W42R 355 L2G Ex II 2D	500	1597	2990	IE3- 95.8	95.8	95.3	0.90	840	9.0	2.0	1.3	3.0		7.10	2445
IE3-W42R 400 M2G Ex nA IIC T3	530	1690	2990	IE3- 95.8	95.4	95.0	0.84	950	8.5	1.7	1.1	2.2		8.44	3060
IE3-W42R 400 MX2G Ex nA IIC T3	570	1820	2990	IE3- 95.8	95.8	95.3	0.90	955	8.1	2.0	1.4	2.2		9.41	3200
IE3-W42R 400 L2G Ex nA IIC T3	650	2075	2990	IE3- 96.1	96.0	95.4	0.90	1085	8.1	2.2	1.2	2.4		10.41	3400

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3
Type of explosion protection – Protection by enclosure „tb“
for operation in Zone 21 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1) 100 % 75 % 50 %			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version															
IE3-KPER 63 G4 Ex II 2D	0.12	0.85	1355	IE3- 64.8	65.2	62.3	0.75	0.4	3.3	1.9	1.9	2.1	IBExU02ATEX1110/14	0.00024	5.2
IE3-KPR 63 G4 Ex II 2D	0.18	1.22	1405	IE3- 69.9	68.0	62.2	0.70	0.6	4.1	2.1	2.1	2.6	IBExU02ATEX1110/29	0.0005	7.1
IE3-KPR 71 G4 Ex II 2D	0.37	2.45	1440	IE3- 77.3	77.6	75.0	0.69	1.0	5.8	2.9	2.9	3.3	IBExU02ATEX1111/39	0.0005	7.8
IE3-KPR 80 GX4 Ex II 2D	0.75	4.96	1445	IE3- 82.5	81.9	79.0	0.74	1.8	7.3	3.4	4.2	3.4	IBExU02ATEX1112/59	0.0028	17.5
IE3-KPR 90 S4 Ex II 2D	1	6.59	1450	IE3- 83.7	83.3	80.6	0.80	2.3	7.8	3.3	4.0	3.1	IBExU02ATEX1113/46	0.0045	28
IE3-KPR 90 LX4 Ex II 2D	1.35	8.98	1435	IE3- 84.9	85.0	83.4	0.84	2.9	7.2	3.3	3.6	2.8	IBExU02ATEX1113/47	0.0058	31
IE3-KPR 100 L4 Ex II 2D	2	13.22	1445	IE3- 86.3	86.7	85.4	0.81	4.3	7.5	3.3	3.8	3.0	IBExU02ATEX1114/45	0.011	45
IE3-KPR 100 LZ4 Ex II 2D	2.5	16.52	1445	IE3- 87.1	87.6	86.4	0.83	5.2	7.6	2.9	3.7	2.7	IBExU02ATEX1114/44	0.013	50
IE3-W41R 112 M4 Ex II 2D	4	26	1470	IE3- 89.9	89.8	88.4	0.83	7.7	9.5	2.8	2.4	4.5		0.02	65
IE3-W41R 132 S4 Ex II 2D	5.5	35	1480	IE3- 91.0	90.2	87.8	0.73	12.0	9.9	3.4	2.8	5.4	IBExU04ATEX1118	0.035	90
IE3-W41R 132 M4 Ex II 2D	7.5	49	1475	IE3- 91.3	91.3	90.1	0.83	14.5	8.6	2.4	2.0	3.9	IBExU04ATEX1118	0.043	100
IE3-W41R 160 M4 Ex II 2D	11	71	1475	IE3- 91.4	91.5	90.5	0.83	21.0	7.5	2.5	2.0	3.2	IBExU04ATEX1118	0.078	125
IE3-W41R 160 L4C Ex II 2D	15	96	1490	IE3- 92.8	92.5	91.0	0.83	28.0	10.5	2.8	2.4	3.9	IBExU04ATEX1118	0.1567	175
IE3-W41R 180 M4 Ex II 2D	18.5	120	1475	IE3- 92.7	92.9	92.0	0.84	34.5	6.9	1.9	1.7	3.0	IBExU04ATEX1118	0.168	210
IE3-W41R 180 L4 Ex II 2D	22	142	1480	IE3- 93.0	93.0	92.1	0.84	40.5	7.6	2.2	2.0	3.2	IBExU04ATEX1118	0.203	240
IE3-W41R 200 L4C Ex II 2D	30	193	1485	IE3- 93.6	92.4	92.4	0.85	54.5	7.0	1.6	1.4	2.6	IBExU04ATEX1118	0.411	327
IE3-W41R 225 S4C Ex II 2D	37	237	1490	IE3- 93.9	93.8	93.2	0.85	67.0	7.4	1.9	1.4	2.7	IBExU04ATEX1118	0.4675	367
IE3-W41R 225 M4 Ex II 2D	45	290	1482	IE3- 94.2	94.3	94.0	0.82	84	8.1	2.6	2.1	2.6	IBExU04ATEX1118	0.619	450
IE3-W41R 250 M4 Ex II 2D	55	354	1485	IE3- 94.7	94.8	94.4	0.83	101	8.1	2.1	1.8	2.5	IBExU04ATEX1118	0.95	550
IE3-W41R 280 S4 Ex II 2D	75	482	1485	IE3- 95.0	94.6	94.2	0.83	137	8.2	2.1	1.8	2.5	IBExU04ATEX1118	1.1	617
IE3-W41R 280 M4 Ex II 2D	90	578	1487	IE3- 95.2	94.7	94.0	0.83	164	9.2	2.1	1.9	2.7	IBExU04ATEX1118	1.96	785
IE3-W41R 315 S4 Ex II 2D	110	706	1487	IE3- 95.4	95.0	94.3	0.82	203	9.5	1.9	1.7	2.7	IBExU04ATEX1118	1.96	760
IE3-W41R 315 M4 Ex II 2D	132	849	1485	IE3- 95.6	95.4	95.0	0.83	240	9.0	2.2	1.9	2.7	IBExU04ATEX1118	2.27	850
IE3-W41R 315 MX4 Ex II 2D	160	1026	1490	IE3- 95.8	95.8	95.0	0.84	287	9.5	2.1	2.0	3.2	IBExU04ATEX1118	4.01	1120
IE3-W41R 315 MY4 Ex II 2D	200	1282	1490	IE3- 96.0	95.8	95.5	0.87	346	9.5	2.1	1.7	2.7	IBExU04ATEX1118	4.82	1250
IE3-W41R 315 L4 Ex II 2D	250	1602	1490	IE3- 96.2	96.2	96.0	0.87	431	9.4	2.2	1.8	2.7	IBExU04ATEX1118	5.93	1450
IE3-W41R 315 LX4 Ex II 2D	315	2019	1490	IE3- 96.0	96.0	96.0	0.87	544	9.5	2.3	1.7	2.9	IBExU04ATEX1118	6.82	1630
IE3-W41R 355 M4 Ex II 2D	355	2271	1493	IE3- 96.2	96.2	95.5	0.87	612	8.1	1.3	1.0	2.7	IBExU04ATEX1118	7.90	2150
IE3-W42R 355 MX4 Ex II 2D	400	2557	1494	IE3- 96.0	96.0	95.5	0.84	719	8.0	1.7	1.4	2.4		9.50	2400
IE3-W42R 355 L4 Ex II 2D	500	3205	1490	IE3- 96.0	96.0	95.5	0.84	899	7.2	1.6	1.2	2.2		10.00	2500
IE3-W42R 400 M4 Ex II 2D	560	3582	1493	IE3- 96.0	96.0	95.5	0.84	1006	9.0	3.4	2.9	3.9		12.60	2900
IE3-W42R 400 MX4 Ex II 2D	630	4030	1493	IE3- 96.0	96.0	95.5	0.85	1119	9.0	3.6	3.0	4.2		14.33	3100
IE3-W42R 400 L4 Ex II 2D	710	4542	1493	IE3- 96.0	96.0	95.5	0.85	1261	9.0	3.9	3.1	4.2		16.29	3450

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3 Type of explosion protection – Protection by enclosure „tb“ for operation in Zone 21 according to EN 60079-31

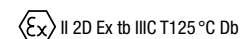
Ex II 2D Ex tb III C T125 °C Db

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version															
IE3-KPR 80 G6 Ex II 2D	0.55	5.6	945	IE3- 77.2	77.5	75.0	0.70	1.5	4.2	2.2	2.4	2.2	IBExU02ATEX1112/53	0.00425	18
IE3-KPR 90 L6 Ex II 2D	0.95	9.5	960	IE3- 80.2	78.6	74.7	0.67	2.7	5.6	3.1	3.5	2.8	IBExU02ATEX1113/42	0.0072	30
IE3-KPR 100 LX6 Ex II 2D	1.3	12.9	960	IE3- 81.8	81.5	78.6	0.72	3.2	6.0	2.4	3.2	2.4	IBExU02ATEX1114/39	0.0139	36
IE3-KPER 112 MV6 Ex II 2D	1.9	18.8	965	IE3- 83.6	82.6	78.9	0.67	5.1	6.8	3.6	4.3	3.6	IBExU02ATEX1115/28	0.0155	48
IE3-W41R 132 S6 Ex II 2D	3	30.0	965	IE3- 86.3	86.7	85.6	0.82	6.1	6.2	2.0	1.3	3.1	IBExU04ATEX1118	0.029	70
IE3-W41R 132 M6 Ex II 2D	4	40.0	965	IE3- 86.8	87.0	86.0	0.80	8.3	4.8	1.7	1.4	2.4	IBExU04ATEX1118	0.043	75
IE3-W41R 132 MX6 Ex II 2D	5.5	54.0	970	IE3- 88.6	88.6	87.2	0.80	11.0	6.0	2.1	1.7	3.0	IBExU04ATEX1118	0.053	105
IE3-W41R 160 M6 Ex II 2D	7.5	73.0	980	IE3- 90.2	90.0	88.3	0.83	14.5	6.4	2.4	2.0	3.0	IBExU04ATEX1118	0.145	145
IE3-W41R 160 L6C Ex II 2D	11	107.0	985	IE3- 91.4	91.2	89.8	0.85	20.5	6.8	2.2	2	2.8	IBExU04ATEX1118	0.166	168
IE3-W41R 180 L6C Ex II 2D	15	145.0	985	IE3- 91.2	91.3	90.2	0.87	27.5	6.8	2	1.7	2.7	IBExU04ATEX1118	0.3396	214
IE3-W41R 200 L6 Ex II 2D	18.5	180.0	980	IE3- 91.8	91.7	90.5	0.87	33.5	7.2	2.3	2	3	IBExU04ATEX1118	0.514	310
IE3-W41R 200 LX6C Ex II 2D	22	213.0	985	IE3- 92.2	91.5	90.0	0.87	39.5	7.6	2.1	1.7	2.9	IBExU04ATEX1118	0.6476	321
IE3-W41R 225 M6 Ex II 2D	30	291	984	IE3- 92.9	92.2	91.0	0.84	55.5	7.2	2.7	2.2	2.9	IBExU04ATEX1118	0.92	400
IE3-W41R 250 M6 Ex II 2D	37	359	985	IE3- 93.3	93.2	92.3	0.86	66.5	7.1	2.8	2.0	2.7	IBExU04ATEX1118	1.48	545
IE3-W41R 280 S6 Ex II 2D	45	434	990	IE3- 93.7	93.5	91.5	0.86	80.5	8.5	2.1	1.8	2.8	IBExU04ATEX1118	2.63	695
IE3-W41R 280 M6 Ex II 2D	55	531	990	IE3- 94.2	94.1	93.1	0.85	99	9.0	2.2	1.9	3.1	IBExU04ATEX1118	3.33	815
IE3-W41R 315 S6 Ex II 2D	75	723	990	IE3- 94.6	94.0	93.5	0.86	133	8.2	1.8	1.4	2.3	IBExU04ATEX1118	5.55	1060
IE3-W41R 315 M6 Ex II 2D	90	868	990	IE3- 94.9	94.0	93.0	0.83	165	8.5	2.2	1.7	2.8	IBExU04ATEX1118	6	1100
IE3-W41R 315 MX6 Ex II 2D	110	1.061	990	IE3- 95.1	95.0	94.5	0.86	194	8.5	2.5	1.7	2.7	IBExU04ATEX1118	6.67	1210
IE3-W41R 315 L6 Ex II 2D	132	1.267	995	IE3- 95.4	95.0	94.5	0.87	230	9.0	2.8	2.0	3.2	IBExU04ATEX1118	8.6	1550
IE3-W41R 355 M6 Ex II 2D	160	1.536	995	IE3- 95.6	95.0	94.6	0.82	295	8.0	2.1	0.0	2.7	IBExU04ATEX1118	8.2	1850
IE3-W42R 355 MX6 Ex II 2D	200	1919	995	IE3- 95.8	95.2	95.0	0.83	363	8.0	1.8	1.3	2.5		12.10	2200
IE3-W42R 355 L6 Ex II 2D	250	2402	994	IE3- 95.8	95.5	95.0	0.81	468	7.0	1.8	1.3	2.3		14.00	2400
IE3-W42R 355 LX6 Ex II 2D	315	3032	992	IE3- 95.8	95.5	95.3	0.86	554	7.4	2.5	2.0	2.7		14.00	2400
IE3-W42R 400 MY6 Ex II 2D	355	3407	995	IE3- 95.8	95.5	94.5	0.85	632	8.0	2.0	1.6	2.6		16.54	2900
IE3-W42R 400 M6 Ex II 2D	400	3847	993	IE3- 95.8	95.5	94.5	0.87	696	7.0	1.8	1.5	2.3		16.54	2900
IE3-W42R 400 MX6 Ex II 2D	450	4327	993	IE3- 95.8	95.7	94.6	0.83	821	7.3	1.8	1.5	2.1		18.44	3100
IE3-W42R 400 L6 Ex II 2D	500	4808	993	IE3- 95.8	95.6	94.5	0.83	911	7.5	1.9	1.7	2.2		20.63	3200

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3
Type of explosion protection – Protection by enclosure „tb“
for operation in Zone 21 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 750 rpm – 8-pole version															
IE3-W41R 132 S8 Ex II 2D	2.2	29	725	IE3- 84.4	84.5	82.4	0.7	5.4	4.1	1.6	1.5	2.3	IBExU04ATEX1118	0.043	80
IE3-W41R 132 M8 Ex II 2D	3	40	720	IE3- 83.5	83.5	81.4	0.72	7	3.9	1.6	1.4	2.1	IBExU04ATEX1118	0.043	74
IE3-W41R 160 M8 Ex II 2D	4	52	735	IE3- 87	86.7	83.8	0.71	9.4	5.4	2.5	2.2	2.9	IBExU04ATEX1118	0.113	119
IE3-W41R 160 MX8 Ex II 2D	5.5	72	730	IE3- 87.5	87.5	85.6	0.73	12.5	4.7	1.9	1.7	2.5	IBExU04ATEX1118	0.145	143
IE3-W41R 160 L8 Ex II 2D	7.5	98	733	IE3- 87.9	87.6	85.6	0.73	17	5.1	2.1	1.8	2.7	IBExU04ATEX1118	0.166	155
IE3-W41R 180 L8 Ex II 2D	11	145	725	IE3- 89.3	89	87.1	0.75	23.5	5.4	2.1	1.9	2.8	IBExU04ATEX1118	0.228	175
IE3-W41R 200 L8 Ex II 2D	15	196	730	IE3- 89.6	90	89	0.80	30	5.3	1.8	1.7	2.5	IBExU04ATEX1118	0.324	235
IE3-W41R 225 S8 Ex II 2D	18.5	240	735	IE3- 90.1									IBExU04ATEX1118	0.514	310
IE3-W41R 225 M8 Ex II 2D	22	286	735	IE3- 91.5	91.6	90.6	0.79	44	5.7	2.3	2	2.5	IBExU04ATEX1118	0.825	360
IE3-W41R 250 M8 Ex II 2D	30	391	732	IE3- 91.3	91.9	91.4	0.81	58.5	5.4	2	1.8	2.3	IBExU04ATEX1118	0.92	420
IE3-W41R 280 S8 Ex II 2D	37	479	738	IE3- 92	92	90.8	0.78	74.5	5.9	2.3	1.8	2.4	IBExU04ATEX1118	1.55	555
IE3-W41R 280 M8 Ex II 2D	45	581	740	IE3- 93	93	92.4	0.78	89.5	6.5	1.7	1.5	2.4	IBExU04ATEX1118	2.63	700
IE3-W41R 315 S8 Ex II 2D	55	707	743	IE3- 93.3	93.3	92.4	0.78	109	7.0	1.9	1.7	2.5	IBExU04ATEX1118	3.33	805
IE3-W41R 315 M8 Ex II 2D	75	965	742	IE3- 93.8	94.2	93.8	0.81	142	7.0	1.9	1.7	2.3	IBExU04ATEX1118	5.55	1120
IE3-W41R 315 MX8 Ex II 2D	90	1157	743	IE3- 94.3	94.4	93.6	0.8	172	7.9	2.4	2.0	2.7	IBExU04ATEX1118	6	1185
IE3-W41R 315 MY8 Ex II 2D	110	1419	740	IE3- 93.8	94.0	93.8	0.82	206	6.5	1.9	1.5	2.1	IBExU04ATEX1118	6.76	1250
IE3-W41R 315 L8 Ex II 2D	132	1703	740	IE3- 94.2	94.2	93.5	0.8	253	8.0	2.4	1.9	2.7	IBExU04ATEX1118	8.71	1450
IE3-W41R 355 MY8 Ex II 2D	160	2051	745	IE3- 94.3	94.3	94.0	0.82	299	6.6	1.2	1.0	2.6	IBExU04ATEX1118	9.3	1700
IE3-W41R 355 M8 Ex II 2D	200	2564	745	IE3- 94.7	94.9	94.2	0.81	376	7.0	1.0	1.0	2.7	IBExU04ATEX1118	9.5	1890
IE3-W41R 355 MX8 Ex II 2D	230	2948	745	IE3- 95.2	95.2	95.0	0.83	420	7.0	1.2	1.0	2.6	IBExU04ATEX1118	13.40	2200
IE3-W41R 355 L8 Ex II 2D	250	3205	745	IE3- 94.8	94.1	91.5	0.78	488					IBExU04ATEX1118	15.80	2400
IE3-W42R 355 MX8 Ex II 2D	160	2054	744	IE3- 95.4	95.0	94.0	0.8	303	6.8	1.3	1.0	2.5		13.4	2200
IE3-W42R 355 L8 Ex II 2D	200	2570	743	IE3- 95.6	95.5	94.0	0.77	393	6.5	1.6	1.0	2.7		15.8	2400
IE3-W42R 355 LX8 Ex II 2D	250	3213	743	IE3- 95.6	95.4	93.8	0.78	487	6.4	2.5	1.9	2.5		15.8	2400
IE3-W42R 400 MY8 Ex II 2D	315	4048	743	IE3- 95.6	95.5	94.5	0.78	611	6.4	2.5	1.9	2.5		17.94	3000
IE3-W42R 400 M8 Ex II 2D	355	4550	745	IE3- 95.6	95.5	94.5	0.76	708	6.6	1.9	1.7	2.3		17.94	3000
IE3-W42R 400 MX8 Ex II 2D	400	5134	744	IE3- 95.6	95.6	94.6	0.73	831	6.1	1.8	1.7	1.9		19.99	3150
IE3-W42R 400 L8 Ex II 2D	450	5776	744	IE3- 95.6	95.6	94.6	0.72	947	6.4	2.0	1.7	2.0		22.34	3300

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Protection by enclosure „tb“ for operation in Zone 21 according to EN 60079-31

Ex II 2D Ex tb III C T125 °C Db

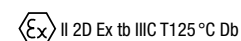
for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	A	-	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version															
IE2-KPR 80 K2 Ex II 2D	0.75	2.49	2880	IE2- 77.4	83.6	81.6	0.88	1.48	7.7	2.2	2.1	2.7	DMT 00 ATEX E 012 X	0.00132	15
IE2-KPR 80 G2 Ex II 2D	1.1	3.64	2885	IE2- 79.6	82.1	81.2	0.89	2.15	7.8	2.5	2.3	2.8	DMT 00 ATEX E 012 X	0.0017	18
IE2-KPR 90 S2 Ex II 2D	1.5	4.92	2910	IE2- 81.3	85.5	82.9	0.87	2.9	9.0	2.8	2.4	3.4	DMT 00 ATEX E 012 X	0.00275	23.5
IE2-KPR 90 L2 Ex II 2D	2.2	7.29	2880	IE2- 83.2	85.7	83.9	0.88	4.25	8.0	2.5	2.3	2.9	DMT 00 ATEX E 012 X	0.00275	23.5
IE2-KPR 100 L2 Ex II 2D	3	9.78	2930	IE2- 84.6	86.2	83.5	0.76	6.55	8.5	2.6	2.4	3.8	DMT 00 ATEX E 012 X	0.0045	31
IE2-KPER 112 M2 Ex II 2D	4	13.2	2900	IE2- 85.8	86.3	***	0.81	8.4	7.0	2.2	2.1	2.9	DMT 00 ATEX E 012 X	0.0045	32
IE2-KPER 112 MX2 Ex II 2D	4	13.08	2920	IE2- 85.8	86.4	85.8	0.84	7.9	8.3	2.3	2.1	3.3	DMT 00 ATEX E 012 X	0.0055	38
IE2-KPER 112 ML2 Ex II 2D	5.5	18.2	2890	IE2- 85.9	86.6	***	0.84	11	7.5	2.4	2.2	3.0	DMT 00 ATEX E 012 X	0.0055	38
IE2-KPER 112 MV2 Ex II 2D	5.5	18.11	2900	IE2- 87.0	88.7	88.8	0.88	10.3	7.8	2.0	1.9	2.7	DMT 00 ATEX E 012 X	0.0068	46
IE2-KPER 132 SY2T Ex II 2D	5.5	18.2	2890	IE2- 87.0	86.6	***	0.84	11	7.5	2.4	2.2	3.0	DMT 00 ATEX E 012 X	0.0055	40
IE2-KPER 132 S2T Ex II 2D	5.5	18.11	2900	IE2- 87.0	88.7	88.8	0.88	10.3	7.8	2.0	1.9	2.7	DMT 00 ATEX E 012 X	0.0068	48
IE2-KPER 112 MW2 Ex II 2D	7.5	24.9	2880	IE2- 88.1	88.0	***	0.84	14.8	6.3	1.5	1.2	2.6	DMT 00 ATEX E 012 X	0.0068	46
IE2-KPER 132 SX2T Ex II 2D	7.5	24.9	2880	IE2- 88.1	88.0	***	0.84	14.8	6.3	1.5	1.2	2.6	DMT 00 ATEX E 012 X	0.0068	48
IE2-WE1R 132 S2 Ex II 2D	5.5	18.0	2915	IE2- 88.7	88.7	87.8	0.85	10.5	6.8	1.9	1.5	3.0	IBExU04ATEX1118	0.0110	57
IE2-WE1R 132 SX2 Ex II 2D	7.5	24.5	2925	IE2- 88.8	89.2	88.3	0.91	13.5	6.7	2.1	1.6	2.9	IBExU04ATEX1118	0.0168	75
IE2-WE1R 160 M2 Ex II 2D	11.0	35.6	2950	IE2- 90.3	90.3	89.1	0.90	19.5	7.7	2.3	1.7	3.1	IBExU04ATEX1118	0.0258	125
IE2-WE1R 160 MX2 Ex II 2D	15.0	48.7	2940	IE2- 90.7	90.5	89.1	0.92	26	6.7	1.8	1.4	2.6	IBExU04ATEX1118	0.0675	140
IE2-WE1R 160 L2 Ex II 2D	18.5	60.2	2935	IE2- 91.0	91.4	91.4	0.91	32	7.2	2.0	1.5	2.8	IBExU04ATEX1118	0.0675	140
IE2-WE1R 180 M2 Ex II 2D	22	72	2935	IE2- 91.3	90.6	86.4	0.90	38.5	6.2	1.4	1.1	2.4	IBExU04ATEX1118	0.105	173
IE2-WE1R 200 L2 Ex II 2D	30	97	2945	IE2- 92.0	91.3	90.5	0.91	52	6.9	1.7	1.3	2.6	IBExU04ATEX1118	0.128	210
IE2-WE1R 200 LX2 Ex II 2D	37	120	2940	IE2- 92.5	92.3	91.6	0.92	63	7.4	1.9	1.4	2.9	IBExU04ATEX1118	0.154	233
IE2-WE2R 200 LX2 Ex II 2D	37	120	2940	IE2- 92.5	92.3	91.6	0.92	63	7.4	1.9	1.4	2.9	IBExU04ATEX1118	0.154	233
IE2-WE1R 225 M2 Ex II 2D	45	146	2950	IE2- 92.9	92.2	91.2	0.87	80.5	6.9	1.7	1.1	2.7	IBExU04ATEX1118	0.220	295
IE2-WE1R 250 M2 Ex II 2D	55	178	2955	IE2- 93.5	93.7	93.2	0.89	95.5	8.2	2.3	1.9	2.8	IBExU04ATEX1118	0.375	385
IE2-WE1R 280 S2 Ex II 2D	75	241	2970	IE2- 94.1	94.0	91.5	0.90	128	7.9	2.1	1.7	3.0	IBExU04ATEX1118	0.65	500
IE2-WE1R 280 M2 Ex II 2D	90	289	2970	IE2- 94.4	94.1	91.9	0.91	151	7.7	2.0	1.7	2.8	IBExU04ATEX1118	0.68	550
IE2-W21R 315 S2 Ex II 2D	110	353	2975	IE2- 94.5	94.3	93.3	0.89	189	8.0	1.3	1.2	2.4	IBExU04ATEX1118	1.21	730
IE2-W21R 315 M2 Ex II 2D	132	424	2975	IE2- 95.0	94.8	94.5	0.89	225	9.2	1.4	1.2	2.4	IBExU04ATEX1118	1.44	820
IE2-W21R 315 MX2 Ex II 2D	160	514	2973	IE2- 94.8	94.8	94.8	0.89	274	8.2	1.3	1.3	2.4	IBExU04ATEX1118	1.76	955
IE2-W21R 315 MY2 Ex II 2D	200	640	2983	IE2- 95.4	95.0	94.3	0.88	344	9.4	2.8	2.0	3.0	IBExU04ATEX1118	2.82	1200
IE2-W21R 315 L2 Ex II 2D	250	800	2984	IE2- 95.4	95.4	95.4	0.92	411	9.0	2.3	1.2	2.3	IBExU04ATEX1118	3.66	1450
IE2-W21R 315 LX2 Ex II 2D	315	1008	2985	IE2- 95.4	95.4	95.0	0.92	518	8.5	2.8	1.6	2.5	IBExU04ATEX1118	4.43	1700
IE2-W22R 355 M2G Ex II 2D	355	1136	2985	IE2- 95.5	95.5	95.5	0.92	583	7.7	1.3	1.0	2.6	IBExU04ATEX1118	4.20	2000
IE2-W22R 355 MX2G Ex II 2D	400	1278	2990	IE2- 95.5	95.5	95.5	0.91	664	9.4	1.8	1.0	3.0	IBExU04ATEX1118	4.50	2200
W22R 355 LY2G Ex II 2D	450	1440	2985	IE2- 95.5	95.5	95.5	0.92	739	7.0	1.3	0.9	2.4	IBExU04ATEX1118	7.10	2400
W22R 355 L2G Ex II 2D	500	1597	2990	IE2- 95.5	95.5	95.5	0.92	821	8.5	1.5	1.2	2.5	IBExU04ATEX1118	7.10	2400

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

***) upon request

Three-phase motors with squirrel-cage rotor, High Efficiency IE2
Type of explosion protection – Protection by enclosure „tb“
for operation in Zone 21 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data														Design point 400 V, 50 Hz	
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version															
IE2-KPR 80 GY4 Ex II 2D	0.75	5.01	1430	IE2- 79.6	78.0	74.7	0.8	1.73	5.7	2.2	2.2	3.1	DMT 00 ATEX E 012 X	0.00207	14.5
IE2-KPR 80 G4 Ex II 2D	0.75	5.01	1430	IE2- 79.6	81.4	79.6	0.81	1.65	7.0	2.9	2.8	3.2	DMT 00 ATEX E 012 X	0.0026	17
IE2-KPR 90 S4 Ex II 2D	1.1	7.32	1435	IE2- 81.4	82.3	80.4	0.8	2.42	6.8	2.4	2.2	2.9	DMT 00 ATEX E 012 X	0.004	23
IE2-KPR 90 LW4 Ex II 2D	1.5	9.95	1440	IE2- 82.8	83.8	81.4	0.76	3.4	6.5	2.7	2.7	3.6	DMT 00 ATEX E 012 X	0.004	23
IE2-KPR 90 L4 Ex II 2D	1.5	9.91	1445	IE2- 82.8	83.2	80.7	0.77	3.35	7.2	3.2	3.0	3.5	DMT 00 ATEX E 012 X	0.0045	28
IE2-KPR 100 S4 Ex II 2D	2.2	14.5	1445	IE2- 84.3	84.9	82.7	0.79	4.67	7.3	2.7	2.5	3.1	DMT 00 ATEX E 012 X	0.00725	30
IE2-KPR 100 L4 Ex II 2D	2.2	14.4	1455	IE2- 84.3	85.2	81.7	0.77	4.8	9.3	3.2	3.0	3.6	DMT 00 ATEX E 012 X	0.009	36
IE2-KPR 100 LW4 Ex II 2D	3	19.8	1445	IE2- 85.5	85.8	83.6	0.79	6.33	7.8	3.0	2.9	3.6	DMT 00 ATEX E 012 X	0.009	36
IE2-KPR 100 LX4 Ex II 2D	3	19.7	1455	IE2- 85.5	86.3	84.5	0.77	6.5	9.0	3.3	3.1	3.9	DMT 00 ATEX E 012 X	0.011	45
IE2-KPER 112 MZ4 Ex II 2D	4	26.4	1445	IE2- 86.6	87.0	85.0	0.8	8.3	8.2	2.8	2.6	3.6	DMT 00 ATEX E 012 X	0.013	50
IE2-WE1R 112 M4 Ex II 2D	4.0	26.2	1460	IE2- 86.6	88.0	86.9	0.86	7.6	8.3	2.6	2.3	3.9	IBExU04ATEX1118	0.017	56
IE2-WE1R 132 S4 Ex II 2D	5.5	35.7	1470	IE2- 89.8	89.9	88.4	0.87	10	7.4	2.3	1.9	3.4	IBExU04ATEX1118	0.035	87
IE2-WE2R 132 S4 Ex II 2D	5.5	36.2	1450	IE2- 88.4	89.3	89.0	0.87	10.5	7.7	2.3	1.8	3.5	IBExU04ATEX1118	0.020	64
IE2-WE1R 132 M4 Ex II 2D	7.5	48.7	1470	IE2- 89.9	90.0	88.5	0.82	14.5	8.5	2.6	2.1	4.0	IBExU04ATEX1118	0.035	88
IE2-WE1R 160 M4 Ex II 2D	11.0	71	1475	IE2- 90.6	90.3	88.5	0.82	21.5	8.1	3.1	2.4	3.4	IBExU04ATEX1118	0.078	122
IE2-WE2R 160 M4 Ex II 2D	11	71.5	1470	IE2- 90.3	90.3	88.5	0.78	22.5	7.8	2.4	2.1	3.9	IBExU04ATEX1118	0.043	105
IE2-WE1R 160 L4 Ex II 2D	15.0	97	1470	IE2- 90.6	90.9	90.5	0.87	27.5	8.3	2.7	2.2	3.2	IBExU04ATEX1118	0.115	160
IE2-WE2R 160 L4 Ex II 2D	15	97	1480	IE2- 92.0	92.0	90.6	0.84	28	9.1	3.0	2.5	3.9	IBExU04ATEX1118	0.115	161
IE2-WE1R 180 M4 Ex II 2D	18.5	120	1475	IE2- 91.5	91.5	90.4	0.86	34	6.8	1.8	1.5	2.7	IBExU04ATEX1118	0.168	207
IE2-WE2R 180 M4 Ex II 2D	18.5	120	1470	IE2- 91.2	90.6	89.3	0.78	37.5	6.4	2.0	1.6	2.8	IBExU04ATEX1118	0.138	176
IE2-WE1R 180 L4 Ex II 2D	22	142	1475	IE2- 91.6	91.4	89.9	0.83	42	7.3	2.1	1.7	3.0	IBExU04ATEX1118	0.168	215
IE2-WE1R 200 L4 Ex II 2D	30	194	1480	IE2- 92.3	91.3	88.2	0.80	58.5	7.3	2.1	1.7	2.9	IBExU04ATEX1118	0.275	277
IE2-WE1R 225 S4 Ex II 2D	37	240	1475	IE2- 92.7	91.8	90.7	0.84	68.5	7.4	2.2	1.7	2.7	IBExU04ATEX1118	0.313	313
IE2-WE1R 225 M4 Ex II 2D	45	290	1483	IE2- 93.1	93.0	91.1	0.84	83	7.9	2.3	1.9	2.4	IBExU04ATEX1118	0.525	390
IE2-WE2R 225 M4 Ex II 2D	45	291	1475	IE2- 93.1	92.9	92.1	0.80	87	7.6	2.6	1.9	3.1	IBExU04ATEX1118	0.356	346
IE2-WE1R 250 M4 Ex II 2D	55	354	1485	IE2- 94.0	94.1	92.5	0.84	101	8.0	2.0	1.7	2.3	IBExU04ATEX1118	0.95	535
IE2-WE2R 250 M4 Ex II 2D	55	356	1477	IE2- 93.9	93.8	93.7	0.82	103	7.5	2.4	1.9	2.4	IBExU04ATEX1118	0.62	435
IE2-WE1R 280 S4 Ex II 2D	75	482	1485	IE2- 94.2	94.4	92.1	0.84	137	7.2	1.8	1.6	2.1	IBExU04ATEX1118	0.95	550
IE2-WE1R 280 M4 Ex II 2D	90	580	1483	IE2- 94.3	94.5	94.0	0.84	164	7.6	1.8	1.6	2.3	IBExU04ATEX1118	1.10	610
IE2-W21R 315 S4 Ex II 2D	110	707	1485	IE2- 94.8	94.8	94.0	0.82	204	8.5	1.8	1.5	2.7	IBExU04ATEX1118	1.96	760
IE2-W21R 315 M4 Ex II 2D	132	849	1484	IE2- 95.0	95.0	94.5	0.83	242	8.2	1.8	1.6	2.3	IBExU04ATEX1118	2.27	850
IE2-W21R 315 MX4 Ex II 2D	160	1031	1482	IE2- 95.0	95.0	94.5	0.84	289	7.4	1.6	1.4	2.2	IBExU04ATEX1118	2.73	975
IE2-W21R 315 MY4 Ex II 2D	200	1282	1490	IE2- 95.1	95.1	94.5	0.87	349	8.5	1.8	1.6	2.5	IBExU04ATEX1118	4.82	1270
IE2-W21R 315 L4 Ex II 2D	250	1602	1490	IE2- 95.4	95.4	95.3	0.88	430	9.0	2.2	1.5	2.7	IBExU04ATEX1118	5.93	1450
IE2-W21R 315 LX4 Ex II 2D	315	2019	1490	IE2- 95.4	95.4	95.0	0.88	542	9.0	2.4	1.6	2.6	IBExU04ATEX1118	6.82	1630
IE2-W22R 355 M4 Ex II 2D	355	2271	1493	IE2- 95.5	95.5	95.0	0.87	617	8.0	1.3	1.0	2.7	IBExU04ATEX1118	7.90	2150
IE2-W22R 355 MX4 Ex II 2D	400	2557	1494	IE2- 95.5	95.5	95.5	0.88	687	8.5	1.3	1.0	3.0	IBExU04ATEX1118	9.50	2400
IE2-W22R 355 L4 Ex II 2D	450	2873	1496	IE2- 95.5	95.5	95.5	0.86	790	8.5	1.4	0.8	2.9	IBExU04ATEX1118	10.00	2500

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Protection by enclosure „tb“ for operation in Zone 21 according to EN 60079-31

Ex II 2D Ex tb IIC T125 °C Db

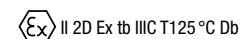
for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version															
IE2-KPR 90 S6 Ex II 2D	0.75	7.5	955	IE2- 75.9	78.3	75.1	0.71	1.95	4.9	2.4	2.3	2.6	DMT 00 ATEX E 012 X	0.00625	24
IE2-KPR 90 LW6 Ex II 2D	1.1	11	955	IE2- 78.1	78.0	75.1	0.69	2.95	4.7	2.5	2.4	2.8	DMT 00 ATEX E 012 X	0.00625	24
IE2-KPR 90 L6 Ex II 2D	1.1	11	955	IE2- 78.1	82.0	79.3	0.71	2.75	5.4	2.5	2.4	2.8	DMT 00 ATEX E 012 X	0.0072	30
IE2-KPR 100 LW6 Ex II 2D	1.1	10.94	960	IE2- 78.1	***	***	0.76	2.5	6.5	2.8	2.7	3.4	DMT 00 ATEX E 012 X	0.0139	36
IE2-KPR 100 LX6 Ex II 2D	1.5	15	955	IE2- 79.8	83.5	81.5	0.76	3.45	5.9	2.3	2.2	2.8	DMT 00 ATEX E 012 X	0.0139	36
IE2-KPER 112 MX6 Ex II 2D	2.2	21.89	960	IE2- 81.8	***	***	0.65	5.9	6.4	3.0	2.9	3.7	DMT 00 ATEX E 012 X	***	37
IE2-KPER 112 MV6 Ex II 2D	2.2	22	955	IE2- 81.8	82.5	79.8	0.75	5.15	5.7	2.4	2.3	2.9	DMT 00 ATEX E 012 X	0.0155	48
IE2-KPER 112 MZ6 ExnA IIC T3 Gc	3	30	955	IE2- 83.3	83.1	80.5	0.75	6.85	6.5	2.8	2.7	3.5	DMT 00 ATEX E 012 X	0.043	50
IE2-KPER 132 SX6T Ex II 2D	3	30	955	IE2- 83.3	83.1	80.5	0.73	7.1	7.0	3.2	3.1	4.0	DMT 00 ATEX E 012 X	0.0165	52
IE2-W21R 132 S6 Ex II 2D	3.0	29.8	963	IE2- 84.9	85.2	83.9	0.80	6.4	6.0	2.0	1.3	3.0	IBExU04ATEX1118	0.023	55
IE2-W21R 132 M6 Ex II 2D	4.0	39.6	965	IE2- 85.5	85.5	83.8	0.79	8.5	5.1	1.8	1.6	2.4	IBExU04ATEX1118	0.043	76
IE2-WE2R 132 M6 Ex II 2D	4	40	955	IE2- 85.1	86.0	85.2	0.82	8.3	5.7	2.1	2.0	2.9	IBExU04ATEX1118	0.029	66
IE2-W21R 132 MX6 Ex II 2D	5.5	54	970	IE2- 86.1	85.5	82.4	0.77	12	5.7	2.2	1.7	2.7	IBExU04ATEX1118	0.053	85
IE2-W21R 160 M6 Ex II 2D	7.5	73	975	IE2- 87.4	88.1	86.0	0.81	15.5	6.3	2.5	2.1	2.9	IBExU04ATEX1118	0.113	118
IE2-WE2R 160 M6 Ex II 2D	7.5	74	970	IE2- 87.5	87.6	85.9	0.79	15.5	5.9	2.1	1.8	2.9	IBExU04ATEX1118	0.053	103
IE2-W21R 160 L6 Ex II 2D	11.0	108	970	IE2- 88.7	87.9	86.3	0.85	21	5.8	2.2	1.9	2.7	IBExU04ATEX1118	0.145	135
IE2-WE1R 160 L6 Ex II 2D	11.0	108	975	IE2- 88.9	88.8	87.0	0.81	22	6.8	2.7	2.4	3.1	IBExU04ATEX1118	0.166	155
IE2-W21R 180 L6 Ex II 2D	15.0	147	975	IE2- 89.7	88.8	86.7	0.84	28.5	6.2	2.1	1.8	2.8	IBExU04ATEX1118	0.228	185
IE2-WE2R 180 L6 Ex II 2D	15	148	970	IE2- 89.7	88.8	87.8	0.83	29	5.6	2.3	1.7	2.6	IBExU04ATEX1118	0.166	157
IE2-W21R 200 L6 Ex II 2D	18.5	180	980	IE2- 90.4	88.8	86.5	0.85	35	6.6	2.3	1.7	2.9	IBExU04ATEX1118	0.268	208
IE2-W21R 200 LX6 Ex II 2D	22	214	980	IE2- 90.9	90.2	88.5	0.86	40.5	6.4	2.2	1.8	2.7	IBExU04ATEX1118	0.443	272
IE2-WE2R 200 LX6 Ex II 2D	22	215	975	IE2- 90.9	89.9	88.5	0.84	41.5	6.7	2.4	2.0	3.0	IBExU04ATEX1118	0.324	238
IE2-W21R 225 M6 Ex II 2D	30	291	985	IE2- 92.0	91.5	90.0	0.86	54.5	7.3	2.5	2.2	2.9	IBExU04ATEX1118	0.825	365
IE2-WE2R 225 M6 Ex II 2D	30	294	975	IE2- 91.7	91.4	90.6	0.87	54.5	6.7	2.3	1.9	2.8	IBExU04ATEX1118	0.514	308
IE2-W21R 250 M6 Ex II 2D	37	359	985	IE2- 92.2	91.7	90.7	0.85	68	6.4	2.7	1.8	2.4	IBExU04ATEX1118	1.28	480
IE2-WE2R 250 M6 Ex II 2D	37	361	979	IE2- 92.2	92.3	91.8	0.86	67.5	6.6	2.7	2.0	2.6	IBExU04ATEX1118	0.92	407
IE2-W21R 280 S6 Ex II 2D	45	437	983	IE2- 93.0	92.7	92.4	0.87	80.5	6.5	2.2	1.7	2.4	IBExU04ATEX1118	1.48	560
IE2-W21R 280 M6 Ex II 2D	55	531	990	IE2- 93.5	93.5	93.0	0.85	100	7.6	2.0	1.5	2.5	IBExU04ATEX1118	2.63	710
IE2-W21R 315 S6 Ex II 2D	75	723	990	IE2- 93.9	93.7	93.5	0.87	133	7.8	1.9	1.5	2.5	IBExU04ATEX1118	3.33	804
IE2-W21R 315 M6 Ex II 2D	90	868	990	IE2- 94.0	94.0	93.5	0.88	157	7.5	1.8	1.5	2.5	IBExU04ATEX1118	3.60	865
IE2-W21R 315 MX6 Ex II 2D	110	1061	990	IE2- 94.3	94.3	94.0	0.87	194	7.5	1.8	1.4	2.3	IBExU04ATEX1118	6.67	1210
IE2-W21R 315 MY6 Ex II 2D	132	1273	990	IE2- 94.6	94.3	94.0	0.87	231	7.5	1.9	1.4	2.2	IBExU04ATEX1118	6.67	1250
IE2-W21R 315 L6 Ex II 2D	160	1543	990	IE2- 94.8	94.5	93.5	0.88	277	7.5	2.0	1.5	2.4	IBExU04ATEX1118	8.60	1430
IE2-W21R 315 LX6 Ex II 2D	200	1929	990	IE2- 95.0	95.0	94.5	0.86	353	7.0	1.9	1.5	2.2	IBExU04ATEX1118	8.60	1460
IE2-W22R 355 M6 Ex II 2D	200	1920	995	IE2- 95.0	95.0	94.0	0.82	371	8.0	1.7	1.4	2.6	IBExU04ATEX1118	8.20	1850
IE2-W22R 355 MX6 Ex II 2D	315	3023	995	IE2- 95.0	95.0	94.5	0.85	447	7.5	1.6	1.2	2.5	IBExU04ATEX1118	12.1	2200
IE2-W22R 355 LY6 Ex II 2D	355	3407	995	IE2- 95.3	95.3	95.3	0.86	555	8.0	2.1	1.3	2.6	IBExU04ATEX1118	14.0	2400

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

*** upon request

Three-phase motors with squirrel-cage rotor, High Efficiency IE2
Type of explosion protection – Protection by enclosure „tb“
for operation in Zone 21 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)				400 V						kgm ²	kg
				100 %	75 %	50 %	-	A	-	-	-	-			
Synchronous speed 750 rpm – 8-pole version															
IE2-W21R 132 S8 Ex II 2D	2.2	29.2	720	IE2- 81.7	81.0	77.5	0.65	6	4.8	2.2	2.0	3.2	IBExU04ATEX1118	0.0180	55
IE2-W21R 132 M8 Ex II 2D	3.0	39.8	720	IE2- 82.7	83.0	81.3	0.74	7.1	3.9	1.6	1.3	1.9	IBExU04ATEX1118	0.0430	74
IE2-WE2R 132 M8 Ex II 2D	3	39.8	720	IE2- **)	***	***	***	***	***	***	***	***	IBExU04ATEX1118	0.0290	65
IE2-W21R 160 M8 Ex II 2D	4.0	53.2	718	IE2- 84.2	83.7	81.9	0.72	9.5	4.6	1.6	***	2.5	IBExU04ATEX1118	0.0530	86
IE2-W21R 160 MX8 Ex II 2D	5.5	72.0	730	IE2- 86.9	86.6	84.1	0.72	12.5	4.8	2.1	1.8	2.6	IBExU04ATEX1118	0.1130	115
IE2-WE2R 160 MX8 Ex II 2D	5.5	73	715	IE2- 83.9	84.0	81.9	0.71	13.5	4.3	1.7	1.5	2.5	IBExU04ATEX1118	0.0530	103
IE2-W21R 160 L8 Ex II 2D	7.5	99	725	IE2- 87.5	87.0	83.5	0.77	16	5.5	2.0	***	2.8	IBExU04ATEX1118	0.1450	136
IE2-W21R 180 L8 Ex II 2D	11.0	144	727	IE2- 88.2	88.2	86.7	0.78	23	4.9	1.8	1.6	2.4	IBExU04ATEX1118	0.2280	175
IE2-WE2R 180 L8 Ex II 2D	11	144	730	IE2- 87.9	87.4	85.2	0.67	25.5	4.3	1.9	1.6	2.3	IBExU04ATEX1118	0.1660	157
IE2-W21R 200 L8 Ex II 2D	15.0	197	727	IE2- 88.2	88.1	86.4	0.77	32	4.9	1.9	1.7	2.3	IBExU04ATEX1118	0.2680	200
IE2-W21R 225 S8 Ex II 2D	18.5	242	730	IE2- 89.6	89.4	87.2	0.78	38	5.4	2.1	2.0	2.8	IBExU04ATEX1118	0.440	265
IE2-WE2R 225 S8 Ex II 2D	18.5	240	735	IE2- 90.7	90.7	89.4	0.8	37	6.1	2.1	1.9	2.9	IBExU04ATEX1118	0.514	305
IE2-W21R 225 M8 Ex II 2D	22	287	733	IE2- 90.6	89.4	89.9	0.78	45	5.6	2.2	1.8	2.6	IBExU04ATEX1118	0.825	380
IE2-WE2R 225 M8 Ex II 2D	22	286	735	IE2- 90.3	90.3	88.7	0.77	45.5	6.1	2.2	2.0	2.9	IBExU04ATEX1118	0.514	307
IE2-W21R 250 M8 Ex II 2D	30	389	737	IE2- 92.1	92.4	91.6	0.79	59.5	5.0	2.0	1.6	2.1	IBExU04ATEX1118	1.350	480
IE2-WE2R 250 M8 Ex II 2D	30	391	732	IE2- 91.5	91.7	90.9	0.77	61.5	5.6	2.3	2.0	2.5	IBExU04ATEX1118	0.950	405
IE2-W21R 280 S8 Ex II 2D	37	479	737	IE2- 92.2	92.1	90.9	0.79	73.5	6.0	2.3	1.9	2.5	IBExU04ATEX1118	1.55	550
IE2-W21R 280 M8 Ex II 2D	45	581	740	IE2- 92.7	92.7	92.0	0.79	88.5	6.7	1.8	1.5	2.5	IBExU04ATEX1118	2.63	690
IE2-W21R 315 S8 Ex II 2D	55	710	740	IE2- 92.2	92.2	92.1	0.80	108	6.3	1.8	1.5	2.3	IBExU04ATEX1118	2.63	690
IE2-W21R 315 M8 Ex II 2D	75	968	740	IE2- 93.5	93.5	93.0	0.81	143	6.0	1.8	1.5	2.1	IBExU04ATEX1118	3.6	880
IE2-W21R 315 MX8 Ex II 2D	90	1161	740	IE2- 92.1	91.6	90.1	0.81	174	6.0	1.9	***	2.2	IBExU04ATEX1118	6	1050
IE2-W21R 315 MY8 Ex II 2D	110	1420	740	IE2- 93.8	93.3	91.2	0.81	209	6.5	2.1	***	2.4	IBExU04ATEX1118	6.76	1250
IE2-W21R 315 L8 Ex II 2D	132	1704	740	IE2- 94.4	94.0	93.5	0.83	243	7.5	2.2	1.8	2.5	IBExU04ATEX1118	8.71	1430
IE2-W21R 315 LX8 Ex II 2D	160	2065	740	IE2- 94.2	94.2	93.8	0.80	306	7.2	2.2	1.8	2.5	IBExU04ATEX1118	8.71	1430
IE2-W22R 355 M8 Ex II 2D	200	2571	743	IE2- 94.7	94.1	91.5	0.77	396	***	***	***	***	IBExU04ATEX1118	9.5	1850
IE2-W22R 355 MX8 Ex II 2D	250	3205	745	IE2- 95.8	95.8	95.5	0.83	454	7.0	1.2	1.0	2.6	IBExU04ATEX1118	13.4	2200
IE2-W22R 355 LY8 Ex II 2D	280	3599	743	IE2- 94.8	94.1	91.5	0.78	547	***	***	***	***	IBExU04ATEX1118	15.8	2400

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

***) upon request

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1 Type of explosion protection – Protection by enclosure „tb“ for operation in Zone 21 according to EN 60079-31

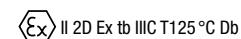
Ex II 2D Ex tb III C T125 °C Db

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBEXu...	J	m
	kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-		kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version															
IE1-KPE0 56 K2 Ex II 2D	0.09	0.3	2840	IE1- 70.2	68.1	64.5	0.74	0.25	4.9	2.3	2.3	2.8	DMT 00 ATEX E 012 X	0.00013	4.4
IE1-KPER 56 G2 Ex II 2D	0.12	0.41	2830	IE1- 70.3	67.0	60.1	0.77	0.32	4.5	2.1	2.1	2.3	DMT 00 ATEX E 012 X	0.00013	4.5
IE1-KPER 63 K2 Ex II 2D	0.18	0.62	2790	IE1- 67.0	65.6	59.8	0.76	0.51	4.1	1.9	1.9	2.2	DMT 00 ATEX E 012 X	0.00013	4.9
IE1-KPER 63 G2 Ex II 2D	0.25	0.85	2800	IE1- 67.7	64.9	56.2	0.72	0.74	4.2	2.2	2.2	2.4	DMT 00 ATEX E 012 X	0.00015	5.2
IE1-KPER 71 K2 Ex II 2D	0.37	1.27	2780	IE1- 71.9	70.8	65.0	0.79	0.94	4.4	2.1	2.1	2.3	DMT 00 ATEX E 012 X	0.00025	6.7
IE1-KPER 71 G2 Ex II 2D	0.55	1.89	2775	IE1- 74.2	75.0	72.0	0.81	1.32	5.1	2.3	2.1	2.6	DMT 00 ATEX E 012 X	0.00032	7.6
IE1-KPER 80 K2 Ex II 2D	0.75	2.54	2825	IE1- 76.8	77.5	74.3	0.82	1.72	5.9	2.4	2.4	2.4	DMT 00 ATEX E 012 X	0.00057	10.7
IE1-KPER 80 G2 Ex II 2D	1.1	3.71	2835	IE1- 76.9	75.9	73.3	0.81	2.55	6.0	2.4	2.3	2.6	DMT 00 ATEX E 012 X	0.00072	11.5
IE1-KPER 90 S2 Ex II 2D	1.5	5.04	2840	IE1- 81.2	82.2	80.3	0.86	3.1	7.0	2.5	2.5	2.8	DMT 00 ATEX E 012 X	0.00132	16.0
IE1-KPER 90 L2 Ex II 2D	2.2	7.37	2850	IE1- 82.1	83.4	81.9	0.85	4.55	7.5	2.8	2.3	2.9	DMT 00 ATEX E 012 X	0.0017	19.0
IE1-KPER 100 L2 Ex II 2D	3.0	10	2865	IE1- 82.8	83.1	83.3	0.85	6.15	6.8	2.4	2.2	2.8	DMT 00 ATEX E 012 X	0.00275	25.0
IE1-KPER 112 M2 Ex II 2D	4.0	13.2	2900	IE1- 84.9	85.5	84.4	0.81	8.4	7.0	2.2	2.1	2.9	DMT 00 ATEX E 012 X	0.0045	32
IE1-KPER 112 MX2 Ex II 2D	5.5	18.2	2890	IE1- 85.9	86.2	86.4	0.84	11.0	7.5	2.4	2.2	3.0	DMT 00 ATEX E 012 X	0.0055	40
IE1-KPER 132 S2T Ex II 2D	5.5	18.2	2890	IE1- 85.9	86.2	86.4	0.84	11.0	7.5	2.4	2.2	3.0	DMT 00 ATEX E 012 X	0.0055	40
IE1-KPER 132 SX2T Ex II 2D	7.5	24.9	2880	IE1- 87.1	87.2	86.6	0.84	14.8	6.3	1.5	1.2	2.6	DMT 00 ATEX E 012 X	0.0680	48
IE1-K11R 132 S2 Ex II 2D	5.5	18	2860	IE1- 84.7	84.7	82.4	0.86	11	5.5	1.8	1.6	2.2	IBExU09ATEX1065	0.0081	50
IE1-K11R 132 SX2 Ex II 2D	7.5	25	2900	IE1- 86.0	86.0	84.0	0.86	14.5	6.6	1.8	1.3	2.5	IBExU09ATEX1065	0.0110	59
IE1-K11R 160 M2 Ex II 2D	11.0	36	2900	IE1- 87.6	87.6	84.6	0.90	20	7.0	2.4	2.0	3.0	IBExU09ATEX1065	0.0258	88
IE1-K11R 160 MX2 Ex II 2D	15.0	49	2930	IE1- 88.7	88.7	85.8	0.90	27	7.1	2.2	1.7	2.9	IBExU09ATEX1065	0.0575	131
IE1-K11R 160 L2 Ex II 2D	18.5	61	2920	IE1- 89.3	88.3	85.8	0.92	32.5	7.2	2.1	1.6	2.8	IBExU09ATEX1065	0.0675	138
IE1-K11R 180 M2 Ex II 2D	22	72	2935	IE1- 89.9	89.1	86.1	0.92	38.5	6.8	1.7	1.4	2.6	IBExU09ATEX1065	0.105	178
IE1-K11R 200 L2 Ex II 2D	30	97	2940	IE1- 91.1	90.3	88.8	0.92	51.5	7.3	2.0	1.6	2.9	IBExU09ATEX1065	0.128	207
IE1-K11R 200 LX2 Ex II 2D	37	120	2940	IE1- 91.5	90.5	89.0	0.90	65	7.0	1.8	1.3	2.4	IBExU09ATEX1065	0.193	265
IE1-K11R 225 M2 Ex II 2D	45	146	2940	IE1- 92.0	91.3	88.8	0.91	77.5	7.5	1.8	1.4	2.7	IBExU09ATEX1065	0.220	295
IE1-K11R 250 M2 Ex II 2D	55	178	2955	IE1- 92.2	91.0	89.0	0.91	94.5	7.5	2.0	1.5	2.6	IBExU09ATEX1065	0.375	383
IE1-K11R 280 S2 Ex II 2D	75	241	2970	IE1- 93.1	92.0	90.5	0.92	126	7.5	2.0	1.6	2.6	IBExU09ATEX1065	0.650	505
IE1-K11R 280 M2 Ex II 2D	90	289	2970	IE1- 93.2	92.7	90.5	0.91	153	8.5	2.2	1.8	2.8	IBExU09ATEX1065	0.675	546
IE1-K11R 315 S2 Ex II 2D	110	353	2975	IE1- 93.5	92.6	91.1	0.91	187	8.5	1.5	1.3	2.5	IBExU09ATEX1065	1.21	720
IE1-K11R 315 M2 Ex II 2D	132	424	2975	IE1- 93.8	92.9	91.9	0.91	223	8.5	2.0	1.8	2.7	IBExU09ATEX1065	1.44	800
IE1-K11R 315 MX2 Ex II 2D	160	514	2975	IE1- 94.0	94.0	94.0	0.91	270	8.5	1.5	1.0	2.0	IBExU09ATEX1065	1.76	980
IE1-K11R 315 MY2 Ex II 2D	200	643	2970	IE1- 94.0	93.2	92.5	0.92	334	8.2	2.6	2.0	2.6	IBExU09ATEX1065	2.82	1170
IE1-K11R 315 L2 Ex II 2D	250	803	2973	IE1- 94.1	93.2	93.0	0.93	412	7.3	2.1	1.4	2.0	IBExU09ATEX1065	3.66	1460
IE1-K11R 315 LX2 Ex II 2D	315	1010	2980	IE1- 94.5	94.5	92.8	0.92	523	8.6	2.7	1.7	2.4	IBExU09ATEX1065	4.43	1630
IE1-K12R 355 MY2G Ex II 2D	315	1007	2988	IE1- 94.5	94.3	93.7	0.88	547	8.6	1.3	1.0	3.0	IBExU09ATEX1065	4.10	1900
IE1-K12R 355 M2G Ex II 2D	355	1138	2980	IE1- 94.3	94.3	93.8	0.91	597	7.3	1.3	1.0	2.3	IBExU09ATEX1065	4.20	2000
IE1-K12R 355 MX2G Ex II 2D	400	1280	2985	IE1- 94.6	94.5	93.8	0.90	678	8.5	1.9	1.3	3.2	IBExU09ATEX1065	5.50	2200
IE1-K12R 355 L2G Ex II 2D	450	1441	2983	IE1- 94.7	94.5	93.8	0.92	746	7.2	1.3	1.0	2.4	IBExU09ATEX1065	7.10	2400

Progressive series KPR/K10R possible upon request
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1
Type of explosion protection – Protection by enclosure „tb“
for operation in Zone 21 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version															
IE1-KPE0 56 K4 Ex II 2D	0.06	0.41	1410	IE1- 60.1	56.5	49.6	0.60	0.24	3.1	2.3	2.3	2.7	DMT 00 ATEX E 012 X	0.00019	4.3
IE1-KPER 56 G4 Ex II 2D	0.09	0.63	1375	IE1- 61.6	58.7	53.0	0.68	0.31	3.2	1.9	1.9	2.2	DMT 00 ATEX E 012 X	0.00019	4.4
IE1-KPER 63 K4 Ex II 2D	0.12	0.84	1370	IE1- 57.9	51.2	42.2	0.68	0.44	3.2	1.9	1.8	2.2	DMT 00 ATEX E 012 X	0.00019	4.8
IE1-KPER 63 G4 Ex II 2D	0.18	1.26	1360	IE1- 60.6	57.5	49.4	0.66	0.65	3.3	2.0	2.0	2.3	DMT 00 ATEX E 012 X	0.00024	5.2
IE1-KPER 71 K4 Ex II 2D	0.25	1.72	1385	IE1- 64.3	63.2	58.2	0.72	0.78	3.6	1.8	1.8	2.1	DMT 00 ATEX E 012 X	0.00040	6.8
IE1-KPER 71 G4 Ex II 2D	0.37	2.58	1370	IE1- 68.1	66.7	62.0	0.74	1.06	3.8	2.0	2.0	2.2	DMT 00 ATEX E 012 X	0.00050	7.8
IE1-KPER 80 K4 Ex II 2D	0.55	3.75	1400	IE1- 71.9	70.7	64.1	0.69	1.6	4.1	2.1	2.0	2.3	DMT 00 ATEX E 012 X	0.00087	10.6
IE1-KPER 80 G4 Ex II 2D	0.75	5.12	1400	IE1- 73.6	72.2	66.8	0.70	2.1	4.6	2.2	2.1	2.3	DMT 00 ATEX E 012 X	0.00107	11.7
IE1-KPER 90 S4 Ex II 2D	1.1	7.45	1410	IE1- 76.7	76.8	73.6	0.79	2.62	5.5	2.3	2.2	2.5	DMT 00 ATEX E 012 X	0.00207	15.5
IE1-KPER 90 L4 Ex II 2D	1.5	10.2	1400	IE1- 78.6	79.1	76.9	0.81	3.4	5.5	2.5	2.4	2.6	DMT 00 ATEX E 012 X	0.00260	18.0
IE1-KPER 100 L4 Ex II 2D	2.2	14.9	1410	IE1- 80.2	80.7	79.5	0.80	4.95	6.0	2.5	2.3	2.7	DMT 00 ATEX E 012 X	0.00400	23.5
IE1-KPER 100 LX4 Ex II 2D	3.0	20	1430	IE1- 82.4	82.8	80.8	0.79	6.65	6.5	2.5	2.2	2.9	DMT 00 ATEX E 012 X	0.00725	30
IE1-KPER 112 M4 Ex II 2D	4.0	26.6	1435	IE1- 84.1	85.1	83.6	0.78	8.8	6.9	2.6	2.5	3.2	DMT 00 ATEX E 012 X	0.009	37
IE1-KPER 112 MX4 Ex II 2D	5.5	36.9	1425	IE1- 85.2	86.5	85.8	0.79	11.8	6.3	2.5	2.4	2.9	DMT 00 ATEX E 012 X	0.011	47
IE1-KPER 132 S4T Ex II 2D	5.5	36.9	1425	IE1- 85.2	86.5	85.8	0.79	11.8	6.3	2.5	2.4	2.9	DMT 00 ATEX E 012 X	0.011	47
IE1-K11R 132 S4 Ex II 2D	5.5	36	1440	IE1- 84.9	84.9	83.4	0.89	10.5	6.5	1.9	1.7	3.0	IBExU09ATEX1065	0.015	51
IE1-K11R 132 M4 Ex II 2D	7.5	49	1450	IE1- 86.5	85.5	84.0	0.84	15	6.0	2.0	1.7	2.9	IBExU09ATEX1065	0.028	73
IE1-K11R 160 M4 Ex II 2D	11.0	72	1450	IE1- 88.0	87.6	85.6	0.85	21	6.8	2.2	1.9	3.3	IBExU09ATEX1065	0.035	92
IE1-K11R 160 L4 Ex II 2D	15.0	98	1465	IE1- 88.7	88.3	85.8	0.86	28.5	7.3	2.5	2.0	3.0	IBExU09ATEX1065	0.078	132
IE1-K11R 180 M4 Ex II 2D	18.5	121	1460	IE1- 89.3	88.8	86.8	0.86	35	6.8	2.5	2.0	2.9	IBExU09ATEX1065	0.090	145
IE1-K11R 180 L4 Ex II 2D	22	143	1465	IE1- 89.9	89.9	88.4	0.84	42	6.5	2.0	1.8	2.6	IBExU09ATEX1065	0.138	185
IE1-K11R 200 L4 Ex II 2D	30	196	1465	IE1- 90.7	90.2	89.2	0.85	56	7.0	2.0	1.7	2.4	IBExU09ATEX1065	0.168	211
IE1-K11R 225 S4 Ex II 2D	37	240	1470	IE1- 91.2	90.2	89.2	0.86	68	7.0	2.0	1.7	2.5	IBExU09ATEX1065	0.275	282
IE1-K11R 225 M4 Ex II 2D	45	292	1470	IE1- 91.7	91.2	89.7	0.86	82.5	7.0	2.0	1.7	2.5	IBExU09ATEX1065	0.313	323
IE1-K11R 250 M4 Ex II 2D	55	356	1475	IE1- 92.3	91.8	90.8	0.86	100	7.0	2.2	1.7	2.3	IBExU09ATEX1065	0.525	394
IE1-K11R 280 S4 Ex II 2D	75	484	1480	IE1- 92.7	92.1	90.6	0.86	136	7.0	2.0	1.7	2.2	IBExU09ATEX1065	0.950	540
IE1-K11R 280 M4 Ex II 2D	90	581	1480	IE1- 93.3	92.2	89.7	0.86	162	7.0	2.1	1.6	2.2	IBExU09ATEX1065	1.10	610
IE1-K11R 315 S4 Ex II 2D	110	707	1485	IE1- 93.5	92.9	91.4	0.86	197	7.5	1.8	1.6	2.2	IBExU09ATEX1065	1.96	740
IE1-K11R 315 M4 Ex II 2D	132	849	1485	IE1- 93.5	92.9	91.9	0.86	237	7.0	1.8	1.5	2.2	IBExU09ATEX1065	2.27	840
IE1-K11R 315 MX4 Ex II 2D	160	1032	1480	IE1- 93.8	93.6	92.8	0.87	283	7.0	1.8	1.5	2.0	IBExU09ATEX1065	2.73	1000
IE1-K11R 315 MY4 Ex II 2D	200	1286	1485	IE1- 94.3	93.3	92.8	0.88	348	7.5	2.0	1.8	2.4	IBExU09ATEX1065	4.82	1200
IE1-K11R 315 L4 Ex II 2D	250	1608	1485	IE1- 94.3	93.2	92.7	0.90	425	8.0	2.0	1.6	2.3	IBExU09ATEX1065	5.93	1510
IE1-K11R 315 LX4 Ex II 2D	315	2019	1490	IE1- 94.5	93.5	93.2	0.88	547	8.6	1.9	1.5	2.5	IBExU09ATEX1065	6.82	1630
IE1-K12R 355 MY4 Ex II 2D	315	2016	1492	IE1- 94.0	93.9	92.4	0.85	569	7.1	1.4	1.0	2.9	IBExU09ATEX1065	5.60	1950
IE1-K12R 355 M4 Ex II 2D	355	2275	1490	IE1- 94.5	94.2	93.2	0.84	646	8.1	1.8	1.0	3.1	IBExU09ATEX1065	7.9	2150
IE1-K12R 355 MX4 Ex II 2D	400	2557	1494	IE1- 94.5	94.4	93.7	0.84	727	8.6	1.3	1.0	3.0	IBExU09ATEX1065	9.5	2400
IE1-K12R 355 L4 Ex II 2D	450	2884	1490	IE1- 94.5	94.4	93.7	0.82	838	8.0	1.2	1.0	3.0	IBExU09ATEX1065	10.0	2500

Progressive series KPR/K10R possible upon request

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1 Type of explosion protection – Protection by enclosure „tb“ for operation in Zone 21 according to EN 60079-31

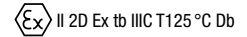
Ex II 2D Ex tb III C T125 °C Db

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version															
IE1-KPER 63 K6 Ex II 2D	0.09	0.96	895	IE1- 50.4	46.2	38.4	0.56	0.46	2.5	2.0	2.0	2.4	DMT 00 ATEX E 012 X	0.00024	4.9
IE1-KPER 63 G6 Ex II 2D	0.12	1.3	880	IE1- 52.4	50.1	43.2	0.56	0.59	2.5	2.0	2.0	2.3	DMT 00 ATEX E 012 X	0.00027	5.7
IE1-KPER 71 K6 Ex II 2D	0.18	1.86	925	IE1- 57.9	53.9	45.4	0.51	0.88	2.8	1.6	1.6	2.1	DMT 00 ATEX E 012 X	0.00045	7.4
IE1-KPER 71 G6 Ex II 2D	0.25	2.61	915	IE1- 59.6	57.5	49.5	0.55	1.1	2.9	2.0	2.0	2.2	DMT 00 ATEX E 012 X	0.00060	8.3
IE1-KPER 80 K6 Ex II 2D	0.37	3.86	915	IE1- 66.3	64.5	57.1	0.66	1.22	3.4	2.0	2.0	2.0	DMT 00 ATEX E 012 X	0.00130	11.0
IE1-KPER 80 G6 Ex II 2D	0.55	5.74	915	IE1- 68.5	67.0	60.7	0.67	1.73	3.7	2.2	2.2	2.4	DMT 00 ATEX E 012 X	0.00175	12.5
IE1-KPER 90 S6 Ex II 2D	0.75	7.66	935	IE1- 70.5	68.8	63.2	0.64	2.4	4.5	2.4	2.4	2.6	DMT 00 ATEX E 012 X	0.00325	16.0
IE1-KPER 90 L6 Ex II 2D	1.1	11.24	935	IE1- 73.4	73.0	68.4	0.68	3.18	4.6	2.2	2.2	2.6	DMT 00 ATEX E 012 X	0.00425	19.0
IE1-KPER 100 L6 Ex II 2D	1.5	15.16	945	IE1- 76.0	75.2	71.1	0.73	3.9	4.6	2.1	2.0	2.4	DMT 00 ATEX E 012 X	0.00625	24.0
IE1-KPER 112 M6 Ex II 2D	2.2	22.12	950	IE1- 78.1	78.8	75.8	0.76	5.35	5.3	2.2	2.1	2.7	DMT 00 ATEX E 012 X	0.01225	33.5
IE1-KPER 132 S6T Ex II 2D	3.0	30.6	935	IE1- 81.9	82.8	81.4	0.75	7.05	5.2	2.5	2.5	2.9	DMT 00 ATEX E 012 X	0.0139	39.0
IE1-K11R 132 S6 Ex II 2D	3.0	30	955	IE1- 79.7	79.7	76.2	0.82	6.6	5.7	1.8	1.6	2.7	IBExU09ATEX1065	0.0180	46
IE1-K11R 132 M6 Ex II 2D	4.0	40	955	IE1- 81.4	80.4	75.4	0.80	8.9	6.0	2.2	2.0	3.1	IBExU09ATEX1065	0.0230	56
IE1-K11R 132 MX6 Ex II 2D	5.5	55	955	IE1- 83.3	83.3	81.3	0.83	11.5	5.0	1.8	1.5	2.3	IBExU09ATEX1065	0.0430	72
IE1-K11R 160 M6 Ex II 2D	7.5	75	960	IE1- 85.0	84.0	80.0	0.82	15.5	5.5	2.0	1.6	2.5	IBExU09ATEX1065	0.0530	91
IE1-K11R 160 L6 Ex II 2D	11.0	109	965	IE1- 86.4	86.2	84.2	0.86	21.5	5.0	2.0	1.7	2.3	IBExU09ATEX1065	0.1130	122
IE1-K11R 180 L6 Ex II 2D	15.0	148	965	IE1- 87.7	86.7	83.7	0.83	29.5	6.0	2.4	2.1	2.7	IBExU09ATEX1065	0.1450	142
IE1-K11R 200 L6 Ex II 2D	18.5	182	970	IE1- 88.6	88.5	86.5	0.87	34.5	5.5	2.0	1.7	2.4	IBExU09ATEX1065	0.2280	190
IE1-K11R 200 LX6 Ex II 2D	22	217	970	IE1- 89.2	88.9	86.4	0.87	41	6.2	2.2	1.8	2.6	IBExU09ATEX1065	0.2680	208
IE1-K11R 225 M6 Ex II 2D	30	295	973	IE1- 90.2	89.8	87.8	0.89	54	6.5	2.2	1.7	2.5	IBExU09ATEX1065	0.4430	284
IE1-K11R 250 M6 Ex II 2D	37	362	975	IE1- 90.8	90.6	87.8	0.89	66	6.5	2.2	1.7	2.3	IBExU09ATEX1065	0.8250	376
IE1-K11R 280 S6 Ex II 2D	45	439	980	IE1- 91.4	91.4	89.4	0.87	81.5	6.0	2.0	1.5	2.0	IBExU09ATEX1065	1.28	465
IE1-K11R 280 M6 Ex II 2D	55	536	980	IE1- 91.9	91.4	89.4	0.88	98	6.5	2.3	1.7	2.4	IBExU09ATEX1065	1.48	575
IE1-K11R 315 S6 Ex II 2D	75	727	985	IE1- 92.7	92.0	91.0	0.87	134	7.0	2.0	1.6	2.4	IBExU09ATEX1065	2.63	690
IE1-K11R 315 M6 Ex II 2D	90	868	990	IE1- 93.4	92.5	91.0	0.88	158	7.0	2.0	1.7	2.4	IBExU09ATEX1065	3.33	800
IE1-K11R 315 MX6 Ex II 2D	110	1061	990	IE1- 93.3	93.1	91.6	0.88	193	7.5	2.2	1.7	2.6	IBExU09ATEX1065	3.60	880
IE1-K11R 315 MY6 Ex II 2D	132	1273	990	IE1- 94.0	93.7	92.5	0.88	230	7.5	2.0	1.7	2.4	IBExU09ATEX1065	6.00	1050
IE1-K11R 315 L6 Ex II 2D	160	1551	985	IE1- 94.3	94.0	92.8	0.89	275	7.5	2.3	1.9	2.4	IBExU09ATEX1065	6.67	1250
IE1-K11R 315 LX6 Ex II 2D	200	1929	990	IE1- 94.2	93.9	93.2	0.87	352	8.3	2.2	2.0	2.7	IBExU09ATEX1065	8.6	1460
IE1-K12R 355 MY6 Ex II 2D	180	1735	990	IE1- 94.0	94.1	95.3	0.86	321	8.5	2.5	1.6	2.6	IBExU09ATEX1065	8.1	1550
IE1-K12R 355 M6 Ex II 2D	250	2402	994	IE1- 94.5	94.2	93.3	0.81	471	7.0	1.8	1.3	2.3	IBExU09ATEX1065	8.2	1850
IE1-K12R 355 MX6 Ex II 2D	315	3023	995	IE1- 94.5	94.5	93.8	0.83	580	6.8	1.6	1.3	2.5	IBExU09ATEX1065	12.1	2200
IE1-K12R 355 LY6 Ex II 2D	355	3407	995	IE1- 94.4	94.2	92.4	0.78	696	7.4	1.9	1.4	2.6	IBExU09ATEX1065	14.0	2400

Progressive series KPR/K10R possible upon request
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1
Type of explosion protection – Protection by enclosure „tb“
for operation in Zone 21 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 750 rpm – 8-pole version															
IE1-KPER 71 K8 Ex II 2D	0.09	1.27	675	- 45.5	42.1	34.8	0.51	0.56	2.1	1.9	1.9	2.1	DMT 00 ATEX E 012 X	0.00050	6.6
IE1-KPER 71 G8 Ex II 2D	0.12	1.71	670	- 46.5	42.1	33.7	0.51	0.73	2.3	1.8	1.8	2.1	DMT 00 ATEX E 012 X	0.00060	8.1
IE1-KPER 80 K8 Ex II 2D	0.18	2.49	690	- 56.5	53.4	45.0	0.59	0.78	2.8	2.0	2.0	2.2	DMT 00 ATEX E 012 X	0.00130	10.5
IE1-KPER 80 G8 Ex II 2D	0.25	3.44	695	- 57.5	54.1	46.1	0.56	1.12	3.0	2.3	2.3	2.5	DMT 00 ATEX E 012 X	0.00175	12.0
IE1-KPER 90 S8 Ex II 2D	0.37	5.05	700	- 61.8	59.7	52.8	0.54	1.60	3.0	1.9	1.9	2.1	DMT 00 ATEX E 012 X	0.00300	15.0
IE1-KPER 90 L8 Ex II 2D	0.55	7.56	695	- 64.8	62.5	55.8	0.60	2.04	3.2	1.9	1.9	2.2	DMT 00 ATEX E 012 X	0.00375	18.0
IE1-KPER 100 L8 Ex II 2D	0.75	10.2	705	- 66.8	64.7	57.9	0.60	2.70	3.3	1.8	1.8	2.2	DMT 00 ATEX E 012 X	0.00625	23.0
IE1-KPER 100 LX8 Ex II 2D	1.1	14.9	705	- 72.9	73.3	69.6	0.67	3.25	4.0	2.0	2.0	2.4	DMT 00 ATEX E 012 X	0.00900	28.0
IE1-KPER 112 M8 Ex II 2D	1.5	20.3	705	- 75.4	75.7	72.4	0.70	4.10	4.4	2.2	2.1	2.5	DMT 00 ATEX E 012 X	0.01225	33.5
IE1-KPER 132 S8T Ex II 2D	2.2	31	685	- 74.1	74.8	72.4	0.68	6.30	3.8	2.0	1.9	2.3	DMT 00 ATEX E 012 X	0.01390	39.0
IE1-K11R 132 S8 Ex II 2D	2.2	30	705	IE1- 75.5	75.0	72.0	0.76	5.5	4.5	1.7	1.6	2.3	IBExU09ATEX1065	0.01800	46
IE1-K11R 132 M8 Ex II 2D	3.0	41	705	IE1- 78.0	78.0	75.0	0.75	7.4	4.5	1.7	1.6	2.3	IBExU09ATEX1065	0.0230	53
IE1-K11R 160 M8 Ex II 2D	4.0	54	710	IE1- 79.3	79.0	77.0	0.78	9.3	4.0	1.6	1.3	1.9	IBExU09ATEX1065	0.0430	70
IE1-K11R 160 MX8 Ex II 2D	5.5	74	710	IE1- 81.4	81.0	78.0	0.78	12.5	4.5	1.7	1.6	2.1	IBExU09ATEX1065	0.0530	86
IE1-K11R 160 L8 Ex II 2D	7.5	99	725	IE1- 83.0	83.0	79.0	0.78	16.5	4.5	1.8	1.6	2.1	IBExU09ATEX1065	0.1130	114
IE1-K11R 180 L8 Ex II 2D	11.0	146	720	IE1- 85.0	84.0	81.5	0.78	24	4.5	2.0	1.7	2.1	IBExU09ATEX1065	0.1450	136
IE1-K11R 200 L8 Ex II 2D	15.0	198	725	IE1- 86.5	86.0	83.0	0.79	31.5	5.0	2.0	1.7	2.3	IBExU09ATEX1065	0.228	175
IE1-K11R 225 S8 Ex II 2D	18.5	244	725	IE1- 89.2	88.0	86.0	0.83	36	5.5	2.0	1.6	2.2	IBExU09ATEX1065	0.440	265
IE1-K11R 225 M8 Ex II 2D	22	290	725	IE1- 89.2	89.0	88.5	0.84	42.5	5.0	1.8	1.5	2.2	IBExU09ATEX1065	0.440	265
IE1-K11R 250 M8 Ex II 2D	30	393	730	IE1- 89.7	89.5	86.5	0.79	61	5.5	2.2	1.8	2.2	IBExU09ATEX1065	0.825	360
IE1-K11R 280 S8 Ex II 2D	37	481	735	IE1- 90.5	90.0	87.5	0.80	74	5.5	2.0	1.5	2.0	IBExU09ATEX1065	1.35	465
IE1-K11R 280 M8 Ex II 2D	45	585	735	IE1- 91.0	90.5	88.0	0.77	92.5	6.0	2.3	1.8	2.4	IBExU09ATEX1065	1.55	520
IE1-K11R 315 S8 Ex II 2D	55	710	740	IE1- 92.1	91.0	89.5	0.80	108	6.5	1.8	1.6	2.3	IBExU09ATEX1065	2.63	690
IE1-K11R 315 M8 Ex II 2D	75	968	740	IE1- 92.3	92.0	90.5	0.81	145	6.0	2.0	1.6	2.3	IBExU09ATEX1065	3.33	800
IE1-K11R 315 MX8 Ex II 2D	90	1162	740	IE1- 92.5	92.0	90.5	0.81	173	6.0	1.9	1.6	2.2	IBExU09ATEX1065	3.60	880
IE1-K11R 315 MY8 Ex II 2D	110	1420	740	IE1- 93.6	93.0	91.0	0.81	209	6.5	2.1	1.8	2.4	IBExU09ATEX1065	6.00	1100
IE1-K11R 315 L8 Ex II 2D	132	1704	740	IE1- 94.0	93.3	91.0	0.83	244	6.3	2.0	1.7	2.1	IBExU09ATEX1065	6.76	1250
IE1-K11R 315 LX8 Ex II 2D	160	2065	740	IE1- 94.2	93.5	91.0	0.79	310	7.2	2.2	1.9	2.5	IBExU09ATEX1065	8.71	1430
IE1-K12R 355 MY8 Ex II 2D	160	2054	744	IE1- 93.5	93.3	92.5	0.80	309	6.8	1.3	1.0	2.5	IBExU09ATEX1065	9.3	1700
IE1-K12R 355 M8 Ex II 2D	200	2571	743	IE1- 93.9	93.6	92.8	0.77	399	6.5	1.6	1.0	2.7	IBExU09ATEX1065	9.5	1850
IE1-K12R 355 MX8 Ex II 2D	250	3209	744	IE1- 94.1	93.9	92.8	0.78	492	6.6	1.3	1.0	2.8	IBExU09ATEX1065	13.4	2200
IE1-K12R 355 LY8 Ex II 2D	280	3594	744	IE1- 93.6	93.4	92.3	0.78	554	8.2	1.2	1.0	2.8	IBExU09ATEX1065	15.8	2400

Progressive series KPR/K10R possible upon request

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor

Type of explosion protection – Protection by enclosure „tb“ for operation in Zone 21 according to EN 60079-31

Ex II 2D Ex tb IIC T125 °C Db

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data												Design point 400 V, 50 Hz	
Type	P	M _B	n _B	η _B	cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	Certificate no. IBExU...	J	m
	kW	Nm	rpm	100 %	75 %	-	-	-	-	-	-	kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version													
KPEO 56 K2 U Ex II 2D	0.09	0.3	2840	70.0	67.5	0.74	0.25	4.9	2.3	2.3	DMT 00 ATEX E 012 X	0.00013	4.4
KPER 56 G2 Ex II 2D	0.12	0.4	2830	70.3	69.6	0.77	0.32	4.5	2.1	2.3	DMT 00 ATEX E 012 X	0.00013	4.5
KPER 63 K2 Ex II 2D	0.18	0.6	2790	67.1	63.1	0.76	0.51	4.1	1.9	1.9	DMT 00 ATEX E 012 X	0.00013	4.9
KPER 63 G2 Ex II 2D	0.25	0.9	2800	68.1	65.6	0.72	0.74	4.2	2.2	2.2	DMT 00 ATEX E 012 X	0.00015	5.2
KPER 71 K2 Ex II 2D	0.37	1.3	2780	71.5	69.7	0.79	0.94	4.4	2.1	2.3	DMT 00 ATEX E 012 X	0.00025	6.7
KPER 71 G2 Ex II 2D	0.55	1.9	2775	74.3	72.7	0.81	1.32	5.1	2.3	2.1	DMT 00 ATEX E 012 X	0.00032	7.6
KPER 80 K2 Ex II 2D	0.75	2.5	2825	77.5	77.3	0.81	1.72	5.9	2.4	2.4	DMT 00 ATEX E 012 X	0.00057	10.7
KPER 80 G2 Ex II 2D	1.1	3.7	2835	77.8	77.4	0.80	2.55	6.0	2.4	2.3	DMT 00 ATEX E 012 X	0.00072	11.5
KPER 90 S2 Ex II 2D	1.5	5	2840	81.2	80.2	0.86	3.1	7.0	2.5	2.5	DMT 00 ATEX E 012 X	0.00132	16.0
KPER 90 L2 Ex II 2D	2.2	7.4	2850	82.0	81.5	0.85	4.55	7.5	2.8	2.3	DMT 00 ATEX E 012 X	0.0017	19.0
KPER 100 L2 Ex II 2D	3.0	10	2865	83.4	84.2	0.84	6.15	6.8	2.4	2.2	DMT 00 ATEX E 012 X	0.00275	25.0
KPER 112 M2 Ex II 2D	4.0	13.2	2900	85.0	86.3	0.81	8.4	7.0	2.2	2.1	DMT 00 ATEX E 012 X	0.0045	32
KPER 132 S2T Ex II 2D	5.5	18.2	2890	86.3	86.6	0.84	11	7.5	2.4	2.2	DMT 00 ATEX E 012 X	0.0055	40
K21Q 132 S2 Ex II 2D	5.5	18	2890	81.5	85.7	0.85	11.5	5.8	1.9	1.7	IBExU 02 ATEX 1019	0.0081	50
K21Q 132 S2 Ex II 2D	7.5	25	2900	87.0	87.0	0.86	14.5	6.6	1.8	1.3	IBExU 02 ATEX 1019	0.0110	57
K21Q 160 M2 Ex II 2D	11.0	36	2900	88.5	88.5	0.90	20	7.0	2.2	1.8	IBExU 02 ATEX 1019	0.0258	81
K21Q 160 MX2 Ex II 2D	15.0	49	2930	89.4	89.4	0.90	27	7.1	2.2	1.7	IBExU 02 ATEX 1019	0.0575	118
K21Q 160 L2 Ex II 2D	18.5	61	2920	90.5	89.5	0.92	32	7.2	2.1	1.6	IBExU 02 ATEX 1019	0.0675	134
K21Q 180 M2 Ex II 2D	22.0	72	2935	91.8	91.0	0.92	37.5	6.8	1.7	1.4	IBExU 02 ATEX 1019	0.105	165
K21Q 200 L2 Ex II 2D	30.0	97	2940	92.8	92.0	0.92	50.5	7.3	2.0	1.6	IBExU 02 ATEX 1019	0.128	195
K21Q 200 LX2 Ex II 2D	37.0	120	2940	93.0	92.0	0.90	64	7.0	1.8	1.3	IBExU 02 ATEX 1019	0.193	255
K21Q 225 M2 Ex II 2D	45.0	146	2940	93.7	93.0	0.91	76	7.5	1.8	1.4	IBExU 02 ATEX 1019	0.220	290
K21Q 250 M2 Ex II 2D	55.0	178	2955	93.7	92.5	0.91	93	7.5	2.0	1.5	IBExU 02 ATEX 1019	0.375	360
K21Q 280 S2 Ex II 2D	75.0	241	2970	94.6	93.5	0.92	124	7.5	2.0	1.6	IBExU 02 ATEX 1019	0.650	490
K21Q 280 M2 Ex II 2D	90.0	289	2970	94.7	94.2	0.91	151	8.5	2.2	1.8	IBExU 02 ATEX 1019	0.675	510
K21Q 315 S2 Ex II 2D	110	353	2975	95.4	94.5	0.91	183	8.5	1.5	1.3	IBExU 02 ATEX 1019	1.21	720
K21Q 315 M2 Ex II 2D	132	424	2975	95.4	94.5	0.91	219	8.5	2.0	1.8	IBExU 02 ATEX 1019	1.44	800
K21Q 315 MX2 Ex II 2D	160	514	2975	96.0	95.0	0.93	259	8.5	2.0	1.6	IBExU 02 ATEX 1019	1.76	980
K21Q 315 MY2 Ex II 2D	200	643	2970	96.0	95.2	0.92	327	8.2	2.6	2.0	IBExU 02 ATEX 1019	2.82	1170
K21Q 315 L2 Ex II 2D	250	803	2973	96.1	95.2	0.93	404	7.3	2.1	1.4	IBExU 02 ATEX 1019	3.66	1460
K21Q 315 LX2 Ex II 2D	315	1011	2975	96.7	95.5	0.92	511	7.4	2.4	1.4	IBExU 02 ATEX 1019	4.43	1630
Synchronous speed 1500 rpm – 4-pole version													
KPEO 56 K4 U Ex II 2D	0.06	0.4	1410	60.5	56.8	0.60	0.24	3.1	2.3	2.3	DMT 00 ATEX E 012 X	0.00019	4.3
KPER 56 G4 Ex II 2D	0.09	0.6	1375	62.0	61	0.68	0.31	3.2	1.9	1.9	DMT 00 ATEX E 012 X	0.00019	4.4
KPER 63 K4 Ex II 2D	0.12	0.8	1370	57.5	56.7	0.68	0.44	3.2	1.9	1.8	DMT 00 ATEX E 012 X	0.00019	4.8
KPER 63 G4 Ex II 2D	0.18	1.3	1360	61.0	56.5	0.66	0.65	3.3	2.0	2.0	DMT 00 ATEX E 012 X	0.00024	5.2
KPER 71 K4 Ex II 2D	0.25	1.7	1385	64.6	62.3	0.72	0.78	3.6	1.8	1.8	DMT 00 ATEX E 012 X	0.00040	6.8
KPER 71 G4 Ex II 2D	0.37	2.6	1370	67.8	66.9	0.74	1.06	3.8	2.0	2.0	DMT 00 ATEX E 012 X	0.00050	7.8
KPER 80 K4 Ex II 2D	0.55	3.8	1400	71.5	69.3	0.69	1.60	4.1	2.1	2.0	DMT 00 ATEX E 012 X	0.00087	10.6
KPER 80 G4 Ex II 2D	0.75	5.1	1400	73.5	70.8	0.70	2.10	4.6	2.2	2.1	DMT 00 ATEX E 012 X	0.00107	11.7
KPER 90 S4 Ex II 2D	1.1	7.5	1410	76.6	75.3	0.79	2.62	5.5	2.3	2.2	DMT 00 ATEX E 012 X	0.00207	15.5
KPER 90 L4 Ex II 2D	1.5	10.2	1400	78.8	77.9	0.81	3.40	5.5	2.5	2.4	DMT 00 ATEX E 012 X	0.00260	18.0
KPER 100 L4 Ex II 2D	2.2	14.9	1410	81.2	82	0.79	4.95	6.0	2.5	2.3	DMT 00 ATEX E 012 X	0.00400	23.5
KPER 100 LX4 Ex II 2D	3.0	20	1430	82.6	82.6	0.79	6.65	6.5	2.5	2.2	DMT 00 ATEX E 012 X	0.00725	30
KPER 112 M4 Ex II 2D	4.0	26.6	1435	84.2	83.6	0.78	8.80	6.9	2.6	2.5	DMT 00 ATEX E 012 X	0.00900	37
K21Q 132 S4 Ex II 2D	5.5	36	1440	85.7	85.7	0.89	10.5	6.5	1.9	1.7	IBExU 02 ATEX 1019	0.0150	50
K21Q 132 M4 Ex II 2D	7.5	49	1450	87.0	86.0	0.84	15	6.0	2.0	1.7	IBExU 02 ATEX 1019	0.0280	70
K21Q 160 M4 Ex II 2D	11.0	72	1450	88.4	88.0	0.85	21	6.8	2.2	1.9	IBExU 02 ATEX 1019	0.0350	92
K21Q 160 L4 Ex II 2D	15.0	98	1465	89.4	89.0	0.86	28	7.3	2.5	2.0	IBExU 02 ATEX 1019	0.0780	120
K21Q 180 M4 Ex II 2D	18.5	121	1460	90.0	89.5	0.86	34.5	6.8	2.5	2.0	IBExU 02 ATEX 1019	0.0900	136
K21Q 180 L4 Ex II 2D	22.0	143	1465	90.5	90.5	0.84	42	6.5	2.0	1.8	IBExU 02 ATEX 1019	0.138	170
K21Q 200 L4 Ex II 2D	30.0	196	1465	91.5	91.0	0.85	55.5	7.0	2.0	1.7	IBExU 02 ATEX 1019	0.168	200
K21Q 225 S4 Ex II 2D	37.0	240	1470	92.5	91.5	0.86	67	7.0	2.0	1.7	IBExU 02 ATEX 1019	0.275	270
K21Q 225 M4 Ex II 2D	45.0	292	1470	93.0	92.5	0.86	81	7.0	2.0	1.7	IBExU 02 ATEX 1019	0.313	300
K21Q 250 M4 Ex II 2D	55.0	356	1475	93.5	93.0	0.86	98.5	7.0	2.2	1.7	IBExU 02 ATEX 1019	0.525	375
K21Q 280 S4 Ex II 2D	75.0	484	1480	94.1	93.5	0.86	134	7.0	2.0	1.7	IBExU 02 ATEX 1019	0.950	520
K21Q 280 M4 Ex II 2D	90.0	581	1480	94.6	93.5	0.86	160	7.0	2.1	1.6	IBExU 02 ATEX 1019	1.10	580
K21Q 315 S4 Ex II 2D	110	707	1485	95.1	94.5	0.86	194	7.5	1.8	1.6	IBExU 02 ATEX 1019	1.96	740
K21Q 315 M4 Ex II 2D	132	849	1485	95.1	94.5	0.86	233	7.0	1.8	1.5	IBExU 02 ATEX 1019	2.27	840
K21Q 315 MX4 Ex II 2D	160	1032	1480	95.0	94.8	0.87	279	7.0	1.8	1.5	IBExU 02 ATEX 1019	2.73	1000
K21Q 315 MY4 Ex II 2D	200	1286	1485	96.0	95.0	0.88	342	7.5	2.0	1.8	IBExU 02 ATEX 1019	4.82	1200
K21Q 315 L4 Ex II 2D	250	1608	1485	96.1	95.0	0.90	417	8.0	2.0	1.6	IBExU 02 ATEX 1019	5.93	1450
K21Q 315 LX4 Ex II 2D	315	2019	1490	96.5	95.5	0.88	535	8.6	1.9	1.5	IBExU 02 ATEX 1019	6.82	1630

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor

Type of explosion protection – Protection by enclosure „tb“
for operation in Zone 21 according to EN 60079-31

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data												Design point 400 V, 50 Hz		
Type	P	M _B	n	η _B		cosφ _B	I	I _A /I _B	M _A /M	M _S /M	M _K /M	Certificate no. IBExU...	J	m
	kW	Nm	rpm	100 %	75 %	-	400 V A	-	-	-	-		kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version														
KPER 63 K6 Ex II 2D	0.09	1	895	50.5	45.3	0.56	0.46	2.5	2.0	2.0	2.4	DMT 00 ATEX E 012 X	0.00024	4.9
KPER 63 G6 Ex II 2D	0.12	1.3	880	52.0	48	0.56	0.59	2.5	2.0	2.0	2.3	DMT 00 ATEX E 012 X	0.00027	5.7
KPER 71 K6 Ex II 2D	0.18	1.9	925	58.0	54.5	0.51	0.88	2.8	1.6	1.6	2.1	DMT 00 ATEX E 012 X	0.00045	7.4
KPER 71 G6 Ex II 2D	0.25	2.6	915	60.0	56.5	0.55	1.10	2.9	2.0	2.0	2.2	DMT 00 ATEX E 012 X	0.00060	8.3
KPER 80 K6 Ex II 2D	0.37	3.9	915	66.0	62.5	0.66	1.22	3.4	2.0	2.0	2.0	DMT 00 ATEX E 012 X	0.00130	11.0
KPER 80 G6 Ex II 2D	0.55	5.7	915	68.0	65.5	0.67	1.73	3.7	2.2	2.2	2.4	DMT 00 ATEX E 012 X	0.00175	12.5
KPER 90 S6 Ex II 2D	0.75	7.7	935	70.0	67.5	0.64	2.43	4.5	2.4	2.4	2.6	DMT 00 ATEX E 012 X	0.00325	16.0
KPER 90 L6 Ex II 2D	1.1	11.2	935	73.0	70	0.69	3.15	4.6	2.2	2.2	2.6	DMT 00 ATEX E 012 X	0.00425	19.0
KPER 100 L6 Ex II 2D	1.5	15.2	945	76.4	76.2	0.73	3.90	4.6	2.1	2.0	2.4	DMT 00 ATEX E 012 X	0.00625	24.0
KPER 112 M6 Ex II 2D	2.2	22.1	950	79.8	78.9	0.74	5.35	5.3	2.2	2.1	2.7	DMT 00 ATEX E 012 X	0.01225	33.5
K21Q 132 S6 Ex II 2D	3.0	30	955	78.5	78.5	0.82	6.7	5.7	1.8	1.6	2.7	IBExU 02 ATEX 1019	0.0180	46
K21Q 132 M6 Ex II 2D	4.0	40	955	80.0	79.0	0.80	9	6.0	2.2	2.0	3.1	IBExU 02 ATEX 1019	0.0230	53
K21Q 132 MX6 Ex II 2D	5.5	55	955	83.0	83.0	0.83	11.5	5.0	1.8	1.5	2.3	IBExU 02 ATEX 1019	0.0430	70
K21Q 160 M6 Ex II 2D	7.5	75	960	85.0	84.0	0.82	15.5	5.5	2.0	1.6	2.5	IBExU 02 ATEX 1019	0.0530	86
K21Q 160 L6 Ex II 2D	11.0	109	965	85.2	85.0	0.86	21.5	5.0	2.0	1.7	2.3	IBExU 02 ATEX 1019	0.113	114
K21Q 180 L6 Ex II 2D	15.0	148	965	86.0	85.0	0.83	30.5	6.0	2.4	2.1	2.7	IBExU 02 ATEX 1019	0.145	136
K21Q 200 L6 Ex II 2D	18.5	182	970	88.1	88.0	0.87	35	5.5	2.0	1.7	2.4	IBExU 02 ATEX 1019	0.228	175
K21Q 200 LX6 Ex II 2D	22.0	217	970	88.8	88.5	0.87	41	6.2	2.2	1.8	2.6	IBExU 02 ATEX 1019	0.268	200
K21Q 225 M6 Ex II 2D	30.0	294	973	90.4	90.0	0.89	54	6.5	2.2	1.7	2.5	IBExU 02 ATEX 1019	0.443	284
K21Q 250 M6 Ex II 2D	37.0	362	975	91.0	90.8	0.89	66	6.5	2.2	1.7	2.3	IBExU 02 ATEX 1019	0.825	375
K21Q 280 S6 Ex II 2D	45.0	439	980	92.0	92.0	0.87	81	6.0	2.0	1.5	2.0	IBExU 02 ATEX 1019	1.28	465
K21Q 280 M6 Ex II 2D	55.0	536	980	92.5	92.0	0.88	97.5	6.5	2.3	1.7	2.4	IBExU 02 ATEX 1019	1.48	575
K21Q 315 S6 Ex II 2D	75	727	985	93.7	93.0	0.87	133	7.0	2.0	1.6	2.4	IBExU 02 ATEX 1019	2.63	690
K21Q 315 M6 Ex II 2D	90	868	990	94.4	93.5	0.88	156	7.0	2.0	1.7	2.4	IBExU 02 ATEX 1019	3.33	800
K21Q 315 MX6 Ex II 2D	110	1061	990	94.0	93.8	0.88	192	7.5	2.2	1.7	2.6	IBExU 02 ATEX 1019	3.60	880
K21Q 315 MY6 Ex II 2D	132	1273	990	95.0	94.7	0.88	228	7.5	2.0	1.7	2.4	IBExU 02 ATEX 1019	6.00	1050
K21Q 315 L6 Ex II 2D	160	1551	985	95.3	95.0	0.89	272	7.5	2.3	1.9	2.4	IBExU 02 ATEX 1019	6.67	1250
K21Q 315 LX6 Ex II 2D	180	1735	990	95.0	94.7	0.87	321	8.5	2.5	1.6	2.6	IBExU 02 ATEX 1019	8.60	1460
Synchronous speed 750 rpm – 8-pole version														
KPER 71 K8 Ex II 2D	0.09	1.3	675	45.5	40.3	0.51	0.56	2.1	1.9	1.9	2.1	DMT 00 ATEX E 012 X	0.00050	6.6
KPER 71 G8 Ex II 2D	0.12	1.7	670	46.5	41.3	0.51	0.73	2.3	1.8	1.8	2.1	DMT 00 ATEX E 012 X	0.00060	8.1
KPER 80 K8 Ex II 2D	0.18	2.5	690	56.5	53.8	0.59	0.78	2.8	2.0	2.0	2.2	DMT 00 ATEX E 012 X	0.00130	10.5
KPER 80 G8 Ex II 2D	0.25	3.4	695	58.0	54	0.56	1.12	3.0	2.3	2.3	2.5	DMT 00 ATEX E 012 X	0.00175	12.0
KPER 90 S8 Ex II 2D	0.37	5	700	61.5	56.3	0.54	1.6	3.0	1.9	1.9	2.1	DMT 00 ATEX E 012 X	0.00300	15.0
KPER 90 L8 Ex II 2D	0.55	7.6	695	64.5	61.8	0.60	2.04	3.2	1.9	1.9	2.2	DMT 00 ATEX E 012 X	0.00375	18.0
KPER 100 L8 Ex II 2D	0.75	10.2	705	67.0	64	0.60	2.7	3.3	1.8	1.8	2.2	DMT 00 ATEX E 012 X	0.00625	23.0
KPER 100 LX8 Ex II 2D	1.1	14.9	705	73.0	72.5	0.67	3.25	4.0	2.0	2.0	2.4	DMT 00 ATEX E 012 X	0.00900	28.0
KPER 112 M8 Ex II 2D	1.5	20.3	705	75.5	75.3	0.70	4.1	4.4	2.2	2.1	2.5	DMT 00 ATEX E 012 X	0.01225	33.5
K21Q 132 S8 Ex II 2D	2.2	30	705	75.5	75.0	0.76	5.5	4.5	1.7	1.6	2.3	IBExU 02 ATEX 1019	0.0180	46
K21Q 132 M8 Ex II 2D	3.0	41	705	78.0	78.0	0.75	7.4	4.5	1.7	1.6	2.3	IBExU 02 ATEX 1019	0.0230	53
K21Q 160 M8 Ex II 2D	4.0	54	710	79.3	79.0	0.78	9.3	4.0	1.6	1.3	1.9	IBExU 02 ATEX 1019	0.0430	70
K21Q 160 MX8 Ex II 2D	5.5	74	710	81.4	81.0	0.78	12.5	4.5	1.7	1.6	2.1	IBExU 02 ATEX 1019	0.0530	86
K21Q 160 L8 Ex II 2D	7.5	99	725	83.0	83.0	0.78	16.5	4.5	1.8	1.6	2.1	IBExU 02 ATEX 1019	0.113	114
K21Q 180 L8 Ex II 2D	11.0	146	720	85.0	84.0	0.78	24	4.5	2.0	1.7	2.1	IBExU 02 ATEX 1019	0.145	136
K21Q 200 L8 Ex II 2D	15.0	198	725	86.5	86.0	0.79	31.5	5.0	2.0	1.7	2.3	IBExU 02 ATEX 1019	0.228	175
K21Q 225 S8 Ex II 2D	18.5	244	725	89.2	88.0	0.83	36	5.5	2.0	1.6	2.2	IBExU 02 ATEX 1019	0.440	265
K21Q 225 M8 Ex II 2D	22.0	290	725	89.2	89.0	0.84	42.5	5.0	1.8	1.5	2.2	IBExU 02 ATEX 1019	0.440	265
K21Q 250 M8 Ex II 2D	30.0	392	730	90.2	90.0	0.79	61	5.5	2.2	1.8	2.2	IBExU 02 ATEX 1019	0.825	360
K21Q 280 S8 Ex II 2D	37.0	481	735	91.0	90.5	0.80	73.5	5.5	2.0	1.5	2.0	IBExU 02 ATEX 1019	1.35	465
K21Q 280 M8 Ex II 2D	45.0	585	735	91.5	91.0	0.77	92	6.0	2.3	1.8	2.4	IBExU 02 ATEX 1019	1.55	520
K21Q 315 S8 Ex II 2D	55	710	740	93.1	92.0	0.80	107	6.5	1.8	1.6	2.3	IBExU 02 ATEX 1019	2.63	690
K21Q 315 M8 Ex II 2D	75	968	740	93.3	93.0	0.81	143	6.0	2.0	1.6	2.3	IBExU 02 ATEX 1019	3.33	800
K21Q 315 MX8 Ex II 2D	90	1161	740	93.5	93.0	0.81	172	6.0	1.9	1.6	2.2	IBExU 02 ATEX 1019	3.60	880
K21Q 315 MY8 Ex II 2D	110	1420	740	94.6	94.0	0.81	207	6.5	2.1	1.8	2.4	IBExU 02 ATEX 1019	6.00	1050
K21Q 315 L8 Ex II 2D	132	1704	740	95.0	94.3	0.83	242	6.3	2.0	1.7	2.1	IBExU 02 ATEX 1019	6.76	1250
K21Q 315 LX8 Ex II 2D	160	2065	740	95.2	94.5	0.79	307	7.2	2.2	1.9	2.5	IBExU 02 ATEX 1019	8.71	1430

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3 Type of explosion protection – Protection by enclosure „tc“ for operation in Zone 22 according to EN 60079-31

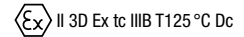
II 3D Ex tc IIIB T125 °C Dc

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m	
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	kgm²	kg	
Synchronous speed 3000 rpm – 2-pole version															
IE3-KPER 90 S2 Ex II 3D	1.5	4.94	2900	IE3- 84.2	85.4	83.2	0.81	3.12	7.9	3.5	3.5	4.4	0.0017	19	
IE3-KPR 90 S2 Ex II 3D	1.5	4.92	2910	IE3- 84.2	86.6	84.5	0.86	2.9	9.1	3.0	2.7	3.7	0.00275	23.5	
IE3-KPR 90 LY2 Ex II 3D	2.2	7.3	2880	IE3- 85.9	85.7	83.9	0.88	4.25	8.0	2.5	2.3	2.9	0.00275	23.5	
IE3-KPR 90 L2 Ex II 3D	2.2	7.23	2905	IE3- 85.9	87.7	86.0	0.89	4.05	8.6	2.7	2.3	3.7	0.00333	29	
IE3-KPR 100 LY2 Ex II 3D	3	9.81	2920	IE3- 87.1	88.0	86.3	0.82	6	7.7	2.3	2.2	3.5	0.0045	31	
IE3-KPR 100 L2 Ex II 3D	3	9.78	2930	IE3- 87.1	88.2	87.5	0.85	5.8	9.1	2.3	2.0	3.6	0.0055	38	
IE3-KPER 112 MV2 Ex II 3D	4	13.1	2920	IE3- 88.1	87.5	86.9	0.84	7.9	8.3	2.3	2.1	3.3	0.0055	38	
IE3-KPER 112 MV2 Ex II 3D	4	13	2930	IE3- 88.1	89.3	88.1	0.85	7.6	9.0	2.7	2.4	3.7	0.0068	46	
IE3-KPER 112 MX2 Ex II 3D	5.5	17.96	2925	IE3- 89.2	89.4	87.7	0.8	11.1	8.3	2.6	2.5	3.8	0.0068	46	
IE3-KPER 132 S2T Ex II 3D	5.5	18	2925	IE3- 89.2	89.4	87.7	0.8	11.1	8.3	2.6	2.5	3.8	0.0068	48	
IE3-W41R 112 M2 Ex II 3D	4	13.0	2930	IE3- 89.2	89.2	87.9	0.87	7.4	6.9	1.5	1.2	2.9	0.011	60	
IE3-W41R 132 S2 Ex II 3D	5.5	18.0	2930	IE3- 89.2	88.6	87.0	0.84	10.5	7.7	1.9	1.3	3.5	0.011	65	
IE3-W41R 132 SX2 Ex II 3D	7.5	24.0	2925	IE3- 90.1	89.4	87.9	0.87	14.0	8.0	2.5	2.1	3.3	0.0168	75	
IE3-W41R 160 M2 Ex II 3D	11	36.0	2950	IE3- 91.4	91.7	90.5	0.90	19.5	8.0	2.2	1.8	3.2	0.0575	125	
IE3-W41R 160 MX2 Ex II 3D	15	49.0	2950	IE3- 91.9	92.0	91.3	0.91	26.0	7.9	2.2	1.7	3.1	0.0675	145	
IE3-W41R 160 L2 Ex II 3D	18.5	60.0	2960	IE3- 92.4	92.5	91.4	0.90	32.0	9.2	2.6	2.1	3.6	0.078	160	
IE3-W41R 180 M2C Ex II 3D	22	71	2975	IE3- 92.7	92.6	91.5	0.91	37.5	8.9	1.9	1.4	3.3	0.1717	214	
IE3-W41R 200 L2 Ex II 3D	30	97	2965	IE3- 93.3	92.2	90.6	0.88	52.5	8.6	2.1	1.6	3.3	0.36	305	
IE3-W41R 200 LX2C Ex II 3D	37	119	2980	IE3- 93.7	92.9	91.7	0.89	64.0	8.7	1.7	1.3	3.2	0.4757	310	
IE3-W41R 225 M2 Ex II 3D	45	145	2960	IE3- 94.0	93.7	93.0	0.89	77.5	8.8	2.3	1.9	3.2	0.375	375	
IE3-W41R 250 M2 Ex II 3D	55	177	2970	IE3- 94.6	94.4	93.6	0.91	92	8.9	2.2	1.9	3.2	0.65	510	
IE3-W41R 280 S2 Ex II 3D	75	241	2967	IE3- 94.7	94.5	93.9	0.89	128	8.1	1.9	1.9	2.8	0.65	500	
IE3-W41R 280 M2 Ex II 3D	90	289	2970	IE3- 95.0	94.5	94.0	0.90	152	8.4	2.2		3.1	0.675	545	
IE3-W41R 315 S2 Ex II 3D	110	354	2970	IE3- 95.2	94.5	93.5	0.89	187	10.0	1.9	1.7	3.0	1.21	750	
IE3-W41R 315 M2 Ex II 3D	132	423	2980	IE3- 95.4	95.0	94.5	0.89	224	10.0	2.0	1.8	3.0	1.44	815	
IE3-W41R 315 MX2 Ex II 3D	160	513	2980	IE3- 95.7	95.7	95.0	0.9	268	8.5	2.3	1.7	2.6	2.37	1095	
IE3-W41R 315 MY2 Ex II 3D	200	641	2980	IE3- 95.8	95.9	95.5	0.91	331	8.3	2.6	1.6	2.4	2.82	1200	
IE3-W41R 315 L2 Ex II 3D	250	800	2985	IE3- 96.0	96.0	95.9	0.92	409	8.4	2.5	1.4	2.3	3.66	1460	
IE3-W41R 315 LX2 Ex II 3D	315	1008	2985	IE3- 95.8	95.8	95.8	0.92	516	8.5	2.8	1.6	2.5	4.43	1700	
IE3-W41R 355 M2G Ex II 3D	355	1136	2985	IE3- 96.0	96.0	96.0	0.92	580	7.7	1.9	1.5	3.8	4.20	2000	
IE3-W42R 355 MX2G Ex II 3D	400	1278	2990	IE3- 95.8	95.8	95.3	0.91	665	8.5	1.5	1.2	2.5	5.50	2200	
IE3-W42R 355 L2G Ex II 3D	500	1597	2990	IE3- 95.8	95.8	95.3	0.90	840	9.0	2.0	1.3	3.0	7.10	2445	
IE3-W42R 400 M2G Ex nA IIC T3	530	1690	2990	IE3- 95.8	95.4	95.0	0.84	950	8.5	1.7	1.1	2.2	8.44	3060	
IE3-W42R 400 MX2G Ex nA IIC T3	570	1820	2990	IE3- 95.8	95.8	95.3	0.90	955	8.1	2.0	1.4	2.2	9.41	3200	
IE3-W42R 400 L2G Ex nA IIC T3	650	2075	2990	IE3- 96.1	96.0	95.4	0.90	1085	8.1	2.2	1.2	2.4	10.41	3400	

IP 65 required for conductive dust! Ex tc IIIC T125 °C Dc
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3
Type of explosion protection – Protection by enclosure „tc“
for operation in Zone 22 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data												Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version														
IE3-KPER 63 K4 Ex II 3D	0.12	0.84	1365	IE3- 64.8	64.5	59.7	0.72	0.37	3.2	1.9	1.8	2.2	0.00024	5.2
IE3-KPR 63 G4 Ex II 3D	0.18	1.21	1415	IE3- 69.9	67.2	61.2	0.67	0.55	4.4	1.8	1.8	2.7	0.0005	7.1
IE3-KPER 71 K4 Ex II 3D	0.25	1.71	1395	IE3- 73.5	71.2	66.7	0.7	0.72	3.9	2.1	2.1	2.5	0.0005	7.8
IE3-KPR 71 K4 Ex II 3D	0.25	1.67	1430	IE3- 73.5	73.1	69.6	0.71	0.66	5.6	2.5	2.3	2.9	0.00087	9.9
IE3-KPR 71 GY4 Ex II 3D	0.37	2.48	1425	IE3- 77.3	76.8	73.0	0.69	1	4.9	2.4	2.4	3.0	0.00087	9.9
IE3-KPR 71 G4 Ex II 3D	0.37	2.47	1430	IE3- 77.3	78.2	73.1	0.69	0.98	6.2	2.8	2.6	3.2	0.00107	11
IE3-KPR 80 K4 Ex II 3D	0.55	3.67	1430	IE3- 80.8	81.0	80.1	0.8	1.25	6.0	2.4	2.3	2.7	0.00207	14.5
IE3-KPR 80 G4 Ex II 3D	0.75	4.96	1445	IE3- 82.5	82.3	79.6	0.77	1.7	7.0	3.1	3.1	3.7	0.0026	17
IE3-KPR 80 GX4 Ex II 3D	0.75	5.01	1430	IE3- 82.5	82.9	81.1	0.8	1.65	7.0	2.9	2.8	3.2	17.94	4600
IE3-KPR 90 SY4 Ex II 3D	1.1	7.3	1440	IE3- 84.1	82.6	79.7	0.76	2.5	6.7	2.8	2.7	3.7	0.004	22.5
IE3-KPR 90 S4 Ex II 3D	1.1	7.24	1450	IE3- 84.1	83.5	80.0	0.74	2.55	8.0	3.6	3.5	4.2	0.0045	28
IE3-KPR 90 L4 Ex II 3D	1.5	9.91	1445	IE3- 85.3	83.2	80.7	0.77	3.35	7.2	3.2	3.0	3.5	0.0045	28
IE3-KPR 90 LX4 Ex II 3D	1.5	9.85	1455	IE3- 85.3	84.0	80.6	0.75	3.4	9.5	4.5	3.8	4.9	0.0058	31
IE3-KPR 100 LY4 Ex II 3D	2.2	14.4	1455	IE3- 86.7	85.2	81.7	0.77	4.8	9.3	3.2	3.0	3.6	0.009	36
IE3-KPR 100 L4 Ex II 3D	2.2	14.49	1450	IE3- 86.7	87.0	85.1	0.81	4.55	8.2	2.9	2.7	3.8	0.011	45
IE3-KPR 100 LW4 Ex II 3D	2.2	14.4	1460	IE3- 86.7	86.4	84.3	0.76	4.75	8.6	3.8	3.7	4.5	0.013	50
IE3-KPR 100 LX4 Ex II 3D	3	19.7	1455	IE3- 87.7	86.3	84.5	0.77	6.5	9.0	3.3	3.1	3.9	0.011	45
IE3-KPR 100 LZ4 Ex II 3D	3	19.7	1455	IE3- 87.7	87.6	86.1	0.77	6.4	8.6	3.2	3.1	4.1	0.013	50
IE3-W41R 112 M4 Ex II 3D	4	26	1470	IE3- 89.9	89.8	88.4	0.83	7.7	9.5	2.8	2.4	4.5	0.02	65
IE3-W41R 132 S4 Ex II 3D	5.5	35	1480	IE3- 91.0	90.2	87.8	0.73	12.0	9.9	3.4	2.8	5.4	0.035	90
IE3-W41R 132 M4 Ex II 3D	7.5	49	1475	IE3- 91.3	91.3	90.1	0.83	14.5	8.6	2.4	2.0	3.9	0.043	100
IE3-W41R 160 M4 Ex II 3D	11	71	1475	IE3- 91.4	91.5	90.5	0.83	21.0	7.5	2.5	2.0	3.2	0.078	125
IE3-W41R 160 L4C Ex II 3D	15	96	1490	IE3- 92.8	92.5	91.0	0.83	28.0	10.5	2.8	2.4	3.9	0.1567	175
IE3-W41R 180 M4 Ex II 3D	18.5	120	1475	IE3- 92.7	92.9	92.0	0.84	34.5	6.9	1.9	1.7	3.0	0.168	210
IE3-W41R 180 L4 Ex II 3D	22	142	1480	IE3- 93.0	93.0	92.1	0.84	40.5	7.6	2.2	2.0	3.2	0.203	240
IE3-W41R 200 L4C Ex II 3D	30	193	1485	IE3- 93.6	92.4	92.4	0.85	54.5	7.0	1.6	1.4	2.6	0.411	327
IE3-W41R 225 S4C Ex II 3D	37	237	1490	IE3- 93.9	93.8	93.2	0.85	67.0	7.4	1.9	1.4	2.7	0.4675	367
IE3-W41R 225 M4 Ex II 3D	45	290	1482	IE3- 94.2	94.3	94.0	0.82	84	8.1	2.6	2.1	2.6	0.619	450
IE3-W41R 250 M4 Ex II 3D	55	354	1485	IE3- 94.7	94.8	94.4	0.83	101	8.1	2.1	1.8	2.5	0.95	550
IE3-W41R 280 S4 Ex II 3D	75	482	1485	IE3- 95.0	94.6	94.2	0.83	137	8.2	2.1	1.8	2.5	1.1	617
IE3-W41R 280 M4 Ex II 3D	90	578	1487	IE3- 95.2	94.7	94.0	0.83	164	9.2	2.1	1.9	2.7	1.96	785
IE3-W41R 315 S4 Ex II 3D	110	706	1487	IE3- 95.4	95.0	94.3	0.82	203	9.5	1.9	1.7	2.7	1.96	760
IE3-W41R 315 M4 Ex II 3D	132	849	1485	IE3- 95.6	95.4	95.0	0.83	240	9.0	2.2	1.9	2.7	2.27	850
IE3-W41R 315 MX4 Ex II 3D	160	1026	1490	IE3- 95.8	95.8	95.0	0.84	287	9.5	2.1	2.0	3.2	4.01	1120
IE3-W41R 315 MY4 Ex II 3D	200	1282	1490	IE3- 96.0	95.8	95.5	0.87	346	9.5	2.1	1.7	2.7	4.82	1250
IE3-W41R 315 L4 Ex II 3D	250	1602	1490	IE3- 96.2	96.2	96.0	0.87	431	9.4	2.2	1.8	2.7	5.93	1450
IE3-W41R 315 LX4 Ex II 3D	315	2019	1490	IE3- 96.0	96.0	96.0	0.87	544	9.5	2.3	1.7	2.9	6.82	1630
IE3-W41R 355 M4 Ex II 3D	355	2271	1493	IE3- 96.2	96.2	95.5	0.87	612	8.1	1.3	1.0	2.7	7.90	2150
IE3-W42R 355 MX4 Ex II 3D	400	2557	1494	IE3- 96.0	96.0	95.5	0.84	719	8.0	1.7	1.4	2.4	9.50	2400
IE3-W42R 355 L4 Ex II 3D	500	3205	1490	IE3- 96.0	96.0	95.5	0.84	899	7.2	1.6	1.2	2.2	10.00	2500
IE3-W42R 400 M4 Ex II 3D	560	3582	1493	IE3- 96.0	96.0	95.5	0.84	1006	9.0	3.4	2.9	3.9	12.60	2900
IE3-W42R 400 MX4 Ex II 3D	630	4030	1493	IE3- 96.0	96.0	95.5	0.85	1119	9.0	3.6	3.0	4.2	14.33	3100
IE3-W42R 400 L4 Ex II 3D	710	4542	1493	IE3- 96.0	96.0	95.5	0.85	1261	9.0	3.9	3.1	4.2	16.29	3450

IP 65 required for conductive dust! Ex tc IIIC T125 °C Dc

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3 Type of explosion protection – Protection by enclosure „tc“ for operation in Zone 22 according to EN 60079-31

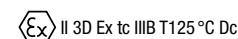
II 3D Ex tc IIIB T125 °C Dc

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz	
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version														
IE3-KPR 63 G6 Ex II 3D	0.12	1.23	930	IE3- 57.7	60.0	54.0	0.56	0.5	2.8	1.9	1.8	2.1	0.00045	6.7
IE3-KPER 71 KY6 Ex II 3D	0.18	1.89	910	IE3- 63.9	62.0	56.5	0.55	0.75	2.9	1.7	1.7	2.1	0.0006	8.3
IE3-KPR 71 K6 Ex II 3D	0.18	1.85	930	IE3- 63.9	62.9	57.5	0.68	0.57	3.4	2.0	2.0	2.2	0.0013	11
IE3-KPR 71 GY6 Ex II 3D	0.25	2.54	940	IE3- 68.6	65.3	58.5	0.63	0.84	4.0	2.2	2.2	2.9	0.0013	10
IE3-KPR 71 G6 Ex II 3D	0.25	2.55	935	IE3- 68.6	66.9	62.2	0.67	0.75	3.9	2.3	2.3	2.5	0.00175	12.5
IE3-KPR 80 K6 Ex II 3D	0.37	3.72	950	IE3- 73.5	72.9	69.2	0.7	1.03	4.0	1.9	1.9	2.4	0.00325	15
IE3-KPR 80 G6 Ex I 3D	0.55	5.53	950	IE3- 77.2	75.9	72.4	0.69	1.5	4.1	2.1	2.1	2.5	0.00425	18
IE3-KPR 90 SY6 Ex II 3D	0.75	7.5	955	IE3- 78.9	78.3	75.1	0.71	1.95	4.9	2.4	2.3	2.6	0.00625	24
IE3-KPR 90 S6 Ex II 3D	0.75	7.54	950	IE3- 78.9	79.7	77.5	0.73	1.87	5.3	2.4	2.2	2.9	0.0072	30
IE3-KPR 90 L6 Ex II 3D	1.1	11	955	IE3- 81.0	81.0	78.5	0.71	2.75	5.4	2.5	2.4	2.8	0.0072	30
IE3-KPR 100 LX6 Ex II 3D	1.5	15	955	IE3- 82.5	83.5	81.5	0.76	3.45	5.9	2.3	2.2	2.8	0.0139	36
IE3-KPER 112 MV6 Ex II 3D	2.2	22	955	IE3- 84.3	83.6	80.9	0.74	5.15	5.7	2.4	2.3	2.9	0.0155	48
IE3-KPER 112 MZ6 Ex II 3D	2.2	21.88	960	IE3- 84.3	84.0	81.5	0.75	5	6.9	3.0	3.0	3.8	0.018	50
IE3-W41R 132 S6 Ex II 3D	3	30.0	965	IE3- 86.3	86.7	85.6	0.82	6.1	6.2	2.0	1.3	3.1	0.029	70
IE3-W41R 132 M6 Ex II 3D	4	40.0	965	IE3- 86.8	87.0	86.0	0.80	8.3	4.8	1.7	1.4	2.4	0.043	75
IE3-W41R 132 MX6 Ex II 3D	5.5	54.0	970	IE3- 88.6	88.6	87.2	0.80	11.0	6.0	2.1	1.7	3.0	0.053	105
IE3-W41R 160 M6 Ex II 3D	7.5	73.0	980	IE3- 90.2	90.0	88.3	0.83	14.5	6.4	2.4	2.0	3.0	0.145	145
IE3-W41R 160 L6C Ex II 3D	11	107.0	985	IE3- 91.4	91.2	89.8	0.85	20.5	6.8	2.2	2	2.8	0.166	168
IE3-W41R 180 L6C Ex II 3D	15	145.0	985	IE3- 91.2	91.3	90.2	0.87	27.5	6.8	2	1.7	2.7	0.3396	214
IE3-W41R 200 L6 Ex II 3D	18.5	180.0	980	IE3- 91.8	91.7	90.5	0.87	33.5	7.2	2.3	2	3	0.514	310
IE3-W41R 200 LX6C Ex II 3D	22	213.0	985	IE3- 92.2	91.5	90.0	0.87	39.5	7.6	2.1	1.7	2.9	0.6476	321
IE3-W41R 225 M6 Ex II 3D	30	291	984	IE3- 92.9	92.2	91.0	0.84	55.5	7.2	2.7	2.2	2.9	0.92	400
IE3-W41R 250 M6 Ex II 3D	37	359	985	IE3- 93.3	93.2	92.3	0.86	66.5	7.1	2.8	2.0	2.7	1.48	545
IE3-W41R 280 S6 Ex II 3D	45	434	990	IE3- 93.7	93.5	91.5	0.86	80.5	8.5	2.1	1.8	2.8	2.63	695
IE3-W41R 280 M6 Ex II 3D	55	531	990	IE3- 94.2	94.1	93.1	0.85	99	9.0	2.2	1.9	3.1	3.33	815
IE3-W41R 315 S6 Ex II 3D	75	723	990	IE3- 94.6	94.0	93.5	0.86	133	8.2	1.8	1.4	2.3	5.55	1060
IE3-W41R 315 M6 Ex II 3D	90	868	990	IE3- 94.9	94.0	93.0	0.83	165	8.5	2.2	1.7	2.8	6	1100
IE3-W41R 315 MX6 Ex II 3D	110	1.061	990	IE3- 95.1	95.0	94.5	0.86	194	8.5	2.5	1.7	2.7	6.67	1210
IE3-W41R 315 L6 Ex II 3D	132	1.267	995	IE3- 95.4	95.0	94.5	0.87	230	9.0	2.8	2.0	3.2	8.6	1550
IE3-W41R 355 M6 Ex II 3D	160	1.536	995	IE3- 95.6	95.0	94.6	0.82	295	8.0	2.1	0.0	2.7	8.2	1850
IE3-W42R 355 MX6 Ex II 3D	200	1919	995	IE3- 95.8	95.2	95.0	0.83	363	8.0	1.8	1.3	2.5	12.10	2200
IE3-W42R 355 L6 Ex II 3D	250	2402	994	IE3- 95.8	95.5	95.0	0.81	468	7.0	1.8	1.3	2.3	14.00	2400
IE3-W42R 355 LX6 Ex II 3D	315	3032	992	IE3- 95.8	95.5	95.3	0.86	554	7.4	2.5	2.0	2.7	14.00	2400
IE3-W42R 400 MY6 Ex II 3D	355	3407	995	IE3- 95.8	95.5	94.5	0.85	632	8.0	2.0	1.6	2.6	16.54	2900
IE3-W42R 400 M6 Ex II 3D	400	3847	993	IE3- 95.8	95.5	94.5	0.87	696	7.0	1.8	1.5	2.3	16.54	2900
IE3-W42R 400 MX6 Ex II 3D	450	4327	993	IE3- 95.8	95.7	94.6	0.83	821	7.3	1.8	1.5	2.1	18.44	3100
IE3-W42R 400 L6 Ex II 3D	500	4808	993	IE3- 95.8	95.6	94.5	0.83	911	7.5	1.9	1.7	2.2	20.63	3200

IP 65 required for conductive dust! Ex tc IIIC T125 °C Dc
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Premium Efficiency IE3



Type of explosion protection – Protection by enclosure „tc“
for operation in Zone 22 according to EN 60079-31

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data												Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	kgm ²	kg
Synchronous speed 750 rpm – 8-pole version														
IE3-KPR 71 G8 Ex II 3D	0.12	1.67	685	IE3- 50.7	48.8	43.0	0.64	0.48	2.6	1.7	1.7	2.0	0.0013	9.9
IE3-KPER 80 K8 Ex II 3D	0.18	2.53	680	IE3- 58.7	56.3	49.8	0.61	0.73	2.6	1.6	1.6	2.0	0.00175	12
IE3-KPR 80 G8 Ex II 3D	0.25	3.39	705	IE3- 64.1	64.3	58.4	0.59	0.93	3.0	1.4	1.4	2.1	0.003	14
IE3-KPER 90 SY8 Ex II 3D	0.37	5.01	705	IE3- 69.3	67.0	61.2	0.56	1.39	3.1	1.6	1.6	2.2	0.00375	18.5
IE3-KPR 90 S8 Ex II 3D	0.37	4.98	710	IE3- 69.3	69.0	64.4	0.63	1.2	3.6	2.1	2.1	2.3	0.00625	25
IE3-KPR 90 L8 Ex II 3D	0.55	7.5	700	IE3- 73.0	70.6	66.3	0.64	1.72	3.6	1.8	1.8	2.3	0.0072	26
IE3-KPR 100 LY8 Ex II 3D	0.75	10.1	710	IE3- 75.0	74.1	70.0	0.64	2.21	4.2	2.0	2.0	2.7	0.009	28
IE3-KPR 100 L8 Ex II 3D	0.75	10	715	IE3- 75.0	75.9	71.3	0.63	2.25	4.4	2.5	2.5	2.8	0.0123	33.5
IE3-KPR 100 LW8 Ex II 3D	1.1	***		IE3- 77.7					***					
IE3-KPR 100 LX8 Ex II 3D	1.1	14.8	710	IE3- 77.7	77.5	73.7	0.63	3.2	4.2	1.9	1.8	2.5	0.0139	36
IE3-KPER 112 M8 Ex II 3D	1.5	20.46	700	IE3- 79.7	78.7	76.0	0.65	4.25	3.8	1.6	1.5	2.1	0.0155	48
IE3-KPER 112 MZ8 Ex II 3D	1.5	20.3	705	IE3- 79.7	78.8	75.8	0.66	4.15	4.7	2.7	2.7	3.2	0.018	50
IE3-W41R 132 S8 Ex II 3D	2.2	29	725	IE3- 84.4	84.5	82.4	0.7	5.4	4.1	1.6	1.5	2.3	0.043	80
IE3-W41R 132 M8 Ex II 3D	3	40	720	IE3- 83.5	83.5	81.4	0.72	7	3.9	1.6	1.4	2.1	0.043	74
IE3-W41R 160 M8 Ex II 3D	4	52	735	IE3- 87	86.7	83.8	0.71	9.4	5.4	2.5	2.2	2.9	0.113	119
IE3-W41R 160 MX8 Ex II 3D	5.5	72	730	IE3- 87.5	87.5	85.6	0.73	12.5	4.7	1.9	1.7	2.5	0.145	143
IE3-W41R 160 L8 Ex II 3D	7.5	98	733	IE3- 87.9	87.6	85.6	0.73	17	5.1	2.1	1.8	2.7	0.166	155
IE3-W41R 180 L8 Ex II 3D	11	145	725	IE3- 89.3	89	87.1	0.75	23.5	5.4	2.1	1.9	2.8	0.228	175
IE3-W41R 200 L8 Ex II 3D	15	196	730	IE3- 89.6	90	89	0.80	30	5.3	1.8	1.7	2.5	0.324	235
IE3-W41R 225 S8 Ex II 3D	18.5	240	735	IE3- 90.1									0.514	310
IE3-W41R 225 M8 Ex II 3D	22	286	735	IE3- 91.5	91.6	90.6	0.79	44	5.7	2.3	2	2.5	0.825	360
IE3-W41R 250 M8 Ex II 3D	30	391	732	IE3- 91.3	91.9	91.4	0.81	58.5	5.4	2	1.8	2.3	0.92	420
IE3-W41R 280 S8 Ex II 3D	37	479	738	IE3- 92	92	90.8	0.78	74.5	5.9	2.3	1.8	2.4	1.55	555
IE3-W41R 280 M8 Ex II 3D	45	581	740	IE3- 93	93	92.4	0.78	89.5	6.5	1.7	1.5	2.4	2.63	700
IE3-W41R 315 S8 Ex II 3D	55	707	743	IE3- 93.3	93.3	92.4	0.78	109	7.0	1.9	1.7	2.5	3.33	805
IE3-W41R 315 M8 Ex II 3D	75	965	742	IE3- 93.8	94.2	93.8	0.81	142	7.0	1.9	1.7	2.3	5.55	1120
IE3-W41R 315 MX8 Ex II 3D	90	1157	743	IE3- 94.3	94.4	93.6	0.8	172	7.9	2.4	2.0	2.7	6	1185
IE3-W41R 315 MY8 Ex II 3D	110	1419	740	IE3- 93.8	94.0	93.8	0.82	206	6.5	1.9	1.5	2.1	6.76	1250
IE3-W41R 315 L8 Ex II 3D	132	1703	740	IE3- 94.2	94.2	93.5	0.8	253	8.0	2.4	1.9	2.7	8.71	1450
IE3-W41R 355 MY8 Ex II 3D	160	2051	745	IE3- 94.3	94.3	94.0	0.82	299	6.6	1.2	1.0	2.6	9.3	1700
IE3-W41R 355 M8 Ex II 3D	200	2564	745	IE3- 94.7	94.9	94.2	0.81	376	7.0	1.0	1.0	2.7	9.5	1890
IE3-W41R 355 MX8 Ex II 3D	230	2948	745	IE3- 95.2	95.2	95.0	0.83	420	7.0	1.2	1.0	2.6	13.40	2200
IE3-W41R 355 L8 Ex II 3D	250	3205	745	IE3- 94.8	94.1	91.5	0.78	488					15.80	2400
IE3-W42R 355 MX8 Ex II 3D	160	2054	744	IE3- 95.4	95.0	94.0	0.8	303	6.8	1.3	1.0	2.5	13.4	2200
IE3-W42R 355 L8 Ex II 3D	200	2570	743	IE3- 95.6	95.5	94.0	0.77	393	6.5	1.6	1.0	2.7	15.8	2400
IE3-W42R 355 LX8 Ex II 3D	250	3213	743	IE3- 95.6	95.4	93.8	0.78	487	6.4	2.5	1.9	2.5	15.8	2400
IE3-W42R 400 MY8 Ex II 3D	315	4048	743	IE3- 95.6	95.5	94.5	0.78	611	6.4	2.5	1.9	2.5	17.94	3000
IE3-W42R 400 M8 Ex II 3D	355	4550	745	IE3- 95.6	95.5	94.5	0.76	708	6.6	1.9	1.7	2.3	17.94	3000
IE3-W42R 400 MX8 Ex II 3D	400	5134	744	IE3- 95.6	95.6	94.6	0.73	831	6.1	1.8	1.7	1.9	19.99	3150
IE3-W42R 400 L8 Ex II 3D	450	5776	744	IE3- 95.6	95.6	94.6	0.72	947	6.4	2.0	1.7	2.0	22.34	3300

IP 65 required for conductive dust! Ex tc IIC T125 °C Dc

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

*** upon request

Three-phase motors with squirrel-cage rotor, High Efficiency IE2 Type of explosion protection – Protection by enclosure „tc“ for operation in Zone 22 according to EN 60079-31

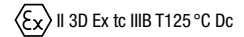
II 3D Ex tc IIIB T125 °C Dc

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz	
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	kgm²	kg
Synchronous speed 3000 rpm – 2-pole version														
IE2-KPR 80 K2 Ex II 3D	0.75	2.49	2880	IE2- 77.4	83.6	81.6	0.88	1.48	7.7	2.2	2.1	2.7	0.00132	15
IE2-KPR 80 G2 Ex II 3D	1.1	3.64	2885	IE2- 79.6	82.1	81.2	0.89	2.15	7.8	2.5	2.3	2.8	0.0017	18
IE2-KPR 90 S2 Ex II 3D	1.5	4.92	2910	IE2- 81.3	85.5	82.9	0.87	2.9	9.0	2.8	2.4	3.4	0.00275	23.5
IE2-KPR 90 L2 Ex II 3D	2.2	7.29	2880	IE2- 83.2	85.7	83.9	0.88	4.25	8.0	2.5	2.3	2.9	0.00275	23.5
IE2-KPR 100 L2 Ex II 3D	3	9.78	2930	IE2- 84.6	86.2	83.5	0.76	6.55	8.5	2.6	2.4	3.8	0.0045	31
IE2-KPER 112 M2 Ex II 3D	4	13.2	2900	IE2- 85.8	86.3	***	0.81	8.4	7.0	2.2	2.1	2.9	0.0045	32
IE2-KPER 112 MX2 Ex II 3D	4	13.08	2920	IE2- 85.8	86.4	85.8	0.84	7.9	8.3	2.3	2.1	3.3	0.0055	38
IE2-KPER 112 ML2 Ex II 3D	5.5	18.2	2890	IE2- 85.9	86.6	***	0.84	11	7.5	2.4	2.2	3.0	0.0055	38
IE2-KPER 112 MV2 Ex II 3D	5.5	18.11	2900	IE2- 87.0	88.7	88.8	0.88	10.3	7.8	2.0	1.9	2.7	0.0068	46
IE2-KPER 132 SY2T Ex II 3D	5.5	18.2	2890	IE2- 87.0	86.6	***	0.84	11	7.5	2.4	2.2	3.0	0.0055	40
IE2-KPER 132 S2T Ex II 3D	5.5	18.11	2900	IE2- 87.0	88.7	88.8	0.88	10.3	7.8	2.0	1.9	2.7	0.0068	48
IE2-KPER 112 MW2 Ex II 3D	7.5	24.9	2880	IE2- 88.1	88.0	***	0.84	14.8	6.3	1.5	1.2	2.6	0.0068	46
IE2-KPER 132 SX2T Ex II 3D	7.5	24.9	2880	IE2- 88.1	88.0	***	0.84	14.8	6.3	1.5	1.2	2.6	0.0068	48
IE2-WE1R 132 S2 Ex II 3D	5.5	18.0	2915	IE2- 88.7	88.7	87.8	0.85	10.5	6.8	1.9	1.5	3.0	0.0110	57
IE2-WE1R 132 SX2 Ex II 3D	7.5	24.5	2925	IE2- 88.8	89.2	88.3	0.91	13.5	6.7	2.1	1.6	2.9	0.0168	75
IE2-WE1R 160 M2 Ex II 3D	11.0	35.6	2950	IE2- 90.3	90.3	89.1	0.90	19.5	7.7	2.3	1.7	3.1	0.0258	125
IE2-WE1R 160 MX2 Ex II 3D	15.0	48.7	2940	IE2- 90.7	90.5	89.1	0.92	26	6.7	1.8	1.4	2.6	0.0675	140
IE2-WE1R 160 L2 Ex II 3D	18.5	60.2	2935	IE2- 91.0	91.4	91.4	0.91	32	7.2	2.0	1.5	2.8	0.0675	140
IE2-WE1R 180 M2 Ex II 3D	22	72	2935	IE2- 91.3	90.6	86.4	0.90	38.5	6.2	1.4	1.1	2.4	0.105	173
IE2-WE1R 200 L2 Ex II 3D	30	97	2945	IE2- 92.0	91.3	90.5	0.91	52	6.9	1.7	1.3	2.6	0.128	210
IE2-WE1R 200 LX2 Ex II 3D	37	120	2940	IE2- 92.5	92.3	91.6	0.92	63	7.4	1.9	1.4	2.9	0.154	233
IE2-WE2R 200 LX2 Ex II 3D	37	120	2940	IE2- 92.5	92.3	91.6	0.92	63	7.4	1.9	1.4	2.9	0.154	233
IE2-WE1R 225 M2 Ex II 3D	45	146	2950	IE2- 92.9	92.2	91.2	0.87	80.5	6.9	1.7	1.1	2.7	0.220	295
IE2-WE1R 250 M2 Ex II 3D	55	178	2955	IE2- 93.5	93.7	93.2	0.89	95.5	8.2	2.3	1.9	2.8	0.375	385
IE2-WE1R 280 S2 Ex II 3D	75	241	2970	IE2- 94.1	94.0	91.5	0.90	128	7.9	2.1	1.7	3.0	0.65	500
IE2-WE1R 280 M2 Ex II 3D	90	289	2970	IE2- 94.4	94.1	91.9	0.91	151	7.7	2.0	1.7	2.8	0.68	550
IE2-W21R 315 S2 Ex II 3D	110	353	2975	IE2- 94.5	94.3	93.3	0.89	189	8.0	1.3	1.2	2.4	1.21	730
IE2-W21R 315 M2 Ex II 3D	132	424	2975	IE2- 95.0	94.8	94.5	0.89	225	9.2	1.4	1.2	2.4	1.44	820
IE2-W21R 315 MX2 Ex II 3D	160	514	2973	IE2- 94.8	94.8	94.8	0.89	274	8.2	1.3	1.3	2.4	1.76	955
IE2-W21R 315 MY2 Ex II 3D	200	640	2983	IE2- 95.4	95.0	94.3	0.88	344	9.4	2.8	2.0	3.0	2.82	1200
IE2-W21R 315 L2 Ex II 3D	250	800	2984	IE2- 95.4	95.4	95.4	0.92	411	9.0	2.3	1.2	2.3	3.66	1450
IE2-W21R 315 LX2 Ex II 3D	315	1008	2985	IE2- 95.4	95.4	95.0	0.92	518	8.5	2.8	1.6	2.5	4.43	1700
IE2-W22R 355 M2G Ex II 3D	355	1136	2985	IE2- 95.5	95.5	95.5	0.92	583	7.7	1.3	1.0	2.6	4.20	2000
IE2-W22R 355 MX2G Ex II 3D	400	1278	2990	IE2- 95.5	95.5	95.5	0.91	664	9.4	1.8	1.0	3.0	4.50	2200
IE2-W22R 355 L2G Ex II 3D	450	1440	2985	IE2- 95.5	95.5	95.5	0.92	739	7.0	1.3	0.9	2.4	7.10	2400

IP 65 required for conductive dust! Ex tc IIIC T125 °C Dc
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.
***) upon request

Three-phase motors with squirrel-cage rotor, High Efficiency IE2
Type of explosion protection – Protection by enclosure „tc“
for operation in Zone 22 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data												Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)				400 V					kgm²	kg
Synchronous speed 1500 rpm – 4-pole version														
IE2-KPR 80 GY4 Ex II 3D	0.75	5.01	1430	IE2- 79.6	78.0	74.7	0.8	1.73	5.7	2.2	2.2	3.1	0.00207	14.5
IE2-KPR 80 G4 Ex II 3D	0.75	5.01	1430	IE2- 79.6	81.4	79.6	0.81	1.65	7.0	2.9	2.8	3.2	0.0026	17
IE2-KPR 90 S4 Ex II 3D	1.1	7.32	1435	IE2- 81.4	82.3	80.4	0.8	2.42	6.8	2.4	2.2	2.9	0.004	23
IE2-KPR 90 LW4 Ex II 3D	1.5	9.95	1440	IE2- 82.8	83.8	81.4	0.76	3.4	6.5	2.7	2.7	3.6	0.004	23
IE2-KPR 90 L4 Ex II 3D	1.5	9.91	1445	IE2- 82.8	83.2	80.7	0.77	3.35	7.2	3.2	3.0	3.5	0.0045	28
IE2-KPR 100 S4 Ex II 3D	2.2	14.5	1445	IE2- 84.3	84.9	82.7	0.79	4.67	7.3	2.7	2.5	3.1	0.00725	30
IE2-KPR 100 L4 Ex II 3D	2.2	14.4	1455	IE2- 84.3	85.2	81.7	0.77	4.8	9.3	3.2	3.0	3.6	0.009	36
IE2-KPR 100 LW4 Ex II 3D	3	19.8	1445	IE2- 85.5	85.8	83.6	0.79	6.33	7.8	3.0	2.9	3.6	0.009	36
IE2-KPR 100 LX4 Ex II 3D	3	19.7	1455	IE2- 85.5	86.3	84.5	0.77	6.5	9.0	3.3	3.1	3.9	0.011	45
IE2-KPER 112 MZ4 Ex II 3D	4	26.4	1445	IE2- 86.6	87.0	85.0	0.8	8.3	8.2	2.8	2.6	3.6	0.013	50
IE2-WE1R 112 M4 Ex II 3D	4.0	26.2	1460	IE2- 86.6	88.0	86.9	0.86	7.6	8.3	2.6	2.3	3.9	0.017	56
IE2-WE1R 132 S4 Ex II 3D	5.5	35.7	1470	IE2- 89.8	89.9	88.4	0.87	10	7.4	2.3	1.9	3.4	0.035	87
IE2-WE2R 132 S4 Ex II 3D	5.5	36.2	1450	IE2- 88.4	89.3	89.0	0.87	10.5	7.7	2.3	1.8	3.5	0.020	64
IE2-WE1R 132 M4 Ex II 3D	7.5	48.7	1470	IE2- 89.9	90.0	88.5	0.82	14.5	8.5	2.6	2.1	4.0	0.035	88
IE2-WE1R 160 M4 Ex II 3D	11.0	71	1475	IE2- 90.6	90.3	88.5	0.82	21.5	8.1	3.1	2.4	3.4	0.078	122
IE2-WE2R 160 M4 Ex II 3D	11	71.5	1470	IE2- 90.3	90.3	88.5	0.78	22.5	7.8	2.4	2.1	3.9	0.043	105
IE2-WE1R 160 L4 Ex II 3D	15.0	97	1470	IE2- 90.6	90.9	90.5	0.87	27.5	8.3	2.7	2.2	3.2	0.115	160
IE2-WE2R 160 L4 Ex II 3D	15	97	1480	IE2- 92.0	92.0	90.6	0.84	28	9.1	3.0	2.5	3.9	0.115	161
IE2-WE1R 180 M4 Ex II 3D	18.5	120	1475	IE2- 91.5	91.5	90.4	0.86	34	6.8	1.8	1.5	2.7	0.168	207
IE2-WE2R 180 M4 Ex II 3D	18.5	120	1470	IE2- 91.2	90.6	89.3	0.78	37.5	6.4	2.0	1.6	2.8	0.138	176
IE2-WE1R 180 L4 Ex II 3D	22	142	1475	IE2- 91.6	91.4	89.9	0.83	42	7.3	2.1	1.7	3.0	0.168	215
IE2-WE1R 200 L4 Ex II 3D	30	194	1480	IE2- 92.3	91.3	88.2	0.80	58.5	7.3	2.1	1.7	2.9	0.275	277
IE2-WE1R 225 S4 Ex II 3D	37	240	1475	IE2- 92.7	91.8	90.7	0.84	68.5	7.4	2.2	1.7	2.7	0.313	313
IE2-WE1R 225 M4 Ex II 3D	45	290	1483	IE2- 93.1	93.0	91.1	0.84	83	7.9	2.3	1.9	2.4	0.525	390
IE2-WE2R 225 M4 Ex II 3D	45	291	1475	IE2- 93.1	92.9	92.1	0.80	87	7.6	2.6	1.9	3.1	0.356	346
IE2-WE1R 250 M4 Ex II 3D	55	354	1485	IE2- 94.0	94.1	92.5	0.84	101	8.0	2.0	1.7	2.3	0.95	535
IE2-WE2R 250 M4 Ex II 3D	55	356	1477	IE2- 93.9	93.8	93.7	0.82	103	7.5	2.4	1.9	2.4	0.62	435
IE2-WE1R 280 S4 Ex II 3D	75	482	1485	IE2- 94.2	94.4	92.1	0.84	137	7.2	1.8	1.6	2.1	0.95	550
IE2-WE1R 280 M4 Ex II 3D	90	580	1483	IE2- 94.3	94.5	94.0	0.84	164	7.6	1.8	1.6	2.3	1.10	610
IE2-W21R 315 S4 Ex II 3D	110	707	1485	IE2- 94.8	94.8	94.0	0.82	204	8.5	1.8	1.5	2.7	1.96	760
IE2-W21R 315 M4 Ex II 3D	132	849	1484	IE2- 95.0	95.0	94.5	0.83	242	8.2	1.8	1.6	2.3	2.27	850
IE2-W21R 315 MX4 Ex II 3D	160	1031	1482	IE2- 95.0	95.0	94.5	0.84	289	7.4	1.6	1.4	2.2	2.73	975
IE2-W21R 315 MY4 Ex II 3D	200	1282	1490	IE2- 95.1	95.1	94.5	0.87	349	8.5	1.8	1.6	2.5	4.82	1270
IE2-W21R 315 L4 Ex II 3D	250	1602	1490	IE2- 95.4	95.4	95.3	0.88	430	9.0	2.2	1.5	2.7	5.93	1450
IE2-W21R 315 LX4 Ex II 3D	315	2019	1490	IE2- 95.4	95.4	95.0	0.88	542	9.0	2.4	1.6	2.6	6.82	1630
IE2-W22R 355 M4 Ex II 3D	355	2271	1493	IE2- 95.5	95.5	95.0	0.87	617	8.0	1.3	1.0	2.7	7.90	2150
IE2-W22R 355 MX4 Ex II 3D	400	2557	1494	IE2- 95.5	95.5	95.5	0.88	687	8.5	1.3	1.0	3.0	9.50	2400
IE2-W22R 355 L4 Ex II 3D	450	2873	1496	IE2- 95.5	95.5	95.5	0.86	790	8.5	1.4	0.8	2.9	10.00	2500

IP 65 required for conductive dust! Ex tc IIIC T125 °C Dc
 Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, High Efficiency IE2

Type of explosion protection – Protection by enclosure „tc“ for operation in Zone 22 according to EN 60079-31

II 3D Ex tc IIB T125 °C Dc

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

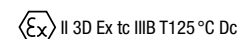
Motor selection data													Design point 400 V, 50 Hz	
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version														
IE2-KPR 90 S6 Ex II 3D	0.75	7.5	955	IE2- 75.9	78.3	75.1	0.71	1.95	4.9	2.4	2.3	2.6	0.00625	24
IE2-KPR 90 LW6 Ex II 3D	1.1	11	955	IE2- 78.1	78.0	75.1	0.69	2.95	4.7	2.5	2.4	2.8	0.00625	24
IE2-KPR 90 L6 Ex II 3D	1.1	11	955	IE2- 78.1	82.0	79.3	0.71	2.75	5.4	2.5	2.4	2.8	0.0072	30
IE2-KPR 100 LW6 Ex II 3D	1.1	10.94	960	IE2- 78.1	***	***	0.76	2.5	6.5	2.8	2.7	3.4	0.0139	36
IE2-KPR 100 LX6 Ex II 3D	1.5	15	955	IE2- 79.8	83.5	81.5	0.76	3.45	5.9	2.3	2.2	2.8	0.0139	36
IE2-KPER 112 MX6 Ex II 3D	2.2	21.89	960	IE2- 81.8	***	***	0.65	5.9	6.4	3.0	2.9	3.7	***	37
IE2-KPER 112 MV6 Ex II 3D	2.2	22	955	IE2- 81.8	82.5	79.8	0.75	5.15	5.7	2.4	2.3	2.9	0.0155	48
IE2-KPER 112 MZ6 ExnA IIC T3 Gc	3	30	955	IE2- 83.3	83.1	80.5	0.75	6.85	6.5	2.8	2.7	3.5	0.043	50
IE2-KPER 132 SX6T Ex II 3D	3	30	955	IE2- 83.3	83.1	80.5	0.73	7.1	7.0	3.2	3.1	4.0	0.0165	52
IE2-W21R 132 S6 Ex II 3D	3.0	29.8	963	IE2- 84.9	85.2	83.9	0.80	6.4	6.0	2.0	1.3	3.0	0.023	55
IE2-W21R 132 M6 Ex II 3D	4.0	39.6	965	IE2- 85.5	85.5	83.8	0.79	8.5	5.1	1.8	1.6	2.4	0.043	76
IE2-WE2R 132 M6 Ex II 3D	4	40	955	IE2- 85.1	86.0	85.2	0.82	8.3	5.7	2.1	2.0	2.9	0.029	66
IE2-W21R 132 MX6 Ex II 3D	5.5	54	970	IE2- 86.1	85.5	82.4	0.77	12	5.7	2.2	1.7	2.7	0.053	85
IE2-W21R 160 M6 Ex II 3D	7.5	73	975	IE2- 87.4	88.1	86.0	0.81	15.5	6.3	2.5	2.1	2.9	0.113	118
IE2-WE2R 160 M6 Ex II 3D	7.5	74	970	IE2- 87.5	87.6	85.9	0.79	15.5	5.9	2.1	1.8	2.9	0.053	103
IE2-W21R 160 L6 Ex II 3D	11.0	108	970	IE2- 88.7	87.9	86.3	0.85	21	5.8	2.2	1.9	2.7	0.145	135
IE2-WE1R 160 L6 Ex II 3D	11.0	108	975	IE2- 88.9	88.8	87.0	0.81	22	6.8	2.7	2.4	3.1	0.166	155
IE2-W21R 180 L6 Ex II 3D	15.0	147	975	IE2- 89.7	88.8	86.7	0.84	28.5	6.2	2.1	1.8	2.8	0.228	185
IE2-WE2R 180 L6 Ex II 3D	15	148	970	IE2- 89.7	88.8	87.8	0.83	29	5.6	2.3	1.7	2.6	0.166	157
IE2-W21R 200 L6 Ex II 3D	18.5	180	980	IE2- 90.4	88.8	86.5	0.85	35	6.6	2.3	1.7	2.9	0.268	208
IE2-W21R 200 LX6 Ex II 3D	22	214	980	IE2- 90.9	90.2	88.5	0.86	40.5	6.4	2.2	1.8	2.7	0.443	272
IE2-WE2R 200 LX6 Ex II 3D	22	215	975	IE2- 90.9	89.9	88.5	0.84	41.5	6.7	2.4	2.0	3.0	0.324	238
IE2-W21R 225 M6 Ex II 3D	30	291	985	IE2- 92.0	91.5	90.0	0.86	54.5	7.3	2.5	2.2	2.9	0.825	365
IE2-WE2R 225 M6 Ex II 3D	30	294	975	IE2- 91.7	91.4	90.6	0.87	54.5	6.7	2.3	1.9	2.8	0.514	308
IE2-W21R 250 M6 Ex II 3D	37	359	985	IE2- 92.2	91.7	90.7	0.85	68	6.4	2.7	1.8	2.4	1.28	480
IE2-WE2R 250 M6 Ex II 3D	37	361	979	IE2- 92.2	92.3	91.8	0.86	67.5	6.6	2.7	2.0	2.6	0.92	407
IE2-W21R 280 S6 Ex II 3D	45	437	983	IE2- 93.0	92.7	92.4	0.87	80.5	6.5	2.2	1.7	2.4	1.48	560
IE2-W21R 280 M6 Ex II 3D	55	531	990	IE2- 93.5	93.5	93.0	0.85	100	7.6	2.0	1.5	2.5	2.63	710
IE2-W21R 315 S6 Ex II 3D	75	723	990	IE2- 93.9	93.7	93.5	0.87	133	7.8	1.9	1.5	2.5	3.33	804
IE2-W21R 315 M6 Ex II 3D	90	868	990	IE2- 94.0	94.0	93.5	0.88	157	7.5	1.8	1.5	2.5	3.60	865
IE2-W21R 315 MX6 Ex II 3D	110	1061	990	IE2- 94.3	94.3	94.0	0.87	194	7.5	1.8	1.4	2.3	6.67	1210
IE2-W21R 315 MY6 Ex II 3D	132	1273	990	IE2- 94.6	94.3	94.0	0.87	231	7.5	1.9	1.4	2.2	6.67	1250
IE2-W21R 315 L6 Ex II 3D	160	1543	990	IE2- 94.8	94.5	93.5	0.88	277	7.5	2.0	1.5	2.4	8.60	1430
IE2-W21R 315 LX6 Ex II 3D	200	1929	990	IE2- 95.0	95.0	94.5	0.86	353	7.0	1.9	1.5	2.2	8.60	1460
IE2-W22R 355 M6 Ex II 3D	200	1920	995	IE2- 95.0	95.0	94.0	0.82	371	8.0	1.7	1.4	2.6	8.20	1850
IE2-W22R 355 MX6 Ex II 3D	315	3023	995	IE2- 95.0	95.0	94.5	0.85	447	7.5	1.6	1.2	2.5	12.1	2200
IE2-W22R 355 LY6 Ex II 3D	355	3407	995	IE2- 95.3	95.3	95.3	0.86	555	8.0	2.1	1.3	2.6	14.0	2400

IP 65 required for conductive dust! Ex tc IIC T125 °C Dc

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

*** upon request

Three-phase motors with squirrel-cage rotor, High Efficiency IE2
Type of explosion protection – Protection by enclosure „tc“
for operation in Zone 22 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data												Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)				400 V					kgm ²	kg
Synchronous speed 750 rpm – 8-pole version														
IE2-W21R 132 S8 Ex II 3D	2.2	29.2	720	IE2- 81.7	81.0	77.5	0.65	6	4.8	2.2	2.0	3.2	0.0180	55
IE2-W21R 132 M8 Ex II 3D	3.0	39.8	720	IE2- 82.7	83.0	81.3	0.74	7.1	3.9	1.6	1.3	1.9	0.0430	74
IE2-W22R 132 M8 Ex II 3D	3	39.8	720	IE2- ***)	***	***	***	***	***	***	***	***	0.0290	65
IE2-W21R 160 L8 Ex II 3D	4.0	53.2	718	IE2- 84.2	83.7	81.9	0.72	9.5	4.6	1.6	***	2.5	0.0530	86
IE2-W21R 160 MX8 Ex II 3D	5.5	72.0	730	IE2- 86.9	86.6	84.1	0.72	12.5	4.8	2.1	1.8	2.6	0.1130	115
IE2-W22R 160 MX8 Ex II 3D	5.5	73	715	IE2- 83.9	84.0	81.9	0.71	13.5	4.3	1.7	1.5	2.5	0.0530	103
IE2-W21R 160 L8 Ex II 3D	7.5	99	725	IE2- 87.5	87.0	83.5	0.77	16	5.5	2.0	***	2.8	0.1450	136
IE2-W21R 180 L8 Ex II 3D	11.0	144	727	IE2- 88.2	88.2	86.7	0.78	23	4.9	1.8	1.6	2.4	0.2280	175
IE2-W22R 180 L8 Ex II 3D	11	144	730	IE2- 87.9	87.4	85.2	0.67	25.5	4.3	1.9	1.6	2.3	0.1660	157
IE2-W21R 200 L8 Ex II 3D	15.0	197	727	IE2- 88.2	88.1	86.4	0.77	32	4.9	1.9	1.7	2.3	0.2680	200
IE2-W21R 225 S8 Ex II 3D	18.5	242	730	IE2- 89.6	89.4	87.2	0.78	38	5.4	2.1	2.0	2.8	0.440	265
IE2-W22R 225 S8 Ex II 3D	18.5	240	735	IE2- 90.7	90.7	89.4	0.8	37	6.1	2.1	1.9	2.9	0.514	305
IE2-W21R 225 M8 Ex II 3D	22	287	733	IE2- 90.6	89.4	89.9	0.78	45	5.6	2.2	1.8	2.6	0.825	380
IE2-W22R 225 M8 Ex II 3D	22	286	735	IE2- 90.3	90.3	88.7	0.77	45.5	6.1	2.2	2.0	2.9	0.514	307
IE2-W21R 250 M8 Ex II 3D	30	389	737	IE2- 92.1	92.4	91.6	0.79	59.5	5.0	2.0	1.6	2.1	1.350	480
IE2-W22R 250 M8 Ex II 3D	30	391	732	IE2- 91.5	91.7	90.9	0.77	61.5	5.6	2.3	2.0	2.5	0.950	405
IE2-W21R 280 S8 Ex II 3D	37	479	737	IE2- 92.2	92.1	90.9	0.79	73.5	6.0	2.3	1.9	2.5	1.55	550
IE2-W21R 280 M8 Ex II 3D	45	581	740	IE2- 92.7	92.7	92.0	0.79	88.5	6.7	1.8	1.5	2.5	2.63	690
IE2-W21R 315 S8 Ex II 3D	55	710	740	IE2- 92.2	92.2	92.1	0.80	108	6.3	1.8	1.5	2.3	2.63	690
IE2-W21R 315 M8 Ex II 3D	75	968	740	IE2- 93.5	93.5	93.0	0.81	143	6.0	1.8	1.5	2.1	3.6	880
IE2-W21R 315 MX8 Ex II 3D	90	1161	740	IE2- 92.1	91.6	90.1	0.81	174	6.0	1.9	***	2.2	6	1050
IE2-W21R 315 MY8 Ex II 3D	110	1420	740	IE2- 93.8	93.3	91.2	0.81	209	6.5	2.1	***	2.4	6.76	1250
IE2-W21R 315 L8 Ex II 3D	132	1704	740	IE2- 94.4	94.0	93.5	0.83	243	7.5	2.2	1.8	2.5	8.71	1430
IE2-W21R 315 LX8 Ex II 3D	160	2065	740	IE2- 94.2	94.2	93.8	0.80	306	7.2	2.2	1.8	2.5	8.71	1430
IE2-W22R 355 M8 Ex II 3D	200	2571	743	IE2- 94.7	94.1	91.5	0.77	396	***	***	***	***	9.5	1850
IE2-W22R 355 MX8 Ex II 3D	250	3205	745	IE2- 95.8	95.8	95.5	0.83	454	7.0	1.2	1.0	2.6	13.4	2200
IE2-W22R 355 LY8 Ex II 3D	280	3599	743	IE2- 94.8	94.1	91.5	0.78	547	***	***	***	***	15.8	2400

IP 65 required for conductive dust! Ex tc IIIC T125 °C Dc

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

***) upon request

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1 Type of explosion protection – Protection by enclosure „tc“ for operation in Zone 22 according to EN 60079-31

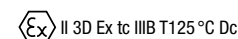
II 3D Ex tc IIB T125 °C Dc

for rated voltage, temperature classes T1, T2 and T3
with surface cooling, duty type S1, continuous duty
thermal class F, degree of protection IP 55, 50 Hz

Motor selection data												Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	kgm ²	kg
Synchronous speed 3000 rpm – 2-pole version														
IE1-KPEO 56 K2 Ex II 3D	0.09	0.3	2840	IE1- 70.2	68.1	64.5	0.74	0.25	4.9	2.3	2.3	2.8	0.00013	4.4
IE1-KPER 56 G2 Ex II 3D	0.12	0.41	2830	IE1- 70.3	67.0	60.1	0.77	0.32	4.5	2.1	2.1	2.3	0.00013	4.5
IE1-KPER 63 K2 Ex II 3D	0.18	0.62	2790	IE1- 67.0	65.6	59.8	0.76	0.51	4.1	1.9	1.9	2.2	0.00013	4.9
IE1-KPER 63 G2 Ex II 3D	0.25	0.85	2800	IE1- 67.7	64.9	56.2	0.72	0.74	4.2	2.2	2.2	2.4	0.00015	5.2
IE1-KPER 71 K2 Ex II 3D	0.37	1.27	2780	IE1- 71.9	70.8	65.0	0.79	0.94	4.4	2.1	2.1	2.3	0.00025	6.7
IE1-KPER 71 G2 Ex II 3D	0.55	1.89	2775	IE1- 74.2	75.0	72.0	0.81	1.32	5.1	2.3	2.1	2.6	0.00032	7.6
IE1-KPER 80 K2 Ex II 3D	0.75	2.54	2825	IE1- 76.8	77.5	74.3	0.82	1.72	5.9	2.4	2.4	2.4	0.00057	10.7
IE1-KPER 80 G2 Ex II 3D	1.1	3.71	2835	IE1- 76.9	75.9	73.3	0.81	2.55	6.0	2.4	2.3	2.6	0.00072	11.5
IE1-KPER 90 S2 Ex II 3D	1.5	5.04	2840	IE1- 81.2	82.2	80.3	0.86	3.1	7.0	2.5	2.5	2.8	0.00132	16.0
IE1-KPER 90 L2 Ex II 3D	2.2	7.37	2850	IE1- 82.1	83.4	81.9	0.85	4.55	7.5	2.8	2.3	2.9	0.0017	19.0
IE1-KPER 100 L2 Ex II 3D	3.0	10	2865	IE1- 82.8	83.1	83.3	0.85	6.15	6.8	2.4	2.2	2.8	0.00275	25.0
IE1-KPER 112 M2 Ex II 3D	4.0	13.2	2900	IE1- 84.9	85.5	84.4	0.81	8.4	7.0	2.2	2.1	2.9	0.0045	32
IE1-KPER 112 MX2 Ex II 3D	5.5	18.2	2890	IE1- 85.9	86.2	86.4	0.84	11.0	7.5	2.4	2.2	3.0	0.0055	40
IE1-KPER 132 S2T Ex II 3D	5.5	18.2	2890	IE1- 85.9	86.2	86.4	0.84	11.0	7.5	2.4	2.2	3.0	0.0055	40
IE1-KPER 132 SX2T Ex II 3D	7.5	24.9	2880	IE1- 87.1	87.2	86.6	0.84	14.8	6.3	1.5	1.2	2.6	0.0680	48
IE1-K21R 132 S2 Ex II 3D	5.5	18	2860	IE1- 84.7	84.7	82.4	0.86	11	5.5	1.8	1.6	2.2	0.0081	50
IE1-K21R 132 SX2 Ex II 3D	7.5	25	2900	IE1- 86.0	86.0	84.0	0.86	14.5	6.6	1.8	1.3	2.5	0.0110	59
IE1-K21R 160 M2 Ex II 3D	11.0	36	2900	IE1- 87.6	87.6	84.6	0.90	20	7.0	2.4	2.0	3.0	0.0258	88
IE1-K21R 160 MX2 Ex II 3D	15.0	49	2930	IE1- 88.7	88.7	85.8	0.90	27	7.1	2.2	1.7	2.9	0.0575	131
IE1-K21R 160 L2 Ex II 3D	18.5	61	2920	IE1- 89.3	88.3	85.8	0.92	32.5	7.2	2.1	1.6	2.8	0.0675	138
IE1-K21R 180 M2 Ex II 3D	22	72	2935	IE1- 89.9	89.1	86.1	0.92	38.5	6.8	1.7	1.4	2.6	0.105	178
IE1-K21R 200 L2 Ex II 3D	30	97	2940	IE1- 91.1	90.3	88.8	0.92	51.5	7.3	2.0	1.6	2.9	0.128	207
IE1-K21R 200 LX2 Ex II 3D	37	120	2940	IE1- 91.5	90.5	89.0	0.90	65	7.0	1.8	1.3	2.4	0.193	265
IE1-K21R 225 M2 Ex II 3D	45	146	2940	IE1- 92.0	91.3	88.8	0.91	77.5	7.5	1.8	1.4	2.7	0.220	295
IE1-K21R 250 M2 Ex II 3D	55	178	2955	IE1- 92.2	91.0	89.0	0.91	94.5	7.5	2.0	1.5	2.6	0.375	383
IE1-K21R 280 S2 Ex II 3D	75	241	2970	IE1- 93.1	92.0	90.5	0.92	126	7.5	2.0	1.6	2.6	0.650	505
IE1-K21R 280 M2 Ex II 3D	90	289	2970	IE1- 93.2	92.7	90.5	0.91	153	8.5	2.2	1.8	2.8	0.675	546
IE1-K21R 315 S2 Ex II 3D	110	353	2975	IE1- 93.5	92.6	91.1	0.91	187	8.5	1.5	1.3	2.5	1.21	720
IE1-K21R 315 M2 Ex II 3D	132	424	2975	IE1- 93.8	92.9	91.9	0.91	223	8.5	2.0	1.8	2.7	1.44	800
IE1-K21R 315 MX2 Ex II 3D	160	514	2975	IE1- 94.0	94.0	94.0	0.91	270	8.5	1.5	1.0	2.0	1.76	980
IE1-K21R 315 MY2 Ex II 3D	200	643	2970	IE1- 94.0	93.2	92.5	0.92	334	8.2	2.6	2.0	2.6	2.82	1170
IE1-K21R 315 L2 Ex II 3D	250	803	2973	IE1- 94.1	93.2	93.0	0.93	412	7.3	2.1	1.4	2.0	3.66	1460
IE1-K21R 315 LX2 Ex II 3D	315	1010	2980	IE1- 94.5	94.5	92.8	0.92	523	8.6	2.7	1.7	2.4	4.43	1630
IE1-K22R 355 MY2G Ex II 3D	315	1007	2988	IE1- 94.5	94.3	93.7	0.88	547	8.6	1.3	1.0	3.0	4.10	1900
IE1-K22R 355 M2G Ex II 3D	355	1138	2980	IE1- 94.3	94.3	93.8	0.91	597	7.3	1.3	1.0	2.3	4.20	2000
IE1-K22R 355 MX2G Ex II 3D	400	1280	2985	IE1- 94.6	94.5	93.8	0.90	678	8.5	1.9	1.3	3.2	5.50	2200
IE1-K22R 355 L2G Ex II 3D	450	1441	2983	IE1- 94.7	94.5	93.8	0.92	746	7.2	1.3	1.0	2.4	7.10	2400

Progressive series KPR/K10R possible upon request
IP 65 required for conductive dust! Ex tc IIC T125 °C Dc
Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1
Type of explosion protection – Protection by enclosure „tc“
for operation in Zone 22 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz	
Type	P	M _B	n _B	η _B (IEC/EN 60034-30-1)			cosφ _B	I _B 400 V	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	kgm ²	kg
Synchronous speed 1500 rpm – 4-pole version														
IE1-KPE0 56 K4 Ex II 3D	0.06	0.41	1410	IE1- 60.1	56.5	49.6	0.60	0.24	3.1	2.3	2.3	2.7	0.00019	4.3
IE1-KPER 56 G4 Ex II 3D	0.09	0.63	1375	IE1- 61.6	58.7	53.0	0.68	0.31	3.2	1.9	1.9	2.2	0.00019	4.4
IE1-KPER 63 K4 Ex II 3D	0.12	0.84	1370	IE1- 57.9	51.2	42.2	0.68	0.44	3.2	1.9	1.8	2.2	0.00019	4.8
IE1-KPER 63 G4 Ex II 3D	0.18	1.26	1360	IE1- 60.6	57.5	49.4	0.66	0.65	3.3	2.0	2.0	2.3	0.00024	5.2
IE1-KPER 71 K4 Ex II 3D	0.25	1.72	1385	IE1- 64.3	63.2	58.2	0.72	0.78	3.6	1.8	1.8	2.1	0.00040	6.8
IE1-KPER 71 G4 Ex II 3D	0.37	2.58	1370	IE1- 68.1	66.7	62.0	0.74	1.06	3.8	2.0	2.0	2.2	0.00050	7.8
IE1-KPER 80 K4 Ex II 3D	0.55	3.75	1400	IE1- 71.9	70.7	64.1	0.69	1.6	4.1	2.1	2.0	2.3	0.00087	10.6
IE1-KPER 80 G4 Ex II 3D	0.75	5.12	1400	IE1- 73.6	72.2	66.8	0.70	2.1	4.6	2.2	2.1	2.3	0.00107	11.7
IE1-KPER 90 S4 Ex II 3D	1.1	7.45	1410	IE1- 76.7	76.8	73.6	0.79	2.62	5.5	2.3	2.2	2.5	0.00207	15.5
IE1-KPER 90 L4 Ex II 3D	1.5	10.2	1400	IE1- 78.6	79.1	76.9	0.81	3.4	5.5	2.5	2.4	2.6	0.00260	18.0
IE1-KPER 100 L4 Ex II 3D	2.2	14.9	1410	IE1- 80.2	80.7	79.5	0.80	4.95	6.0	2.5	2.3	2.7	0.00400	23.5
IE1-KPER 100 LX4 Ex II 3D	3.0	20	1430	IE1- 82.4	82.8	80.8	0.79	6.65	6.5	2.5	2.2	2.9	0.00725	30
IE1-KPER 112 M4 Ex II 3D	4.0	26.6	1435	IE1- 84.1	85.1	83.6	0.78	8.8	6.9	2.6	2.5	3.2	0.009	37
IE1-KPER 112 MX4 Ex II 3D	5.5	36.9	1425	IE1- 85.2	86.5	85.8	0.79	11.8	6.3	2.5	2.4	2.9	0.011	47
IE1-KPER 132 S4T Ex II 3D	5.5	36.9	1425	IE1- 85.2	86.5	85.8	0.79	11.8	6.3	2.5	2.4	2.9	0.011	47
IE1-K21R 132 S4 Ex II 3D	5.5	36	1440	IE1- 84.9	84.9	83.4	0.89	10.5	6.5	1.9	1.7	3.0	0.015	51
IE1-K21R 132 M4 Ex II 3D	7.5	49	1450	IE1- 86.5	85.5	84.0	0.84	15	6.0	2.0	1.7	2.9	0.028	73
IE1-K21R 160 M4 Ex II 3D	11.0	72	1450	IE1- 88.0	87.6	85.6	0.85	21	6.8	2.2	1.9	3.3	0.035	92
IE1-K21R 160 L4 Ex II 3D	15.0	98	1465	IE1- 88.7	88.3	85.8	0.86	28.5	7.3	2.5	2.0	3.0	0.078	132
IE1-K21R 180 M4 Ex II 3D	18.5	121	1460	IE1- 89.3	88.8	86.8	0.86	35	6.8	2.5	2.0	2.9	0.090	145
IE1-K21R 180 L4 Ex II 3D	22	143	1465	IE1- 89.9	89.9	88.4	0.84	42	6.5	2.0	1.8	2.6	0.138	185
IE1-K21R 200 L4 Ex II 3D	30	196	1465	IE1- 90.7	90.2	89.2	0.85	56	7.0	2.0	1.7	2.4	0.168	211
IE1-K21R 225 S4 Ex II 3D	37	240	1470	IE1- 91.2	90.2	89.2	0.86	68	7.0	2.0	1.7	2.5	0.275	282
IE1-K21R 225 M4 Ex II 3D	45	292	1470	IE1- 91.7	91.2	89.7	0.86	82.5	7.0	2.0	1.7	2.5	0.313	323
IE1-K21R 250 M4 Ex II 3D	55	356	1475	IE1- 92.3	91.8	90.8	0.86	100	7.0	2.2	1.7	2.3	0.525	394
IE1-K21R 280 S4 Ex II 3D	75	484	1480	IE1- 92.7	92.1	90.6	0.86	136	7.0	2.0	1.7	2.2	0.950	540
IE1-K21R 280 M4 Ex II 3D	90	581	1480	IE1- 93.3	92.2	89.7	0.86	162	7.0	2.1	1.6	2.2	1.10	610
IE1-K21R 315 S4 Ex II 3D	110	707	1485	IE1- 93.5	92.9	91.4	0.86	197	7.5	1.8	1.6	2.2	1.96	740
IE1-K21R 315 M4 Ex II 3D	132	849	1485	IE1- 93.5	92.9	91.9	0.86	237	7.0	1.8	1.5	2.2	2.27	840
IE1-K21R 315 MX4 Ex II 3D	160	1032	1480	IE1- 93.8	93.6	92.8	0.87	283	7.0	1.8	1.5	2.0	2.73	1000
IE1-K21R 315 MY4 Ex II 3D	200	1286	1485	IE1- 94.3	93.3	92.8	0.88	348	7.5	2.0	1.8	2.4	4.82	1200
IE1-K21R 315 L4 Ex II 3D	250	1608	1485	IE1- 94.3	93.2	92.7	0.90	425	8.0	2.0	1.6	2.3	5.93	1510
IE1-K21R 315 LX4 Ex II 3D	315	2019	1490	IE1- 94.5	93.5	93.2	0.88	547	8.6	1.9	1.5	2.5	6.82	1630
IE1-K22R 355 MY4 Ex II 3D	315	2016	1492	IE1- 94.0	93.9	92.4	0.85	569	7.1	1.4	1.0	2.9	5.60	1950
IE1-K22R 355 M4 Ex II 3D	355	2275	1490	IE1- 94.5	94.2	93.2	0.84	646	8.1	1.8	1.0	3.1	7.9	2150
IE1-K22R 355 MX4 Ex II 3D	400	2557	1494	IE1- 94.5	94.4	93.7	0.84	727	8.6	1.3	1.0	3.0	9.5	2400
IE1-K22R 355 L4 Ex II 3D	450	2884	1490	IE1- 94.5	94.4	93.7	0.82	838	8.0	1.2	1.0	3.0	10.0	2500

Progressive series KPR/K10R possible upon request

IP 65 required for conductive dust! Ex tc IIIC T125 °C Dc

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1 Type of explosion protection – Protection by enclosure „tc“ for operation in Zone 22 according to EN 60079-31

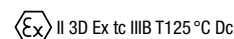
II 3D Ex tc IIIB T125 °C Dc

for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data													Design point 400 V, 50 Hz	
Type	P	M _B	n _B	η _B			cosφ _B	I _B	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	(IEC/EN 60034-30-1)			-	400 V	-	-	-	-	kgm ²	kg
Synchronous speed 1000 rpm – 6-pole version														
IE1-KPER 63 K6 Ex II 3D	0.09	0.96	895	IE1- 50.4	46.2	38.4	0.56	0.46	2.5	2.0	2.0	2.4	0.00024	4.9
IE1-KPER 63 G6 Ex II 3D	0.12	1.3	880	IE1- 52.4	50.1	43.2	0.56	0.59	2.5	2.0	2.0	2.3	0.00027	5.7
IE1-KPER 71 K6 Ex II 3D	0.18	1.86	925	IE1- 57.9	53.9	45.4	0.51	0.88	2.8	1.6	1.6	2.1	0.00045	7.4
IE1-KPER 71 G6 Ex II 3D	0.25	2.61	915	IE1- 59.6	57.5	49.5	0.55	1.1	2.9	2.0	2.0	2.2	0.00060	8.3
IE1-KPER 80 K6 Ex II 3D	0.37	3.86	915	IE1- 66.3	64.5	57.1	0.66	1.22	3.4	2.0	2.0	2.0	0.00130	11.0
IE1-KPER 80 G6 Ex II 3D	0.55	5.74	915	IE1- 68.5	67.0	60.7	0.67	1.73	3.7	2.2	2.2	2.4	0.00175	12.5
IE1-KPER 90 S6 Ex II 3D	0.75	7.66	935	IE1- 70.5	68.8	63.2	0.64	2.4	4.5	2.4	2.4	2.6	0.00325	16.0
IE1-KPER 90 L6 Ex II 3D	1.1	11.24	935	IE1- 73.4	73.0	68.4	0.68	3.18	4.6	2.2	2.2	2.6	0.00425	19.0
IE1-KPER 100 L6 Ex II 3D	1.5	15.16	945	IE1- 76.0	75.2	71.1	0.73	3.9	4.6	2.1	2.0	2.4	0.00625	24.0
IE1-KPER 112 M6 Ex II 3D	2.2	22.12	950	IE1- 78.1	78.8	75.8	0.76	5.35	5.3	2.2	2.1	2.7	0.01225	33.5
IE1-KPER 132 S6T Ex II 3D	3.0	30.6	935	IE1- 81.9	82.8	81.4	0.75	7.05	5.2	2.5	2.5	2.9	0.0139	39.0
IE1-K21R 132 S6 Ex II 3D	3.0	30	955	IE1- 79.7	79.7	76.2	0.82	6.6	5.7	1.8	1.6	2.7	0.0180	46
IE1-K21R 132 M6 Ex II 3D	4.0	40	955	IE1- 81.4	80.4	75.4	0.80	8.9	6.0	2.2	2.0	3.1	0.0230	56
IE1-K21R 132 MX6 Ex II 3D	5.5	55	955	IE1- 83.3	83.3	81.3	0.83	11.5	5.0	1.8	1.5	2.3	0.0430	72
IE1-K21R 160 M6 Ex II 3D	7.5	75	960	IE1- 85.0	84.0	80.0	0.82	15.5	5.5	2.0	1.6	2.5	0.0530	91
IE1-K21R 160 L6 Ex II 3D	11.0	109	965	IE1- 86.4	86.2	84.2	0.86	21.5	5.0	2.0	1.7	2.3	0.1130	122
IE1-K21R 180 L6 Ex II 3D	15.0	148	965	IE1- 87.7	86.7	83.7	0.83	29.5	6.0	2.4	2.1	2.7	0.1450	142
IE1-K21R 200 L6 Ex II 3D	18.5	182	970	IE1- 88.6	88.5	86.5	0.87	34.5	5.5	2.0	1.7	2.4	0.2280	190
IE1-K21R 200 LX6 Ex II 3D	22	217	970	IE1- 89.2	88.9	86.4	0.87	41	6.2	2.2	1.8	2.6	0.2680	208
IE1-K21R 225 M6 Ex II 3D	30	295	973	IE1- 90.2	89.8	87.8	0.89	54	6.5	2.2	1.7	2.5	0.4430	284
IE1-K21R 250 M6 Ex II 3D	37	362	975	IE1- 90.8	90.6	87.8	0.89	66	6.5	2.2	1.7	2.3	0.8250	376
IE1-K21R 280 S6 Ex II 3D	45	439	980	IE1- 91.4	91.4	89.4	0.87	81.5	6.0	2.0	1.5	2.0	1.28	465
IE1-K21R 280 M6 Ex II 3D	55	536	980	IE1- 91.9	91.4	89.4	0.88	98	6.5	2.3	1.7	2.4	1.48	575
IE1-K21R 315 S6 Ex II 3D	75	727	985	IE1- 92.7	92.0	91.0	0.87	134	7.0	2.0	1.6	2.4	2.63	690
IE1-K21R 315 M6 Ex II 3D	90	868	990	IE1- 93.4	92.5	91.0	0.88	158	7.0	2.0	1.7	2.4	3.33	800
IE1-K21R 315 MX6 Ex II 3D	110	1061	990	IE1- 93.3	93.1	91.6	0.88	193	7.5	2.2	1.7	2.6	3.60	880
IE1-K21R 315 MY6 Ex II 3D	132	1273	990	IE1- 94.0	93.7	92.5	0.88	230	7.5	2.0	1.7	2.4	6.00	1050
IE1-K21R 315 L6 Ex II 3D	160	1551	985	IE1- 94.3	94.0	92.8	0.89	275	7.5	2.3	1.9	2.4	6.67	1250
IE1-K21R 315 LX6 Ex II 3D	200	1929	990	IE1- 94.2	93.9	93.2	0.87	352	8.3	2.2	2.0	2.7	8.6	1460
IE1-K22R 355 MY6 Ex II 3D	180	1735	990	IE1- 94.0	94.1	95.3	0.86	321	8.5	2.5	1.6	2.6	8.1	1550
IE1-K22R 355 M6 Ex II 3D	250	2402	994	IE1- 94.5	94.2	93.3	0.81	471	7.0	1.8	1.3	2.3	8.2	1850
IE1-K22R 355 MX6 Ex II 3D	315	3023	995	IE1- 94.5	94.5	93.8	0.83	580	6.8	1.6	1.3	2.5	12.1	2200
IE1-K22R 355 LY6 Ex II 3D	355	3407	995	IE1- 94.4	94.2	92.4	0.78	696	7.4	1.9	1.4	2.6	14.0	2400

Progressive series KPR/K10R possible upon request
 IP 65 required for conductive dust! Ex tc IIIC T125 °C Dc
 Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Three-phase motors with squirrel-cage rotor, Standard Efficiency IE1
Type of explosion protection – Protection by enclosure „tc“
for operation in Zone 22 according to EN 60079-31



for rated voltage, temperature classes T1, T2 and T3
 with surface cooling, duty type S1, continuous duty
 thermal class F, degree of protection IP 55, 50 Hz

Motor selection data												Design point 400 V, 50 Hz		
Type	P	M _B	n _B	η _B (IEC/EN 60034-30-1)			cosφ _B	I _B 400 V	I _A /I _B	M _A /M _B	M _S /M _B	M _K /M _B	J	m
	kW	Nm	rpm	100 %	75 %	50 %	-	A	-	-	-	-	kgm ²	kg
Synchronous speed 750 rpm – 8-pole version														
IE1-KPER 71 K8 Ex II 3D	0.09	1.27	675	- 45.5	42.1	34.8	0.51	0.56	2.1	1.9	1.9	2.1	0.00050	6.6
IE1-KPER 71 G8 Ex II 3D	0.12	1.71	670	- 46.5	42.1	33.7	0.51	0.73	2.3	1.8	1.8	2.1	0.00060	8.1
IE1-KPER 80 K8 Ex II 3D	0.18	2.49	690	- 56.5	53.4	45.0	0.59	0.78	2.8	2.0	2.0	2.2	0.00130	10.5
IE1-KPER 80 G8 Ex II 3D	0.25	3.44	695	- 57.5	54.1	46.1	0.56	1.12	3.0	2.3	2.3	2.5	0.00175	12.0
IE1-KPER 90 S8 Ex II 3D	0.37	5.05	700	- 61.8	59.7	52.8	0.54	1.60	3.0	1.9	1.9	2.1	0.00300	15.0
IE1-KPER 90 L8 Ex II 3D	0.55	7.56	695	- 64.8	62.5	55.8	0.60	2.04	3.2	1.9	1.9	2.2	0.00375	18.0
IE1-KPER 100 L8 Ex II 3D	0.75	10.2	705	- 66.8	64.7	57.9	0.60	2.70	3.3	1.8	1.8	2.2	0.00625	23.0
IE1-KPER 100 LX8 Ex II 3D	1.1	14.9	705	- 72.9	73.3	69.6	0.67	3.25	4.0	2.0	2.0	2.4	0.00900	28.0
IE1-KPER 112 M8 Ex II 3D	1.5	20.3	705	- 75.4	75.7	72.4	0.70	4.10	4.4	2.2	2.1	2.5	0.01225	33.5
IE1-KPER 132 S8T Ex II 3D	2.2	31	685	- 74.1	74.8	72.4	0.68	6.30	3.8	2.0	1.9	2.3	0.01390	39.0
IE1-K21R 132 S8 Ex II 3D	2.2	30	705	IE1- 75.5	75.0	72.0	0.76	5.5	4.5	1.7	1.6	2.3	0.01800	46
IE1-K21R 132 M8 Ex II 3D	3.0	41	705	IE1- 78.0	78.0	75.0	0.75	7.4	4.5	1.7	1.6	2.3	0.0230	53
IE1-K21R 160 M8 Ex II 3D	4.0	54	710	IE1- 79.3	79.0	77.0	0.78	9.3	4.0	1.6	1.3	1.9	0.0430	70
IE1-K21R 160 MX8 Ex II 3D	5.5	74	710	IE1- 81.4	81.0	78.0	0.78	12.5	4.5	1.7	1.6	2.1	0.0530	86
IE1-K21R 160 L8 Ex II 3D	7.5	99	725	IE1- 83.0	83.0	79.0	0.78	16.5	4.5	1.8	1.6	2.1	0.1130	114
IE1-K21R 180 L8 Ex II 3D	11.0	146	720	IE1- 85.0	84.0	81.5	0.78	24	4.5	2.0	1.7	2.1	0.1450	136
IE1-K21R 200 L8 Ex II 3D	15.0	198	725	IE1- 86.5	86.0	83.0	0.79	31.5	5.0	2.0	1.7	2.3	0.228	175
IE1-K21R 225 S8 Ex II 3D	18.5	244	725	IE1- 89.2	88.0	86.0	0.83	36	5.5	2.0	1.6	2.2	0.440	265
IE1-K21R 225 M8 Ex II 3D	22	290	725	IE1- 89.2	89.0	88.5	0.84	42.5	5.0	1.8	1.5	2.2	0.440	265
IE1-K21R 250 M8 Ex II 3D	30	393	730	IE1- 89.7	89.5	86.5	0.79	61	5.5	2.2	1.8	2.2	0.825	360
IE1-K21R 280 S8 Ex II 3D	37	481	735	IE1- 90.5	90.0	87.5	0.80	74	5.5	2.0	1.5	2.0	1.35	465
IE1-K21R 280 M8 Ex II 3D	45	585	735	IE1- 91.0	90.5	88.0	0.77	92.5	6.0	2.3	1.8	2.4	1.55	520
IE1-K21R 315 S8 Ex II 3D	55	710	740	IE1- 92.1	91.0	89.5	0.80	108	6.5	1.8	1.6	2.3	2.63	690
IE1-K21R 315 M8 Ex II 3D	75	968	740	IE1- 92.3	92.0	90.5	0.81	145	6.0	2.0	1.6	2.3	3.33	800
IE1-K21R 315 MX8 Ex II 3D	90	1162	740	IE1- 92.5	92.0	90.5	0.81	173	6.0	1.9	1.6	2.2	3.60	880
IE1-K21R 315 MY8 Ex II 3D	110	1420	740	IE1- 93.6	93.0	91.0	0.81	209	6.5	2.1	1.8	2.4	6.00	1100
IE1-K21R 315 L8 Ex II 3D	132	1704	740	IE1- 94.0	93.3	91.0	0.83	244	6.3	2.0	1.7	2.1	6.76	1250
IE1-K21R 315 LX8 Ex II 3D	160	2065	740	IE1- 94.2	93.5	91.0	0.79	310	7.2	2.2	1.9	2.5	8.71	1430
IE1-K22R 355 MY8 Ex II 3D	160	2054	744	IE1- 93.5	93.3	92.5	0.80	309	6.8	1.3	1.0	2.5	9.3	1700
IE1-K22R 355 M8 Ex II 3D	200	2571	743	IE1- 93.9	93.6	92.8	0.77	399	6.5	1.6	1.0	2.7	9.5	1850
IE1-K22R 355 MX8 Ex II 3D	250	3209	744	IE1- 94.1	93.9	92.8	0.78	492	6.6	1.3	1.0	2.8	13.4	2200
IE1-K22R 355 LY8 Ex II 3D	280	3594	744	IE1- 93.6	93.4	92.3	0.78	554	8.2	1.2	1.0	2.8	15.8	2400

Progressive series KPR/K10R possible upon request

IP 65 required for conductive dust! Ex tc IIIC T125 °C Dc

Other voltages and frequencies upon request. Changes are possible for motors which are not yet certified.

Terminal boxes

Type of explosion protectionen „n“ („ec“)/Increased safety „e“ („eb“), protection by enclosure „tb“ and „tc“

Overview of terminal boxes

Type Ex e IIC	Terminal plate	$I_{B \max}$	$Q_{B \min}$	$Q_{B \max}$	Terminal type	Terminal thread	a
		[A]	[mm ²]	[mm ²]			[mm]
KA 05-13	KB 5580	27.5		2.5	U-clamp terminal	M4	
25 A	KB 3Ex (KS 10A)	53	6	10	Slotted terminal	S10 x 1	4.3 ± 0.1
63 A	KB 4Ex (KS 14A)	72	10	16	Slotted terminal	S14 x 1.25	6.3 ± 0.2
100 A	KB 4Ex (KS 14A)	72	10	16	Slotted terminal	S14 x 1.25	6.3 ± 0.2
200 A	KB 5Ex (KS 18A)	118	25	35	Slotted terminal	S18 x 1.5	9.2 ± 0.2
25 AV	KL 155	30		4	U-clamp terminal	M5	-
25 AV	KB 5590Ex/d 5.2	35		4	U-clamp terminal	M4	-
63 AV	KB 5121Ex-3	58.5		10	U-clamp terminal	M5	-
100 AV	KB 5121Ex-3	58.5		10	U-clamp terminal	M5	-
100 AV	KB 5130Ex	114		35	U-clamp terminal	M6	-
200 AV	KB 5130Ex	114		35	U-clamp terminal	M6	-
100/63 AV	KM 8/6, VEM 8/6	63		10	Stud/ U-clamp terminal ¹⁾	M6/M5	
200 A-SB	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	
200 A-SB	KB 5130 Ex	118		35	U-clamp terminal	M6	-
400 A	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	-
	KM 16/12, VEM 16/12	250		120	Stud/ Tab terminal	M12/2xM10	-
400 AV	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	-
400 A-SB	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	-
	KM 16/12, VEM 16/12	250		120	Stud/ Tab terminal	M12/2xM10	-
630 A	VEM KLP 630-16	455	35	300	Stud/ Screw terminal	M16 M12/M8	-
K1X 200 A	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	-
K2X 200 A	KM 10/8, VEM 10/8	100		70	Stud/ Tab terminal	M8/2xM6	-
K1X 400 A	KM 16/12, VEM 16/12	250		120	Stud/ Tab terminal	M12/2xM10	-
K2X 400 A	KM 16/12, VEM 16/12	250		120	Stud/ Tab terminal	M12/2xM10	-
1000 A	VEM KLP 1000	1000	70	2 x 240	Busbar	M10	-

$I_{B \max}$ max. rated current

$Q_{B \min} / Q_{B \max}$ min./max. rated cross-section

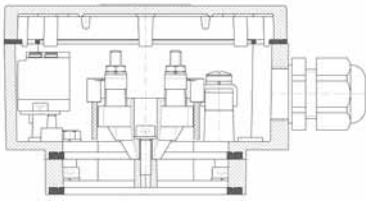
a Slot width of terminal stud (terminal plates to DIN 22412)

¹⁾ for single connection of solid conductors 6...10 mm², conductor bent into a loop

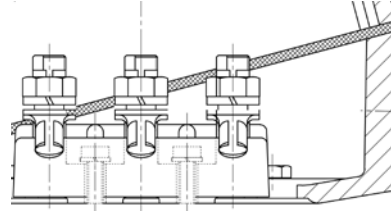
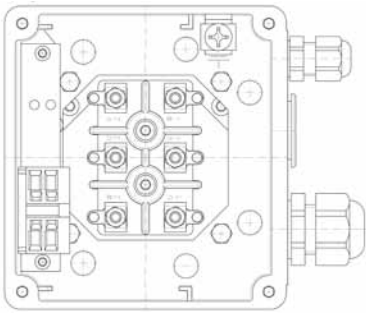
Only cable lugs to DIN 46295 may be used for the motor connection of motors with a terminal plate with slotted terminals. The cable lugs are attached by way of pressure nuts with integrated spring washer. Alternatively, it is permissible to realise connection by way of a solid round conductor whose diameter corresponds to the slot width of the terminal stud.

The numbers of cable glands and their assignment to different motor sizes correspond to the basic version according to DIN 42925 (see also the section "Dimensions" in Chapter 2). Customer-specific designs are possible.

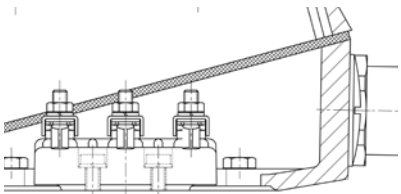
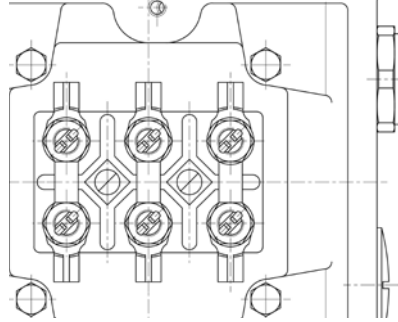
Type of explosion protection „n“ („ec“)/Increased safety „e“ („eb“), protection by enclosure „tb“ and „tc“



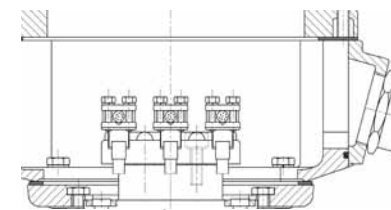
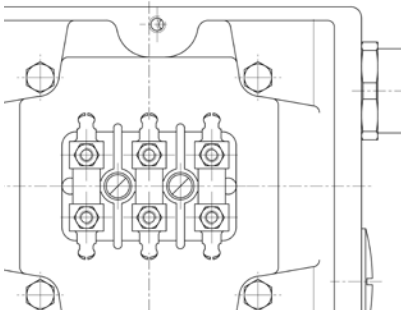
KA 05-13 Ex e IIC



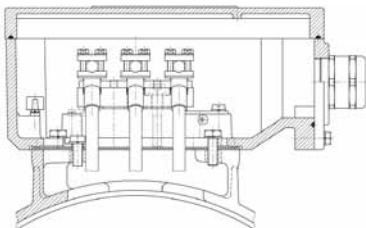
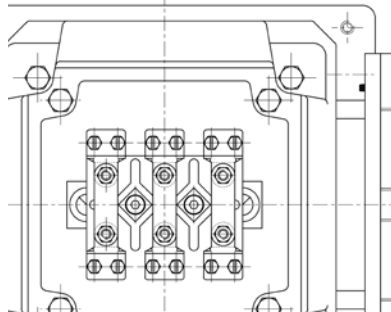
25 A, 63 A, 100 A and 200 A Ex e IIC



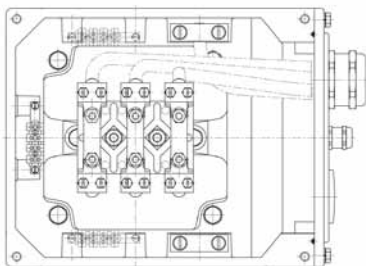
25 AV Ex e IIC

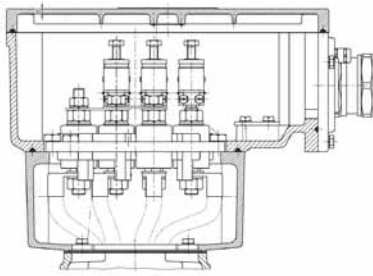


400 A, 400 AV Ex e IIC

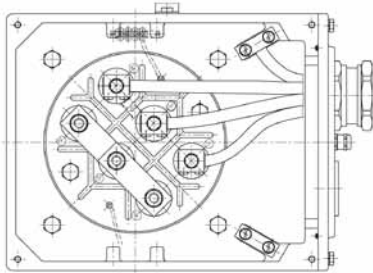


200 B, 400 B Ex e IIC

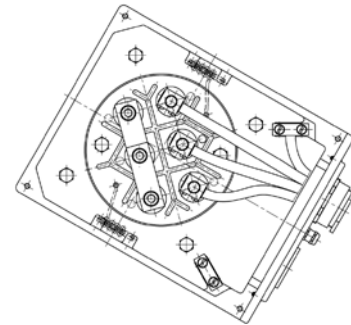
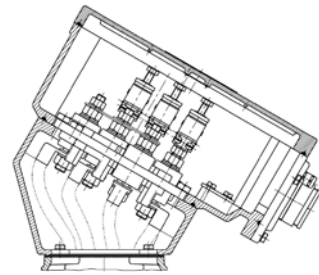




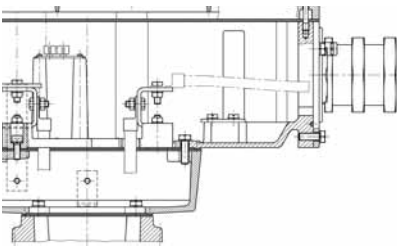
630 A Ex e IIC, gerader ZwischenFlange



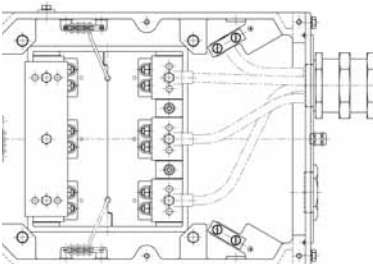
A630 Ex e IIC



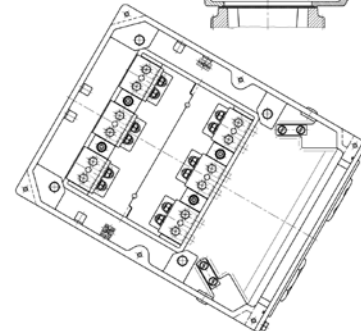
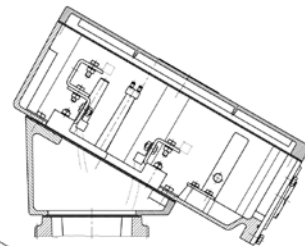
630 A Ex e IIC, inclined adapter flange



1000 A Ex e IIC, gerader ZwischenFlange



1000 A Ex e IIC



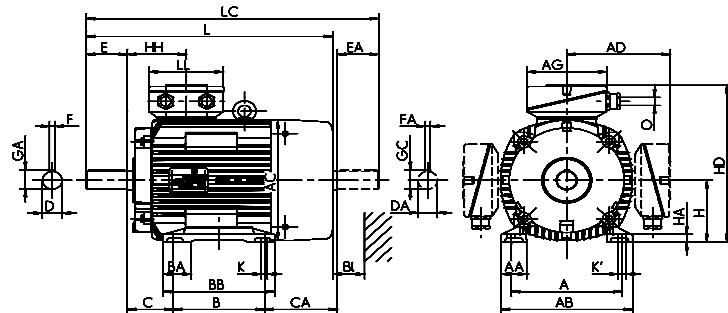
1000 A Ex e IIC, inclined adapter flange

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 200 to 280

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD VIK	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	g1	g1	a	m	e	w1	w2	d	d1		l	l1	u	u1
IE3-W41R 200 L2	FF 350	318	70	372	390	313	378	305	70	360	133	233	55	55	M20	110	110	16	16
IE3-W41R 200 LX2C	FF 350	318	70	372	390	313	378	305	70	360	133	233	55	55	M20	110	110	16	16
IE3-W41R 200 L4C	FF 350	318	70	372	390	313	378	305	70	360	133	233	55	55	M20	110	110	16	16
IE3-W41R 200 L6	FF 350	318	70	372	390	313	378	305	70	360	133	233	55	55	M20	110	110	16	16
IE3-W41R 200 LX6C	FF 350	318	70	372	390	313	378	305	70	360	133	233	55	55	M20	110	110	16	16
IE3-W41R 200 L8	FF 350	318	70	372	351	268	294	305	70	360	133	188	55	48	M20	110	110	16	14
IE3-W41R 225 M2	FF 400	356	75	413	440	337	406	311	75	368	149	267	55	55	M20	110	110	16	16
IE3-W41R 225 S4C	FF 400	356	75	413	390	313	378	286	75	343	149	286	60	55	M20	140	110	18	16
IE3-W41R 225 M4	FF 400	356	75	413	440	337	406	311	75	368	149	267	60	55	M20	140	110	18	16
IE3-W41R 225 M6	FF 400	356	75	413	440	337	406	311	75	368	149	267	60	55	M20	140	110	18	16
IE3-W41R 225 S8	FF 400	356	75	413	390	313	378	286	75	343	149	236	60	55	M20	140	110	18	16
IE3-W41R 225 M8	FF 400	356	75	413	440	337	406	311	75	368	149	267	60	55	M20	140	110	18	16
IE3-W41R 250 M2	FF 500	406	84	469	490	399	403	349	84	374	168	275	60	55	M20	140	110	18	16
IE3-W41R 250 M4	FF 500	406	84	469	490	399	403	349	84	412	168	275	65	55	M20	140	110	18	16
IE3-W41R 250 M6	FF 500	406	84	469	490	399	403	349	84	412	168	275	65	55	M20	140	110	18	16
IE3-W41R 250 M8	FF 500	406	84	471	440	399	403	349	84	412	168	260	65	55	M20	140	110	18	16
IE3-W41R 280 S2	FF 500	457	94	522	490	399	403	368	96	431	190	234	65	65	M20	140	140	18	18
IE3-W41R 280 M2	FF 500	457	94	522	490	399	403	419	96	482	190	234	65	65	M20	140	140	18	18
IE3-W41R 280 S4	FF 500	457	94	522	490	399	403	368	96	431	190	234	75	65	M20	140	140	20	18
IE3-W41R 280 M4	FF 500	457	94	522	550	427	403	419	94	482	190	384	75	65	M20	140	140	20	18
IE3-W41R 280 S6	FF 500	457	94	522	550	427	403	368	94	431	190	380	75	65	M20	140	140	20	18
IE3-W41R 280 M6	FF 500	457	94	522	550	427	403	419	94	482	190	384	75	65	M20	140	140	20	18
IE3-W41R 280 S8	FF 500	457	94	522	550	399	403	368	94	431	190	380	75	65	M20	140	140	20	18
IE3-W41R 280 M8	FF 500	457	94	522	550	427	403	419	94	482	190	384	75	65	M20	140	140	20	18

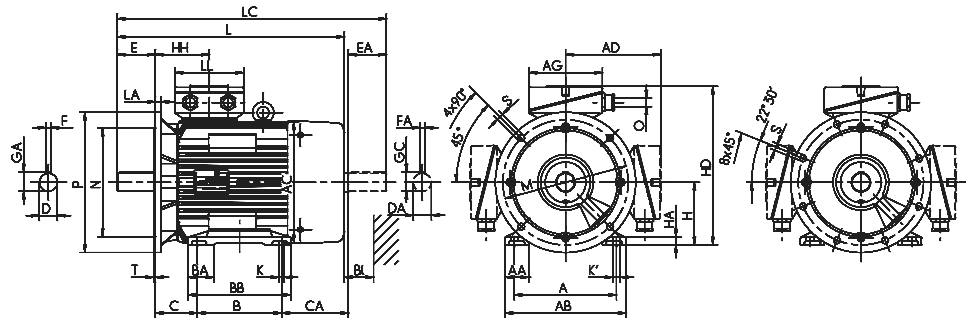
¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

fmit Oberflächenkühlung, Kühlart IC 411
Size 200 to 280

Type of construction IM B35 [IM 2001]
Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD**)	HD VIK	HH	K	K'	L	LC	TB Type Ex e IIC	AG	LL	O	TB Type Ex e IIC	AG LL	AH	O	Hole pattern	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k1	Standard	x	z	-	VIK	x	z	-	-	BI
IE3-W41R 200 L2	59	59	200	22	513	***)	578	168	19	25	767	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	4L 40
IE3-W41R 200 Lx2C	59	59	200	22	513	***)	578	168	19	25	767	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	4L 40
IE3-W41R 200 L4C	59	59	200	22	513	***)	578	168	19	25	767	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	4L 35
IE3-W41R 200 L6	59	59	200	22	513	***)	578	168	19	25	767	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	4L 35
IE3-W41R 200 Lx6C	59	59	200	22	513	***)	578	168	19	25	767	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	4L 35
IE3-W41R 200 L8	59	51.5	200	22	468	***)	494	147	19	25	730	846	63 A	184	172	M50 x 1.5	100/63 AV	223	214	200	M50 x 1.5	4L 35
IE3-W41R 225 M2	59	59	225	25	562	***)	631	177	19	25	832	947	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L 45
IE3-W41R 225 S4C	64	59	225	25	540	***)	605	168	19	25	847	971	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L 40
IE3-W41R 225 M4	64	59	225	25	562	***)	631	177	19	25	912	1027	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L 45
IE3-W41R 225 M6	64	59	225	25	562	***)	631	177	19	25	912	1027	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L 45
IE3-W41R 225 S8	64	59	225	25	540	***)	605	168	19	25	797	921	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L 40
IE3-W41R 225 M8	64	59	225	25	562	***)	631	177	19	25	862	977	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L 45
IE3-W41R 250 M2	64	59	250	28	649	***)	653	206	24	30	924	1072	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 55
IE3-W41R 250 M4	69	59	250	28	649	***)	653	206	24	30	924	1072	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 50
IE3-W41R 250 M6	69	59	250	28	649	***)	653	206	24	30	924	1072	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 50
IE3-W41R 250 M8	69	59	250	28	619	***)	653	177	24	30	912	1112	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 50
IE3-W41R 280 S2	69	69	280	32	649	***)	653	206	24	30	924	1072	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 55
IE3-W41R 280 M2	69	69	280	32	677	***)	677	206	24	30	970	1118	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 55
IE3-W41R 280 S4	79.5	69	280	32	649	***)	653	206	24	30	970	1118	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 50
IE3-W41R 280 M4	79.5	69	280	40	677	***)	677	211	24	30	1105	1273	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 55
IE3-W41R 280 S6	79.5	69	280	40	677	***)	677	211	24	30	1050	1218	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 55
IE3-W41R 280 M6	79.5	69	280	40	677	***)	677	211	24	30	1105	1273	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 55
IE3-W41R 280 S8	79.5	69	280	40	649	***)	653	211	24	30	1050	1218	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 55
IE3-W41R 280 M8	79.5	69	280	40	677	***)	677	211	24	30	1105	1273	200 A	290	252	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L 55

** Terminal box left/right

*** upon request

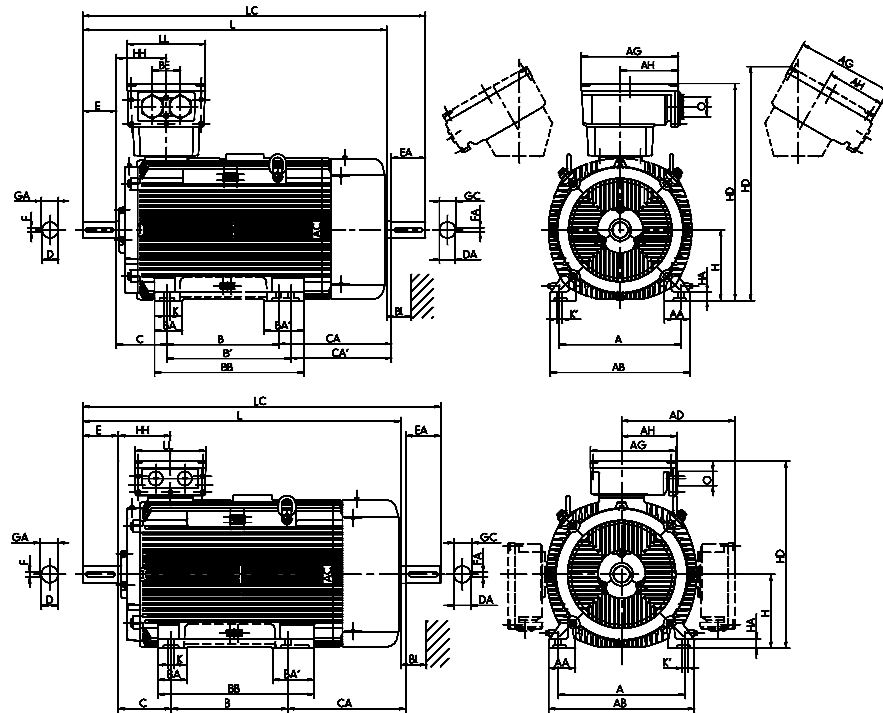
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Size 315

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD VIK	B	BA	BA ¹	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	g1	g1	a	m	m1	e	w1	w2	d	d1		l	l1	u	u1
IE3-W41R 315 S2	FF 600	508	126	590	550	460	460	406	120	-	503	216	316	65	65	M20	140	140	18	18
IE3-W41R 315 M2	FF 600	508	126	590	550	460	460	457	120	150	554	216	320	65	65	M20	140	140	18	18
IE3-W41R 315 MX2	FF 600	508	110	590	610	681	681	457	120	150	554	216	495	65	65	M20	140	140	18	18
IE3-W41R 315 MY2	FF 600	508	110	590	610	681	681	457	120	-	573	216	495	65	65	M20	140	140	18	18
IE3-W41R 315 L2	FF 600	508	110	590	610	681	681	508	120	-	624	216	564	65	65	M20	140	140	18	18
IE3-W41R 315 LX2	FF 600	508	110	590	610	681	681	508	120	-	624	216	684	65	65	M20	140	140	18	18
IE3-W41R 315 S4	FF 600	508	126	590	550	460	460	406	120	150	503	216	316	80	70	M20	170	140	22	20
IE3-W41R 315 M4	FF 600	508	126	590	550	460	460	457	120	150	554	216	320	80	70	M20	170	140	22	20
IE3-W41R 315 MX4	FF 600	508	110	590	610	681	681	457	120	150	554	216	495	80	70	M20	170	140	22	20
IE3-W41R 315 MY4	FF 600	508	110	590	610	681	681	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE3-W41R 315 L4	FF 600	508	110	590	610	681	681	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE3-W41R 315 LX4	FF 600	508	110	590	610	681	681	508	120	-	624	216	684	80	70	M20	170	140	22	20
IE3-W41R 315 S6	FF 600	508	126	590	550	460	460	406	120	150	554	216	371	80	70	M20	170	140	22	20
IE3-W41R 315 M6	FF 600	508	110	590	610	681	681	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE3-W41R 315 MX6	FF 600	508	110	590	610	681	681	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE3-W41R 315 L6	FF 600	508	110	590	610	681	681	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE3-W41R 315 S8	FF 600	508	126	590	550	460	460	406	120	150	554	216	371	80	70	M20	170	140	22	20
IE3-W41R 315 M8	FF 600	508	110	590	610	681	681	457	120	150	573	216	495	80	70	M20	170	140	22	20
IE3-W41R 315 MX8	FF 600	508	110	590	610	681	681	457	120	-	624	216	564	80	70	M20	170	140	22	20
IE3-W41R 315 L8	FF 600	508	110	590	610	681	681	508	120	-	624	216	564	80	70	M20	170	140	22	20

¹⁾ Centre holes to DIN 332-DS ...

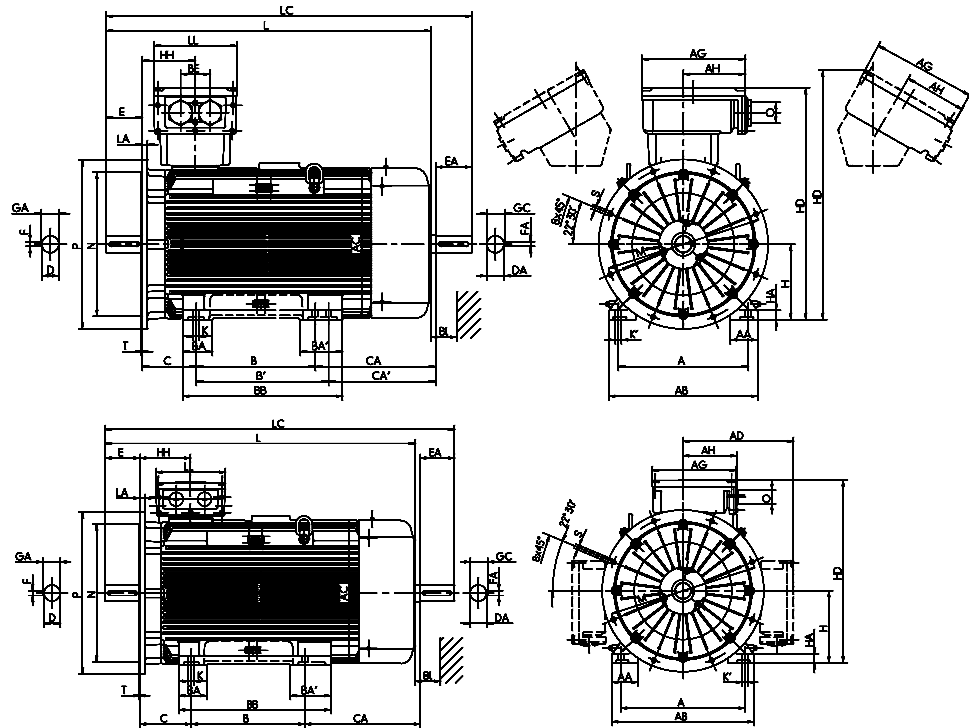
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 315

Type of construction IM B35 [IM 1001]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD ^(*)	HD VIK	HH	K	K'	L	LC	TB Type Ex e IIC	AG	LL	AH	O	TB Type Ex e IIC	AG	LL	AH	O	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k1	Standard	x	z	-	-	VIK	x	z	-	-	BI
IE3-W41R 315 S2	69	69	315	44	775	610	775	211	28	35	1050	1218	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 M2	69	69	315	44	775	610	775	211	28	35	1105	1273	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 Mx2	69	69	315	44	996	628	996	230	28	35	1200	1378	630 A	415	340	265	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 MY2	69	69	315	44	996	628	996	230	28	35	1270	1448	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 L2	69	69	315	44	996	628	996	230	28	35	1390	1568	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 Lx2	69	69	315	44	996	628	996	230	28	35	1510	1688	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 S4	85	74.5	315	44	775	610	775	211	28	35	1080	1248	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 M4	85	74.5	315	44	775	610	775	211	28	35	1135	1303	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 Mx4	85	74.5	315	44	996	628	996	230	28	35	1230	1408	630 A	415	340	265	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 MY4	85	74.5	315	44	996	628	996	230	28	35	1300	1478	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 L4	85	74.5	315	44	996	628	996	230	28	35	1420	1598	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 Lx4	85	74.5	315	44	996	628	996	230	28	35	1540	1718	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 S6	85	74.5	315	44	775	595	775	211	28	35	1135	1303	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 M6	85	74.5	315	44	996	628	996	230	28	35	1300	1478	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 Mx6	85	74.5	315	44	996	628	996	230	28	35	1300	1478	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 L6	85	74.5	315	44	996	628	996	230	28	35	1420	1598	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 S8	85	74.5	315	44	775	610	775	211	28	35	1135	1303	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	496	390	301	M63 x 1.5	55
IE3-W41R 315 M8	85	74.5	315	44	996	628	996	230	28	35	1300	1478	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 Mx8	85	74.5	315	44	996	628	996	230	28	35	1420	1598	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 L8	85	74.5	315	44	996	628	996	230	28	35	1420	1598	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55

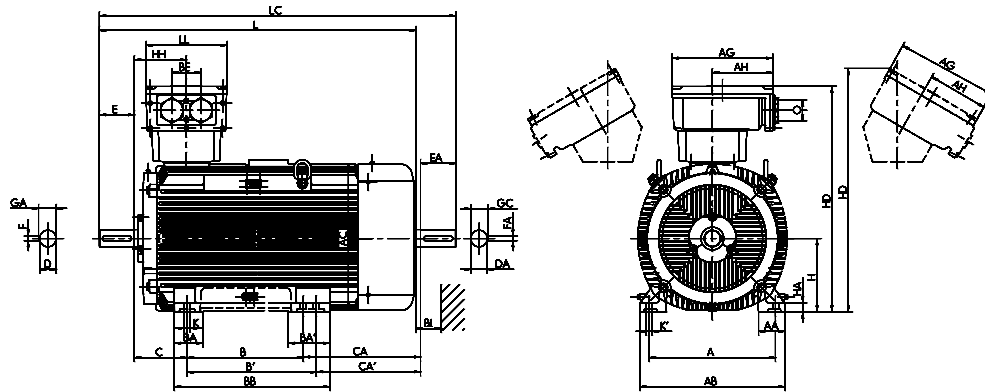
** Terminal box left/right

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 355

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	B	BA	BA'	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	a	m	m1	e	w1	w2	d	d1		l	l1	u	u1
IE3-W41R 355 MY2G	FF 740	610	130	700	715	560	140	200	750	254	561	80	80	M20	170	-	22	-
IE3-W41R 355 M2G	FF 740	610	130	700	715	560	140	200	750	254	561	80	80	M20	170	-	22	-
IE3-W41R 355 MX2G	FF 740	610	130	700	715	560	140	200	750	254	681	80	80	M24	170	-	22	-
IE3-W41R 355 L2G	FF 740	610	130	700	715	630	140	200	750	254	611	80	80	M24	170	-	22	-
IE3-W41R 355 MY4	FF 740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-W41R 355 M 4	FF 740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-W41R 355 MX4	FF 740	610	130	700	715	560	140	200	750	254	681	100	80	M24	210	170	28	22
IE3-W41R 355 L4	FF 740	610	130	700	715	630	140	200	750	254	611	100	80	M24	210	170	28	22
IE3-W41R 355 MY6	FF 740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-W41R 355 M6	FF 740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-W41R 355 MX6	FF 740	610	130	700	715	560	140	200	750	254	681	100	80	M24	210	170	28	22
IE3-W41R 355 L6	FF 740	610	130	700	715	630	140	200	750	254	611	100	80	M24	210	170	28	22
IE3-W41R 355 LX6	FF 740	610	130	700	715	630	140	200	750	254	611	100	80	M24	210	170	28	22
IE3-W41R 355 MY8	FF 740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-W41R 355 M8	FF 740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE3-W41R 355 MX8	FF 740	610	130	700	715	560	140	200	750	254	681	100	80	M24	210	170	28	22
IE3-W41R 355 L8	FF 740	610	130	700	715	630	140	200	750	254	611	100	80	M24	210	170	28	22
IE3-W41R 355 LX8	FF 740	610	130	700	715	630	140	200	750	254	611	100	80	M24	210	170	28	22

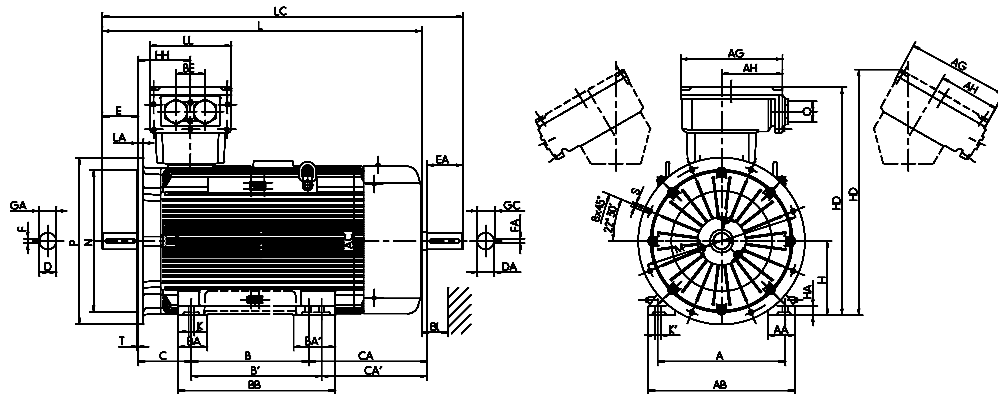
¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 355

Type of construction IM B35 [IM 1001]



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	LC	TB Type	AG	LL	AH	BE	O	TB Type	AG	LL	AH	BE	O	BI
	t	t1	h	c	p	p	B3, VIK	A	s	s'	k	k1	Ex e IIC Standard	x	z	-	-	r	Ex e IIC VIK	x	z	-	-	-	BI
IE3-W41R 355 MY2G	85	-	355	44	1091	1172	1091	250	28	35	1530	-	630 A	496	390	301	140	M75 x 1.5	630 A	496	390	301	140	M75 x 1.5	60
IE3-W41R 355 M2G	85	-	355	44	1091	1172	1091	250	28	35	1530	-	630 A	496	390	301	140	M75 x 1.5	630 A	496	390	301	140	M75 x 1.5	60
IE3-W41R 355 MX2G	85	-	355	44	1091	1172	1091	250	28	35	1730	-	1000 A	615	474	385	200	M75 x 1.5	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W41R 355 L2G	85	-	355	44	1091	1172	1091	250	28	35	1730	-	1000 A	615	474	385	200	M75 x 1.5	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W41R 355 MY4	106	85	355	44	1091	1172	1091	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	630 A	496	390	301	140	M75 x 1.5	60
IE3-W41R 355 M4	106	85	355	44	1091	1172	1091	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	630 A	496	390	301	140	M75 x 1.5	60
IE3-W41R 355 MX4	106	85	355	44	1084	1174	1084	250	28	35	1770	1955	1000 A	615	474	385	140	M75 x 1.5	1000 A	615	474	385	140	M75 x 1.5	60
IE3-W41R 355 L4	106	85	355	44	1084	1174	1084	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W41R 355 MY6	106	85	355	44	1091	1172	1091	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	630 A	496	390	301	140	M75 x 1.5	60
IE3-W41R 355 M6	106	85	355	44	1091	1172	1091	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	630 A	496	390	301	140	M75 x 1.5	60
IE3-W41R 355 MX6	106	85	355	44	1091	1172	1091	250	28	35	1770	1955	630 A	496	390	301	140	M75 x 1.5	630 A	496	390	301	140	M75 x 1.5	60
IE3-W41R 355 L6	106	85	355	44	1084	1174	1084	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W41R 355 LX6	106	85	355	44	1084	1174	1084	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W41R 355 MY8	106	85	355	44	1091	1172	1091	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	630 A	496	390	301	140	M75 x 1.5	60
IE3-W41R 355 M8	106	85	355	44	1091	1172	1091	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	630 A	496	390	301	140	M75 x 1.5	60
IE3-W41R 355 MX8	106	85	355	44	1091	1172	1091	250	28	35	1770	1955	630 A	496	390	301	140	M75 x 1.5	630 A	496	390	301	140	M75 x 1.5	60
IE3-W41R 355 L8	106	85	355	44	1084	1174	1084	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	1000 A	615	474	385	200	M75 x 1.5	60
IE3-W41R 355 LX8	106	85	355	44	1084	1174	1084	327	28	35	1770	1955	1000 A	615	474	385	200	M75 x 1.5	1000 A	615	474	385	200	M75 x 1.5	60

** Terminal box inclined left/right

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

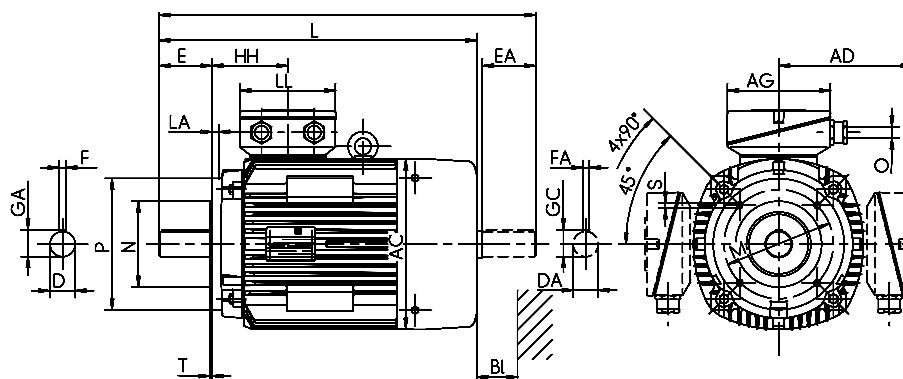
Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Size 63 to 160

Type of construction IM B14 [IM 3601]

Flange dimensions, see page 10/6



Type designation	Flange size		A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
	small	large	b	n	f	g	g1	g1	a	m	e	w1	w2	d	d1		l	l1	u	u1
IE3-KPER 63 G2, 4	FT 75	FT 100	100	28	128	109	117	117	80	-	100	40	39	11	11	M4	23	23	4	4
IE3-KPR 63 KY2, G4	FT 75	FT 100	100	21	120	124	123	123	80	-	95	40	59	11	11	M4	23	23	4	4
IE3-KPER 71 G2, KPR 71 G4	FT 85	FT 115	112	32	138	124	123	123	90	-	116	45	44	14	14	M5	30	30	5	5
IE3-KPER 80 K2	FT 100	FT 130	125	38	168	139	111	111	100	-	125	50	63	19	19	M6	40	40	6	6
IE3-KPR 80 K2	FT 100	FT 130	125	27	152	157	138	138	100	-	124	50	80	19	19	M6	40	40	6	6
IE3-KPR 80 G2, 6, GX4	FT 100	FT 130	125	27	152	157	138	138	100	-	146	50	102	19	19	M6	40	40	6	6
IE3-KPR 90 S2	FT 115	FT 130	140	40	178	177	146	146	100	-	130	56	120	24	24	M8	50	50	8	8
IE3-KPR 90 S4	FT 115	FT 130	140	40	178	177	146	146	100	-	130	56	150	24	24	M8	50	50	8	8
IE3-KPR 90 L2, 6	FT 115	FT 130	140	40	178	177	146	146	125	-	155	56	125	24	24	M8	50	50	8	8
IE3-KPR 90 LX4	FT 115	FT 130	140	25	178	177	146	146	125	-	155	56	150	24	24	M8	50	50	8	8
IE3-KPR 100 L2	FT 130	FT 165	160	42	193	196	155	155	140	-	175	63	102	28	28	M10	60	60	8	8
IE3-KPR 100 LX6	FT 130	FT 165	160	42	193	196	155	155	140	-	175	63	136	28	28	M10	60	60	8	8
IE3-KPR 100 L4	FT 130	FT 165	160	42	193	196	155	155	140	-	175	63	166	28	28	M10	60	60	8	8
IE3-KPR 100 LZ4	FT 130	FT 165	160	42	192	196	155	155	140	-	175	63	206	28	28	M10	60	60	8	8
IE3-KPER 112 MX2	FT 130	FT 165	190	52	225	196	155	155	140	-	180	70	126	28	28	M10	60	60	8	8
IE3-KPER 112 MV6	FT 130	FT 165	190	52	225	196	155	155	140	-	180	70	159	28	28	M10	60	60	8	8
IE3-W41R 112 M2	FT 130	FT 165	190	45	226	217	189	189	140	42	172	70	192	28	28	M10	60	60	8	8
IE3-W41R 112 M4	FT 130	FT 165	190	45	226	217	189	189	140	42	172	70	242	28	28	M10	60	60	8	8
IE3-W41R 112 M6	FT 130	FT 165	190	45	226	217	189	189	140	42	172	70	192	28	28	M10	60	60	8	8
IE3-W41R 132 S2	FT 130	FT 165	216	50	256	217	189	189	140	55	180	89	173	38	32	M12	80	80	10	10
IE3-W41R 132 SX2	FT 165	FT 215	216	50	256	258	210	210	140	47	180	89	176	38	32	M12	80	80	10	10
IE3-W41R 132 S4	FT 165	FT 215	216	50	256	258	210	210	140	47	180	89	186	38	32	M12	80	80	10	10
IE3-W41R 132 M4	FT 165	FT 215	216	50	256	258	210	210	178	47	218	89	236	38	38	M12	80	80	10	10
IE3-W41R 132 S6	FT 130	FT 165	216	50	256	217	189	189	140	55	180	89	223	38	32	M12	80	80	10	10
IE3-W41R 132 M6	FT 165	FT 215	216	50	256	258	210	210	178	55	218	89	138	38	32	M12	80	80	10	10
IE3-W41R 132 MX6	FT 165	FT 215	216	50	256	258	210	210	178	47	218	89	236	38	38	M12	80	80	10	10
IE3-W41R 132 S8	FT 130	FT 165	216	50	256	258	210	210	140	55	180	89	223	38	32	M12	80	80	10	10
IE3-W41R 132 M8	FT 165	FT 215	216	50	256	258	210	210	178	55	218	89	138	38	32	M12	80	80	10	10
IE3-W41R 160 M2	FT 215	C300	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
IE3-W41R 160 MX2	FT 215	C300	254	55	296	313	249	275	210	56	257	108	186	42	42	M16	110	110	12	12
IE3-W41R 160 L2	FT 215	C300	254	55	296	313	249	275	254	60	301	108	192	42	42	M16	110	110	12	12
IE3-W41R 160 M4	FT 215	C300	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
IE3-W41R 160 L4C	FT 215	C300	254	55	296	313	249	275	254	60	301	108	192	42	42	M16	110	110	12	12
IE3-W41R 160 M6	FT 215	C300	254	55	296	313	249	275	210	56	257	108	186	42	42	M16	110	110	12	12
IE3-W41R 160 L6C	FT 215	C300	254	55	296	313	249	275	254	60	301	108	192	42	42	M16	110	110	12	12
IE3-W41R 160 M8	FT 215	C300	254	55	296	313	249	275	210	60	257	108	185	42	42	M16	110	110	12	12
IE3-W41R 160 MX8	FT 215	C300	254	55	296	313	249	275	210	56	257	108	186	42	42	M16	110	110	12	12
IE3-W41R 160 L8	FT 215	C300	254	55	296	313	249	275	254	60	301	108	192	42	42	M16	110	110	12	12

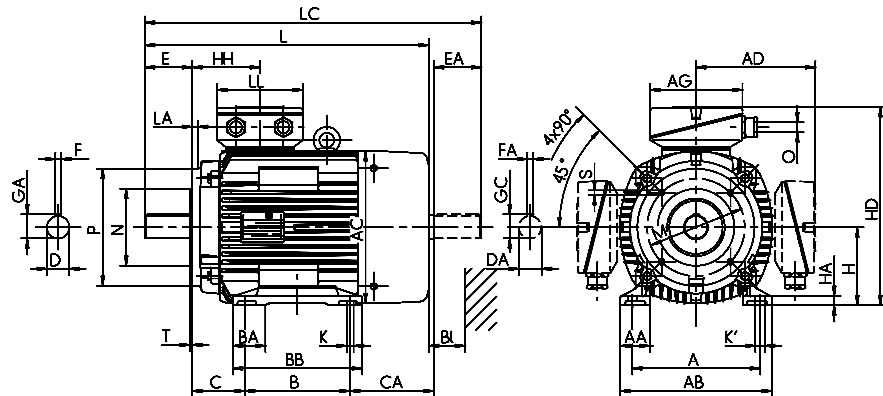
¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 63 to 160

Type of construction IM B34 [IM 2101]
Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD**)	HD	HH	K	K'	L	LC	TB Type	AG	LL	O	TB Type	AG	LL	AH	O	Loch-	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k1	Ex e IIC	x	z	-	Ex e IIC	x	z	-	-	bild	BI
IE3-KPER 63 G2, 4	13	12.5	63	10	180	***	180	67	8	8	180	205	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	14
IE3-KPR 63 KY2, G4	13	12.5	63	7.5	186	***	186	70	7	7	200	225	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	14
IE3-KPER 71 G2, KPR 71 G4	16	16	71	11	194	***	194	70	8	8	207	239	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	14
IE3-KPER 80 K2	22	21.5	80	12	210	***	210	76	10	10	250	293	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	16
IE3-KPR 80 K2	22	21.5	80	9	218	***	218	79	10	10	267	310	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	16
IE3-KPR 80 G2, 6, GX4	22	21.5	80	9	218	***	218	79	10	10	289	332	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	16
IE3-KPR 90 S2	27	27	90	10.5	236	***	236	84	10	10	323	376	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	18
IE3-KPR 90 S4	27	27	90	10.5	236	***	236	84	10	10	353	406	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	18
IE3-KPR 90 L2, 6	27	27	90	10.5	236	***	236	84	10	10	353	406	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	18
IE3-KPR 90 LX4	27	27	90	10.5	236	***	236	84	10	10	378	431	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	18
IE3-KPR 100 L2	31	31	100	13	255	***	255	86	12	12	358	425	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-KPR 100 LX6	31	31	100	13	255	***	255	86	12	12	393	459	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-KPR 100 L4	31	31	100	13	255	***	255	86	12	12	423	489	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-KPR 100 LZ4	31	31	100	13	255	***	255	86	12	12	463	529	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-KPER 112 MX2	31	31	112	18	267	***	267	86	12	12	392	459	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-KPER 112 MV6	31	31	112	18	267	***	267	86	12	12	423	489	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-W41R 112 M2	31	31	112	15	300	***	300	108	12	12	459	522	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 112 M4	31	31	112	15	300	***	300	108	12	12	509	572	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 112 M6	31	31	112	15	300	***	300	108	12	12	459	522	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 S2	41	35	132	16	320	***	320	108	12	12	479	562	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 SX2	41	41	132	15	341	***	341	114	12	12	481	565	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 S4	41	41	132	15	341	***	341	114	12	12	529	613	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 M4	41	41	132	15	341	***	341	114	12	12	579	663	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 S6	41	35	132	16	320	***	320	108	12	12	529	612	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 M6	41	35	132	16	341	***	341	114	12	12	481	565	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 MX6	41	41	132	15	341	***	341	114	12	12	579	663	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 S8	41	35	132	16	341	***	341	114	12	12	481	565	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 M8	41	35	132	16	341	***	341	114	12	12	481	565	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 160 M2	45	45	160	18	409	***	435	138	15	20	571	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 MX2	45	45	160	18	409	***	435	138	15	20	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 L2	45	45	160	18	409	***	435	138	15	20	659	774	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 M4	45	45	160	18	409	***	435	138	15	20	571	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 L4C	45	45	160	18	409	***	435	138	15	20	659	774	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 M6	45	45	160	18	409	***	435	138	15	20	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 L6C	45	45	160	18	409	***	435	138	15	20	659	774	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 M8	45	45	160	18	409	***	435	138	15	20	571	693	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 MX8	45	45	160	18	409	***	435	138	15	20	571	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 L8	45	45	160	18	409	***	435	138	15	20	659	774	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35

** Terminal box left/right
*** upon request

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

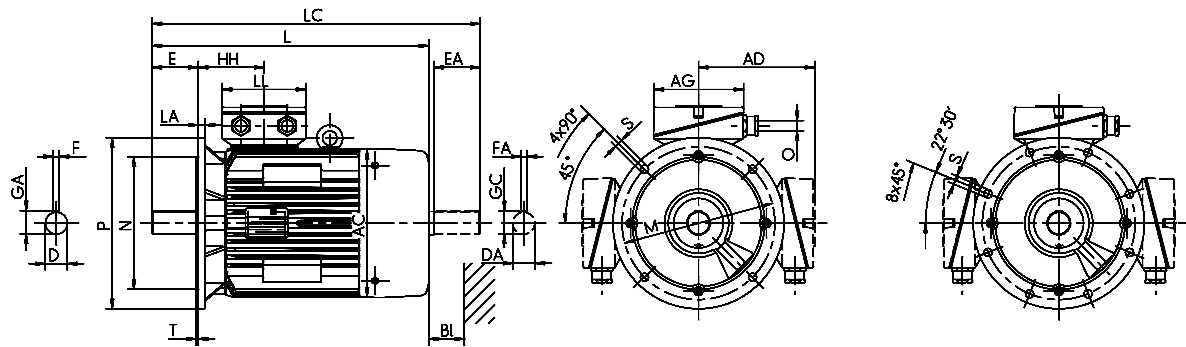
Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Size 63 to 280

Type of construction IM B5 [IM 3001], Type of construction IM V1 [IM 3011], Flange dimensions, see page 10/6

Type designation	Flange size	AC	AD	AD	D	DA	DB ¹⁾	E	EA	F	FA	GA	GC	H	HH	L
		g	g1	g1 VIK	d	d1		l	l1	u	u1	t	t1	h	A	k
IE3-KPER 63 G2, 4	FF 115	109	117	117	11	11	M4	23	23	4	4	13	12.5	63	67	180
IE3-KPR 63 KY2, G4	FF 115	124	123	123	11	11	M4	23	23	4	4	13	12.5	63	70	200
E3-KPER 71 G2, KPR 71 G4	FF 130	124	123	123	14	14	M5	30	30	5	5	16	16	71	70	207
IE3-KPER 80 K2	FF 165	139	111	111	19	19	M6	40	40	6	6	22	21.5	80	76	250
IE3-KPR 80 K2	FF 165	157	138	138	19	19	M6	40	40	6	6	22	21.5	80	79	267
IE3-KPR 80 G2, 6, GX4	FF 165	157	138	138	19	19	M6	40	40	6	6	22	21.5	80	79	289
IE3-KPR 90 S2	FF 165	177	146	146	24	24	M8	50	50	8	8	27	27	90	84	361
IE3-KPR 90 S4	FF 165	177	146	146	24	24	M8	50	50	8	8	27	27	90	84	391
IE3-KPR 90 L2, 6	FF 165	177	146	146	24	24	M8	50	50	8	8	27	27	90	84	391
IE3-KPR 90 LX4	FF 165	177	146	146	24	24	M8	50	50	8	8	27	27	90	84	416
IE3-KPR 100 L2	FF 215	196	155	155	28	28	M10	60	60	8	8	31	31	100	86	358
IE3-KPR 100 LX6	FF 215	196	155	155	28	28	M10	60	60	8	8	31	31	100	86	393
IE3-KPR 100 L4	FF 215	196	155	155	28	28	M10	60	60	8	8	31	31	100	86	423
IE3-KPR 100 LZ4	FF 215	196	155	155	28	28	M10	60	60	8	8	31	31	100	86	463
IE3-KPER 112 MX2	FF 215	196	155	155	28	28	M10	60	60	8	8	31	31	112	86	392
IE3-KPER 112 MV6	FF 215	196	155	155	28	28	M10	60	60	8	8	31	31	112	86	423
IE3-W41R 112 M2	FF 215	217	189	189	28	28	M10	60	60	8	8	31	31	112	108	459
IE3-W41R 112 M4	FF 215	217	189	189	28	28	M10	60	60	8	8	31	31	112	108	509
IE3-W41R 112 M6	FF 215	217	189	189	28	28	M10	60	60	8	8	31	31	112	108	459
IE3-W41R 132 S2	FF 265	217	189	189	38	32	M12	80	80	10	10	41	35	132	108	479
IE3-W41R 132 SX2	FF 265	258	210	210	38	32	M12	80	80	10	10	41	35	132	114	481
IE3-W41R 132 S4	FF 265	258	210	210	38	32	M12	80	80	10	10	41	35	132	114	529
IE3-W41R 132 M4	FF 265	258	210	210	38	38	M12	80	80	10	10	41	41	132	114	579
IE3-W41R 132 S6	FF 265	217	189	189	38	32	M12	80	80	10	10	41	35	132	108	529
IE3-W41R 132 M6	FF 265	258	210	210	38	32	M12	80	80	10	10	41	35	132	114	481
IE3-W41R 132 MX6	FF 265	258	210	210	38	38	M12	80	80	10	10	41	41	132	114	579
IE3-W41R 132 S8	FF 265	258	210	210	38	32	M12	80	80	10	10	41	35	132	114	481
IE3-W41R 132 M8	FF 265	258	210	210	38	32	M12	80	80	10	10	41	35	132	114	481
IE3-W41R 160 M2	FF 300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	571
IE3-W41R 160 MX2	FF 300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	609
IE3-W41R 160 L2	FF 300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	659
IE3-W41R 160 M4	FF 300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	571
IE3-W41R 160 L4C	FF 300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	659
IE3-W41R 160 M6	FF 300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	609
IE3-W41R 160 L6C	FF 300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	659
IE3-W41R 160 M8	FF 300	313	249	275	42	42	M16	110	80	12	10	45	45	160	138	571
IE3-W41R 160 MX8	FF 300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	571
IE3-W41R 160 L8	FF 300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	659
IE3-W41R 180 M2C	FF 300	351	270	294	48	48	M16	110	110	14	14	51.5	51.5	180	147	680
IE3-W41R 180 M4	FF 300	351	270	294	48	48	M16	110	110	14	14	51.5	51.5	180	147	680
IE3-W41R 180 L4	FF 300	351	270	294	48	48	M16	110	110	14	14	51.5	51.5	180	147	730
IE3-W41R 180 L6C	FF 300	351	270	294	48	48	M16	110	110	14	14	51.5	51.5	180	147	680
IE3-W41R 180 L8	FF 300	351	270	294	48	48	M16	110	110	14	14	51.5	51.5	180	147	680
IE3-W41R 200 L2	FF 350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168	767
IE3-W41R 200 LX2C	FF 350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168	767
IE3-W41R 200 L4C	FF 350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168	767
IE3-W41R 200 L6	FF 350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168	767
IE3-W41R 200 LX6C	FF 350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168	767
IE3-W41R 200 L8	FF 350	351	268	294	55	48	M20	110	110	16	14	59	51.5	200	147	730
IE3-W41R 225 M2	FF 400	440	337	406	55	55	M20	110	110	16	16	59	59	225	177	832
IE3-W41R 225 S4C	FF 400	390	315	378	60	55	M20	140	110	18	16	64	59	225	168	847
IE3-W41R 225 M4	FF 400	440	337	406	60	55	M20	140	110	18	16	64	59	225	177	912
IE3-W41R 225 M6	FF 400	440	337	406	60	55	M20	140	110	18	16	64	59	225	177	912
IE3-W41R 225 S8	FF 400	390	315	378	60	55	M20	140	110	18	16	64	59	225	168	797
IE3-W41R 225 M8	FF 400	440	337	406	60	55	M20	140	110	18	16	64	59	225	177	862
IE3-W41R 250 M2	FF 500	490	397	403	60	55	M20	140	110	18	18	64	59	250	206	924
IE3-W41R 250 M4	FF 500	490	397	403	65	55	M20	140	110	18	18	69	59	280	206	924
IE3-W41R 250 M6	FF 500	490	397	403	65	55	M20	140	110	18	16	69	59	250	206	924
IE3-W41R 250 M8	FF 500	440	397	403	65	55	M20	140	110	18	16	69	59	250	206	912
IE3-W41R 280 S2	FF 500	490	367	403	65	65	M20	140	140	18	18	69	69	280	206	924
IE3-W41R 280 M2	FF 500	490	397	403	65	65	M20	140	140	18	18	69	69	280	206	970
IE3-W41R 280 S4	FF 500	490	367	403	75	65	M20	140	140	20	18	79.5	69	280	206	970
IE3-W41R 280 M4	FF 500	550	397	403	75	65	M20	140	140	20	18	79.5	69	280	211	1105
IE3-W41R 280 S6	FF 500	550	367	403	75	65	M20	140	110	20	18	79.5	69	280	211	1050
IE3-W41R 280 M6	FF 500	550	397	403	75	65	M20	140	140	20	18	79.5	69	280	211	1105
IE3-W41R 280 S8	FF 500	550	367	403	75	65	M20	140	110	20	18	79.5	69	280	211	1050
IE3-W41R 280 M8	FF 500	550	397	403	75	65	M20	140	140	20	18	79.5	69	280	211	1105



Type designation	L	LC	TB Type Ex e IIC	AG	LL	O	TB Type Ex e IIC	AG	LL	AH	O	Loch-	BI
	k IM V1	k1	Standard	x	z	-	VIK	x	z	-	-	bild	BI
IE3-KPER 63 G2, 4	209	205	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	14
IE3-KPR 63 KY2, G4	229	225	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	14
E3-KPER 71 G2, KPR 71 G4	236	239	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	14
IE3-KPER 80 K2	279	293	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	16
IE3-KPR 80 K2	296	310	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	16
IE3-KPR 80 G2, 6, GX4	318	332	KA 05-13	92	92	M20 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	16
IE3-KPR 90 S2	352	415	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	18
IE3-KPR 90 S4	382	445	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	18
IE3-KPR 90 L2, 6	382	445	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	18
IE3-KPR 90 LX4	407	470	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	18
IE3-KPR 100 L2	387	425	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-KPR 100 LX6	422	459	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-KPR 100 L4	452	489	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-KPR 100 LZ4	492	529	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-KPER 112 MX2	421	459	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-KPER 112 MV6	452	489	KA 05-13	92	92	M25 x 1.5	KA 05-13	92	92	-	M25 x 1.5	4L	20
IE3-W41R 112 M2	499	522	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 112 M4	549	572	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 112 M6	499	522	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 S2	519	562	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 SX2	521	565	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 S4	569	613	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 M4	619	663	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 S6	569	612	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 M6	521	565	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 MX6	619	663	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 S8	521	565	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 132 M8	521	565	25 A	143	134	M32 x 1.5	25 AV	143	134	-	M32 x 1.5	4L	35
IE3-W41R 160 M2	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 MX2	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 L2	699	774	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 M4	611	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 L4C	699	774	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 M6	649	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 L6C	699	774	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 M8	611	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 MX8	611	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 160 L8	699	774	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 180 M2C	720	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 180 M4	720	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 180 L4	770	846	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 180 L6C	720	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 180 L8	720	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	-	M40 x 1.5	4L	35
IE3-W41R 200 L2	807	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	4L	40
IE3-W41R 200 LX2C	807	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	4L	40
IE3-W41R 200 L4C	807	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE3-W41R 200 L6	807	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE3-W41R 200 LX6C	807	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	4L	35
IE3-W41R 200 L8	770	846	63 A	184	172	M50 x 1.5	100/63 AV	223	214	200	M50 x 1.5	4L	35
IE3-W41R 225 M2	917	947	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-W41R 225 S4C	892	971	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L	40
IE3-W41R 225 M4	997	1027	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-W41R 225 M6	997	1027	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-W41R 225 S8	842	921	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L	40
IE3-W41R 225 M8	947	977	100 A	222	214	M50 x 1.5	200 A-SB	335	270	200	M50 x 1.5	8L	45
IE3-W41R 250 M2	1009	1072	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-W41R 250 M4	1009	1072	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE3-W41R 250 M6	1009	1072	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE3-W41R 250 M8	997	1112	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE3-W41R 280 S2	1009	1072	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-W41R 280 M2	1055	1118	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-W41R 280 S4	1055	1118	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	50
IE3-W41R 280 M4	1215	1273	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-W41R 280 S6	1160	1218	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-W41R 280 M6	1215	1273	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-W41R 280 S8	1135	1218	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	55
IE3-W41R 280 M8	1215	1273	200 A	222	214	M63 x 1.5	200 A-SB	335	270	200	M63 x 1.5	8L	55

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

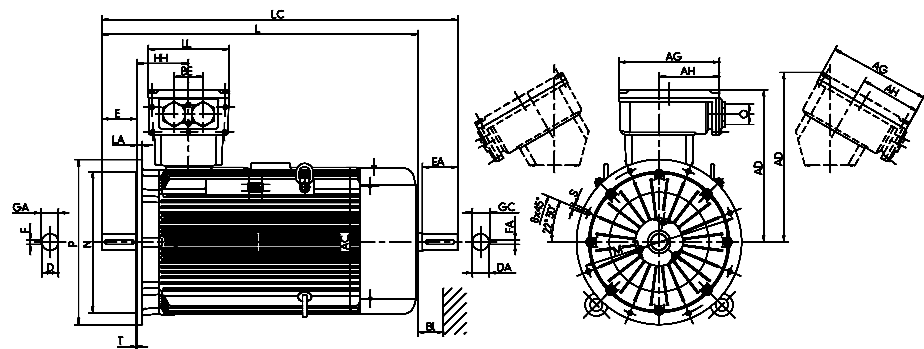
Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 315

Type of construction IM B5 [IM 3001]

Type of construction IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	AD ^{*)}	D	DA	DB ^{*)}	E	EA	F	FA	GA	GC	H	HH	L
		g	g1	g1 VIK	d	d1		l	l1	u	u1	t	t1	h	A	k
IE3-W41R 315 S2	FF 600	550	460	460	65	65	M20	140	140	18	18	69	69	315	211	1050
IE3-W41R 315 M2	FF 600	550	460	460	65	65	M20	140	140	18	18	69	69	315	211	1105
IE3-W41R 315 MX2	FF 600	610	494	681	65	65	M20	140	140	18	18	69	69	315	211	1200
IE3-W41R 315 MY2	FF 600	610	681	681	65	65	M20	140	140	18	18	69	69	315	230	1270
IE3-W41R 315 L2	FF 600	610	681	681	65	65	M20	140	140	18	18	69	69	315	230	1390
IE3-W41R 315 LX2	FF 600	610	681	681	65	65	M20	140	140	18	18	69	69	315	230	1510
IE3-W41R 315 S4	FF 600	550	460	460	80	70	M20	170	140	22	20	85	74.5	315	211	1080
IE3-W41R 315 M4	FF 600	550	460	460	80	70	M20	170	140	22	20	85	74.5	315	211	1135
IE3-W41R 315 MX4	FF 600	610	494	681	80	70	M20	170	140	22	20	85	74.5	315	230	1230
IE3-W41R 315 MY4	FF 600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE3-W41R 315 L4	FF 600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1420
IE3-W41R 315 LX4	FF 600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1540
IE3-W41R 315 S6	FF 600	550	460	460	80	70	M20	170	140	22	20	85	74.5	315	211	1135
IE3-W41R 315 M6	FF 600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE3-W41R 315 MX6	FF 600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE3-W41R 315 L6	FF 600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1420
IE3-W41R 315 S8	FF 600	550	460	460	80	70	M20	170	140	22	20	85	74.5	315	211	1135
IE3-W41R 315 M8	FF 600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE3-W41R 315 MX8	FF 600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE3-W41R 315 L8	FF 600	610	681	681	80	70	M20	170	140	22	20	85	74.5	315	230	1420

^{*)} Centre holes to DIN 332-DS ...

^{**)} Terminal box left/right

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

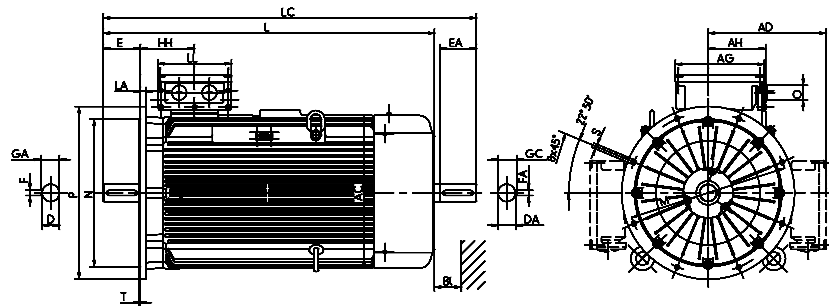
Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 315

Type of construction IM B5 [IM 3001]

Type of construction IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	L	LC	TB Type Ex e IIC	AG	LL	AH	O	TB Type Ex e IIC	AG	LL	AH	O	BI
	k IM V1	k1	Standard	x	z	-	r	VIK	x	z	-	-	BI
IE3-W41R 315 S2	1160	1218	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 M2	1215	1273	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 MX2	1310	1378	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 MY2	1380	1448	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 L2	1500	1568	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 LX2	1620	1688	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 S4	1190	1248	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 M4	1245	1303	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 MX4	1340	1408	400 A-SB	415	340	265	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 MY4	1410	1478	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 L4	1430	1598	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 LX4	1650	1718	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 S6	1245	1303	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 M6	1410	1478	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 MX6	1410	1478	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 L6	1530	1598	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 S8	1245	1303	400 A-SB	415	340	265	M63 x 1.5	400 A-SB	415	340	265	M63 x 1.5	55
IE3-W41R 315 M8	1410	1478	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 MX8	1530	1478	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55
IE3-W41R 315 L8	1530	1598	630 A	496	390	301	M63 x 1.5	630 A	496	390	301	M63 x 1.5	55

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Premium Efficiency IE3 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

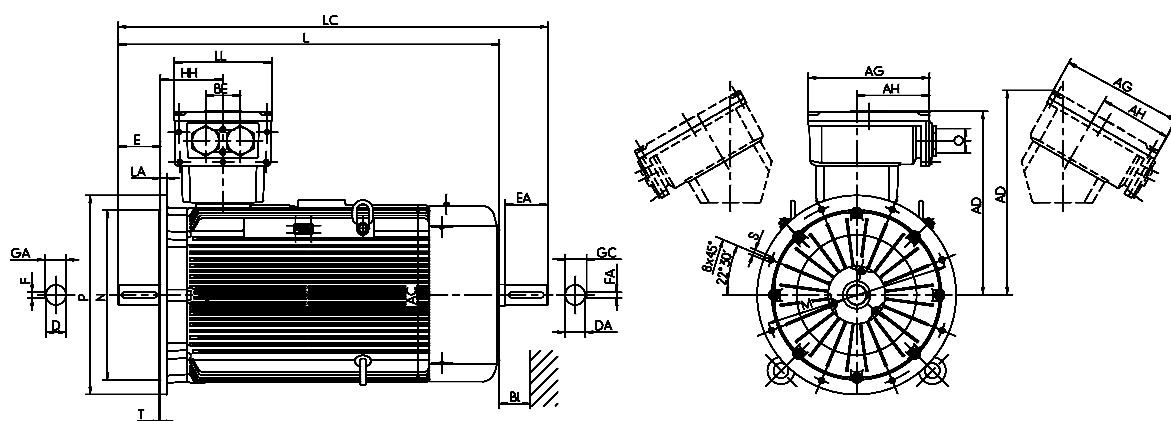
with surface cooling, type of cooling IC 411

Size 355

Type of construction IM B5 [IM 3001]

Type of construction IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	AD ^{*)}	D	DA	DB ^{*)}	E	EA	F	FA	GA	GC	H	HH	L
		g	g1	g1 VIK	d	d1		l	l1	u	u1	t	t1	h	A	k
IE3-W41R 355 M2G	FF 740	715	736	817	80	-	M20	170	-	22	-	85	-	355	250	1530
IE3-W41R 355 M4	FF 740	715	736	817	100	80	M24	210	170	28	22	106	85	355	250	1570
IE3-W41R 355 M6	FF 740	715	736	817	100	80	M24	210	170	28	22	106	85	355	250	1570
IE3-W41R 355 MX6	FF 740	715	736	817	100	80	M24	210	170	28	22	106	85	355	250	1770
IE3-W41R 355 L6	FF 740	715	729	819	100	80	M24	210	170	28	22	106	85	355	327	1770
IE3-W41R 355 LX6	FF 740	715	729	819	100	80	M24	210	170	28	22	106	85	355	327	1770
IE3-W41R 355 MY8	FF 740	715	736	817	100	80	M24	210	170	28	22	106	85	355	250	1570
IE3-W41R 355 M8	FF 740	715	736	817	100	80	M24	210	170	28	22	106	85	355	250	1570
IE3-W41R 355 MX8	FF 740	715	736	817	100	80	M24	210	170	28	22	106	85	355	250	1770
IE3-W41R 355 LY8	FF 740	715	729	819	100	80	M24	210	170	28	22	106	85	355	327	1770

^{*)} Centre holes to DIN 332-DS ...

^{**)} Terminal box inclined left/right

Type designation	L	LC	TB Type Ex e IIC	AG	LL	AH	BE	O	TB Type Ex e IIC	AG	LL	AH	O	BI
	k IM V1	k1	Standard	x	z	-		r	VIK	x	z	-	-	BI
IE3-W41R 355 M2G	1650	-	TB 630 A	496	390	301	140	M75 x 1.5	TB 630 A	496	390	301	M75 x 1.5	60
IE3-W41R 355 M4	1690	1755	TB 630 A	496	390	301	140	M75 x 1.5	TB 630 A	496	390	301	M75 x 1.5	60
IE3-W41R 355 M6	1690	1755	TB 630 A	496	390	301	140	M75 x 1.5	TB 630 A	496	390	301	M75 x 1.5	60
IE3-W41R 355 MX6	1890	1875	TB 630 A	496	390	301	140	M75 x 1.5	TB 630 A	496	390	301	M75 x 1.5	60
IE3-W41R 355 L6	1890	1875	TB 1000 A	615	474	385	200	M75 x 1.5	TB 1000 A	615	474	385	M75 x 1.5	60
IE3-W41R 355 LX6	1890	1875	TB 1000 A	615	474	385	200	M75 x 1.5	TB 1000 A	615	474	385	M75 x 1.5	60
IE3-W41R 355 MY8	1690	1755	TB 630 A	496	390	301	140	M75 x 1.5	TB 630 A	496	390	301	M75 x 1.5	60
IE3-W41R 355 M8	1690	1755	TB 630 A	496	390	301	140	M75 x 1.5	TB 630 A	496	390	301	M75 x 1.5	60
IE3-W41R 355 MX8	1890	1875	TB 630 A	496	390	301	140	M75 x 1.5	TB 630 A	496	390	301	M75 x 1.5	60
IE3-W41R 355 LY8	1890	1875	TB 1000 A	615	474	385	200	M75 x 1.5	TB 1000 A	615	474	385	M75 x 1.5	60

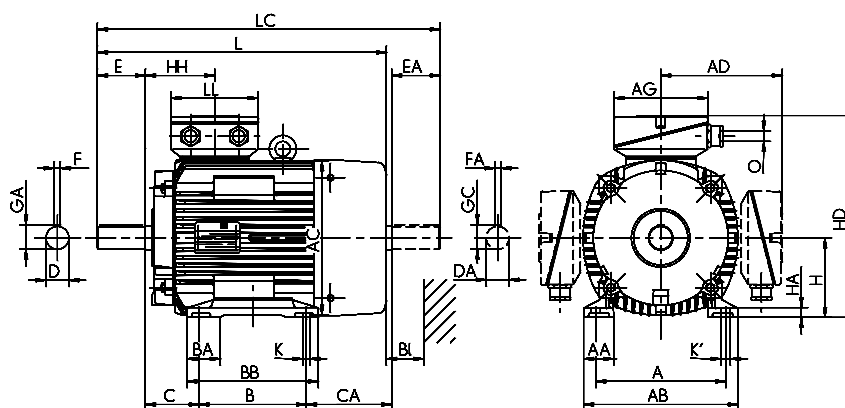
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, High Efficiency IE2 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Size 80 to 160

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	g1	VIK g1	a	m	e	w1	w2	d	d1		l	l1	u	u1
IE2-W21R 80 K2, 4, 6, 8 Ex nA II T3	A200	125	26	152	157	138		100	-	124	50	80	19	19	M6	40	40	6	6
IE2-WE(2)1R 80 G2, 4, 6, 8 Ex nA II T3	A200	125	26	152	157	138		100	-	146	50	102	19	19	M6	40	40	6	6
IE2-WE(2)1R 90 S2, 4, 6, 8 Ex nA II T3	A200	140	40	178	177	146		100	-	130	56	159	24	24	M8	50	50	8	8
IE2-WE1R 90 L2 Ex nA II T3	A200	140	40	178	177	146		125	-	155	56	134	24	24	M8	50	50	8	8
IE2-WE1R 90 L4, 6, 8 Ex nA II T3	A200	140	40	178	177	146		125	-	155	56	164	24	24	M8	50	50	8	8
IE2-WE(2)1R 100 L2, S8 Ex nA II T3	A250	160	42	193	196	155		140	-	175	63	102	28	28	M10	60	60	8	8
IE2-WE1R 100 L4 Ex nA II T3	A250	160	42	193	196	155		140	-	175	63	136	28	28	M10	60	60	8	8
IE2-W21R 100 LX6 Ex nA II T3	A250	160	42	193	196	155		140	-	175	63	136	28	28	M10	60	60	8	8
IE2-WE1R 100 LX4 Ex nA II T3	A250	160	42	193	196	155		140	-	175	63	166	28	28	M10	60	60	8	8
IE2-WE1R 112 MX2 Ex nA II T3	A250	190	52	225	196	155		140	-	180	70	129	28	28	M10	60	60	8	8
IE2-WE1R 112 MV2 Ex nA II T3	A250	190	52	225	196	155		140	-	180	70	159	28	28	M10	60	60	8	8
IE2-WE1R 112 MV6, 8 Ex nA II T3	A250	190	52	225	196	155		140	-	180	70	159	28	28	M10	60	60	8	8
IE2-WE1R 112 MZ4 Ex nA II T3	A250	190	52	225	196	155		140	-	180	70	199	28	28	M10	60	60	8	8
IE2-WE1R 112 MZ6 Ex nA II T3	A250	190	52	225	196	155		140	-	180	70	199	28	28	M10	60	60	8	8
IE2-WE1R 112 M2 Ex nA IIC T3	A250	190	45	226	217	220	220	140	42	172	70	192	28	28	M10	60	60	8	8
IE2-WE1R 112 M4 Ex nA IIC T3	A250	190	45	226	217	220	220	140	42	172	70	192	28	28	M10	60	60	8	8
IE2-WE1R 112 M6 Ex nA IIC T3	A250	190	45	226	217	220	220	140	42	172	70	192	28	28	M10	60	60	8	8
IE2-WE1R 132 S2T Ex nA II T3	A300	216	52	257	196	155		140	-	180	89	159	38	28	M12	80	60	10	8
IE2-WE1R 132 S2 Ex nA IIC T3	A300	216	50	256	217	220	220	140	53	180	89	173	38	32	M12	80	80	10	10
IE2-WE1R 132 SX2 Ex nA IIC T3	A300	216	50	256	258	246	246	140	53	180	89	176	38	32	M12	80	80	10	10
IE2-WE1R 132 S4 Ex nA IIC T3	A300	216	50	256	258	246	246	140	53	180	89	186	38	32	M12	80	80	10	10
IE2-WE1R 132 S6 Ex nA IIC T3	A300	216	50	256	217	220	220	140	53	180	89	173	38	32	M12	80	80	10	10
IE2-WE1R 132 M4 Ex nA IIC T3	A300	216	50	256	258	246	246	178	53	218	89	186	38	38	M12	80	80	10	10
IE2-WE1R 132 M6 Ex nA IIC T3	A300	216	50	256	258	246	246	178	53	218	89	138	38	32	M12	80	80	10	10
IE2-WE1R 132 MX6 Ex nA IIC T3	A300	216	50	256	258	246	246	178	53	218	89	186	38	38	M12	80	80	10	10
IE2-WE2R 132 S4 Ex nA IIC T3	A300	216	50	256	217	220	220	140	53	180	89	223	38	32	M12	80	80	10	10
IE2-WE2R 132 M6 Ex nA IIC T3	A300	216	50	256	217	220	220	178	53	218	89	135	38	32	M12	80	80	10	10
IE2-WE2R 132 M8 Ex nA IIC T3	A300	216	50	256	217	220	220	178	53	218	89	135	38	32	M12	80	80	10	10
IE2-WE1R 160 M2 Ex nA IIC T3	A350	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
IE2-WE1R 160 M4 Ex nA IIC T3	A350	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
IE2-WE1R 160 M8 Ex nA IIC T3	A350	254	55	296	258	256	256	210	60	257	108	135	42	38	M16	110	80	12	10
IE2-WE1R 160 M6 Ex nA IIC T3	A350	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
IE2-WE1R 160 MX2 Ex nA IIC T3	A350	254	55	296	313	249	275	210	56	257	108	186	42	42	M16	110	110	12	12
IE2-WE1R 160 L2 Ex nA IIC T3	A350	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12
IE2-WE1R 160 L4 Ex nA IIC T3	A350	254	55	296	313	249	275	254	60	301	108	200	42	42	M16	110	110	12	12
IE2-WE1R 160 L6 Ex nA IIC T3	A350	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12
IE2-WE2R 160 M4 Ex nA IIC T3	A350	254	55	296	258	256	256	210	60	257	108	185	42	38	M16	110	80	12	10
IE2-WE2R 160 L4 Ex nA IIC T3	A350	254	55	296	313	249	275	254	60	301	108	192	42	42	M16	110	110	12	12
IE2-WE2R 160 M6 Ex nA IIC T3	A350	254	55	296	258	256	256	210	60	257	108	185	42	38	M16	110	80	12	10
IE2-WE2R 160 L6 Ex nA IIC T3	A350	254	55	296	313	249	275	254	60	301	108	192	42	42	M16	110	110	12	12
IE2-WE2R 160 MX8 Ex nA IIC T3	A350	254	55	296	258	256	256	210	60	257	108	185	42	38	M16	110	80	12	10

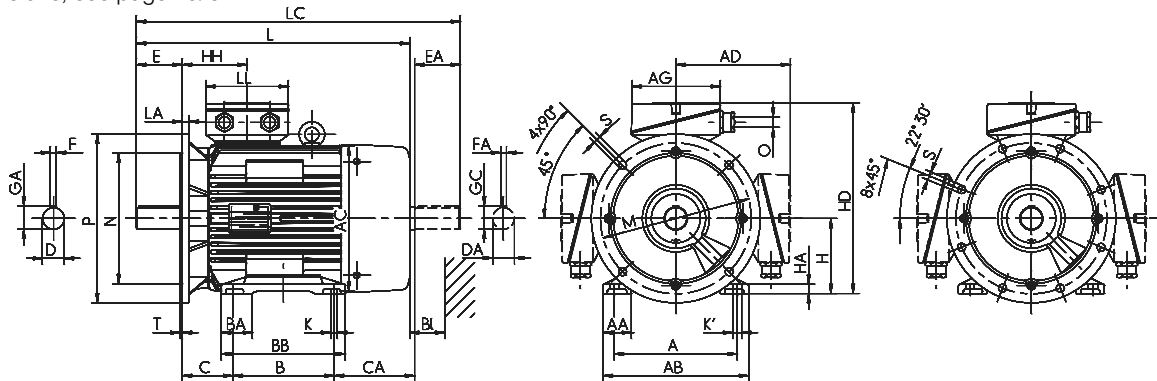
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, High Efficiency IE2 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Baufsize 80 to 160

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	L	L	LC	LC	TB Type	AG	LL	TB Type	AG	LL	AH	O	LB	BI
	t	t1	h	c	p	p	VIK p	A	s	s'	k	k (IM V1)	k (IM B5)	k1 (IM B5)	Ex e IIC Standard	x	z	Ex e IIC VIK	x	z	-	-	-	BI	
IE2-W21R 80 K2, 4, 6, 8 Ex nA II T3	21.5	21.5	80	9	218	***		79	10	10	267	296	267	310	310	VIK16_M20			VIK16_M20					16	4L
IE2-WE(2)1R 80 G2, 4, 6, 8 Ex nA II T3	21.5	21.5	80	9	218	***		79	10	10	289	318	289	332	332	VIK16_M20			VIK16_M20					16	4L
IE2-WE(2)1R 90 S2, 4, 6, 8 Ex nA II T3	27	27	90	10.5	236	***		84	10	10	323	390	361	376	415	VIK16_M25			VIK16_M25					18	4L
IE2-WE1R 90 L2 Ex nA II T3	27	27	90	10.5	236	***		84	10	10	323	390	361	376	415	VIK16_M25			VIK16_M25					18	4L
IE2-WE1R 90 L4, 6, 8 Ex nA II T3	27	27	90	10.5	236	***		84	10	10	353	420	391	406	445	VIK16_M25			VIK16_M25					18	4L
IE2-WE(2)1R 100 L2, S8 Ex nA II T3	31	31	100	13	255	***		86	12	12	359	388	359	425	425	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 100 L4 Ex nA II T3	31	31	100	13	255	***		86	12	12	393	422	393	459	459	VIK16_M25			VIK16_M25					20	4L
IE2-W21R 100 LX6 Ex nA II T3	31	31	100	13	255	***		86	12	12	393	422	393	459	459	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 100 LX4 Ex nA II T3	31	31	100	13	255	***		86	12	12	423	452	423	489	489	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 MX2 Ex nA II T3	31	31	112	18	267	***		86	12	12	393	422	393	459	459	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 MV2 Ex nA II T3	31	31	112	18	267	***		86	12	12	423	452	423	489	489	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 MV6, 8 Ex nA II T3	31	31	112	18	267	***		86	12	12	423	452	423	489	489	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 MZ4 Ex nA II T3	31	31	112	18	267	***		86	12	12	463	492	463	529	529	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 MZ6 Ex nA II T3	31	31	112	18	267	***		86	12	12	463	492	463	529	529	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 M2 Ex nA IIC T3	41	31	132	18	287	***		105	12	12	462	491	462	528	528	VIK16_M32			VIK16_M32					20	4L
IE2-WE1R 112 M4 Ex nA IIC T3	31	31	112	15	333	237	333	108	12	12	459	499	459	522	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 112 M6 Ex nA IIC T3	31	31	112	15	333	237	333	108	12	12	459	499	459	522	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 S2T Ex nA II T3	31	31	112	15	333	237	333	108	12	12	459	499	459	522	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 S2 Ex nA IIC T3	41	35	132	16	353	257	353	108	12	12	479	519	479	562	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 SX2 Ex nA IIC T3	41	41	132	15	374	279	374	114	12	12	481	521	481	565	565	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 S4 Ex nA IIC T3	41	41	132	15	374	279	374	114	12	12	529	569	529	613	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 S6 Ex nA IIC T3	41	35	132	16	353	257	353	108	12	12	479	519	479	562	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 M4 Ex nA IIC T3	41	41	132	15	374	279	374	114	12	12	529	569	529	613	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 M6 Ex nA IIC T3	41	41	132	16	374	279	374	114	12	12	481	521	481	565	565	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 MX6 Ex nA IIC T3	41	41	132	15	374	279	374	114	12	12	529	569	529	613	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE2R 132 S4 Ex nA IIC T3	41	35	132	16	353	257	353	108	12	12	529	569	529	612	612	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE2R 132 M6 Ex nA IIC T3	41	35	132	16	353	257	353	108	12	12	529	569	529	612	612	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 160 M2 Ex nA IIC T3	45	45	160	18	409	336	435	138	15	20	571	611	571	686	686	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 M4 Ex nA IIC T3	45	45	160	18	409	336	435	138	15	20	571	611	571	686	686	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 M8 Ex nA IIC T3	45	41	160	18	417	307	417	114	15	15	559	599	559	643	643	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 160 M6 Ex nA IIC T3	45	45	160	18	409	336	435	138	15	20	571	611	571	686	686	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 MX2 Ex nA IIC T3	45	45	160	18	409	336	435	138	15	20	609	649	609	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 L2 Ex nA IIC T3	45	45	160	18	409	336	435	138	15	20	609	649	609	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 L4 Ex nA IIC T3	45	45	160	18	409	336	435	138	15	20	667	-	667	783	783	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 L6 Ex nA IIC T3	45	45	160	18	409	336	435	138	15	20	609	649	609	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 160 M4 Ex nA IIC T3	45	41	160	18	417	307	417	114	15	15	609	649	609	693	693	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE2R 160 L4 Ex nA IIC T3	45	45	160	18	409	336	435	138	15	20	659	699	659	774	774	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 160 M6 Ex nA IIC T3	45	41	160	18	417	307	417	114	15	15	609	649	609	693	693	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE2R 160 L6 Ex nA IIC T3	45	45	160	18	409	336	435	138	15	20	659	699	659	774	774	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 160 MX8 Ex nA IIC T3	45	41	160	18	417	307	417	114	15	15	609	649	609	693	693	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L

**) Terminal box inclined left/right

**) upon request

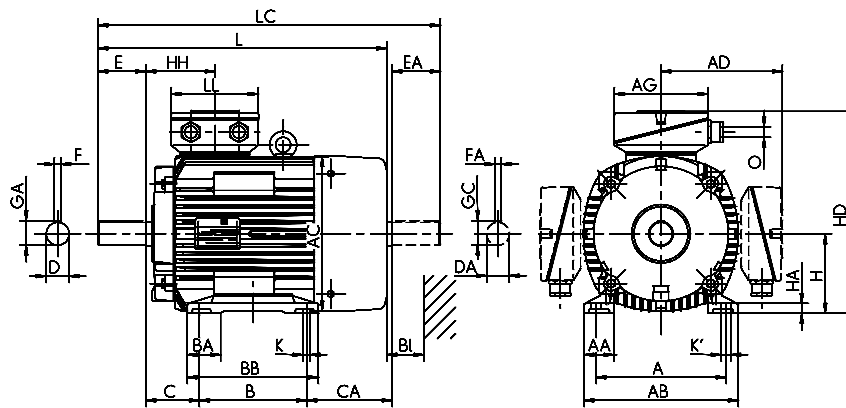
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, High Efficiency IE2 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Size 180 to 280

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	g ₁	VIK g ₁	a	m	e	w ₁	w ₂	d	d ₁		l	l ₁	u	u ₁
IE2-WE1R 180 M2 Ex nA IIC T3	A350	279	62	328	351	268	294	241	65	288	121	169	48	48	M16	110	110	14	14
IE2-WE1R 180 M4 Ex nA IIC T3	A350	279	62	328	351	268	294	241	65	288	121	214	48	48	M16	110	110	14	14
IE2-WE1R 180 L4 Ex nA IIC T3	A350	279	62	328	351	268	294	279	65	326	121	176	48	48	M16	110	110	14	14
IE2-WE1R 180 L6 Ex nA IIC T3	A350	279	62	328	351	268	294	279	65	326	121	176	48	48	M16	110	110	14	14
IE2-WE2R 180 M4 Ex nA IIC T3	A350	279	62	328	351	268	294	241	65	288	121	194	48	48	M16	110	110	14	14
IE2-WE2R 180 L6 Ex nA IIC T3	A350	279	62	328	313	249	275	279	65	326	121	154	48	42	M16	110	110	14	12
IE2-WE2R 180 L8 Ex nA IIC T3	A350	279	62	328	313	256	256	279	65	326	121	154	48	42	M16	110	110	14	12
IE2-WE1R 200 L2 Ex nA IIC T3	A400	318	70	372	351	268	294	305	70	360	133	138	55	48	M20	110	110	16	14
IE2-WE1R 200 LX2 Ex nA IIC T3	A400	318	70	372	351	268	294	305	70	360	133	188	55	48	M20	110	110	16	14
IE2-WE1R 200 L4 Ex nA IIC T3	A400	318	70	372	390	311	375	305	70	360	133	193	55	55	M20	110	110	16	16
IE2-WE1R 200 LX6 Ex nA IIC T3	A400	318	70	372	390	311	375	305	70	360	133	193	55	55	M20	110	110	16	16
IE2-WE1R 200 L6 Ex nA IIC T3	A400	318	70	372	351	268	294	305	70	360	133	138	55	48	M20	110	110	16	14
IE2-WE2R 200 LX2 Ex nA IIC T3	A400	318	70	372	351	268	294	305	70	360	133	188	55	48	M20	110	110	16	14
IE2-WE2R 200 LX6 Ex nA IIC T3	A400	318	70	372	351	268	294	305	70	360	133	188	55	48	M20	110	110	16	14
IE2-WE1R 225 M2 Ex nA IIC T3	A450	356	75	413	390	311	375	311	75	368	149	211	55	55	M20	110	110	16	16
IE2-WE1R 225 S4 Ex nA IIC T3	A450	356	75	413	390	311	375	286	75	343	149	236	60	55	M20	140	110	18	16
IE2-WE1R 225 M4 Ex nA IIC T3	A450	356	75	413	440	324	406	311	75	368	149	267	60	55	M20	140	110	18	16
IE2-WE1R 225 S8 Ex nA IIC T3	A450	356	75	413	390	311	375	286	75	343	149	196	60	55	M20	140	110	18	16
IE2-WE1R 225 M6 Ex nA IIC T3	A450	356	75	413	440	324	406	311	75	368	149	267	60	55	M20	140	110	18	16
IE2-WE1R 225 M8 Ex nA IIC T3	A450	356	75	413	440	324	406	311	75	368	149	267	60	55	M20	140	110	18	16
IE2-WE2R 225 M4 Ex nA IIC T3	A450	356	75	413	390	311	375	311	75	368	149	261	60	55	M20	140	110	18	16
IE2-WE2R 225 M6 Ex nA IIC T3	A450	356	75	413	390	311	375	311	75	368	149	221	60	55	M20	140	110	18	16
IE2-WE2R 225 S8 Ex nA IIC T3	A450	356	75	413	390	311	375	286	75	343	149	236	60	55	M20	140	110	18	16
IE2-WE2R 225 M8 Ex nA IIC T3	A450	356	75	413	390	311	375	311	75	368	149	221	60	55	M20	140	110	18	16
IE2-WE1R 250 M2 Ex nA IIC T3	A550	406	84	471	440	362	406	349	84	412	168	210	60	55	M20	140	110	18	16
IE2-WE1R 250 M4 Ex nA IIC T3	A550	406	84	469	490	386	403	349	84	412	168	275	65	55	M20	140	110	18	16
IE2-WE1R 250 M6 Ex nA IIC T3	A550	406	84	469	490	386	403	349	84	412	168	275	65	55	M20	140	110	18	16
IE2-WE2R 250 M4 Ex nA IIC T3	A550	406	84	471	440	362	406	349	84	412	168	260	60	55	M20	140	110	18	16
IE2-WE2R 250 M6 Ex nA IIC T3	A550	406	84	471	440	362	406	349	84	412	168	260	60	55	M20	140	110	18	16
IE2-WE2R 250 M8 Ex nA IIC T3	A550	406	84	471	440	362	406	349	84	412	168	260	60	55	M20	140	110	18	16
IE2-WE1R 280 S2 Ex nA IIC T3	A550	457	94	522	490	386	403	368	96	431	190	234	65	65	M20	140	140	18	18
IE2-WE1R 280 M2 Ex nA IIC T3	A550	457	94	522	490	386	403	419	96	482	190	229	65	65	M20	140	140	18	18
IE2-WE1R 280 S4 Ex nA IIC T3	A550	457	94	522	490	386	403	368	96	431	190	234	75	65	M20	140	140	20	18
IE2-WE1R 280 M4 Ex nA IIC T3	A550	457	94	522	490	386	403	419	96	482	190	229	75	65	M20	140	140	20	18
IE2-WE1R 280 S6 Ex nA IIC T3	A550	457	94	522	490	386	403	368	96	431	190	229	75	65	M20	140	140	20	18
IE2-WE1R 280 M6 Ex nA IIC T3	A550	457	88	522	550	416	433	419	94	482	190	384	75	65	M20	140	140	20	18
IE2-WE1R 280 S8 Ex nA IIC T3	A550	457	94	522	490	386	403	368	96	431	190	229	75	65	M20	140	140	20	18
IE2-WE1R 280 M8 Ex nA IIC T3	A550	457	88	522	550	416	433	419	94	482	190	384	75	65	M20	140	140	20	18

¹⁾ Centre holes to DIN 332-DS ...

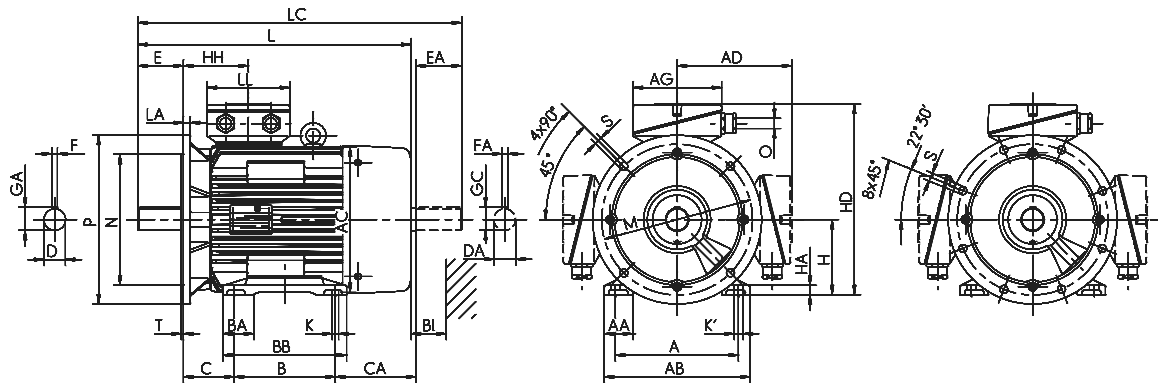
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, High Efficiency IE2 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011))

with surface cooling, type of cooling IC 411
Size 180 to 280

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	L	L	LC	LC	TB Type	AG	LL	TB Type	AG	LL	AH	O	LB	BI
	t	t1	h	c	p	p	VIK p	A	s	s'	k	k	k	k1	k1	Ex e IIC Standard	x	z	Ex e IIC VIK	x	z	-	-	-	BI
IE2-WE1R 180 M2 Ex nA IIC T3	51.5	51.5	180	20	447	369	473	147	15	20	635	675	635	751	751	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 180 M4 Ex nA IIC T3	51.5	51.5	180	20	447	369	473	147	15	20	680	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 180 L4 Ex nA IIC T3	51.5	51.5	180	20	447	369	473	147	15	20	680	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 180 L6 Ex nA IIC T3	51.5	51.5	180	20	447	369	473	147	15	20	680	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 180 M4 Ex nA IIC T3	51.5	51.5	180	20	447	369	473	147	15	20	635	675	635	751	751	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 180 L6 Ex nA IIC T3	51.5	45	180	20	429	356	455	138	15	20	659	699	659	774	774	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 180 L8 Ex nA IIC T3	51.5	45	180	20	429	356	455	138	15	20	659	699	659	774	774	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 200 L2 Ex nA IIC T3	59	51.5	200	22	494	389	520	147	19	25	680	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	35	4L
IE2-WE1R 200 LX2 Ex nA IIC T3	59	51.5	200	22	494	389	520	147	19	25	730	-	730	846	846	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	35	4L
IE2-WE1R 200 L4 Ex nA IIC T3	59	59	200	22	511	417	578	168	19	25	727	767	727	851	851	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	35	4L
IE2-WE1R 200 LX6 Ex nA IIC T3	59	59	200	22	511	417	578	168	19	25	727	767	727	851	851	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	35	4L
IE2-WE1R 200 L6 Ex nA IIC T3	59	51.5	200	22	494	389	520	147	19	25	680	720	680	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 200 LX2 Ex nA IIC T3	59	51.5	200	22	494	389	520	147	19	25	730	770	730	846	846	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 200 LX6 Ex nA IIC T3	59	51.5	200	22	494	389	520	147	19	25	730	770	730	846	846	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	35	4L
IE2-WE1R 225 M2 Ex nA IIC T3	59	59	225	25	538	442	605	168	19	25	767	807	767	891	891	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE1R 225 S4 Ex nA IIC T3	64	59	225	25	538	442	605	168	19	25	797	837	797	921	921	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE1R 225 M4 Ex nA IIC T3	64	59	225	25	551	***	631	177	19	25	862	947	862	977	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	45	8L
IE2-WE1R 225 S8 Ex nA IIC T3	64	59	225	25	538	442	605	168	19	25	757	797	757	881	881	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE1R 225 M6 Ex nA IIC T3	64	59	225	25	549	***	631	177	19	25	862	947	862	977	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	45	8L
IE2-WE1R 225 M8 Ex nA IIC T3	64	59	225	25	549	***	631	177	19	25	862	947	862	977	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	45	8L
IE2-WE2R 225 M4 Ex nA IIC T3	64	59	225	25	538	442	605	168	19	25	847	887	847	971	971	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE2R 225 M6 Ex nA IIC T3	64	59	225	25	538	442	605	168	19	25	797	837	797	921	921	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE2R 225 S8 Ex nA IIC T3	64	59	225	25	538	442	605	168	19	25	797	837	797	921	921	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE2R 225 M8 Ex nA IIC T3	64	59	225	25	538	442	605	168	19	25	797	837	797	921	921	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE1R 250 M2 Ex nA IIC T3	64	59	250	28	612	***	656	177	24	30	862	947	862	977	977	100 A	222	214	200 A-SB	335	270	200	M63 x 1.5	45	8L
IE2-WE1R 250 M4 Ex nA IIC T3	69	59	250	28	636	***	653	206	24	30	924	1009	924	1042	1042	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 250 M6 Ex nA IIC T3	69	59	250	28	636	***	653	206	24	30	924	1009	924	1042	1042	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE2R 250 M4 Ex nA IIC T3	64	59	250	28	612	***	656	177	24	30	912	997	912	1112	1112	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	45	8L
IE2-WE2R 250 M6 Ex nA IIC T3	64	59	250	28	612	***	656	177	24	30	912	997	912	1112	1112	100 A	222	214	200 A-SB	335	270	200	M63 x 1.5	45	8L
IE2-WE2R 250 M8 Ex nA IIC T3	64	59	250	28	612	***	656	177	24	30	912	997	912	1112	1112	100 A	222	214	200 A-SB	335	270	200	M63 x 1.5	45	8L
IE2-WE1R 280 S2 Ex nA IIC T3	69	69	280	32	666	***	683	206	24	30	924	1009	924	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 M2 Ex nA IIC T3	69	69	280	32	666	***	683	206	24	30	970	1055	970	1118	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 S4 Ex nA IIC T3	79.5	69	280	32	666	***	683	206	24	30	924	1009	924	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 M4 Ex nA IIC T3	79.5	69	280	32	666	***	683	206	24	30	970	1055	970	1118	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 S6 Ex nA IIC T3	79.5	69	280	32	666	***	683	206	24	30	970	1055	970	1118	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 M6 Ex nA IIC T3	79.5	69	280	40	696	***	713	211	24	30	1105	1215	1105	1243	1243	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	55	8L
IE2-WE1R 280 S8 Ex nA IIC T3	79.5	69	280	32	666	***	683	206	24	30	970	1055	970	1118	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 M8 Ex nA IIC T3	79.5	69	280	40	696	***	713	211	24	30	1105	1215	1105	1243	1243	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	55	8L

**) Terminal box inclined left/right

**) upon request

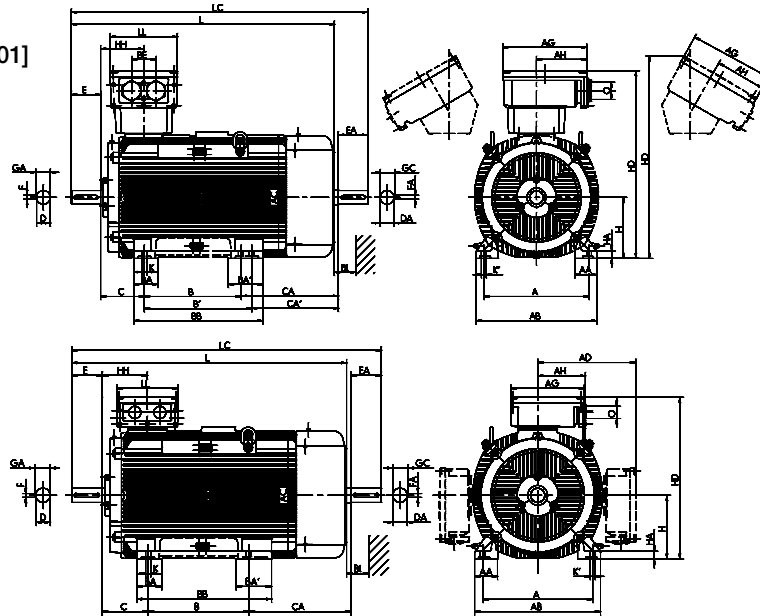
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, High Efficiency IE2 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Size 315 to 355

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD	B	BA	BA'	BB	C	CA	D	DA	DB ^{*)}	E	EA	F	FA
		b	n	f	g	g1	VIK g1	a	m	m1	e	w1	w2	d	d1		l	l1	u	u1
IE2-WE1R 315 S2 Ex nA IIC T3	A660	508	126	590	550	416	460.5	406	120	-	503	216	316	65	65	M20	140	140	18	18
IE2-WE1R 315 M2 Ex nA IIC T3	A660	508	126	590	550	416	460.5	457	120	150	554	216	320	65	65	M20	140	140	18	18
IE2-WE1R 315 MX2 Ex nA IIC T3	A660	508	126	590	550	416	460.5	457	120	150	554	216	400	65	65	M20	140	140	18	18
IE2-WE1R 315 MY2 Ex nA IIC T3	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	65	65	M20	140	140	18	18
IE2-WE1R 315 L2 Ex nA IIC T3	A660	508	110	590	610	494	680.5	508	120	-	624	216	564	65	65	M20	140	140	18	18
IE2-WE1R 315 LX2 Ex nA IIC T3	A660	508	110	590	610	494	680.5	508	120	-	624	216	684	65	65	M20	140	140	18	18
IE2-WE1R 315 S4 Ex nA IIC T3	A660	508	126	590	550	416	460.5	406	120	-	503	216	316	80	70	M20	170	140	22	20
IE2-WE1R 315 M4 Ex nA IIC T3	A660	508	126	590	550	416	460.5	457	120	150	554	216	320	80	70	M20	170	140	22	20
IE2-WE1R 315 MX4 Ex nA IIC T3	A660	508	126	590	550	416	460.5	457	120	150	554	216	400	80	70	M20	170	140	22	20
IE2-WE1R 315 MY4 Ex nA IIC T3	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE2-WE1R 315 L4 Ex nA IIC T3	A660	508	110	590	610	494	680.5	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE2-WE1R 315 LX4 Ex nA IIC T3	A660	508	110	590	610	494	680.5	508	120	-	624	216	684	80	70	M20	170	140	22	20
IE2-WE1R 315 S6 Ex nA IIC T3	A660	508	126	590	550	416	460.5	406	120	150	554	216	320	80	70	M20	170	140	22	20
IE2-WE1R 315 M6 Ex nA IIC T3	A660	508	126	590	550	416	460.5	457	120	150	554	216	320	80	70	M20	170	140	22	20
IE2-WE1R 315 MX6 Ex nA IIC T3	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE2-WE1R 315 MY6 Ex nA IIC T3	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE2-WE1R 315 L6 Ex nA IIC T3	A660	508	110	590	610	494	680.5	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE2-WE1R 315 LX6 Ex nA IIC T3	A660	508	110	590	610	494	680.5	508	120	-	624	216	684	80	70	M20	170	140	22	20
IE2-WE1R 315 S8 Ex nA IIC T3	A660	508	126	590	550	416	460.5	406	120	150	554	216	320	80	70	M20	170	140	22	20
IE2-WE1R 315 M8 Ex nA IIC T3	A660	508	126	590	550	416	460.5	457	120	150	554	216	320	80	70	M20	170	140	22	20
IE2-WE1R 315 MX8 Ex nA IIC T3	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE2-WE1R 315 MY8 Ex nA IIC T3	A660	508	110	590	610	494	680.5	457	120	-	573	216	495	80	70	M20	170	140	22	20
IE2-WE1R 315 L8 Ex nA IIC T3	A660	508	110	590	610	494	680.5	508	120	-	624	216	564	80	70	M20	170	140	22	20
IE2-WE1R 315 LX8 Ex nA IIC T3	A660	508	110	590	610	494	680.5	508	120	-	624	216	684	80	70	M20	170	140	22	20
IE2-WE2R 355 MY2G Ex nA IIC T3	A800	610	130	700	715	736	736	560	140	200	750	254	-	80	80	M20	170	-	22	-
IE2-WE2R 355 M2G Ex nA IIC T3	A800	610	130	700	715	736	736	560	140	200	750	254	-	80	80	M20	170	-	22	-
IE2-WE2R 355 MY4 Ex nA IIC T3	A800	610	130	700	715	736	736	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE2-WE2R 355 M4 Ex nA IIC T3	A800	610	130	700	715	736	736	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE2-WE2R 355 MY6 Ex nA IIC T3	A800	610	130	700	715	736	736	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE2-WE2R 355 M6 Ex nA IIC T3	A800	610	130	700	715	736	736	560	140	200	750	254	561	100	80	M24	210	170	28	22
IE2-WE2R 355 MX6 Ex nA IIC T3	A800	610	130	700	715	736	736	560	140	200	750	254	681	100	80	M24	210	170	28	22
IE2-WE2R 355 MX2G Ex nA IIC T3	A800	610	130	700	715	729	729	560	140	200	750	254	-	80	80	M20	170	-	22	-
IE2-WE2R 355 L2G Ex nA IIC T3	A800	610	130	700	715	729	729	630	140	200	750	254	-	80	80	M20	170	-	22	-
IE2-WE2R 355 MY4 Ex nA IIC T3	A800	610	130	700	715	729	729	560	140	200	750	254	681	100	80	M24	210	170	28	22
IE2-WE2R 355 L4 Ex nA IIC T3	A800	610	130	700	715	729	729	630	140	200	750	254	611	100	80	M24	210	170	28	22
IE2-WE2R 355 L8 Ex nA IIC T3	A800	610	130	700	715	729	729	630	140	200	750	254	611	100	80	M24	210	170	28	22

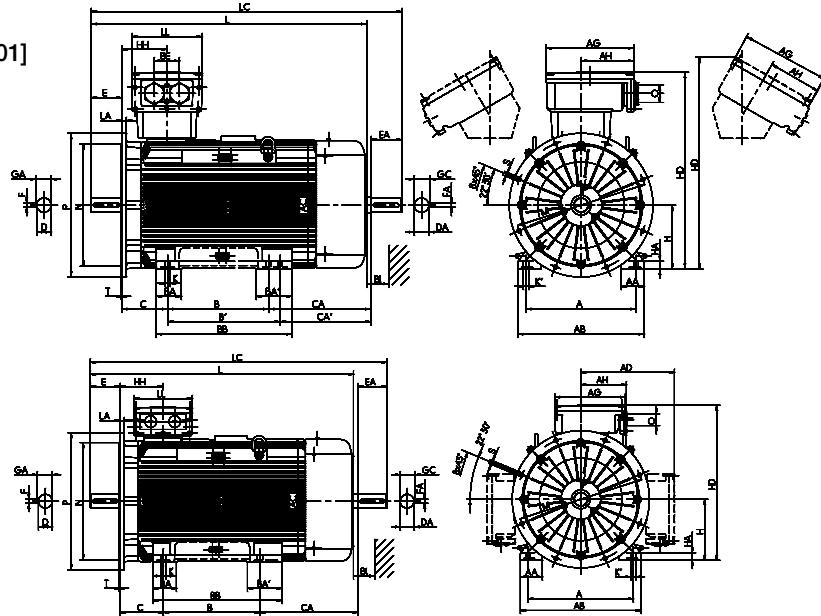
^{*)} Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, High Efficiency IE2 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 315 to 355

Type of construction IM B35 [IM 2001]



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	L	L	LC	LC	TB Type	AG	LL	AH	TB Type	AG	LL	AH	O	LB	BI
	t	t1	h	c	p	p	VIK p	A	s	s'	k	k	k	k1	k1	Ex e IIC Standard	x	z	-	Ex e IIC VIK	x	z	-	-	-	BI
IE2-WE1R 315 S2 Ex nA IIC T3	69	69	315	44	731	610	775.5	211	28	35	1050	1160	1050	1218	1218	200 A	282	242	-	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 M2 Ex nA IIC T3	69	69	315	44	731	610	775.5	211	28	35	1105	1215	1105	1273	1273	200 A	282	242	-	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MX2 Ex nA IIC T3	69	69	315	44	731	610	775.5	211	28	35	1185	1295	1185	1353	1353	200 A	282	242	-	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MY2 Ex nA IIC T3	69	69	315	44	809	628	995.5	230	28	35	1270	1380	1270	1448	1448	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 L2 Ex nA IIC T3	69	69	315	44	809	628	995.5	230	28	35	1390	1500	1390	1568	1568	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 LX2 Ex nA IIC T3	69	69	315	44	809	628	995.5	230	28	35	1510	1620	1510	1688	1688	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 S4 Ex nA IIC T3	85	74.5	315	44	731	610	775.5	211	28	35	1080	1190	1080	1248	1248	200 A	282	242	-	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 M4 Ex nA IIC T3	85	74.5	315	44	731	610	775.5	211	28	35	1135	1245	1135	1303	1303	200 A	282	242	-	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MX4 Ex nA IIC T3	85	74.5	315	44	731	610	775.5	211	28	35	1210	1325	1210	1383	1383	200 A	282	242	-	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MY4 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1300	1410	1300	1478	1478	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 L4 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1420	1530	1420	1598	1598	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 LX4 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1540	1650	1540	1718	1718	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 S6 Ex nA IIC T3	85	74.5	315	44	731	610	775.5	211	28	35	1135	1245	1135	1303	1303	200 A	282	242	-	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 M6 Ex nA IIC T3	85	74.5	315	44	731	610	775.5	211	28	35	1135	1245	1135	1303	1303	200 A	282	242	-	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MX6 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1300	1410	1300	1478	1478	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 MY6 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1300	1410	1300	1478	1478	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 L6 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1420	1530	1420	1598	1598	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 LX6 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1420	1530	1420	1598	1598	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 S8 Ex nA IIC T3	85	74.5	315	44	731	610	775.5	211	28	35	1135	1245	1135	1303	1303	200 A	282	242	-	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 M8 Ex nA IIC T3	85	74.5	315	44	731	610	775.5	211	28	35	1135	1245	1135	1303	1303	200 A	282	242	-	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MX8 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1300	1410	1300	1478	1478	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 MY8 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1300	1410	1300	1478	1478	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 L8 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1420	1530	1420	1598	1598	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 LX8 Ex nA IIC T3	85	74.5	315	44	809	628	995.5	230	28	35	1420	1530	1420	1598	1598	400 A-SB	415	340	265	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE2R 355 MY2G Ex nA IIC T3	85	-	355	44	1091	1172	736	250	28	35	1530	1650	1530	-	-	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 M2G Ex nA IIC T3	85	-	355	44	1091	1172	736	250	28	35	1530	1650	1530	-	-	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 MY4 Ex nA IIC T3	106	85	355	44	1091	1172	736	250	28	35	1570	1690	1570	1755	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 M4 Ex nA IIC T3	106	85	355	44	1091	1172	736	250	28	35	1570	1690	1570	1755	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 MY6G Ex nA IIC T3	106	85	355	44	1091	1172	736	250	28	35	1570	1690	1570	1755	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 M6 Ex nA IIC T3	106	85	355	44	1091	1172	736	250	28	35	1570	1690	1570	1755	1755	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 MX6 Ex nA IIC T3	106	85	355	44	1091	1172	736	250	28	35	1690	1810	1690	1875	1875	630 A	496	390	301	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 MX2G Ex nA IIC T3	85	-	355	44	1084	1174	729	327	28	35	1650	1770	1650	-	-	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	60	8L
IE2-WE2R 355 L2G Ex nA IIC T3	85	-	355	44	1084	1174	729	327	28	35	1650	1770	1650	-	-	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	60	8L
IE2-WE2R 355 MX4 Ex nA IIC T3	106	85	355	44	1084	1174	729	327	28	35	1690	1810	1690	1875	1875	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	60	8L
IE2-WE2R 355 L4 Ex nA IIC T3	106	85	355	44	1084	1174	729	327	28	35	1690	1810	1690	1875	1875	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	60	8L
IE2-WE2R 355 L8 Ex nA IIC T3	106	85	355	44	1084	1174	729	327	28	35	1690	1810	1690	1875	1875	1000 A	615	474	385	1000 A	615	474	385	M75 x 1.5	60	8L

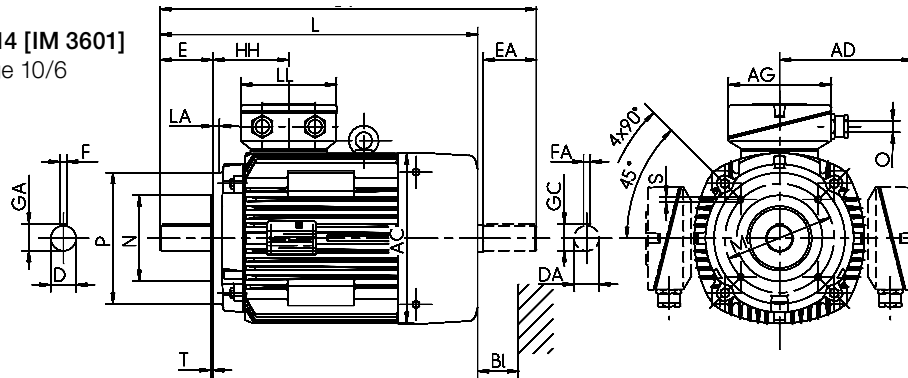
↗ Terminal box inclined left/right

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, High Efficiency IE2 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 80 to 180

Type of construction IM B14 [IM 3601]
Flange dimensions, see page 10/6



Type designation			A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
			b	n	f	g	g1	g1 (VIK)	a	m	e	w1	w2	d	d1		l	l1	u	u1
IE2-W21R 80 K2, 4, 6, 8 Ex nA II T3	C120	C160	125	26	152	157	138		100	-	124	50	80	19	19	M6	40	40	6	6
IE2-WE(2)1R 80 G2, 4, 6, 8 Ex nA II T3	C120	C160	125	26	152	157	138		100	-	146	50	102	19	19	M6	40	40	6	6
IE2-WE(2)1R 90 S2, 4, 6, 8 Ex nA II T3	C140	C160	140	40	178	177	146		100	-	130	56	159	24	24	M8	50	50	8	8
IE2-WE1R 90 L2 Ex nA II T3	C140	C160	140	40	178	177	146		125	-	155	56	134	24	24	M8	50	50	8	8
IE2-WE1R 90 L4, 6, 8 Ex nA II T3	C140	C160	140	40	178	177	146		125	-	155	56	164	24	24	M8	50	50	8	8
IE2-WE(2)1R 100 L2, S8 Ex nA II T3	C160	C200	160	42	193	196	155		140	-	175	63	102	28	28	M10	60	60	8	8
IE2-WE1R 100 L4 Ex nA II T3	C160	C200	160	42	193	196	155		140	-	175	63	136	28	28	M10	60	60	8	8
IE2-W21R 100 LX6 Ex nA II T3	C160	C200	160	42	193	196	155		140	-	175	63	136	28	28	M10	60	60	8	8
IE2-WE1R 100 LX4 Ex nA II T3	C160	C200	160	42	193	196	155		140	-	175	63	166	28	28	M10	60	60	8	8
IE2-WE1R 112 MX2 Ex nA II T3	C160	C200	190	52	225	196	155		140	-	180	70	129	28	28	M10	60	60	8	8
IE2-WE1R 112 MV2 Ex nA II T3	C160	C200	190	52	225	196	155		140	-	180	70	159	28	28	M10	60	60	8	8
IE2-WE1R 112 MV6, 8 Ex nA II T3	C160	C200	190	52	225	196	155		140	-	180	70	159	28	28	M10	60	60	8	8
IE2-WE1R 112 MZ4 Ex nA II T3	C160	C200	190	52	225	196	155		140	-	180	70	199	28	28	M10	60	60	8	8
IE2-WE1R 112 MZ6 Ex nA II T3	C160	C200	190	52	225	196	155		140	-	180	70	199	28	28	M10	60	60	8	8
IE2-WE1R 112 M2 Ex nA IIC T3	C160	C200	190	45	226	217	220	220	140	42	172	70	192	28	28	M10	60	60	8	8
IE2-WE1R 112 M4 Ex nA IIC T3	C160	C200	190	45	226	217	220	220	140	42	172	70	192	28	28	M10	60	60	8	8
IE2-WE1R 112 M6 Ex nA IIC T3	C160	C200	190	45	226	217	220	220	140	42	172	70	192	28	28	M10	60	60	8	8
IE2-WE1R 132 S2T Ex nA II T3	C200	C250	216	52	257	196	155		140	-	180	89	159	38	28	M12	80	60	10	8
IE2-WE1R 132 S2 Ex nA IIC T3	C160	C200	216	50	256	217	220	220	140	53	180	89	173	38	32	M12	80	80	10	10
IE2-WE1R 132 SX2 Ex nA IIC T3	C200	C250	216	50	256	258	246	246	140	53	180	89	176	38	32	M12	80	80	10	10
IE2-WE1R 132 S4 Ex nA IIC T3	C200	C250	216	50	256	258	246	246	140	53	180	89	186	38	32	M12	80	80	10	10
IE2-WE1R 132 S6 Ex nA IIC T3	C160	C200	216	50	256	217	220	220	140	53	180	89	173	38	32	M12	80	80	10	10
IE2-WE1R 132 M4 Ex nA IIC T3	C200	C250	216	50	256	258	246	246	178	53	218	89	186	38	38	M12	80	80	10	10
IE2-WE1R 132 M6 Ex nA IIC T3	C200	C250	216	50	256	258	246	246	178	53	218	89	138	38	32	M12	80	80	10	10
IE2-WE1R 132 MX6 Ex nA IIC T3	C200	C250	216	50	256	258	246	246	178	53	218	89	186	38	38	M12	80	80	10	10
IE2-WE2R 132 S4 Ex nA IIC T3	C160	C200	216	50	256	217	220	220	140	53	180	89	223	38	32	M12	80	80	10	10
IE2-WE2R 132 M6 Ex nA IIC T3	C160	C200	216	50	256	217	220	220	178	53	218	89	135	38	32	M12	80	80	10	10
IE2-WE2R 132 M8 Ex nA IIC T3	C160	C200	216	50	256	217	220	220	178	53	218	89	135	38	32	M12	80	80	10	10
IE2-WE1R 160 M2 Ex nA IIC T3	C250	C300	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
IE2-WE1R 160 M4 Ex nA IIC T3	C250	C300	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
IE2-WE1R 160 M8 Ex nA IIC T3	C200	C250	254	55	296	258	256	256	210	60	257	108	135	42	38	M16	110	80	12	10
IE2-WE1R 160 M6 Ex nA IIC T3	C250	C300	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
IE2-WE1R 160 MX2 Ex nA IIC T3	C250	C300	254	55	296	313	249	275	210	56	257	108	186	42	42	M16	110	110	12	12
IE2-WE1R 160 L2 Ex nA IIC T3	C250	C300	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12
IE2-WE1R 160 L4 Ex nA IIC T3	C250	C300	254	55	296	313	249	275	254	60	301	108	200	42	42	M16	110	110	12	12
IE2-WE1R 160 L6 Ex nA IIC T3	C250	C300	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12
IE2-WE2R 160 M4 Ex nA IIC T3	C200	C250	254	55	296	258	256	256	210	60	257	108	185	42	38	M16	110	80	12	10
IE2-WE2R 160 L4 Ex nA IIC T3	C250	C300	254	55	296	313	249	275	254	60	301	108	192	42	42	M16	110	110	12	12
IE2-WE2R 160 M6 Ex nA IIC T3	C200	C250	254	55	296	258	256	256	210	60	257	108	185	42	38	M16	110	80	12	10
IE2-WE2R 160 L6 Ex nA IIC T3	C250	C300	254	55	296	313	249	275	254	60	301	108	192	42	42	M16	110	110	12	12
IE2-WE2R 160 MX8 Ex nA IIC T3	C200	C250	254	55	296	258	256	256	210	60	257	108	185	42	38	M16	110	80	12	10
IE2-WE2R 180 L6 Ex nA IIC T3	C300		279	62	328	313	249	275	279	65	326	121	154	48	42	M16	110	110	14	12
IE2-WE2R 180 L8 Ex nA IIC T3	C300		279	62	328	313	256	256	279	65	326	121	154	48	42	M16	110	110	14	12

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, High Efficiency IE2 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

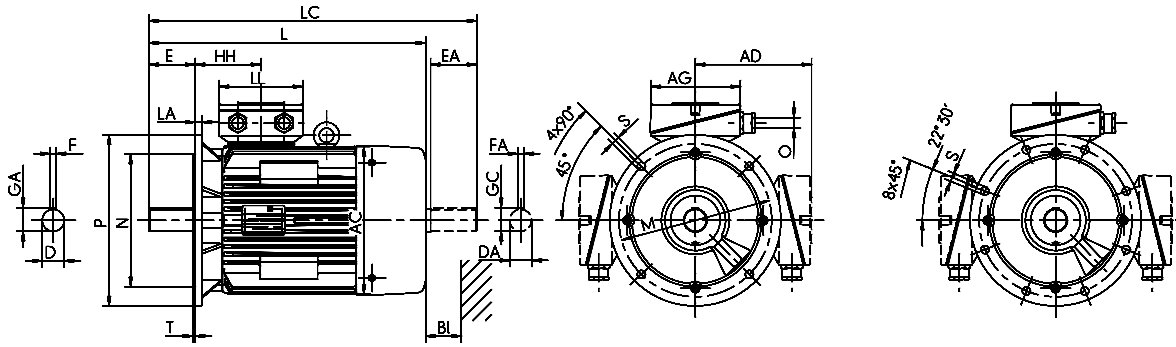
Size 80 to 200

Type of construction IM B5 [IM 3001], Type of construction IM V1 [IM 3011]

Flange dimensions, see page 10/6

Type designation	Flange size	AC g	AD g1	AD g1 (VIK)	D d	DA d1	DB ¹⁾	E l	EA l1	F u	FA u1	GA t	GC t1	H h	HH A	L k	L k (IM V1)	L k (IM B5)
IE2-W21R 80 K2, 4, 6, 8 Ex nA II T3	A200	157	138		19	19	M6	40	40	6	6	21.5	21.5	80	79	267	296	267
IE2-WE(2)1R 80 G2, 4, 6, 8 Ex nA II T3	A200	157	138		19	19	M6	40	40	6	6	21.5	21.5	80	79	289	318	289
IE2-WE(2)1R 90 S2, 4, 6, 8 Ex nA II T3	A200	177	146		24	24	M8	50	50	8	8	27	27	90	84	323	390	361
IE2-WE1R 90 L2 Ex nA II T3	A200	177	146		24	24	M8	50	50	8	8	27	27	90	84	323	390	361
IE2-WE1R 90 L4, 6, 8 Ex nA II T3	A200	177	146		24	24	M8	50	50	8	8	27	27	90	84	353	420	391
IE2-WE(2)1R 100 L2, S8 Ex nA II T3	A250	196	155		28	28	M10	60	60	8	8	31	31	100	86	359	388	359
IE2-WE1R 100 L4 Ex nA II T3	A250	196	155		28	28	M10	60	60	8	8	31	31	100	86	393	422	393
IE2-W21R 100 LX6 Ex nA II T3	A250	196	155		28	28	M10	60	60	8	8	31	31	100	86	393	422	393
IE2-WE1R 100 LX4 Ex nA II T3	A250	196	155		28	28	M10	60	60	8	8	31	31	100	86	423	452	423
IE2-WE1R 112 MX2 Ex nA II T3	A250	196	155		28	28	M10	60	60	8	8	31	31	112	86	393	422	393
IE2-WE1R 112 MV2 Ex nA II T3	A250	196	155		28	28	M10	60	60	8	8	31	31	112	86	423	452	423
IE2-WE1R 112 MV6, 8 Ex nA II T3	A250	196	155		28	28	M10	60	60	8	8	31	31	112	86	423	452	423
IE2-WE1R 112 MZ4 Ex nA II T3	A250	196	155		28	28	M10	60	60	8	8	31	31	112	86	463	492	463
IE2-WE1R 112 MZ6 Ex nA II T3	A250	196	155		28	28	M10	60	60	8	8	31	31	112	86	463	492	463
IE2-WE1R 112 M2 Ex nA IIC T3	A250	217	220	220	28	28	M10	60	60	8	8	31	31	112	108	459	499	459
IE2-WE1R 112 M4 Ex nA IIC T3	A250	217	220	220	28	28	M10	60	60	8	8	31	31	112	108	459	499	459
IE2-WE1R 112 M6 Ex nA IIC T3	A250	217	220	220	28	28	M10	60	60	8	8	31	31	112	108	459	499	459
IE2-WE1R 132 S2T Ex nA II T3	A300	196	155		38	28	M12	80	60	10	8	41	31	132	105	462	491	462
IE2-WE1R 132 S2T Ex nA IIC T3	A300	217	220	220	38	32	M12	80	80	10	10	41	35	132	108	479	519	479
IE2-WE1R 132 SX2 Ex nA IIC T3	A300	258	246	246	38	32	M12	80	80	10	10	41	41	132	114	481	521	481
IE2-WE1R 132 S4 Ex nA IIC T3	A300	258	246	246	38	32	M12	80	80	10	10	41	41	132	114	529	569	529
IE2-WE1R 132 S6 Ex nA IIC T3	A300	217	220	220	38	32	M12	80	80	10	10	41	35	132	108	479	519	479
IE2-WE1R 132 M4 Ex nA IIC T3	A300	258	246	246	38	38	M12	80	80	10	10	41	41	132	114	529	569	529
IE2-WE1R 132 M6 Ex nA IIC T3	A300	258	246	246	38	32	M12	80	80	10	10	41	41	132	114	481	521	481
IE2-WE1R 132 MX6 Ex nA IIC T3	A300	258	246	246	38	38	M12	80	80	10	10	41	41	132	114	529	569	529
IE2-WE2R 132 S4 Ex nA IIC T3	A300	217	220	220	38	32	M12	80	80	10	10	41	35	132	108	529	569	529
IE2-WE2R 132 M6 Ex nA IIC T3	A300	217	220	220	38	32	M12	80	80	10	10	41	35	132	108	529	569	529
IE2-WE2R 132 M8 Ex nA IIC T3	A300	217	220	220	38	32	M12	80	80	10	10	41	35	132	108	529	569	529
IE2-WE1R 160 M2 Ex nA IIC T3	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	571	611	571
IE2-WE1R 160 M4 Ex nA IIC T3	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	571	611	571
IE2-WE1R 160 M8 Ex nA IIC T3	A350	258	256	256	42	38	M16	110	80	12	10	45	41	160	114	559	599	559
IE2-WE1R 160 M6 Ex nA IIC T3	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	571	611	571
IE2-WE1R 160 MX2 Ex nA IIC T3	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	609	649	609
IE2-WE1R 160 L2 Ex nA IIC T3	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	609	649	609
IE2-WE1R 160 L4 Ex nA IIC T3	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	667	-	667
IE2-WE1R 160 L6 Ex nA IIC T3	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	609	649	609
IE2-WE2R 160 M4 Ex nA IIC T3	A350	258	256	256	42	38	M16	110	80	12	10	45	41	160	114	609	649	609
IE2-WE2R 160 L4 Ex nA IIC T3	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	659	699	659
IE2-WE2R 160 M6 Ex nA IIC T3	A350	258	256	256	42	38	M16	110	80	12	10	45	41	160	114	609	649	609
IE2-WE2R 160 L6 Ex nA IIC T3	A350	313	249	275	42	42	M16	110	110	12	12	45	45	160	138	659	699	659
IE2-WE2R 160 MX8 Ex nA IIC T3	A350	258	256	256	42	38	M16	110	80	12	10	45	41	160	114	609	649	609
IE2-WE1R 180 M2 Ex nA IIC T3	A350	351	268	294	48	48	M16	110	110	14	14	51.5	51.5	180	147	635	675	635
IE2-WE1R 180 M4 Ex nA IIC T3	A350	351	268	294	48	48	M16	110	110	14	14	51.5	51.5	180	147	680	720	680
IE2-WE1R 180 L4 Ex nA IIC T3	A350	351	268	294	48	48	M16	110	110	14	14	51.5	51.5	180	147	680	720	680
IE2-WE1R 180 L6 Ex nA IIC T3	A350	351	268	294	48	48	M16	110	110	14	14	51.5	51.5	180	147	680	720	680
IE2-WE2R 180 M4 Ex nA IIC T3	A350	351	268	294	48	48	M16	110	110	14	14	51.5	51.5	180	147	635	675	635
IE2-WE2R 180 L6 Ex nA IIC T3	A350	313	249	275	48	42	M16	110	110	14	12	51.5	45	180	138	659	699	659
IE2-WE2R 180 L8 Ex nA IIC T3	A350	313	256	256	48	42	M16	110	110	14	12	51.5	45	180	138	659	699	659
IE2-WE1R 200 L2 Ex nA IIC T3	A400	351	268	294	55	48	M20	110	110	16	14	59	51.5	200	147	680	720	680
IE2-WE1R 200 LX2 Ex nA IIC T3	A400	351	268	294	55	48	M20	110	110	16	14	59	51.5	200	147	730	-	730
IE2-WE1R 200 L4 Ex nA IIC T3	A400	390	311	375	55	55	M20	110	110	16	16	59	59	200	168	727	767	727
IE2-WE1R 200 LX6 Ex nA IIC T3	A400	390	311	375	55	55	M20	110	110	16	16	59	59	200	168	727	767	727
IE2-WE1R 200 L6 Ex nA IIC T3	A400	351	268	294	55	48	M20	110	110	16	14	59	51.5	200	147	680	720	680
IE2-WE2R 200 LX2 Ex nA IIC T3	A400	351	268	294	55	48	M20	110	110	16	14	59	51.5	200	147	730	770	730
IE2-WE2R 200 LX6 Ex nA IIC T3	A400	351	268	294	55	48	M20	110	110	16	14	59	51.5	200	147	730	770	730

¹⁾ Centre holes to DIN 332-DS ...



Type designation	LC	LC	TB Type	AG	LL	TB Type	AG	LL	AH	O	LB	BI
	k1	k1	Ex e IIC	x	z	Ex e IIC	x	z	-	-		BI
		(IM B5)	Standard			VIK						
IE2-W21R 80 K2, 4, 6, 8 Ex nA II T3	310	310	VIK16_M20			VIK16_M20					16	4L
IE2-WE(2)1R 80 G2, 4, 6, 8 Ex nA II T3	332	332	VIK16_M20			VIK16_M20					16	4L
IE2-WE(2)1R 90 S2, 4, 6, 8 Ex nA II T3	376	415	VIK16_M25			VIK16_M25					18	4L
IE2-WE1R 90 L2 Ex nA II T3	376	415	VIK16_M25			VIK16_M25					18	4L
IE2-WE1R 90 L4, 6, 8 Ex nA II T3	406	445	VIK16_M25			VIK16_M25					18	4L
IE2-WE(2)1R 100 L2, S8 Ex nA II T3	425	425	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 100 L4 Ex nA II T3	459	459	VIK16_M25			VIK16_M25					20	4L
IE2-W21R 100 LX6 Ex nA II T3	459	459	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 100 LX4 Ex nA II T3	489	489	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 MX2 Ex nA II T3	459	459	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 MV2 Ex nA II T3	489	489	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 MV6, 8 Ex nA II T3	489	489	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 MZ4 Ex nA II T3	529	529	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 MZ6 Ex nA II T3	529	529	VIK16_M25			VIK16_M25					20	4L
IE2-WE1R 112 M2 Ex nA IIC T3	528	528	VIK16_M32			VIK16_M32					20	4L
IE2-WE1R 112 M4 Ex nA IIC T3	522	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 112 M6 Ex nA IIC T3	522	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 S2T Ex nA II T3	522	522	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 S2 Ex nA IIC T3	562	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 SX2 Ex nA IIC T3	565	565	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 S4 Ex nA IIC T3	613	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 S6 Ex nA IIC T3	562	562	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 M4 Ex nA IIC T3	613	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 M6 Ex nA IIC T3	565	565	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 132 MX6 Ex nA IIC T3	613	613	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE2R 132 S4 Ex nA IIC T3	612	612	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE2R 132 M6 Ex nA IIC T3	612	612	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE2R 132 M8 Ex nA IIC T3	612	612	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 160 M2 Ex nA IIC T3	686	686	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 M4 Ex nA IIC T3	686	686	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 M8 Ex nA IIC T3	643	643	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 160 M6 Ex nA IIC T3	686	686	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 MX2 Ex nA IIC T3	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 L2 Ex nA IIC T3	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 L4 Ex nA IIC T3	783	783	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 160 L6 Ex nA IIC T3	724	724	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 160 M4 Ex nA IIC T3	693	693	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE2R 160 L4 Ex nA IIC T3	774	774	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 160 M6 Ex nA IIC T3	693	693	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE2R 160 L6 Ex nA IIC T3	774	774	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 160 MX8 Ex nA IIC T3	693	693	25 A	143	134	25 AV	143	134	-	M32 x 1.5	35	4L
IE2-WE1R 180 M2 Ex nA IIC T3	751	751	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 180 M4 Ex nA IIC T3	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 180 L4 Ex nA IIC T3	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 180 L6 Ex nA IIC T3	796	796	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 180 M4 Ex nA IIC T3	751	751	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 180 L6 Ex nA IIC T3	774	774	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE2R 180 L8 Ex nA IIC T3	774	774	63 A	184	172	100/63 AV	223	214	-	M40 x 1.5	35	4L
IE2-WE1R 200 L2 Ex nA IIC T3	796	796	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	35	4L
IE2-WE1R 200 LX2 Ex nA IIC T3	846	846	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	35	4L
IE2-WE1R 200 L4 Ex nA IIC T3	851	851	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	35	4L
IE2-WE1R 200 LX6 Ex nA IIC T3	851	851	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	35	4L
IE2-WE1R 200 L6 Ex nA IIC T3	796	796	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	35	4L
IE2-WE2R 200 LX2 Ex nA IIC T3	846	846	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	35	4L
IE2-WE2R 200 LX6 Ex nA IIC T3	846	846	63 A	184	172	100/63 AV	223	214	-	M50 x 1.5	35	4L

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

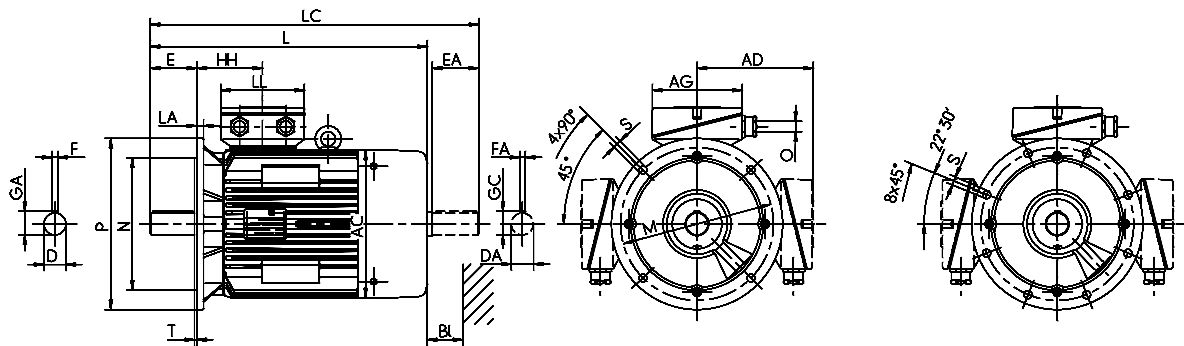
Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, High Efficiency IE2 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 225 to 280

Type of construction IM B5 [IM 3001]

Type of construction IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	AD	D	DA	DB ¹⁾	E	EA	F	FA	GA	GC	H	HH	L	L	L
		g	g1	g1 (VIK)	d	d1		l	l1	u	u1	t	t1	h	A	k	k (IM V1)	k (IM B5)
IE2-WE1R 225 M2 Ex nA IIC T3	A450	390	311	375	55	55	M20	110	110	16	16	59	59	225	168	767	807	767
IE2-WE1R 225 S4 Ex nA IIC T3	A450	390	311	375	60	55	M20	140	110	18	16	64	59	225	168	797	837	797
IE2-WE1R 225 M4 Ex nA IIC T3	A450	440	324	406	60	55	M20	140	110	18	16	64	59	225	177	862	947	862
IE2-WE1R 225 S8 Ex nA IIC T3	A450	390	311	375	60	55	M20	140	110	18	16	64	59	225	168	757	797	757
IE2-WE1R 225 M6 Ex nA IIC T3	A450	440	324	406	60	55	M20	140	110	18	16	64	59	225	177	862	947	862
IE2-WE1R 225 M8 Ex nA IIC T3	A450	440	324	406	60	55	M20	140	110	18	16	64	59	225	177	862	947	862
IE2-WE2R 225 M4 Ex nA IIC T3	A450	390	311	375	60	55	M20	140	110	18	16	64	59	225	168	847	887	847
IE2-WE2R 225 M6 Ex nA IIC T3	A450	390	311	375	60	55	M20	140	110	18	16	64	59	225	168	797	837	797
IE2-WE2R 225 S8 Ex nA IIC T3	A450	390	311	375	60	55	M20	140	110	18	16	64	59	225	168	797	837	797
IE2-WE2R 225 M8 Ex nA IIC T3	A450	390	311	375	60	55	M20	140	110	18	16	64	59	225	168	797	837	797
IE2-WE1R 250 M2 Ex nA IIC T3	A550	440	362	406	60	55	M20	140	110	18	16	64	59	250	177	862	947	862
IE2-WE1R 250 M4 Ex nA IIC T3	A550	490	386	403	65	55	M20	140	110	18	16	69	59	250	206	924	1009	924
IE2-WE1R 250 M6 Ex nA IIC T3	A550	490	386	403	65	55	M20	140	110	18	16	69	59	250	206	924	1009	924
IE2-WE2R 250 M4 Ex nA IIC T3	A550	440	362	406	60	55	M20	140	110	18	16	64	59	250	177	912	997	912
IE2-WE2R 250 M6 Ex nA IIC T3	A550	440	362	406	60	55	M20	140	110	18	16	64	59	250	177	912	997	912
IE2-WE2R 250 M8 Ex nA IIC T3	A550	440	362	406	60	55	M20	140	110	18	16	64	59	250	177	912	997	912
IE2-WE1R 280 S2 Ex nA IIC T3	A550	490	386	403	65	65	M20	140	140	18	18	69	69	280	206	924	1009	924
IE2-WE1R 280 M2 Ex nA IIC T3	A550	490	386	403	65	65	M20	140	140	18	18	69	69	280	206	970	1055	970
IE2-WE1R 280 S4 Ex nA IIC T3	A550	490	386	403	75	65	M20	140	140	20	18	79.5	69	280	206	924	1009	924
IE2-WE1R 280 M4 Ex nA IIC T3	A550	490	386	403	75	65	M20	140	140	20	18	79.5	69	280	206	970	1055	970
IE2-WE1R 280 S6 Ex nA IIC T3	A550	490	386	403	75	65	M20	140	140	20	18	79.5	69	280	206	970	1055	970
IE2-WE1R 280 M6 Ex nA IIC T3	A550	550	416	433	75	65	M20	140	140	20	18	79.5	69	280	211	1105	1215	1105
IE2-WE1R 280 S8 Ex nA IIC T3	A550	490	386	403	75	65	M20	140	140	20	18	79.5	69	280	206	970	1055	970
IE2-WE1R 280 M8 Ex nA IIC T3	A550	550	416	433	75	65	M20	140	140	20	18	79.5	69	280	211	1105	1215	1105

¹⁾ Centre holes to DIN 332-DS ...

Type designation	LC	LC k1 (IM B5)	TB Type Ex e IIC Standard	AG x	LL z	TB Type Ex e IIC VIK	AG x	LL z	AH -	O -	LB	BI BI
IE2-WE1R 225 M2 Ex nA IIC T3	891	891	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE1R 225 S4 Ex nA IIC T3	921	921	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE1R 225 M4 Ex nA IIC T3	977	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	45	8L
IE2-WE1R 225 S8 Ex nA IIC T3	881	881	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE1R 225 M6 Ex nA IIC T3	977	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	45	8L
IE2-WE1R 225 M8 Ex nA IIC T3	977	977	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	45	8L
IE2-WE2R 225 M4 Ex nA IIC T3	971	971	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE2R 225 M6 Ex nA IIC T3	921	921	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE2R 225 S8 Ex nA IIC T3	921	921	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE2R 225 M8 Ex nA IIC T3	921	921	100 A	222	214	200 A-SB	335	270	200	M50 x 1.5	40	8L
IE2-WE1R 250 M2 Ex nA IIC T3	977	977	100 A	222	214	200 A-SB	335	270	200	M63 x 1.5	45	8L
IE2-WE1R 250 M4 Ex nA IIC T3	1042	1042	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 250 M6 Ex nA IIC T3	1042	1042	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE2R 250 M4 Ex nA IIC T3	1112	1112	100 A	222	214	200 A-SB	335	270	200	M63 x 1.5	45	8L
IE2-WE2R 250 M6 Ex nA IIC T3	1112	1112	100 A	222	214	200 A-SB	335	270	200	M63 x 1.5	45	8L
IE2-WE2R 250 M8 Ex nA IIC T3	1112	1112	100 A	222	214	200 A-SB	335	270	200	M63 x 1.5	45	8L
IE2-WE1R 280 S2 Ex nA IIC T3	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 M2 Ex nA IIC T3	1118	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 S4 Ex nA IIC T3	1072	1072	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 M4 Ex nA IIC T3	1118	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 S6 Ex nA IIC T3	1118	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 M6 Ex nA IIC T3	1243	1243	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	55	8L
IE2-WE1R 280 S8 Ex nA IIC T3	1118	1118	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	50	8L
IE2-WE1R 280 M8 Ex nA IIC T3	1243	1243	200 A	290	252	200 A-SB	335	270	200	M63 x 1.5	55	8L

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

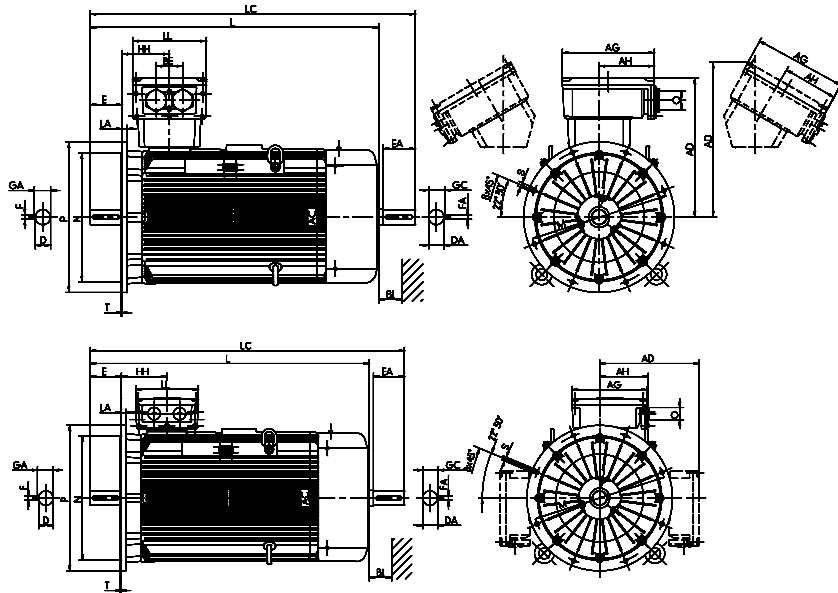
Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, High Efficiency IE2 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 315, 355

Type of construction IM B5 [IM 3001]

Type of construction IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	AD g1 (VIK)	D	DA	DB ¹⁾	E	EA	F	FA	GA	GC	H	HH	L
		g	g1		d	d1		l	l1	u	u1	t	t1	h	A	k
IE2-WE1R 315 S2 Ex nA IIC T3	A660	550	416	460.5	65	65	M20	140	140	18	18	69	69	315	211	1050
IE2-WE1R 315 M2 Ex nA IIC T3	A660	550	416	460.5	65	65	M20	140	140	18	18	69	69	315	211	1105
IE2-WE1R 315 MX2 Ex nA IIC T3	A660	550	416	460.5	65	65	M20	140	140	18	18	69	69	315	211	1185
IE2-WE1R 315 MY2 Ex nA IIC T3	A660	610	494	680.5	65	65	M20	140	140	18	18	69	69	315	230	1270
IE2-WE1R 315 L2 Ex nA IIC T3	A660	610	494	680.5	65	65	M20	140	140	18	18	69	69	315	230	1390
IE2-WE1R 315 LX2 Ex nA IIC T3	A660	610	494	680.5	65	65	M20	140	140	18	18	69	69	315	230	1510
IE2-WE1R 315 S4 Ex nA IIC T3	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	1080
IE2-WE1R 315 M4 Ex nA IIC T3	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	1135
IE2-WE1R 315 MX4 Ex nA IIC T3	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	1210
IE2-WE1R 315 MY4 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE2-WE1R 315 L4 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1420
IE2-WE1R 315 LX4 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1540
IE2-WE1R 315 S6 Ex nA IIC T3	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	1135
IE2-WE1R 315 M6 Ex nA IIC T3	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	1135
IE2-WE1R 315 MX6 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE2-WE1R 315 MY6 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE2-WE1R 315 L6 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1420
IE2-WE1R 315 LX6 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1420
IE2-WE1R 315 S8 Ex nA IIC T3	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	1135
IE2-WE1R 315 M8 Ex nA IIC T3	A660	550	416	460.5	80	70	M20	170	140	22	20	85	74.5	315	211	1135
IE2-WE1R 315 MX8 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE2-WE1R 315 MY8 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1300
IE2-WE1R 315 L8 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1420
IE2-WE1R 315 LX8 Ex nA IIC T3	A660	610	494	680.5	80	70	M20	170	140	22	20	85	74.5	315	230	1420
IE2-WE2R 355 MY2G Ex nA IIC T3	A800	715	736	736	80	80	M20	170	-	22	-	85	-	355	250	1530
IE2-WE2R 355 M2G Ex nA IIC T3	A800	715	736	736	80	80	M20	170	-	22	-	85	-	355	250	1530
IE2-WE2R 355 MY4 Ex nA IIC T3	A800	715	736	736	100	80	M24	210	170	28	22	106	85	355	250	1570
IE2-WE2R 355 M4 Ex nA IIC T3	A800	715	736	736	100	80	M24	210	170	28	22	106	85	355	250	1570
IE2-WE2R 355 MY6, 8 Ex nA IIC T3	A800	715	736	736	100	80	M24	210	170	28	22	106	85	355	250	1570
IE2-WE2R 355 M6 Ex nA IIC T3	A800	715	736	736	100	80	M24	210	170	28	22	106	85	355	250	1570
IE2-WE2R 355 MX6 Ex nA IIC T3	A800	715	736	736	100	80	M24	210	170	28	22	106	85	355	250	1690
IE2-WE2R 355 MX2G Ex nA IIC T3	A800	715	729	729	80	80	M20	170	-	22	-	85	-	355	327	1650
IE2-WE2R 355 L2G Ex nA IIC T3	A800	715	729	729	80	80	M20	170	-	22	-	85	-	355	327	1650
IE2-WE2R 355 MX4 Ex nA IIC T3	A800	715	729	729	100	80	M24	210	170	28	22	106	85	355	327	1690
IE2-WE2R 355 L4 Ex nA IIC T3	A800	715	729	729	100	80	M24	210	170	28	22	106	85	355	327	1690
IE2-WE2R 355 L8 Ex nA IIC T3	A800	715	729	729	100	80	M24	210	170	28	22	106	85	355	327	1690

¹⁾ Centre holes to DIN 332-DS ...

Type designation	L k (IM V1)	L k (IM B5)	LC k1	LC k1 (IM B5)	TB Type Ex e IIC Standard/VIK	AG x	LL z	AH -	O -	LB	BI BI
IE2-WE1R 315 S2 Ex nA IIC T3	1160	1050	1218	1218	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 M2 Ex nA IIC T3	1215	1105	1273	1273	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MX2 Ex nA IIC T3	1295	1185	1353	1353	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MY2 Ex nA IIC T3	1380	1270	1448	1448	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 L2 Ex nA IIC T3	1500	1390	1568	1568	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 LX2 Ex nA IIC T3	1620	1510	1688	1688	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 S4 Ex nA IIC T3	1190	1080	1248	1248	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 M4 Ex nA IIC T3	1245	1135	1303	1303	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MX4 Ex nA IIC T3	1325	1210	1383	1383	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MY4 Ex nA IIC T3	1410	1300	1478	1478	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 L4 Ex nA IIC T3	1530	1420	1598	1598	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 LX4 Ex nA IIC T3	1650	1540	1718	1718	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 S6 Ex nA IIC T3	1245	1135	1303	1303	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 M6 Ex nA IIC T3	1245	1135	1303	1303	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MX6 Ex nA IIC T3	1410	1300	1478	1478	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 MY6 Ex nA IIC T3	1410	1300	1478	1478	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 L6 Ex nA IIC T3	1530	1420	1598	1598	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 LX6 Ex nA IIC T3	1530	1420	1598	1598	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 S8 Ex nA IIC T3	1245	1135	1303	1303	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 M8 Ex nA IIC T3	1245	1135	1303	1303	400 A-SB	415	340	265	M63 x 1.5	55	8L
IE2-WE1R 315 MX8 Ex nA IIC T3	1410	1300	1478	1478	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 MY8 Ex nA IIC T3	1410	1300	1478	1478	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 L8 Ex nA IIC T3	1530	1420	1598	1598	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE1R 315 LX8 Ex nA IIC T3	1530	1420	1598	1598	630 A	496	390	301	M63 x 1.5	55	8L
IE2-WE2R 355 MY2G Ex nA IIC T3	1650	1530	-	-	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 M2G Ex nA IIC T3	1650	1530	-	-	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 MY4 Ex nA IIC T3	1690	1570	1755	1755	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 M4 Ex nA IIC T3	1690	1570	1755	1755	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 MY6, 8 Ex nA IIC T3	1690	1570	1755	1755	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 M6 Ex nA IIC T3	1690	1570	1755	1755	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 MX6 Ex nA IIC T3	1810	1690	1875	1875	630 A	496	390	301	M75 x 1.5	60	8L
IE2-WE2R 355 MX2G Ex nA IIC T3	1770	1650	-	-	1000 A	615	474	385	M75 x 1.5	60	8L
IE2-WE2R 355 L2G Ex nA IIC T3	1770	1650	-	-	1000 A	615	474	385	M75 x 1.5	60	8L
IE2-WE2R 355 MX4 Ex nA IIC T3	1810	1690	1875	1875	1000 A	615	474	385	M75 x 1.5	60	8L
IE2-WE2R 355 L4 Ex nA IIC T3	1810	1690	1875	1875	1000 A	615	474	385	M75 x 1.5	60	8L
IE2-WE2R 355 L8 Ex nA IIC T3	1810	1690	1875	1875	1000 A	615	474	385	M75 x 1.5	60	8L

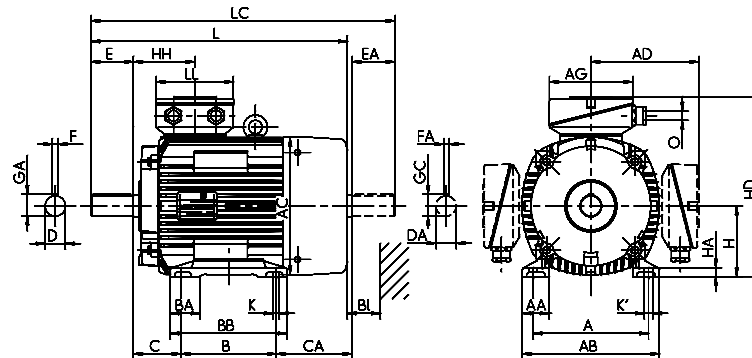
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Standard Efficiency IE1 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411

Size 63 to 280

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD VIK	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	g1	g1	a	m	e	w1	w2	d	d1		l	l1	u	u1
K21R 63 K2, 4, 6	FF115	100	28	128	109	-	-	80	-	100	40	39	11	11	M4	23	23	4	4
K21R 63 G2, 4, 6	FF115	100	28	128	109	-	-	80	-	100	40	39	11	11	M4	23	23	4	4
K21R 71 K2, 4, 6, 8	FF130	112	32	138	124	-	-	90	-	116	45	43.5	14	14	M5	30	30	5	5
K21R 71 G2, 4, 6, 8	FF130	112	32	138	124	-	-	90	-	116	45	43.5	14	14	M5	30	30	5	5
(IE1-)K21R 80 K2, 4, 6, 8	FF 165	125	38	168	139	-	-	100	-	125	50	63	19	19	M6	40	40	6	6
(IE1-)K21R 80 G2, 4, 6, 8	FF 165	125	38	168	139	-	-	100	-	125	50	63	19	19	M6	40	40	6	6
(IE1-)K21R 90 S2, 4, 6, 8	FF 165	140	40	178	157	-	-	100	-	130	56	74	24	22	M8	50	50	8	6
(IE1-)K21R 90 L2, 4, 6, 8	FF 165	140	40	178	157	-	-	125	-	155	56	71	24	22	M8	50	50	8	6
(IE1-)K21R 100 L2, 4, 6, 8	FF 215	160	45	192	177	-	-	140	-	175	63	73	28	24	M10	60	50	8	8
(IE1-)K21R 100 LX4, 8	FF 215	160	32	188	196	-	-	140	-	171	63	102	28	28	M10	60	60	8	8
(IE1-)K21R 112 M2	FF 215	190	50	224	196	-	-	140	-	180	70	95	28	28	M10	60	60	8	8
(IE1-)K21R 112 M6, 8	FF 215	190	50	224	196	-	-	140	-	180	70	95	28	28	M10	60	60	8	8
(IE1-)K21R 112 MX2	FF 215	190	50	224	196	-	-	140	-	180	70	129	28	28	M10	60	60	8	8
(IE1-)K21R 112 M4	FF 215	190	50	224	196	-	-	140	-	180	70	129	28	28	M10	60	60	8	8
(IE1-)K..R(Q)132 S2	FF265	216	50	256	217	189	189	140	55	180	89	153	38	32	M12	80	80	10	10
(IE1-)K..R(Q)132 SX2	FF265	216	50	256	217	189	189	140	55	180	89	173	38	32	M12	80	80	10	10
(IE1-)K..R(Q)132 S4, 6, 8	FF265	216	50	256	217	189	189	140	55	180	89	153	38	32	M12	80	80	10	10
(IE1-)K..R(Q)132 M4	FF265	216	50	256	258	210	210	178	55	218	89	138	38	38	M12	80	80	10	10
(IE1-)K..R(Q)132 MX6	FF265	216	50	256	258	210	210	178	55	218	89	138	38	38	M12	80	80	10	10
(IE1-)K..R(Q)132 M6, 8	FF265	216	50	256	217	189	189	178	55	218	89	135	38	32	M12	80	80	10	10
(IE1-)K..R(Q)160 M2	FF300	254	55	296	258	210	210	210	60	257	108	135	42	38	M16	110	80	12	10
(IE1-)K..R(Q)160 M4, 6, 8	FF300	254	55	296	258	249	275	210	60	257	108	135	42	38	M16	110	80	12	10
(IE1-)K..R(Q)160 MX8	FF300	254	55	296	258	249	275	210	60	257	108	135	42	38	M16	110	80	12	10
(IE1-)K..R(Q)160 MX2	FF300	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
(IE1-)K..R(Q)160 L2, 4, 6, 8	FF300	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12
(IE1-)K..R(Q)180 M2	FF300	279	62	328	351	268	294	241	65	288	121	169	48	48	M16	110	110	14	14
(IE1-)K..R(Q)180 M4	FF300	279	62	328	313	249	275	241	65	288	121	142	48	42	M16	110	110	14	12
(IE1-)K..R(Q)180 L4	FF300	279	62	328	351	268	294	279	65	326	121	176	48	48	M16	110	110	14	14
(IE1-)K..R(Q)180 L6, 8	FF300	279	62	328	313	249	275	279	65	326	121	104	48	42	M16	110	110	14	12
(IE1-)K..R(Q)200 L2, 4, 6, 8	FF 350	318	70	372	351	268	294	305	70	360	133	138	55	48	M20	110	110	16	14
(IE1-)K..R(Q)200 LX6	FF 350	318	70	372	351	268	294	305	70	360	133	138	55	48	M20	110	110	16	14
(IE1-)K..R(Q)200 LX2	FF 350	318	70	372	390	313	378	305	70	360	133	193	55	55	M20	110	110	16	16
(IE1-)K..R(Q)225 S4, 8	FF 400	356	75	413	390	313	378	286	75	343	149	196	60	55	M20	140	110	18	16
(IE1-)K..R(Q)225 M2	FF 400	356	75	413	390	313	378	311	75	368	149	211	55	55	M20	110	110	16	16
(IE1-)K..R(Q)225 M4	FF 400	356	75	413	390	313	378	311	75	368	149	211	60	55	M20	140	110	18	16
(IE1-)K..R(Q)225 M6, 8	FF 400	356	75	413	390	313	378	311	75	368	149	171	60	55	M20	140	110	18	16
(IE1-)K..R(Q)250 M2	FF 500	406	84	471	440	337	406	349	84	412	168	210	60	55	M20	140	110	18	16
(IE1-)K..R(Q)250 M4, 6, 8	FF 500	406	84	471	440	337	406	349	84	412	168	210	65	55	M20	140	110	18	16
(IE1-)K..R(Q)280 S2	FF 500	457	94	522	490	399	399	368	96	431	190	234	65	65	M20	140	140	18	18
(IE1-)K..R(Q)280 S4, 6, 8	FF 500	457	94	522	490	399	399	368	96	431	190	234	75	65	M20	140	140	20	18
(IE1-)K..R(Q)280 M2	FF 500	457	94	522	490	399	399	419	96	482	190	229	65	65	M20	140	140	18	18
(IE1-)K..R(Q)280 M4, 6, 8	FF 500	457	94	522	490	399	399	419	96	482	190	229	75	65	M20	140	140	20	18

¹⁾ Centre holes to DIN 332-DS ...

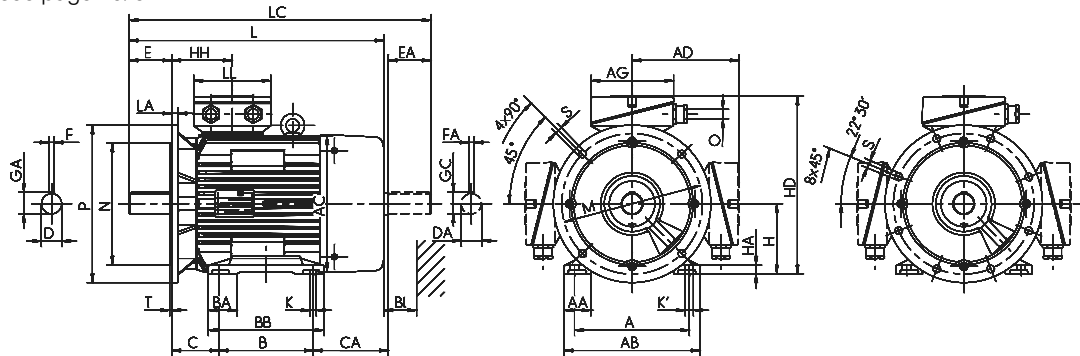
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Standard Efficiency IE1 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 63 to 280

Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD ^{*)}	HD	HH	K	K'	L	LC	TB Type	AG	LL	O	TB Type	AG	LL	O	Hole pattern	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k1	Ex e IIC Standard				Ex e IIC VIK					BI
K21R 63 K2, 4, 6	12.5	12.5	63	10	180	***)	-	67	8	8	179	205	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	14
K21R 63 G2, 4, 6	12.5	12.5	63	10	180	***)	-	67	8	8	179	205	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	14
K21R 71 K2, 4, 6, 8	16	16	71	11	194	***)	-	70	8	8	206	239	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	14
K21R 71 G2, 4, 6, 8	16	16	71	11	194	***)	-	70	8	8	206	239	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	14
(IE1-)K21R 80 K2, 4, 6, 8	21.5	21.5	80	12	210	***)	-	76	10	10	249	293	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	16
(IE1-)K21R 80 G2, 4, 6, 8	21.5	21.5	80	12	210	***)	-	76	10	10	249	293	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	16
(IE1-)K21R 90 S2, 4, 6, 8	27	24.5	90	14	229	***)	-	79	10	10	275	330	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	16
(IE1-)K21R 90 L2, 4, 6, 8	27	24.5	90	14	229	***)	-	79	10	10	297	352	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	16
(IE1-)K21R 100 L2, 4, 6, 8	31	27	100	15	246	***)	-	84	12	12	331	386	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	18
(IE1-)K21R 100 LX4, 8	31	31	100	11	256	***)	-	86	12	12	357	425	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 M2	31	31	112	18	268	***)	-	86	12	12	357	425	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 M6, 8	31	31	112	18	268	***)	-	86	12	12	357	425	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 MX2	31	31	112	18	268	***)	-	86	12	12	391	459	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 M4	31	31	112	18	268	***)	-	86	12	12	391	459	-	-	-	-	KA 05-13	104	112	M25 x 1.5	4L	20
(IE1-)K..R(Q)132 S2	41	35	132	16	310	256.5	310	108	12	12	459	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 SX2	41	35	132	16	310	256.5	310	108	12	12	479	562	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 S4, 6, 8	41	35	132	16	310	256.5	310	108	12	12	459	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 M4	41	41	132	16	331	279	331	114	12	12	481	565	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 MX6	41	41	132	16	331	279	331	114	12	12	481	565	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 M6, 8	41	35	132	16	310	256.5	310	108	12	12	479	562	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)160 M2	45	41	160	18	370	307	370	114	15	15	559	643	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)160 M4, 6, 8	45	41	160	18	370	307	370	114	15	15	559	643	25 A	143	134	M32 x 1.6	25 AV	143	134	M32 x 1.6	4L	35
(IE1-)K..R(Q)160 MX8	45	41	160	18	409	336	435	138	15	15	559	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)160 MX2	45	45	160	18	409	336	435	138	15	20	571	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)160 L2, 4, 6, 8	45	45	160	18	409	336	435	138	15	20	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)180 M2	51.5	51.5	180	20	450	369	476	147	15	20	635	751	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)180 M4	51.5	45	180	20	433	356	459	138	15	20	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)180 L4	51.5	51.5	180	20	450	369	476	147	15	20	680	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)180 L6, 8	51.5	45	180	20	433	356	459	138	15	20	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)200 L2, 4, 6, 8	59	51.5	200	22	472	389	498	147	19	25	680	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
(IE1-)K..R(Q)200 LX6	59	51.5	200	22	472	389	498	147	19	25	680	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
(IE1-)K..R(Q)200 LX2	59	59	200	22	515	417	579	168	19	25	727	851	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	4L	35
(IE1-)K..R(Q)225 S4, 8	64	59	225	25	540	442	605	168	19	25	757	881	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	40
(IE1-)K..R(Q)225 M2	59	59	225	25	540	442	605	168	19	25	767	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	40
(IE1-)K..R(Q)225 M4	64	59	225	25	540	442	605	168	19	25	797	921	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	40
(IE1-)K..R(Q)225 M6, 8	64	59	225	25	540	442	605	168	19	25	757	881	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	40
(IE1-)K..R(Q)250 M2	64	59	250	28	589	484	656	177	24	30	862	977	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	45
(IE1-)K..R(Q)250 M4, 6, 8	69	59	250	28	589	484	656	177	24	30	862	977	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	45
(IE1-)K..R(Q)280 S2	69	69	280	32	677	537	677	206	24	30	924	1072	200 A	290	252	M63 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	50
(IE1-)K..R(Q)280 S4, 6, 8	79.5	69	280	32	677	537	677	206	24	30	924	1072	200 A	290	252	M63 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	50
(IE1-)K..R(Q)280 M2	69	69	280	32	677	537	677	206	24	30	970	1118	200 A	290	252	M63 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	50
(IE1-)K..R(Q)280 M4, 6, 8	79.5	69	280	32	677	537	677	206	24	30	970	1118	200 A	290	252	M63 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	50

**) Terminal box left/right

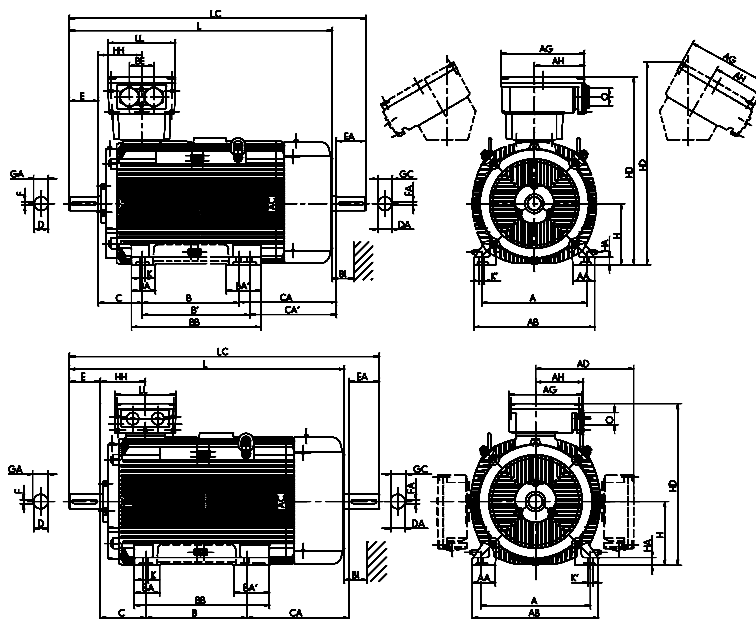
**) upon request

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Standard Efficiency IE1 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 315

Type of construction IM B3 [IM 1001]



Type designation	Flange size	A	AA	AB	AC	AD	AD VIK	B	BA	BA'	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	g1	g1	a	m	m1	e	w1	w2	d	d1		l	l1	u	u1
(IE1-)K..R(Q)315 S2	FF 600	508	126	590	550	460	460	406	120	-	503	216	316	65	65	M20	140	140	18	18
(IE1-)K..R(Q)315 S4, 6, 8	FF 600	508	126	590	550	460	460	406	120	-	503	216	316	80	70	M20	170	140	22	20
(IE1-)K..R(Q)315 M2	FF 600	508	126	590	550	460	460	457	120	150	554	216	320	65	65	M20	140	140	18	18
(IE1-)K..R(Q)315 M4, 6, 8	FF 600	508	126	590	550	460	460	457	120	150	554	216	320	80	70	M20	170	140	22	20
(IE1-)K..R(Q)315 MX2	FF 600	508	126	590	550	460	460	457	120	150	554	216	400	65	65	M20	140	140	18	18
(IE1-)K..R(Q)315 MX4	FF 600	508	126	590	550	460	460	457	120	150	554	216	400	80	70	M20	170	140	22	20
(IE1-)K..R(Q)315 MX6, 8	FF 600	508	126	590	550	460	460	457	120	150	554	216	320	80	70	M20	170	140	22	20
(IE1-)K..R(Q)315 MX10, 12	FF 600	508	126	590	550	460	460	457	120	150	554	216	320	80	70	M20	170	140	22	20
(IE1-)K..R(Q)315 MY2	FF 600	508	110	590	610	681	681	457	120	-	573	216	495	65	65	M20	140	140	18	18
(IE1-)K..R(Q)315 MY4, 6, 8	FF 600	508	110	590	610	681	681	457	120	-	573	216	495	80	70	M20	170	140	22	20
(IE1-)K..R(Q)315 L2	FF 600	508	110	590	610	681	681	508	120	-	624	216	539	65	65	M20	140	140	18	18
(IE1-)K..R(Q)315 L4, 6, 8	FF 600	508	110	590	610	681	681	508	120	-	624	216	564	80	70	M20	170	140	22	20
(IE1-)K..R(Q)315 LX2	FF 600	508	110	590	610	681	681	508	120	-	624	216	684	65	65	M20	140	140	18	18
(IE1-)K..R(Q)315 LX4	FF 600	508	110	590	610	681	681	508	120	-	624	216	689	80	70	M20	170	140	22	20
(IE1-)K..R(Q)315 LX6, 8	FF 600	508	110	590	610	681	681	508	120	-	624	216	564	80	70	M20	170	140	22	20

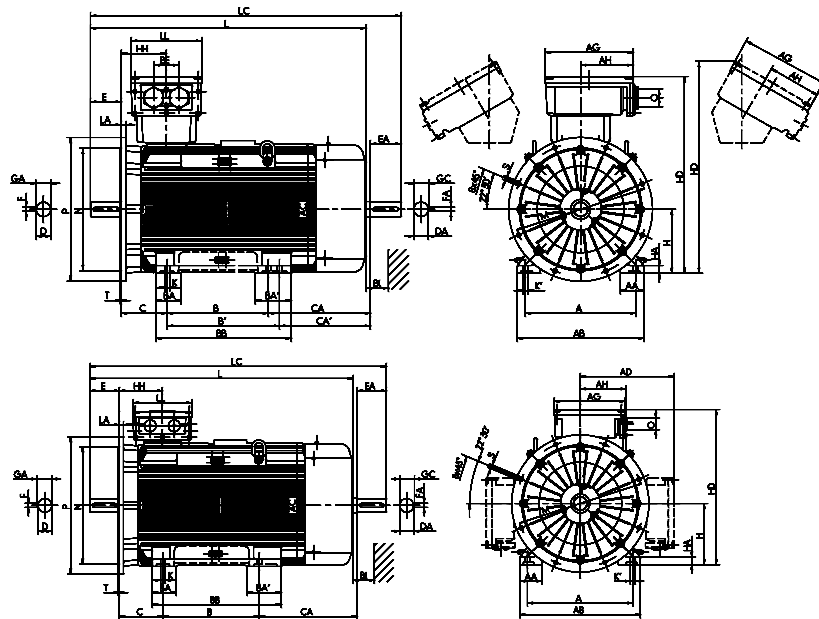
¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Standard Efficiency IE1 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 315

Type of construction IM B35 [IM 2001]



Type designation	GA	GC	H	HA	HD	HD'')	HD	HH	K	K'	L	LC	TB Type	AG	LL	AH	O	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k1	Ex e IIC	Standard/VIK				BI
(IE1-)K..R(Q)315 S2	69	69	315	44	775	610	775	211	28	35	1050	1218	400 A-SB	415	340	265	M63 x 1.5	55
(IE1-)K..R(Q)315 S4, 6, 8	85	74.5	315	44	775	610	775	211	28	35	1080	1248	400 A-SB	415	340	265	M63 x 1.5	55
(IE1-)K..R(Q)315 M2	69	69	315	44	775	610	775	211	28	35	1105	1273	400 A-SB	415	340	265	M63 x 1.5	55
(IE1-)K..R(Q)315 M4, 6, 8	85	74.5	315	44	775	610	775	211	28	35	1135	1303	400 A-SB	415	340	265	M63 x 1.5	55
(IE1-)K..R(Q)315 MX2	69	69	315	44	775	610	775	211	28	35	1185	1353	400 A-SB	415	340	265	M63 x 1.5	55
(IE1-)K..R(Q)315 MX4	85	74.5	315	44	775	610	775	211	28	35	1210	1383	400 A-SB	415	340	265	M63 x 1.5	55
(IE1-)K..R(Q)315 MX6, 8	85	74.5	315	44	775	610	775	211	28	35	1135	1303	400 A-SB	415	340	265	M63 x 1.5	55
(IE1-)K..R(Q)315 MX10, 12	85	74.5	315	44	775	610	775	211	28	35	1135	1303	400 A-SB	415	340	265	M63 x 1.5	55
(IE1-)K..R(Q)315 MY2	69	69	315	44	996	628	996	230	28	35	1270	1448	630 A	496	390	301	M63 x 1.5	55
(IE1-)K..R(Q)315 MY4, 6, 8	85	74.5	315	44	996	628	996	230	28	35	1300	1478	630 A	496	390	301	M63 x 1.5	55
(IE1-)K..R(Q)315 L2	69	69	315	44	996	628	996	230	28	35	1390	1543	630 A	496	390	301	M63 x 1.5	55
(IE1-)K..R(Q)315 L4, 6, 8	85	74.5	315	44	996	628	996	230	28	35	1420	1598	630 A	496	390	301	M63 x 1.5	55
(IE1-)K..R(Q)315 LX2	69	69	315	44	996	628	996	230	28	35	1510	1688	630 A	496	390	301	M63 x 1.5	55
(IE1-)K..R(Q)315 LX4	85	74.5	315	44	996	628	996	230	28	35	1540	1723	630 A	496	390	301	M63 x 1.5	55
(IE1-)K..R(Q)315 LX6, 8	85	74.5	315	44	996	628	996	230	28	35	1420	1598	630 A	496	390	301	M63 x 1.5	55

**) Terminal box left/right

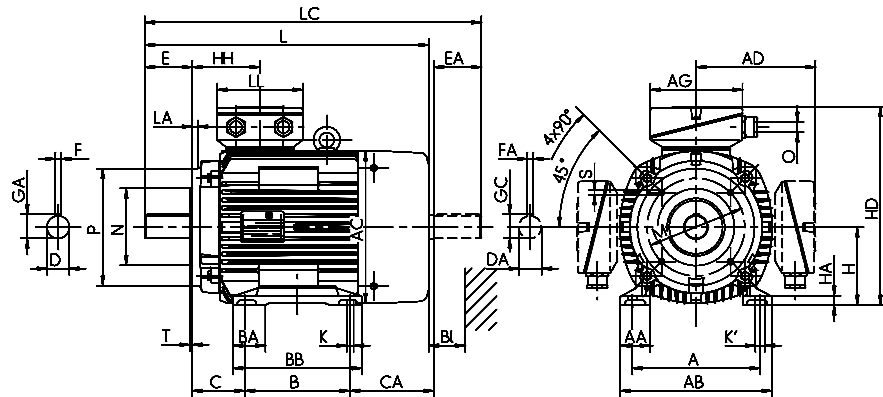
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Standard Efficiency IE1 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 63 to 180

Type of construction IM B34 [IM 2101]

Flange dimensions, see page 10/6



Type designation	Flange size		A	AA	AB	AC	AD	AD	B	BA	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
	small	large	b	n	f	g	g1	VIK g1	a	m	e	w1	w2	d	d1		l	l1	u	u1
K21R 63 K2, 4, 6	FT 75	FT 100	100	28	128	109	-	-	80	-	100	40	39	11	11	M4	23	23	4	4
K21R 63 G2, 4, 6	FT 75	FT 100	100	28	128	109	-	-	80	-	100	40	39	11	11	M4	23	23	4	4
K21R 71 K2, 4, 6, 8	FT 85	FT 115	112	32	138	124	-	-	90	-	116	45	43.5	14	14	M5	30	30	5	5
K21R 71 G2, 4, 6, 8	FT 85	FT 115	112	32	138	124	-	-	90	-	116	45	43.5	14	14	M5	30	30	5	5
(IE1-)K21R 80 K2, 4, 6, 8	FT 100	FT 130	125	38	168	139	-	-	100	-	125	50	63	19	19	M6	40	40	6	6
(IE1-)K21R 80 G2, 4, 6, 8	FT 100	FT 130	125	38	168	139	-	-	100	-	125	50	63	19	19	M6	40	40	6	6
(IE1-)K21R 90 S2, 4, 6, 8	FT 115	FT 130	140	40	178	157	-	-	100	-	130	56	74	24	22	M8	50	50	8	6
(IE1-)K21R 90 L2, 4, 6, 8	FT 115	FT 130	140	40	178	157	-	-	125	-	155	56	71	24	22	M8	50	50	8	6
(IE1-)K21R 100 L2, 4, 6, 8	FT 130	FT 165	160	45	192	177	-	-	140	-	175	63	73	28	24	M10	60	50	8	8
(IE1-)K21R 100 LX4, 8	FT 130	FT 165	160	32	188	196	-	-	140	-	171	63	102	28	28	M10	60	60	8	8
(IE1-)K21R 112 M2	FT 130	FT 165	190	50	224	196	-	-	140	-	180	70	95	28	28	M10	60	60	8	8
(IE1-)K21R 112 M6, 8	FT 130	FT 165	190	50	224	196	-	-	140	-	180	70	95	28	28	M10	60	60	8	8
(IE1-)K21R 112 MX2	FT 130	FT 165	190	50	224	196	-	-	140	-	180	70	129	28	28	M10	60	60	8	8
(IE1-)K21R 112 M4	FT 130	FT 165	190	50	224	196	-	-	140	-	180	70	129	28	28	M10	60	60	8	8
(IE1-)K..R(Q)132 S2	FT 130	FT 165	216	50	256	217	189	189	140	55	180	89	153	38	32	M12	80	80	10	10
(IE1-)K..R(Q)132 SX2	FT 130	FT 165	216	50	256	217	189	189	140	55	180	89	173	38	32	M12	80	80	10	10
(IE1-)K..R(Q)132 S4, 6, 8	FT 130	FT 165	216	50	256	217	189	189	140	55	180	89	153	38	32	M12	80	80	10	10
(IE1-)K..R(Q)132 M4	FT 165	FT 215	216	50	256	258	210	210	178	55	218	89	138	38	38	M12	80	80	10	10
(IE1-)K..R(Q)132 MX6	FT 165	FT 215	216	50	256	258	210	210	178	55	218	89	138	38	38	M12	80	80	10	10
(IE1-)K..R(Q)132 M6, 8	FT 130	FT 165	216	50	256	217	189	189	178	55	218	89	135	38	32	M12	80	80	10	10
(IE1-)K..R(Q)160 M2	FT 165	FT 215	254	55	296	258	210	210	210	60	257	108	135	42	38	M16	110	80	12	10
(IE1-)K..R(Q)160 M4, 6, 8	FT 165	FT 215	254	55	296	258	249	275	210	60	257	108	135	42	38	M16	110	80	12	10
(IE1-)K..R(Q)160 MX8	FT 165	FT 215	254	55	296	258	249	275	210	60	257	108	135	42	38	M16	110	80	12	10
(IE1-)K..R(Q)160 MX2	FT 215	FT 265	254	55	296	313	249	275	210	60	257	108	148	42	42	M16	110	110	12	12
(IE1-)K..R(Q)160 L2, 4, 6, 8	FT 215	FT 265	254	55	296	313	249	275	254	60	301	108	142	42	42	M16	110	110	12	12
(IE1-)K..R(Q)180 M4	FT 265	-	279	62	328	249	249	275	241	65	288	121	142	48	42	M16	110	110	14	12
(IE1-)K..R(Q)180 L6, 8	FT 265	-	279	62	328	249	275	275	279	65	326	121	104	48	42	M16	110	110	14	12

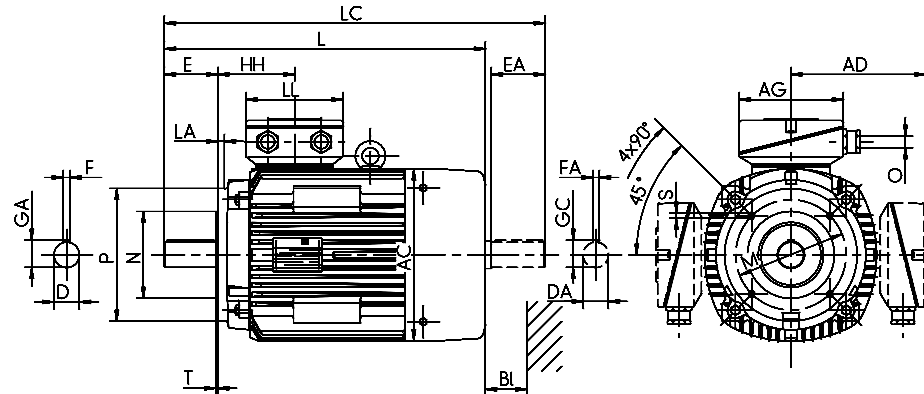
¹⁾ Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Standard Efficiency IE1 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 63 to 180

Type of construction IM B14 [IM 3601]
Flange dimensions, see page 10/6



Type designation	GA	GC	H	HA	HD	HD''	HD	HH	K	K'	L	LC	TB Type	AG	LL	O	TB Type	AG	LL	O	Hole pattern	BI
	t	t1	h	c	p	p	p	A	s	s'	k	k1	Ex e IIC Standard				Ex e IIC VIK					
K21R 63 K2, 4, 6	12.5	12.5	63	10	180	***	-	67	8	8	179	205	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	14
K21R 63 G2, 4, 6	12.5	12.5	63	10	180	***	-	67	8	8	179	205	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	14
K21R 71 K2, 4, 6, 8	16	16	71	11	194	***	-	70	8	8	206	239	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	14
K21R 71 G2, 4, 6, 8	16	16	71	11	194	***	-	70	8	8	206	239	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	14
(IE1-)K21R 80 K2, 4, 6, 8	21.5	21.5	80	12	210	***	-	76	10	10	249	293	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	16
(IE1-)K21R 80 G2, 4, 6, 8	21.5	21.5	80	12	210	***	-	76	10	10	249	293	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	16
(IE1-)K21R 90 S2, 4, 6, 8	27	24.5	90	14	229	***	-	79	10	10	275	330	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	16
(IE1-)K21R 90 L2, 4, 6, 8	27	24.5	90	14	229	***	-	79	10	10	297	352	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	16
(IE1-)K21R 100 L2, 4, 6, 8	31	27	100	15	246	***	-	84	12	12	331	386	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	18
(IE1-)K21R 100 LX4, 8	31	31	100	11	256	***	-	86	12	12	357	425	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 M2	31	31	112	18	268	***	-	86	12	12	357	425	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 M6, 8	31	31	112	18	268	***	-	86	12	12	357	425	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 MX2	31	31	112	18	268	***	-	86	12	12	391	459	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 M4	31	31	112	18	268	***	-	86	12	12	391	459	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	20
(IE1-)K..R(Q)132 S2	41	35	132	16	310	***	310	108	12	12	459	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 SX2	41	35	132	16	310	***	310	108	12	12	479	562	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 S4, 6, 8	41	35	132	16	310	***	310	108	12	12	459	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 M4	41	41	132	16	331	***	331	114	12	12	481	565	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 MX6	41	41	132	16	331	***	331	114	12	12	481	565	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 M6, 8	41	35	132	16	310	***	310	108	12	12	479	562	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)160 M2	45	41	160	18	397	***	370	114	15	15	559	643	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)160 M4, 6, 8	45	41	160	18	397	***	370	114	15	15	559	643	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)160 MX8	45	41	160	18	397	***	435	138	15	15	559	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)160 MX2	45	45	160	18	402	***	435	138	15	20	571	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)160 L2, 4, 6, 8	45	45	160	18	402	***	435	138	15	20	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)180 M4	51.5	45	180	20	422	***	459	138	15	20	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)180 L6, 8	51.5	45	180	20	422	***	459	138	15	20	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35

** Terminal box left/right

*** upon request

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Standard Efficiency IE1 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

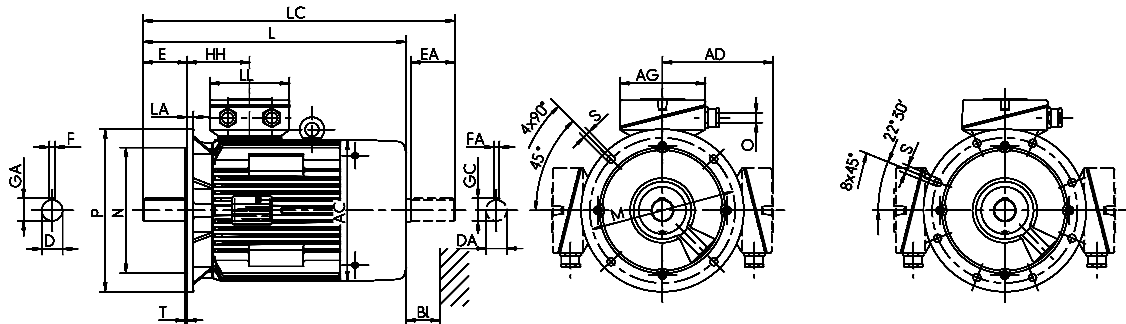
with surface cooling, type of cooling IC 411

Size 63 to 280

Type of construction IM B5 [IM 3001]

Type of construction IM V1 [IM 3011]

Flange dimensions, see page 10/6



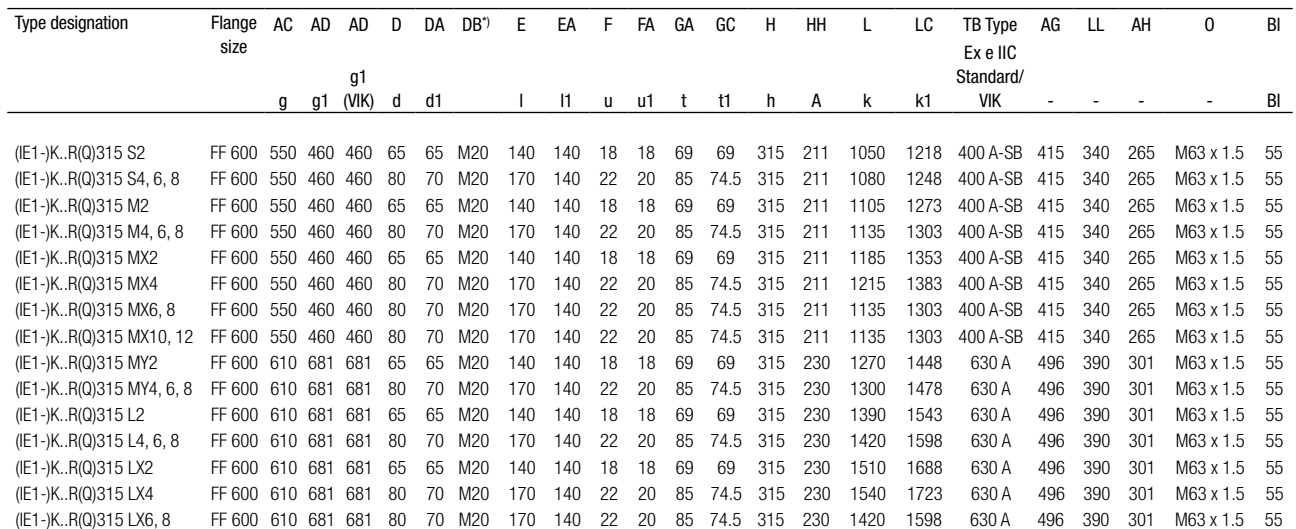
Type designation	Flange size	AC	AD		D	DA	DB ¹⁾	E	EA	F	FA	GA	GC	H	HH
		g	g1	g1 (VIK)	d	d1		l	l1	u	u1	t	t1	h	A
K21R 63 K2, 4, 6	FF115	109	-	-	11	11	M4	23	23	4	4	12.5	12.5	63	67
K21R 63 G2, 4, 6	FF115	109	-	-	11	11	M4	23	23	4	4	12.5	12.5	63	67
K21R 71 K2, 4, 6, 8	FF130	124	-	-	14	14	M5	30	30	5	5	16	16	71	70
K21R 71 G2, 4, 6, 8	FF130	124	-	-	14	14	M5	30	30	5	5	16	16	71	70
(IE1-)K21R 80 K2, 4, 6, 8	FF 165	139	-	-	19	19	M6	40	40	6	6	21.5	21.5	80	76
(IE1-)K21R 80 G2, 4, 6, 8	FF 165	139	-	-	19	19	M6	40	40	6	6	21.5	21.5	80	76
(IE1-)K21R 90 S2, 4, 6, 8	FF 165	157	-	-	24	22	M8	50	50	8	6	27	24.5	90	79
(IE1-)K21R 90 L2, 4, 6, 8	FF 165	157	-	-	24	22	M8	50	50	8	6	27	24.5	90	79
(IE1-)K21R 100 L2, 4, 6, 8	FF 215	177	-	-	28	24	M10	60	50	8	8	31	27	100	84
(IE1-)K21R 100 LX4, 8	FF 215	196	-	-	28	28	M10	60	60	8	8	31	31	100	86
(IE1-)K21R 112 M2	FF 215	196	-	-	28	28	M10	60	60	8	8	31	31	112	86
(IE1-)K21R 112 M6, 8	FF 215	196	-	-	28	28	M10	60	60	8	8	31	31	112	86
(IE1-)K21R 112 MX2	FF 215	196	-	-	28	28	M10	60	60	8	8	31	31	112	86
(IE1-)K21R 112 M4	FF 215	196	-	-	28	28	M10	60	60	8	8	31	31	112	86
(IE1-)K..R(Q)132 S2	FF265	217	189	189	38	32	M12	80	80	10	10	41	35	132	108
(IE1-)K..R(Q)132 SX2	FF265	217	189	189	38	32	M12	80	80	10	10	41	35	132	108
(IE1-)K..R(Q)132 S4, 6, 8	FF265	217	189	189	38	32	M12	80	80	10	10	41	35	132	108
(IE1-)K..R(Q)132 M4	FF265	258	210	210	38	38	M12	80	80	10	10	41	41	132	114
(IE1-)K..R(Q)132 MX6	FF265	258	210	210	38	38	M12	80	80	10	10	41	41	132	114
(IE1-)K..R(Q)132 M6, 8	FF265	217	189	189	38	32	M12	80	80	10	10	41	35	132	108
(IE1-)K..R(Q)160 M2	FF300	258	210	210	42	38	M16	110	80	12	10	45	41	160	114
(IE1-)K..R(Q)160 M4, 6, 8	FF300	258	249	275	42	38	M16	110	80	12	10	45	41	160	114
(IE1-)K..R(Q)160 MX8	FF300	313	249	275	42	38	M16	110	80	12	10	45	41	160	138
(IE1-)K..R(Q)160 MX2	FF300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138
(IE1-)K..R(Q)160 L2, 4, 6, 8	FF300	313	249	275	42	42	M16	110	110	12	12	45	45	160	138
(IE1-)K..R(Q)180 M2	FF300	351	268	294	48	48	M16	110	110	14	14	51.5	51.5	180	147
(IE1-)K..R(Q)180 M4	FF300	313	249	275	48	42	M16	110	110	14	12	51.5	45	180	138
(IE1-)K..R(Q)180 L4	FF300	351	268	294	48	48	M16	110	110	14	14	51.5	51.5	180	147
(IE1-)K..R(Q)180 L6, 8	FF300	313	249	275	48	42	M16	110	110	14	12	51.5	45	180	138
(IE1-)K..R(Q)200 L2, 4, 6, 8	FF 350	351	268	294	55	48	M20	110	110	16	14	59	51.5	200	147
(IE1-)K..R(Q)200 LX6	FF 350	351	268	294	55	48	M20	110	110	16	14	59	51.5	200	147
(IE1-)K..R(Q)200 LX2	FF 350	390	313	378	55	55	M20	110	110	16	16	59	59	200	168
(IE1-)K..R(Q)225 S4, 8	FF 400	390	313	378	60	55	M20	140	110	18	16	64	59	225	168
(IE1-)K..R(Q)225 M2	FF 400	390	313	378	55	55	M20	110	110	16	16	59	59	225	168
(IE1-)K..R(Q)225 M4	FF 400	390	313	378	60	55	M20	140	110	18	16	64	59	225	168
(IE1-)K..R(Q)225 M6, 8	FF 400	390	313	378	60	55	M20	140	110	18	16	64	59	225	168
(IE1-)K..R(Q)250 M2	FF 500	440	337	406	60	55	M20	140	110	18	16	64	59	250	177
(IE1-)K..R(Q)250 M4, 6, 8	FF 500	440	337	406	65	55	M20	140	110	18	16	69	59	250	177
(IE1-)K..R(Q)280 S2	FF 500	490	399	399	65	65	M20	140	140	18	18	69	69	280	206
(IE1-)K..R(Q)280 S4, 6, 8	FF 500	490	399	399	75	65	M20	140	140	20	18	79.5	69	280	206
(IE1-)K..R(Q)280 M2	FF 500	490	399	399	65	65	M20	140	140	18	18	69	69	280	206
(IE1-)K..R(Q)280 M4, 6, 8	FF 500	490	399	399	75	65	M20	140	140	20	18	79.5	69	280	206

¹⁾ Centre holes to DIN 332-DS ...

Type designation	L k	LC k1	TB Type Ex e IIC Standard	AG -	LL -	O -	TB Type Ex e IIC VIK	AG -	LL -	O -	Loch- bild	BI BI
K21R 63 K2, 4, 6	179	205	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	14
K21R 63 G2, 4, 6	179	205	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	14
K21R 71 K2, 4, 6, 8	206	239	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	14
K21R 71 G2, 4, 6, 8	206	239	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	14
(IE1-)K21R 80 K2, 4, 6, 8	249	293	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	16
(IE1-)K21R 80 G2, 4, 6, 8	249	293	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	16
(IE1-)K21R 90 S2, 4, 6, 8	275	330	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	16
(IE1-)K21R 90 L2, 4, 6, 8	297	352	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	16
(IE1-)K21R 100 L2, 4, 6, 8	331	386	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	18
(IE1-)K21R 100 LX4, 8	357	425	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 M2	357	425	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 M6, 8	391	425	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 MX2	391	459	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	20
(IE1-)K21R 112 M4	391	459	-	-	-	-	VIK16_M25	104	112	M25 x 1.5	4L	20
(IE1-)K..R(Q)132 S2	459	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 SX2	479	562	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 S4, 6, 8	459	542	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 M4	481	565	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 MX6	481	565	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)132 M6, 8	479	562	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)160 M2	559	643	25 A	143	134	M32 x 1.5	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)160 M4, 6, 8	559	643	25 A	143	134	M32 x 1.6	25 AV	143	134	M32 x 1.5	4L	35
(IE1-)K..R(Q)160 MX8	559	643	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)160 MX2	571	686	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)160 L2, 4, 6, 8	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)180 M2	635	751	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)180 M4	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)180 L4	680	796	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)180 L6, 8	609	724	63 A	184	172	M40 x 1.5	100/63 AV	223	214	M40 x 1.5	4L	35
(IE1-)K..R(Q)200 L2, 4, 6, 8	680	796	63 A	184	172	M50 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
(IE1-)K..R(Q)200 LX6	680	796	63 A	184	172	M50 x 1.5	100/63 AV	223	214	M50 x 1.5	4L	35
(IE1-)K..R(Q)200 LX2	727	851	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M50 x 1.5	4L	35
(IE1-)K..R(Q)225 S4, 8	757	881	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	40
(IE1-)K..R(Q)225 M2	767	891	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	40
(IE1-)K..R(Q)225 M4	797	921	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	40
(IE1-)K..R(Q)225 M6, 8	757	881	100 A	222	214	M50 x 1.5	200 A-SB	335	270	M63 x 1.5	8L	40
(IE1-)K..R(Q)250 M2	862	977	100 A	222	214	M50 x 1.5	200 A-SB	415	340	M63 x 1.5	8L	45
(IE1-)K..R(Q)250 M4, 6, 8	862	977	100 A	222	214	M50 x 1.5	200 A-SB	415	340	M63 x 1.5	8L	45
(IE1-)K..R(Q)280 S2	924	1072	200 A	290	252	M63 x 1.5	200 A-SB	415	340	M63 x 1.5	8L	50
(IE1-)K..R(Q)280 S4, 6, 8	924	1072	200 A	290	252	M63 x 1.5	200 A-SB	415	340	M63 x 1.5	8L	50
(IE1-)K..R(Q)280 M2	970	1118	200 A	290	252	M63 x 1.5	200 A-SB	415	340	M63 x 1.5	8L	50
(IE1-)K..R(Q)280 M4, 6, 8	970	1118	200 A	290	252	M63 x 1.5	200 A-SB	415	340	M63 x 1.5	8L	50

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Standard Efficiency IE1 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

Flange dimensions, see page 10/6



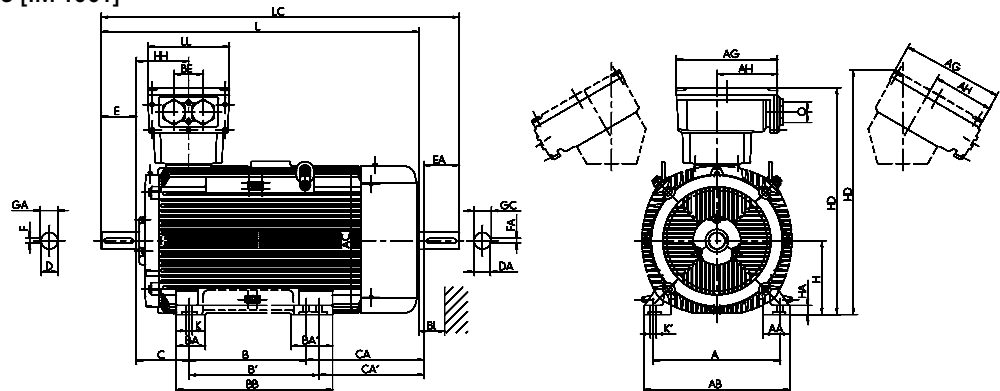
*) Centre holes to DIN 332-DS ...

Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Standard Efficiency IE1 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011))

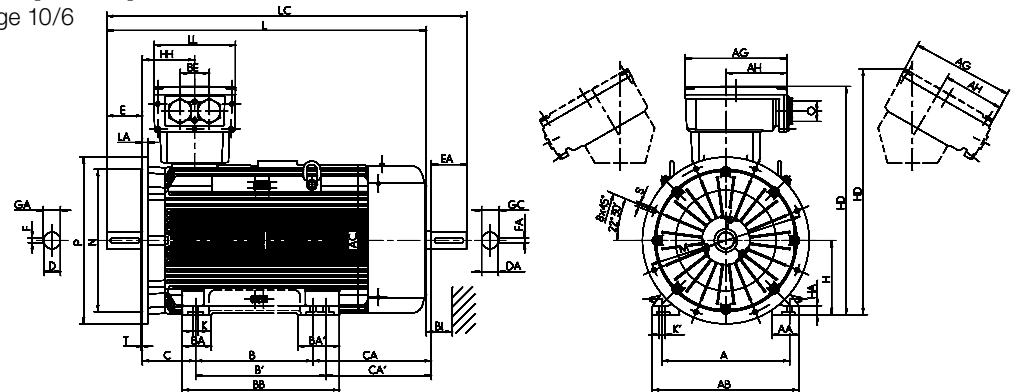
with surface cooling, type of cooling IC 411
Size 355

Type of construction IM B3 [IM 1001]



Type of construction IM B35 [IM 2001]

Flange dimensions, see page 10/6



Type designation	Flange size	A	AA	AB	AC	B	BA	BA'	BB	C	CA	D	DA	DB ¹⁾	E	EA	F	FA
		b	n	f	g	a	m	m1	e	w1	w2	d	d1		l	l1	u	u1
(IE1-)K.2R 355 MY2G, M2G	FF 740	610	130	700	715	560	140	200	750	254	-	80	80	M20	170	-	22	-
(IE1-)K.2R 355 MY4, 6, 8	FF 740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
(IE1-)K.2R 355 M4	FF 740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
(IE1-)K.2R 355 M6, 8	FF 740	610	130	700	715	560	140	200	750	254	561	100	80	M24	210	170	28	22
(IE1-)K.2R 355 MX6, 8	FF 740	610	130	700	715	560	140	200	750	254	681	100	80	M24	210	170	28	22
(IE1-)K.2R 355 MX2G	FF 740	610	130	700	715	560	140	200	750	254	-	80	80	M20	170	-	22	-
(IE1-)K.2R 355 LY2G, L2G	FF 740	610	130	700	715	630	140	200	750	254	-	80	80	M20	170	-	22	-
(IE1-)K.2R 355 MX4	FF 740	610	130	700	715	560	140	200	750	254	681	100	80	M24	210	170	28	22
(IE1-)K.2R 355 LY4, L4	FF 740	610	130	700	715	630	140	200	750	254	611	100	80	M24	210	170	28	22
(IE1-)K.2R 355 LY6, 8	FF 740	610	130	700	715	630	140	200	750	254	611	100	80	M24	210	170	28	22

Type designation	GA	GC	H	HA	HD	HD ²⁾	HH	K	K'	L	LC	TB Type Ex e IIC Standard/ VIK	AG	LL	AH	BE	O	BI
	t	t1	h	c	p	p	A	s	s'	k	k1		x	z	-	-	r	BI
(IE1-)K.2R 355 MY2G, M2G	85	-	355	44	1091	1172	250	28	35	1530	-	630 A	496	390	301	140	M75 x 1.5	60
(IE1-)K.2R 355 MY4, 6, 8	106	85	355	44	1091	1172	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	60
(IE1-)K.2R 355 M4	106	85	355	44	1091	1172	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	60
(IE1-)K.2R 355 M6, 8	106	85	355	44	1091	1172	250	28	35	1570	1755	630 A	496	390	301	140	M75 x 1.5	60
(IE1-)K.2R 355 MX6, 8	106	85	355	44	1091	1172	250	28	35	1690	1875	630 A	496	390	301	140	M75 x 1.5	60
(IE1-)K.2R 355 MX2G	85	-	355	44	1091	1172	327	28	35	1650	-	1000 A	615	474	385	200	M75 x 1.5	60
(IE1-)K.2R 355 LY2G, L2G	85	-	355	44	1084	1174	327	28	35	1650	-	1000 A	615	474	385	200	M75 x 1.5	60
(IE1-)K.2R 355 MX4	106	85	355	44	1084	1174	327	28	35	1690	1875	1000 A	615	474	385	200	M75 x 1.5	60
(IE1-)K.2R 355 LY4, L4	106	85	355	44	1084	1174	327	28	35	1690	1875	1000 A	615	474	385	200	M75 x 1.5	60
(IE1-)K.2R 355 LY6, 8	106	85	355	44	1084	1174	327	28	35	1690	1875	1000 A	615	474	385	200	M75 x 1.5	60

¹⁾ Centre holes to DIN 332-DS ...

²⁾ Terminal box inclined left/right

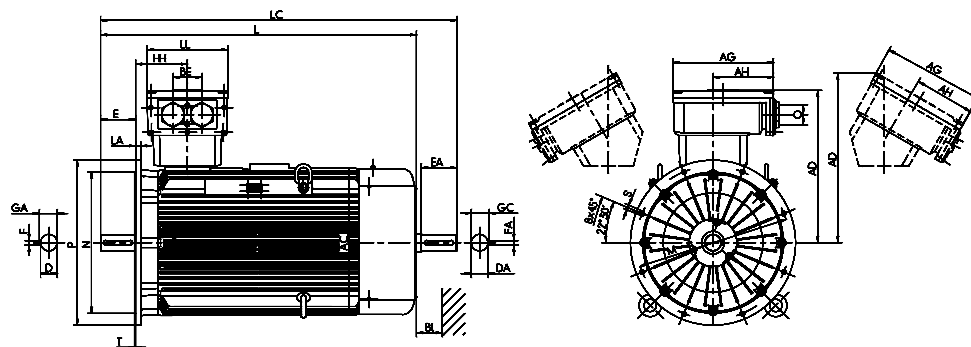
Three-phase motors with squirrel-cage rotor for operation in Zone 2 according to EN 60079-15 (EN 60079-7)

Type of explosion protection „n“ (Increased safety „ec“) and and for operation in Zones 21 and 22 according to EN 60079-31, Type of explosion protection – Protection by enclosure „tb, tc“, Standard Efficiency IE1 (VIK Recommendation 1, Three-Phase Asynchronous Motors – Technical Requirements 03.2011)

with surface cooling, type of cooling IC 411
Size 355

Type of construction IM V1 [IM 3011]

Flange dimensions, see page 10/6



Type designation	Flange size	AC	AD	AD**)	D	DA	DB ¹⁾	E	EA	F	FA	GA	GC	H	HH	L	LC	TB Type	AG	LL	AH	BE	O	BI
		g	g1	g1	d	d1		l	l1	u	u1	t	t1	h	A	K	K1	Ex e IIC Standard VIK	x	z	-	-	r	BI
(IE1-)K.2R 355 MY2G, M2G	FF 740	715	736	817	80	80	M20	170	-	22	-	85	-	355	250	1530	-	630 A	496	390	301	140	M75 x 1.5	60
(IE1-)K.2R 355 MY4, 6, 8	FF 740	715	736	817	100	80	M24	210	170	28	22	106	85	355	250	1570	1755	630 A	496	390	301	140	M75 x 1.5	60
(IE1-)K.2R 355 M4	FF 740	715	736	817	100	80	M24	210	170	28	22	106	85	355	250	1570	1755	630 A	496	390	301	140	M75 x 1.5	60
(IE1-)K.2R 355 M6, 8	FF 740	715	736	817	100	80	M24	210	170	28	22	106	85	355	250	1570	1755	630 A	496	390	301	140	M75 x 1.5	60
(IE1-)K.2R 355 MX6, 8	FF 740	715	736	817	100	80	M24	210	170	28	22	106	85	355	327	1690	1875	630 A	496	390	301	140	M75 x 1.5	60
(IE1-)K.2R 355 MX2G	FF 740	715	729	819	80	80	M20	170	-	22	-	85	-	355	327	1650	-	1000 A	615	474	385	200	M75 x 1.5	60
(IE1-)K.2R 355 LY2G, L2G	FF 740	715	729	819	80	80	M20	170	-	22	-	85	-	355	327	1650	-	1000 A	615	474	385	200	M75 x 1.5	60
(IE1-)K.2R 355 MX4	FF 740	715	729	819	100	80	M24	210	170	28	22	106	85	355	327	1690	1875	1000 A	615	474	385	200	M75 x 1.5	60
(IE1-)K.2R 355 LY4, L4	FF 740	715	729	819	100	80	M24	210	170	28	22	106	85	355	327	1690	1875	1000 A	615	474	385	200	M75 x 1.5	60
(IE1-)K.2R 355 LY6, 8	FF 740	715	729	819	100	80	M24	210	170	28	22	106	85	355	327	1690	1875	1000 A	615	474	385	200	M75 x 1.5	60

¹⁾ Centre holes to DIN 332-DS ...

** Terminal box inclined left/right

