



Flameproof motors
Moteurs antidéflagrants
Explosionsgeschützte Motoren
Motores antideflagrantes
Motori antideflagranti

Aluminium 56 ÷ 80

Ex d, Ex de • IIB, IIC



cemp

Flameproof
Motors

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GB CONTENTS

	Page
1. General informations	8
1.1 Series F motors	8
1.2 Main characteristics	9
1.3 Main options	9
2. Design features	10
2.1 Mounting arrangements	10
2.2 Installation and applications	12
2.3 Materials, painting and nameplate	13
2.4 Bearing seal and mounting interfaces	15
2.5 Terminal box	17
3. Connecting diagrams	18
3.1 Three-phase motors	18
3.2 Single phase motors	20
3.3 Self-braking motors	21
4. Performance data	87
4.1 Three-phase, 1-speed, ventilated motors	88
4.2 Three-phase, 1-speed, unventilated motors	90
4.3 Three-phase motors, 2 speeds, for general purpose (constant torque)	92
4.4 Three-phase motors, 2 speeds, for centrifugal machines (quadratic torque),	94
4.5 Three-phase, 1-speed, self-braking motors	96
4.6 Motors driven by inverter	98
4.7 Single-phase motors, 1 speed,	100
5 Overall dimensions	103
6 Spare parts	117

F SOMMAIRE

1 Informations générales	24
1.1 Les moteurs de la série F	24
1.2 Caractéristiques principales	25
1.3 Options principales	25
2. Caractéristiques mécaniques	26
2.1 Formes de construction	26
2.2 Installation et applications	28
2.3 Matériaux, peintures et plaque signalétiques	29
2.4 Tenue des paliers et interfaces de montage	31
2.5 Boîte à bornes	33
3. Schémas de branchement	34
3.1 Moteurs triphasés	34
3.2 Moteurs monophasés	36
3.3 Moteurs-freins	37

D INHALTSVERZEICHNIS

1. Allgemeine Informationen	40
1.1 Motoren Serie F	40
1.2 Hauptmerkmale	41
1.3 Hauptausführungen	41
2. Mechanische Eigenschaften	42
2.1 Bauformen	42
2.2 Installation und Anwendungen	44
2.3 Material, Lackierung und Typenschild	45
2.4 Dichtung der Lager und Montageschnittstellen	47
2.5 Klemmkasten	49
3. Schaltung	50
3.1 Drehstrommotoren	50
3.2 Einphasenmotoren	52
3.3 Selbstbremsende Motoren	53

	Page
4. Données nominales	87
4.1 Moteurs triphasés, 1 vitesse, ventilés	88
4.2 Moteurs triphasés, 1 vitesse, non ventilés	90
4.3 Moteurs triphasés, 2 vitesses, pour usage général (couple constant)	92
4.4 Moteurs triphasés, 2 vitesses, pour machines centrifuges, (couple quadratique)	94
4.5 Moteurs-freins triphasés, 1 vitesse	96
4.6 Moteurs alimentés par inverseur	98
4.7 Moteurs monophasés, 1 vitesse	100
5. Dimensions d'encombrement	103
6. Pièces détachées	117

	Seite
4. Betriebsdaten	87
4.1 Drehstrommotoren, 1 Drehzahl, belüftet	88
4.2 Drehstrommotoren, 1 Drehzahl, unbelüftet	90
4.3 Drehstrommotoren, 2 Drehzahlen, für allgemeinen Gebrauch (konstantes Gegenmoment),	92
4.4 Drehstrommotoren, 2 Drehzahlen, für Zentrifugalmaschinen, (quadratisches Gegenmoment), ..	94
4.5 Selbstbremsende Drehstrommotoren, 1 Drehzahl	96
4.6 Durch Frequenzwandler betriebene Motoren	98
4.7 Einphasenmotoren, 1 Drehzahl,	100
5. Abmessungen	103
6. Ersatzteilliste	117

Flameproof motors

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1. General information

1.1 Series F motors

1.1 Series F ATEX motors

The motors offered in this catalogue comply with standards concerning equipment and protective systems intended for use in potentially explosive atmospheres, in compliance with European Directive 94/9/EC dated 23/3/94, otherwise known as the ATEX directive.

The ATEX directive states that two different certificates of conformity are to be issued.

One is the "EC Standard type" for the homologation of the prototype and the other is for the "Production Quality Assurance".

The Certificates are issued by the Laboratoire Central des Industries Electriques (L.C.I.E) (Notified Body no. 0081).

The conformity certificate numbers are listed in the performance data.

The production quality Guarantee certificate number is:
LCIE 00 ATEX Q8007.

Table 1 A - The series F ATEX

Version	Frame size [mm]	Output range (2 pole) [kW]	Temperature class (*)	Series	
				IIB	IIC
Single speed, three phase (2, 4, 6, 8 poles)	63 - 80	0,12 - 1,50	T5 / T6	F-BTV	F-CTV
Three-phase, 1-speed, unventilated (2, 4, 6, 8 poles)	56 - 80	0,06 - 0,55	T4	F-BST	F-CST
Two speeds, three phase (2/4, 4/6, 4/8 poles) (constant-torque)	63 - 80	0,25 - 0,75	T4	F-BTV	F-CTV
Two speeds, three phase (2/4, 4/8, 4/6, 6/12 poles) (quadratic-torque)	63 - 80	0,25 - 1,10	T4	F-BTV	F-CTV
Three-phase, 1-speed, with brake (2, 4, 6, 8 pôles)	63 - 80	0,12 - 1,10	T4	F-BTVF	F-CTVF
Single phase, (2, 4, 6 poles)	56 63 - 80	0,06 - 0,08 0,12 - 0,75	T4	F-BM F-BMV	F-CM F-CMV

(*) For minimum overheating, the temperature class is indicated in chap. 4 (Performance data).

Table 1 B - Customizable temperature class (referred to an ambient temperature of 40°C)

Frame size	T5	T6
56 - 80	Same power as T4 (*)	Power lower

(*) For single and three-phase, 2-speed motors: power lower than T4, unless otherwise specified in chap. 4.1.

1.2 Main characteristics

1.3 Main options

1.2 Main characteristics

- Explosion-proof motors according to European standard CENELEC EN 50 014, EN 50 018 and EN 50 019 (for terminal box Ex e).
- The European Standards are known and accepted by most Countries world-wide besides CENELEC (European Committee for Electrotechnical Standardization) member countries.
- Three phase and single phase Squirrel Cage Asynchronous Induction motors.
- Totally enclosed, fan cooled, frame IP55 with Terminal box IP65.
- The motors dimensions comply with IEC 60072 standard.
- Power Supply 400V / 50Hz. Three-phase, 1-speed motors, 2-4-6-8 poles, T4, for sizes between 56 and 80, multi-voltage power supply 380-400-420V/ 50 Hz.
- Class F insulation.

- Noise level (dBA)
Noise values measured both loadless and at the rated power supply condition are lower than those set forth by the NF 51-119 Standard (IEC 34-9). We can also provide special applications.
- Terminal Box:
 - available both in a flameproof version, or in an increased safety version
 - large size
 - normally installed on the side opposite the feet, can be oriented right- or leftwards
 - frame separation grid
 - rotating by 90° in 4 positions
 - frame separation grid.
- Motor frame:
 - cooling fins
 - removable feet
 - pad for direct frame connection
 - removable through hole flange
 - front and back lip seal (IP55)
 - earthing screw.
- Rotor:
 - in pressure cast aluminium alloy
 - shaft mounting by ring nut
 - dynamic balanced with feather key fully seated
 - insulating paint.

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1.3 Main options

- Non-standard voltages and frequencies (maximum voltage 690V).
- Motors with special electrical design.
- Motors suitable for frequency inverter drive.
- Special flanges and shafts.
- Double ended shafts.
- Grade R and S balancing.
- Large motors with special bearings (unidirectional).
- Motors protection IP56 - IP65 - IP66.
- Tropicalised motors (relative humidity level H% including between 90 and 98%).
- Motors with bi-metallic detector thermistors, PTC thermistors or PT100 resistive sensors (a second cable gland is supplied).
- Motors with heaters.
- Motors with rain cap.
- Increased safety "e" terminal box, see chap. 2.5.
- Terminal box with special cable entries.
- Motors without terminal box, with cable output.
- Motors with tacho-generator or encoder.
- Motors for areas classified as zone 21 and zone 22 (Dust).
- Motors for special applications available on request.

2. Design features

2.1 Mounting arrangements

2.1 Mounting arrangements

The most commonly used mounting arrangements are shown in the table 2 A.

Other mounting arrangements are available on request.

Standard motors ordered in basic mounting arrangements (universal mounting arrangements)

IM B3, IM B5 or IM B14 can also be operated in the following different mounting positions:

IM B3 in IM B6, IM B7, IM B8, IM V5 or IM V6,
IM B5 in IM V1 or IM V3,
IM B14 in IM V18 or IM V19.

According to the restrictions for explosion-proof electrical machinery it is forbidden that foreign bodies be allowed to fall into the fan cowl.

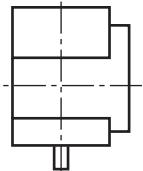
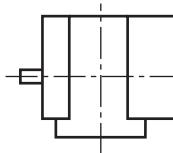
Therefore vertically mounted shaft down motors are fitted with a protective hood over the fan cowl.

In case of vertical arrangement with shaft end up the protection against foreign bodies must be ensured by the working machine or by a suitable cover.

However, the cooling air access may not be hindered by this cover.

Table 2 A

Foot-mounted motor



CEI 2-14

IEC 34-7 code I

IEC 34-7 code II

B3

IM B3

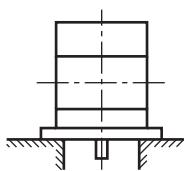
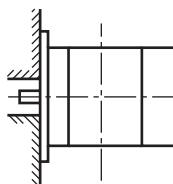
IM 1001

V5

IM V5

IM 1011

Flange-mounted motor:
large flange,
clearance fixing holes



Foot and flange-mounted motor:
large flange, clearance fixing
holes

B5

IM B5

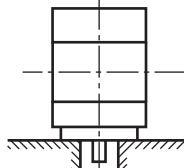
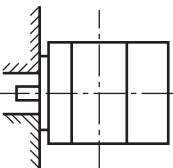
IM 3001

V1

IM V1

IM 3011

Flange-mounted motor:
small flange,
tapped fixing holes



Foot and flange-mounted motor:
with small flange, tapped fixing
holes

B14

IM B14

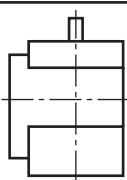
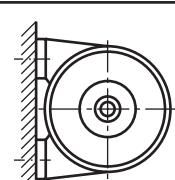
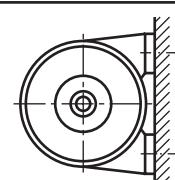
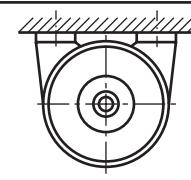
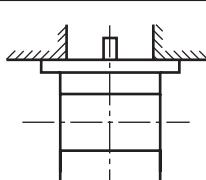
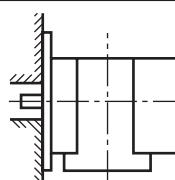
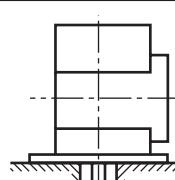
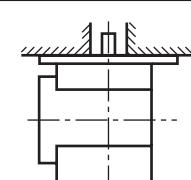
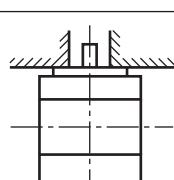
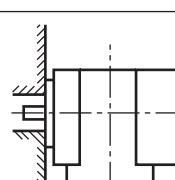
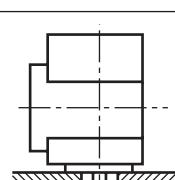
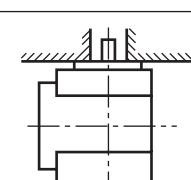
IM 3601

V18

IM V18

IM 3611

2.1

			
V6 IM V6 IM 1031	B6 IM B6 IM 1051	B7 IM B7 IM 1061	B8 IM B8 IM 1071
			
V3 IM V3 IM 3031	B35 IM B35 IM 2001	V15 IM V15 IM 2011	V36 IM V36 IM 2031
			
V19 IM V19 IM 3631	B3/B14 IM B34 IM 2101	V5/V18 IM V58 IM 2111	V6/V19 IM V69 IM 2131

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2.2 Installation and application

2.2.1 Thermal and environmental specifications

2.2.2 Harsh industrial environments

2.2.1 Thermal and environmental specifications

Operating conditions

Except for some particular notes, the specifications of the motors of chap. 4 (Performance data) correspond to the operating condition S1 (uninterrupted operation according to IEC 34-1). Special requirements for other approved conditions of use can be met.

Explosion groups and temperature classes

Except for some particular notes, motors are available in Group IIB or IIC. The standard temperature class with which motors are supplied is T4, unless otherwise specified in chap. 4.1 (Performance data). Motors class T5 or T6 are also available on request.

Ambient temperature and altitude

The control of surface temperatures within the limits set forth by the temperature class entails the use at an ambient temperature which should be less than or equal to 40° C and at an altitude lower than or equal to 1000 m (according to NF C 51-111). The minimum ambient temperature for using the standard motors of the choice chart is of -20° C.

Further information on operating conditions not complying with these limits is available on request.

Thermal limits of the winding insulators

The winding insulators are made with class F materials.

Humidity

The standard motors of the choice chart can be used up to a relative humidity of H% = 90.

Winding overheating

The overheating of motor winding described in chap. 4 (Performance data) is less than or equal to 80 K.

2.2.2 Harsh industrial environments

For harsh industrial environments (among which chemical industry, raw materials industry, and energy production), proposes a hardened model according to the German standard VIK (Vereinigung Industrielle Kraftwirtschaft).

The corresponding option, called "VIK", relates to Ex de IIC motors.

Compared to the standard, the construction differences are:

- improved safety Ex e large-sized terminal box, provided with screw studs, with adjustable cable output that prevents having to move the board.
- PTC thermal protection included,
- stainless steel nuts, bolts and nameplate,
- two-layer epoxy resin outside finish, 2 x 40 µm,
- inside finish: insulating paint on rotor and winding coil heads,
- additional nameplate in the terminal box,
- rain cap.

2.3 Materials, painting and nameplate

2.3.1 Materials and painting

2.3.1 Materials and painting

Materials

Table 2 B - Materials of the main components

Frame size	56 - 80
Frame Endshields Terminal box Fan cover	Standard aluminium alloy
Fan	Antistatic composite plastic material or aluminium
Shaft	Acier XC 48
Stator	Rigidly assembled low-loss metal sheets
Winding	Class of insulation F or H
Bolts and screws	Galvanized steel; stainless steel is also available on request

Surface treatment specifications

Standard finish:

No treatments, natural aluminium-coloured motor.

Recommended for use:

- in damp places or with water vapour
- in chemical or not very aggressive environments
- with motor surface temperatures from -20° C to +130° C.

Optional finish:

- Primer:
 - degreasing
 - one phosphating layer of about 20 µm (compatible with any further finish, except for epoxy resin)

- Polyurethane finish
 - degreasing
 - one modified vinyl wash primer layer of about 10 µm
 - one glossy of blue (RAL 5010) two-component polyamide epoxy resin layer (of about 30 µm)
 - nuts and bolts in stainless steel.

Recommended for use:

- in wet places, with water vapour or with poorly saline air
- in fairly harsh industrial environment with occasional ejection of aggressive chemical products.
- with motor surface temperatures from -20° C to +130° C.

- Epoxy resin finish

- degreasing
- one modified vinyl wash primer layer of about 10 µm
- one glossy of blue (RAL 5010) two-component polyamide epoxy resin (of about 25 µm)
- stainless steel nuts and bolts.

Recommended for use:

- in wet places, with water vapour or with saline air
- in harsh industrial environment with aggressive chemical products.
- with motor surface temperatures from -20° C to +130° C.

- Special finishes can be provided.

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2.3

2.3.2 Nameplate

2.3.2 Nameplate

Identification

Motors are identified by a nameplate with the markings described below:

Table 2 C - Markings prescribed by the current regulation

Markings	Meaning
CE	CE mark
	Specific explosion protection related mark
Ex	Symbol of safety equipment meeting a protection class
d	"Flameproof enclosure" protection class
de	"d" motor and "e" terminal box
II	Explosion group
B - C	Enclosure group
T4 - T5 - T6	Ignition temperature class
LCIE N° ...	CE type certificate no

Table 2 D - Other markings

Markings	Meaning
ATAV	Commercial mark
CEMP FRANCE	Manufacturer's name and address
NONANCOURT	
FRANCE	
Type ...	Motor's commercial reference
N° ./.	Serial no./Year of manufacture
kg ...	Motor's weight
kW ...	Motor's power
Volts ...	Delta voltage / star voltage
Amp ...	Delta current / star current
Cos. ...	Power factor
Hz ...	Rated frequency
min ⁻¹ ...	Rpm
S ...	Operating conditions
Cl.	Insulation class
IP	Protection class
°C amb ...	Maximum ambient temperature
Vis: Cl.	Nuts and bolts resistance class

Nameplate

The nameplate, made of stainless steel, is secured to the frame with grooved nails.



Fig. 2 A - Nameplate

2.4 Bearing seal and mounting interfaces

2.4.1 Bearings

2.4.2 Mechanical specifications

2.4.1 Bearings

Standard motors are provided with ball bearings with deep and sealed grooves.
Bearings on the driving end are locked.

Bearings used:

Frame size (mm)	Bearing, driving end, type	Bearing, non driving end, type
56	6202 ZZ	6200 ZZ
63-71	6203 2RS	6203 2RS
80	6005 2RS	6004 2RS

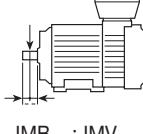
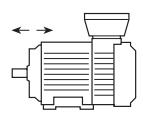
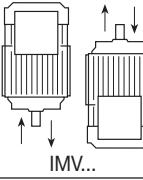
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2.4.2 Mechanical specifications

Loads applicable on the shaft end

The maximum dynamic loads that can be applied (N) for an operating cycle of L10h = 25,000 hours are as follows:

Table 2 E

Stress direction		Stress (N)											
		2 poles Frame size			4 poles Frame size			6 poles Frame size			8 poles Frame size		
		56	63-71	80	56	63-71	80	56	63-71	80	56	63-71	80
	↓	350	480	510	460	610	650	540	710	740	600	780	820
	↔	240	350	370	330	440	470	370	510	540	420	560	590
	↓	220	330	330	310	420	430	350	490	500	400	540	550
		250	370	410	340	460	510	400	530	580	440	580	630

2.4

2.4.3 Special manufactures

2.4.3 Special manufactures

Motor mounting interfaces

In addition to the standard mounting arrangements shown in chapter 2.1, motors are also available mounted with pads for anchorage to a pipe or ventilation system.

Special flanges

Motors are available with flanges other than standard flanges which comply with NFC 51-120 regulations, with through holes (B5) or threaded holes (B14).

The table below, in addition to the figures given in chapter 5 (Overall dimensions), gives the measurements of the available flanges.

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Table 2 F

Frame size	Structural form	Flange	Dimensions [mm]				
			Ø M	Ø N	Ø P	Ø TLB	Ø TTB
56	B5	FF85	85	70	105	7.0	---
	B5	FF115	115	95	140	9.0	---
	B14	FT75	75	60	90	---	M5
63	B5	FF100	100	80	120	7.0	---
	B14	FT65	65	50	85	---	M5
	B5	FF130	130	110	160	9.0	---
	B14	FT85	85	70	105	---	M6
71	B5	FF100	100	80	120	7.0	---
	B14	FT65	65	50	85	---	M5
	B5	FF115	115	95	140	9.0	---
	B14	FT75	75	60	90	---	M5
	B5	FF165	165	130	200	11.0	---
80	B5	FF115	115	95	140	9.0	---
	B5	FF130	130	110	160	9.0	---
	B14	FT85	85	70	105	---	M6
	B5	FF215	215	180	250	13.5	---

2.5 Terminal box

2.5 Terminal box

Wiring with "d" terminal box

- Terminal box is arranged according to the feet (for IM1... or IM2... mounting).

The terminal box axis is normally perpendicular to the laying surface.

Optionally, it can be supplied for "right" or "left" mount according to a front view of the motor, main shaft end side (without surcharge).

Note: the terminal box position can only be changed at the factory.

Cable output position

In standard executions, the cable output is on the right (looking at the motor from the shaft side).

All other options must be requested at the time of the order using the same reference (upper, lower, left, right, front and rear cable output).

"d" cable gland

In "Ex d" motors, the cable gland aids the flameproof enclosure closing.

The user MUST choose a cable with a diameter on the sealing membrane side corresponding to the cable gland specification, as well as use a device for hooking the cable on the cable external diameter side.

The motors are supplied with an Ex d cable gland (optional) with cable hook.

On the sealing membrane side, the cable must have a diameter of 11 ± 0.5 mm.

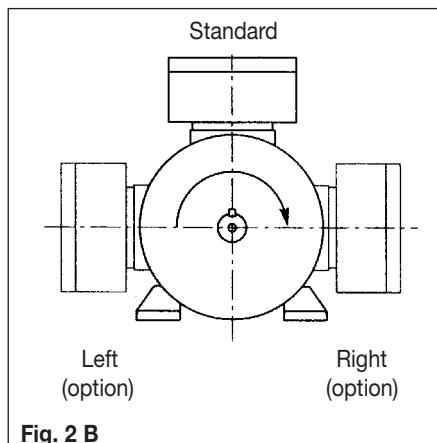
Options for cable gland "d"

- terminal box supplied without cable gland, with threaded hole ISO M
- gasket Ø 9 or 13 mm for cable gland
- additional cable gland (standard model) or additional hole
- cable gland with shielding extension
- cable gland for armoured cable or special cable gland.

Options for terminal box "e"

- Increased safety Ex e terminal box:
- available for ventilated three-phase motors with 63 to 80 HA
- IP55 (IP65 optional); maximum voltage 690V, waterproof connection system, removable between terminal box and frame supplied with an Ex e cable gland (optional) for a non-armoured cable with 7.5 to 13 mm diameter (M20 ISO). Cable gland option: contact us for further information.

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Other options

- Motors without terminal board.
- Motor with cable output:
 - available for the three-phase series
 - power supply cable (4 or 7 wires) connected at the factory
 - small overall dimensions, thanks to the elimination of the terminal box on the ventilated three-phase motors
 - dimensions and further features: contact us for further information.
- Manual control on/off switch built in the terminal box (only HA 63-71-80).

3. Connecting diagrams

3.1 Three-phase motors

3.1 Three-phase motors

The winding of standard motors can be connected together to form two different connections:

- star connection
- delta connection

Star connection

Connecting together the W2, U2, V2 terminals (star point) and connecting to the mains the U1, V1, W1 terminals a star connection is obtained.

The phase current I_{ph} and the phase voltage U_{ph} are the following:

$$I_{ph} = I_n$$

$$U_{ph} = U_n / \sqrt{3}$$

where I_n the line current and U_n is the line voltage.

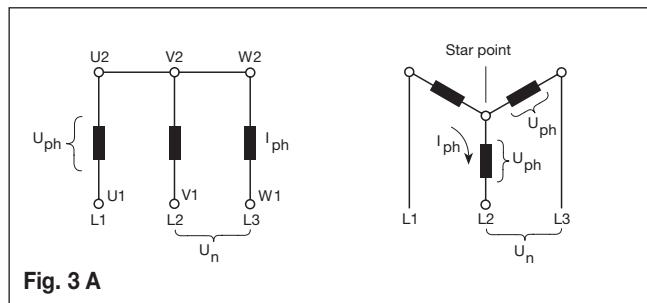


Fig. 3 A

Delta connection

Connecting the end of each winding to the beginning of the next winding a delta connection is obtained.

The phase current I_{ph} and the phase voltage U_{ph} are the following:

$$I_{ph} = I_n / \sqrt{3}$$

$$U_{ph} = U_n$$

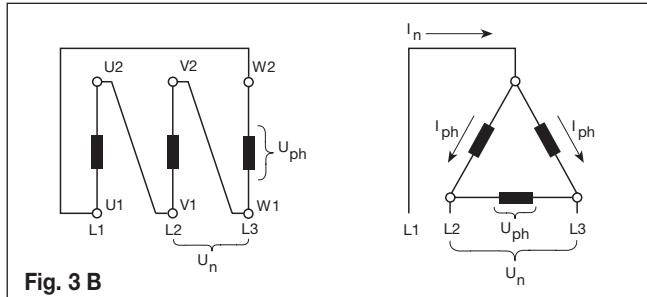


Fig. 3 B

Star - Delta starting

The star-delta starting is an easy way to reduce the starting current and starting torque.

Motors can be started with the star-delta starting method whenever the supply voltage correspond to the rated voltage of the motors in delta connections.

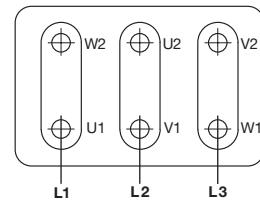
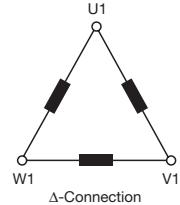
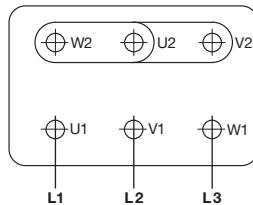
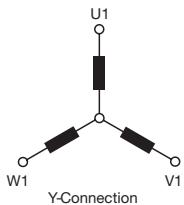
Two speed motors

Standard two speed motors are designed for only one rated voltage and for direct starting.

When the speed ratio is 1/2 the standard motors have one winding (Dahlander connection). For the other ratios motors have two different windings.

3.1

Connection for single speed motors:

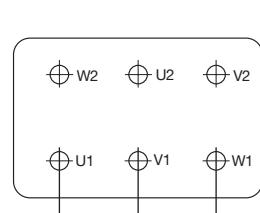
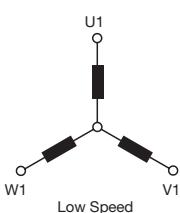
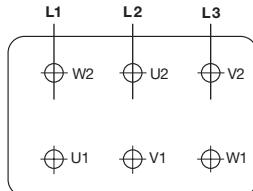
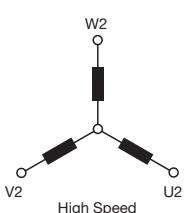


Number of pole: 2, 4, 6, 8

Synchronous speed at 50 Hz: 3000, 1500, 1000, 750

GB

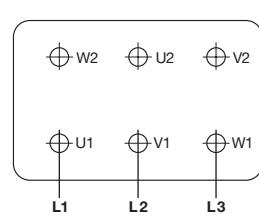
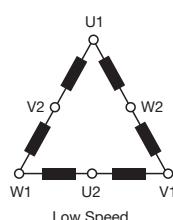
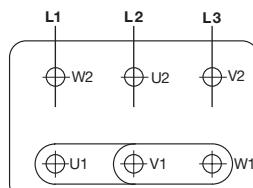
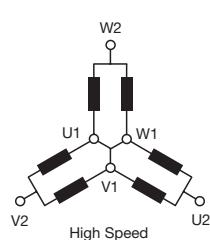
Two separate windings for two speed motors:



Number of pole: 2/6, 2/8, 4/6, 6/8

Synchronous speed at 50 Hz: 3000/1000, 3000/750, 1500/1000, 1000/750.

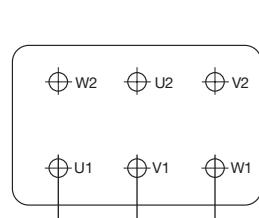
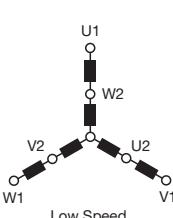
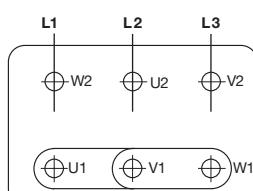
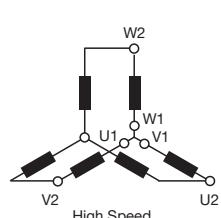
Dahlander system for two speed motors, constant torque:



Number of pole: 2/4, 4/8

Synchronous speed at 50 Hz: 3000/1500, 1500/750.

Dahlander system for two speed motors, quadratic torque:



Number of pole: 2/4, 4/8

Synchronous speed at 50 Hz: 3000/1500, 1500/750.

Fig. 3 C - Three phase motors connecting diagrams.

3.2 Single phase motors

3.2 Single phase motors

GB

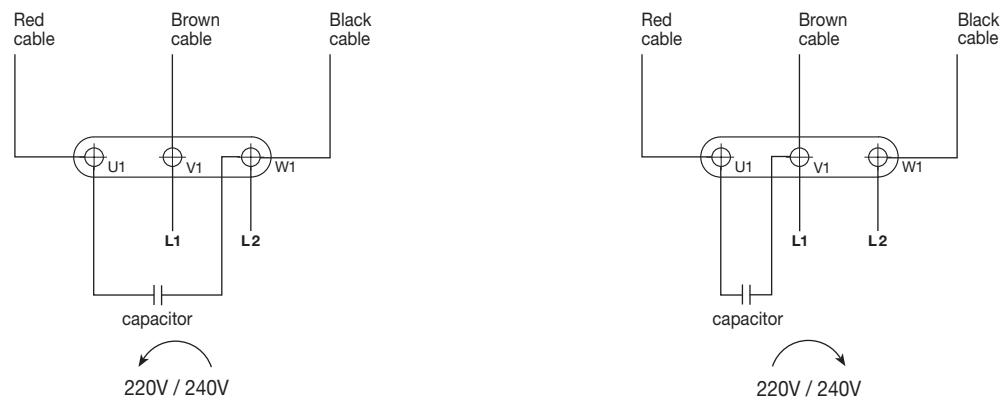


Fig. 3 D - Single-phase motor wiring diagrams F56

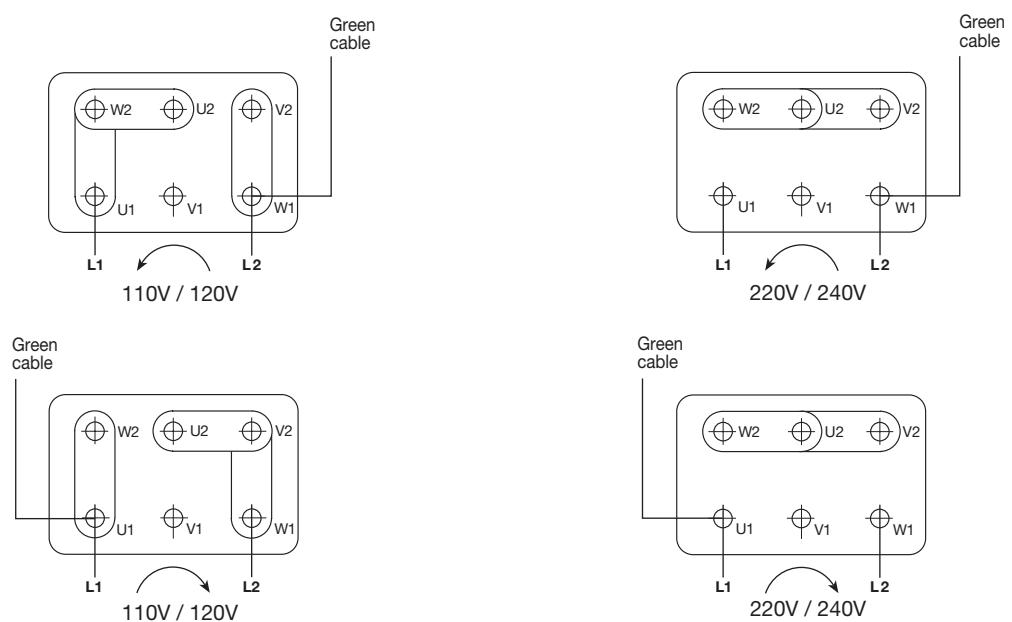


Fig. 3 E - Single-phase motor wiring diagrams F63-80

3.3 Self-braking motors - Groups IIB and IIC (BTVF and CTVF)

- 3.3.1 Brake power supply
- 3.3.2 Brake operating limits
- 3.3.3 Adjustments

3.3.1 Brake power supply

Figures show the various power supply diagrams of the brake, with or without the "reduced response time" option.

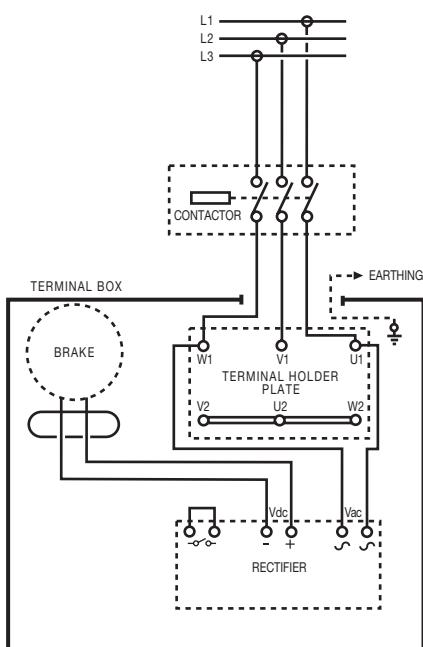


Fig. 3 F - Standard response time
Brake power supply parallel with the motor power supply

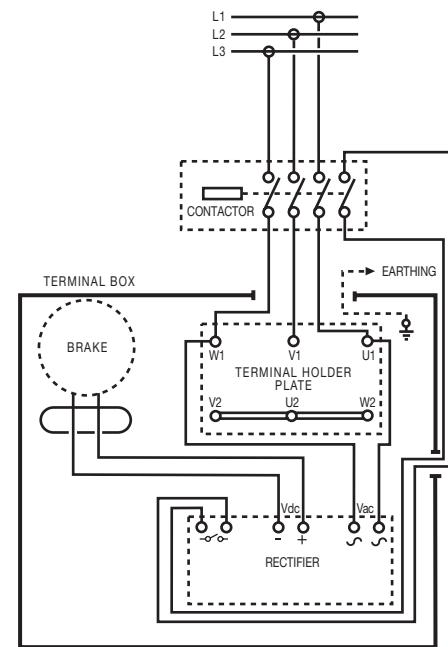


Fig. 3 G - Reduced response time
Brake power supply parallel with the motor power supply

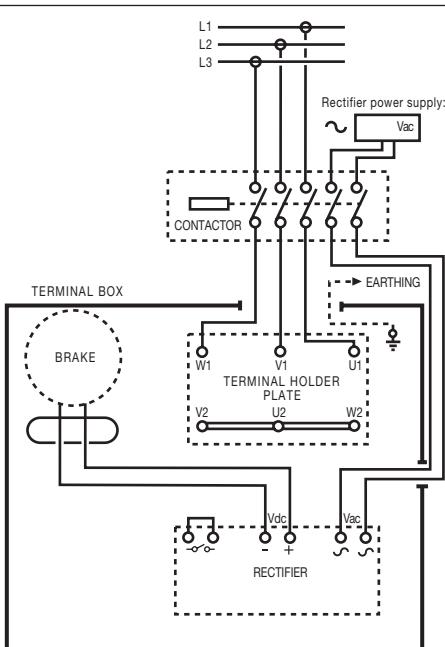


Fig. 3 H - Standard response time
Independent brake power supply

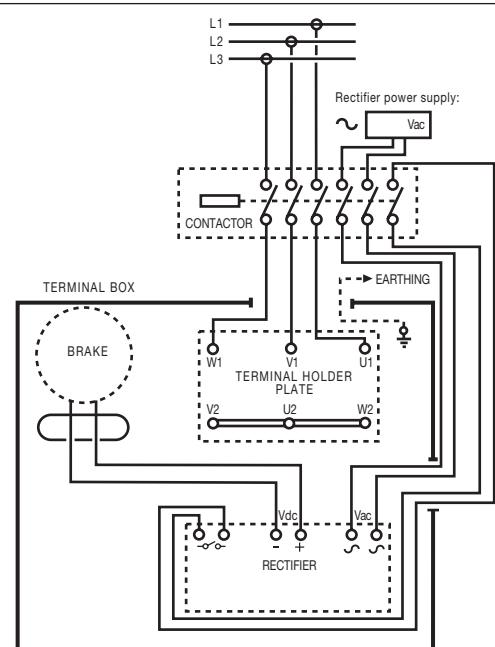


Fig. 3 I - Reduced response time
Independent brake power supply

GB

3.3

- 3.3.1 Brake power supply**
- 3.3.2 Brake operating limits**
- 3.3.3 Adjustments**

3.3.1 Brake power supply

In all cases, the brake works with uninterrupted voltage supplied by a rectifier installed on the terminal box of the motor supplied.

Two options are available for the alternative sinusoidal power supply of the rectifier:

Power supply parallel with the motor power supply phases

This is the simplest and most common way of using a brake.

In this configuration, it is not possible to set up two-speed motors or use a motor with a frequency converter.

Typical response times for the beginning of the lock are:

F63-71 : 32 ms ; F80 : 140 ms

Option: reduced response time.

Typical response times for the beginning of the lock are:

F63-71 : 10 ms ; F80 : 35 ms.

Independent power supply

The user must provide for an alternative sinusoidal power supply (230 or 400V $\pm 10\%$). This connection also allows using the motor with a frequency converter, but it requires an additional cable gland.
Option: reduced response time.

3.3.2 Brake operating limits

The energy dissipated in the gasket over successive braking cycles should neither cause the brake to exceed the motor temperature class nor lead to early wear. Braking/hour, driving shaft inertia and motor speed should be indicated when a motor has to be chosen.

3.3.3 Adjustments

Unless otherwise stated, motors are supplied with one of the braking torque values specified in Chapter 4.5 (Performance Data). However we have a procedure for adjusting or replacing the gasket if this is required during the use of the brake.

4. Performance data

- 4.1 Three-phase, 1-speed, ventilated motors
- 4.2 Three-phase, 1-speed, unventilated motors
- 4.3 Three-phase motors, 2 speeds, for general purpose (constant torque)
- 4.4 Three-phase motors, 2 speeds, for centrifugal machines (quadratic torque)
- 4.5 Three-phase, 1-speed, self-braking motors
- 4.6 Motors driven by inverter
- 4.7 Single-phase motors, 1 speed

4. Données nominales

- 4.1 Moteurs triphasés, 1 vitesse, ventilés
- 4.2 Moteurs triphasés, 1 vitesse, non ventilés
- 4.3 Moteurs triphasés, 2 vitesses, pour usage général (couple constant)
- 4.4 Moteurs triphasés, 2 vitesses, pour machines centrifuges (couple quadratique)
- 4.5 Moteurs-freins triphasés, 1 vitesse
- 4.6 Moteurs avec alimentation par inverseur
- 4.7 Moteurs monophasés, 1 vitesse

4. Betriebsdaten

- 4.1 Drehstrommotoren, 1 Drehzahl, belüftet
- 4.2 Drehstrommotoren, 1 Drehzahl, unbelüftet
- 4.3 Drehstrommotoren, 2 Drehzahlen, für allgemeinen Gebrauch (konstantes Gegenmoment)
- 4.4 Drehstrommotoren, 2 Drehzahlen, für Zentrifugalmaschinen (quadratisches Gegenmoment)
- 4.5 selbstbremsende Drehstrommotoren, 1 Drehzahl
- 4.6 Motoren für die Versorgung durch elektronische Frequenzumrichter
- 4.7 Einphasenmotoren, 1 Drehzahl

4. Datos nominales

- 4.1 Motores trifásicos, 1 velocidad, ventilados
- 4.2 Motores trifásicos, 1 velocidad, no ventilados
- 4.3 Motores trifásicos, 2 velocidades, para uso general (par constante)
- 4.4 Motores trifásicos, 2 velocidades, para máquinas centrifugas (par cuadrático)
- 4.5 Motores con freno trifásicos, 1 velocidad
- 4.6 Motores con alimentación por medio de inverter
- 4.7 Motores monofásicos, 1 velocidad

4. Dati nominali

- 4.1 Motori trifase, 1 velocità, ventilati
- 4.2 Motori trifase, 1 velocità, non ventilati
- 4.3 Motori trifase, 2 velocità, per uso generale (coppia costante)
- 4.4 Motori trifase, 2 velocità, per macchine centrifughe (coppia quadratica)
- 4.5 Motori autoreversori trifase, 1 velocità
- 4.6 Motori con alimentazione a mezzo inverter
- 4.7 Motori monofase, 1 velocità

GB	Three-phase ventilated motors		Speed		Rated data at		direct on line start										3000	rpm	GB
F	Moteurs triphasés ventilés		Vitesse		Données nominales à												1500	tours/min	F
D	Drehstrommotoren belüftet		Drehzahl		Betriebsdaten bei												1000	U/min	D
E	Motores trifásicos ventilados		Velocidad		Datos nominales												rev/min	E	
I	Motori trifase ventilati		1		Velocità		Dati nominali a												750 giri/min I
	Motor type		Rated output	Speed	Current	Efficiency	Power factor	Torque	Starting current	Starting torque	Maximum torque	Sound pressure	Moment of inertia	Mass	LCIE Certificates			Class T	
	Moteur type		Puissance	Vitesse	Intensité	Rendement	Facteur de puissance	Couple	Intensité démarrage	Couple démarrage	Couple maximal	Pression sonore	Moment d'inertie	Masse	LCIE Certificat			Classe T	
	Motor Typ		Leistung	Drehzahl	Strom	Wirkungsgrad	Leistungsfaktor	Moment	Anlaufstrom	Anlaufmoment	Kippmoment	Gerauschwerte	Trägheitsmoment	Masse	LCIE Konformitäts-Bescheinigung			Klasse T	
	Tipo de motor		Potencia proporcionada	Velocidad	Corriente	Rendimiento	Factor de potencia	Par	Corriente de arranque	Par de arranque	Par máximo	Presión acústica	Momento de inercia	Peso	Certificados LCIE			Clase T	
	Tipo motore		Potenza resa	Velocità	Corrente	Rendimento	Fattore potenza	Coppia	Corrente avviamento	Coppia avviamento	Coppia massima	Pressione sonora	Momento d'inerzia	Massa	Certificato LCIE			Classe T	
IIB	IIC		P _n [kW]	n [1/min]	I _n * [A]	η [%]	cos φ	Mn [Nm]	Ia/I _n	Ma/Mn	Mm/Mn	L _p [dB(A)]	J▼ [kgm ²]	m [kg]	IIB - IIC				
	Ex d	Ex d													Ex d				
F 63 BTV A2	F 63 CTV A2	0.12	2850	0.40	54	0.89	0.40		5.3	2.6	2.8	62	0.0007	7.5	00 ATEX 6036			4	
F 63 BTV A2	F 63 CTV A2	0.18	2780	0.56	53	0.88	0.61		4.0	2.2	2.4	62	0.0011	7.5	00 ATEX 6036			4	
F 63 BTV A2	F 63 CTV A2	0.25	2840	0.70	63	0.89	0.84		5.7	3.0	3.3	62	0.0011	7.5	00 ATEX 6036			4	
F 71 BTV B2	F 71 CTV B2	0.37	2820	0.95	65	0.90	1.24		5.0	2.3	2.4	64	0.0011	9.5	00 ATEX 6036			4	
F 71 BTV C2	F 71 CTV C2	0.55	2790	1.35	67	0.90	1.88		4.7	2.1	2.3	64	0.0012	10.0	00 ATEX 6036			4	
F 80 BTV A2▲	F 80 CTV A2▲	0.37	2945	0.95	74	0.79	1.20		10.0	5.0	5.4	66	0.0013	14.0	00 ATEX 6037			4	
F 80 BTV A2▲	F 80 CTV A2▲	0.55	2920	1.20	80	0.85	1.80		8.0	4.0	4.3	66	0.0013	14.0	00 ATEX 6037			4	
F 80 BTV A2	F 80 CTV A2	0.75	2925	1.80	79	0.77	2.40		7.0	4.0	4.4	66	0.0013	14.0	00 ATEX 6037			4	
F 80 BTV B2	F 80 CTV B2	1.10	2885	2.30	81	0.86	3.60		6.0	2.8	3.0	66	0.0013	14.0	00 ATEX 6037			4	
F 80 BTV C2▲	F 80 CTV C2▲	1.50	2905	3.40	80	0.82	4.90		7.9	3.6	3.8	66	0.0018	17.0	00 ATEX 6037			4	
F 63 BTV A4	F 63 CTV A4	0.12	1435	0.55	54	0.58	0.80		4.5	4.7	4.9	55	0.0007	7.5	00 ATEX 6036			4	
F 63 BTV A4	F 63 CTV A4	0.18	1405	0.65	60	0.73	1.20		3.9	3.0	3.2	55	0.0007	7.5	00 ATEX 6036			4	
F 71 BTV B4	F 71 CTV B4	0.25	1425	0.75	65	0.77	1.60		4.6	2.8	3.0	56	0.0011	9.0	00 ATEX 6036			4	
F 71 BTV B4	F 71 CTV B4	0.37	1430	1.15	66	0.70	2.40		4.8	2.6	2.8	56	0.0011	9.0	00 ATEX 6036			4	
F 80 BTV A4▲	F 80 CTV A4▲	0.37	1450	1.30	64	0.67	2.40		6.3	4.4	4.6	56	0.0023	12.0	00 ATEX 6037			4	
F 80 BTV A4	F 80 CTV A4	0.55	1445	1.45	78	0.70	3.60		5.7	3.3	3.6	56	0.0023	12.0	00 ATEX 6037			4	
F 80 BTV B4	F 80 CTV B4	0.75	1415	1.85	80	0.82	5.00		4.7	2.2	2.4	56	0.0023	12.0	00 ATEX 6037			4	
F 80 BTV C4▲	F 80 CTV C4▲	1.10	1430	2.70	77	0.76	7.30		4.9	2.6	2.8	56	0.0029	14.0	00 ATEX 6037			4	
F 63 BTV A6	F 63 CTV A6	0.12	930	0.55	50	0.61	1.20		2.7	1.6	1.7	52	0.0011	7.5	00 ATEX 6036			4	
F 71 BTV B6	F 71 CTV B6	0.18	925	0.90	49	0.60	1.90		2.3	1.5	1.6	52	0.0012	9.5	00 ATEX 6036			4	
F 71 BTV B6	F 71 CTV B6	0.25	890	0.90	53	0.77	2.70		2.5	1.4	1.5	52	0.0014	10.0	00 ATEX 6036			4	
F 80 BTV A6▲	F 80 CTV A6▲	0.25	950	0.90	60	0.62	2.50		4.0	2.4	2.6	54	0.0023	12.0	00 ATEX 6037			4	
F 80 BTV A6	F 80 CTV A6	0.37	930	1.10	65	0.74	3.80		3.0	1.6	1.8	54	0.0023	12.0	00 ATEX 6037			4	
F 80 BTV B6	F 80 CTV B6	0.55	920	1.75	68	0.70	5.60		3.8	2.2	2.4	54	0.0029	14.0	00 ATEX 6037			4	
F 80 BTV C6▲	F 80 CTV C6▲	0.75	880	2.15	64	0.78	8.10		2.9	1.5	1.7	54	0.0029	14.0	00 ATEX 6037			4	
F 63 BTV B8	F 63 CTV B8	0.075	660	0.35	47	0.57	1.10		2.0	1.3	1.3	44	0.0008	9.0	00 ATEX 6036			4	
F 71 BTV C8	F 71 CTV C8	0.12	675	0.60	45	0.63	1.70		2.5	2.2	2.3	46	0.0014	10.0	00 ATEX 6036			4	
F 71 BTV C8▲	F 71 CTV C8▲	0.18																	

GB	Three-phase unventilated motors	Speed	Rated data at		direct on line start	3000 rpm	GB									
F	Moteurs triphasés non ventilés	Vitesse	Données nominales à		démarrage direct	1500 tours/min	F									
D	Drehstrommotoren unbelüftet	Drehzahl	Betriebsdaten bei	400 V	Direkteinschaltung	U/min	D									
E	Motores trifásicos no ventilados	Velocidad	Datos nominales	50 Hz	arranque directo	rev/min	E									
I	Motori trifase non ventilati	Velocità	Dati nominali a		avviamento diretto	giri/min	I									
4.	4.2	1														
	Motor type	Rated output	Speed	Current	Efficiency	Power factor	Torque	Starting current	Starting torque	Maximum torque	Sound pressure	Moment of inertia	Mass	LCIE Certificates	Class T	
	Moteur type	Puissance	Vitesse	Intensité	Rendement	Facteur de puissance	Couple	Intensité démarrage	Couple démarrage	Couple maximal	Pression sonore	Moment d'inertie	Masse	LCIE Certificat	Classe T	
	Motor Typ	Leistung	Drehzahl	Strom	Wirkungsgrad	Leistungsfaktor	Moment	Anlaufstrom	Anlaufmoment	Kippmoment	Gerauschwerte	Trägheitsmoment	Masse	LCIE Konformitäts-Bescheinigung	Klasse T	
	Tipo de motor	Potencia proporcionada	Velocidad	Corriente	Rendimiento	Factor de potencia	Par	Corriente de arranque	Par de arranque	Par máximo	Presión acústica	Momento de inercia	Peso	Certificados LCIE	Clase T	
	Tipo motore	Potenza resa	Velocità	Corrente	Rendimento	Fattore potenza	Coppia	Corrente avviamento	Coppia avviamento	Coppia massima	Pressione sonora	Momento d'inerzia	Massa	Certificato LCIE	Classe T	
	IIB	IIC	Pn	n	I _n *	η	cos φ	Mn	Ia/I _n	Ma/Mn	Mm/Mn	Lp	J▼	m	IIB - IIC	
	Ex d	Ex d	[kW]	[1/min]	[A]	[%]		[Nm]				[dB(A)]	[kgm ²]	[kg]	Ex d	
F 56 BST A2*	F 56 CST A2*	0.06	2825	0.27	53	0.69	0.20		4.0	5.0	5.2	51	0.00012	4.5	00 ATEX 6035	4
F 56 BST A2*	F 56 CST A2*	0.09	2760	0.31	60	0.76	0.30		3.5	4.0	4.2	51	0.00012	4.5	00 ATEX 6035	4
F 63 BST A2		0.12	2850	0.40	54	0.89	0.40		5.3	2.6	2.8	55	0.00060	6.5	00 ATEX 6036	4
F 63 BST A2		0.18	2780	0.56	53	0.88	0.60		4.0	2.2	2.4	55	0.00060	6.5	00 ATEX 6036	4
F 63 BST B2		0.25	2840	0.70	63	0.89	0.84		5.7	3.0	3.2	55	0.00070	7.5	00 ATEX 6036	4
F 71 BST C2		0.37	2880	0.95	71	0.80	1.20		6.0	4.0	4.2	58	0.00070	8.0	00 ATEX 6036	4
F 80 BST A2▲	F 80 CST A2▲	0.37	2945	0.95	71	0.79	1.20		8.0	4.0	4.2	60	0.0012	12.0	00 ATEX 6037	4
F 80 BST A2▲	F 80 CST A2▲	0.55	2920	1.20	78	0.85	1.80		8.0	4.0	4.2	60	0.0012	12.0	00 ATEX 6037	4
F 56 BST A4*	F 56 CST A4*	0.06	1420	0.37	50	0.50	0.40		3.5	4.0	4.2	51	0.0002	4.5	00 ATEX 6035	4
F 56 BST A4*	F 56 CST A4*	0.09	1370	0.40	57	0.62	0.60		3.0	3.5	3.7	51	0.0002	4.5	00 ATEX 6035	4
F 63 BST A4		0.12	1450	0.50	60	0.64	0.80		5.7	5.4	5.6	55	0.0006	6.5	00 ATEX 6036	4
F 63 BST A4		0.18	1430	0.58	65	0.73	1.20		5.0	3.5	3.7	55	0.0006	6.5	00 ATEX 6036	4
F 71 BST B4		0.25	1425	0.75	65	0.77	1.60		5.0	2.8	2.9	55	0.0007	7.5	00 ATEX 6036	4
F 71 BST C4		0.37*	1390	1.00	68	0.78	2.50		4.5	2.3	2.5	58	0.0008	8.0	00 ATEX 6036	4
F 80 BST A4▲	F 80 CST A4▲	0.37	1450	1.30	61	0.67	2.40		6.6	4.0	4.2	60	0.0021	11.0	00 ATEX 6037	4
F 80 BST B4	F 80 CST B4	0.55	1445	1.50	74	0.72	3.60		5.5	2.8	3.0	60	0.0021	11.0	00 ATEX 6037	4
F 80 BST C4	F 80 CST C4	0.75	1410	1.90	75	0.78	5.00		5.0	3.4	3.5	60	0.0027	14.0	00 ATEX 6037	4
F 56 BST A6"	F 56 CST A6"	0.06	890	0.35	43	0.72	0.60		2.6	2.9	2.9	51	---	---	00 ATEX 6035	4
F 63 BST B6		0.12	930	0.55	55	0.63	1.20		2.7	1.6	1.7	55	0.0007	7.5	00 ATEX 6036	4
F 71 BST B6		0.18	925	0.90	48	0.60	1.80		2.7	2.5	2.6	55	0.0009	8.0	00 ATEX 6036	4
F 80 BST A6▲	F 80 CST A6▲	0.25	950	0.90	65	0.62	2.50		3.6	2.4	2.6	60	0.0021	11.0	00 ATEX 6037	4
F 80 BST B6	F 80 CST B6	0.37	930	1.10	65	0.74	3.80		3.0	1.6	1.7	60	0.0021	11.0	00 ATEX 6037	4
F 80 BST C6	F 80 CST C6	0.55	920	1.75	66	0.70	5.60		3.3	2.2	2.4	60	0.0027	12.0	00 ATEX 6037	4
F 63 BST B8		0.075	650	0.40	45	0.60	1.10		2.0	1.3	1.4	51	0.0007	6.5	00 ATEX 6036	4
F 71 BST C8		0.12	675	0.60	46	0.63	1.70		2.0	1.6	1.7	55	0.0011	7.5	00 ATEX 6036	4
F 80 BST B8	F 80 CST B8	0.18	705	0.95	55	0.50	2.40		3.0	2.5	2.7	60	0.0021	11.0	00 ATEX 6037	4
F 80 BST B8	F 80 CST B8	0.25	690	1.05	57	0.60	3.50		2.6	1.7	1.9	60	0.0021	11.0	00 ATEX 6037	4
F 80 BST C8▲	F 80 CST C8▲	0.37	705	1.40	66	0.59	5.00		3.0	1.8	1.9	60	0.0027	12.0	00 ATEX 6037	4

▲ non-standard power
puissance non normalisée
nicht genormte Leistung
potencia no normalizada
potenza non normalizzata

◆ S1 service only in ambient air flow at 40°C
Service S1 uniquement dans un flux d'air ambiant à 40°C
Service S1 nur bei Raumluftstrom von 40°C
Servicio S1 únicamente en flujo de aire ambiente a 40°C
Servizio S1 unicamente in flusso d'aria ambiente a 40°C

• Short
Court
Kurz
Corto
Corto

■ Long
Long
Lang
Largo
Lungo

* I' n = I_n · $\frac{400}{U'}$ (I' n = current at U' Volt);
(I' n = intensité à U' Volt);
(I' n = Strom mit U' Volt);
(I' n = corriente de U' Voltios);
(I' n = corrente a U' Volt);

$$\nabla J = \frac{PD^2}{4}$$

GB	Three-phase motors		Speed		Rated data at		direct on line start		for general purpose (constant torque)								rpm	GB
F	Moteurs triphasés		Vitesse		Données nominales à		démarrage direct		pour usage général (couple constant)								tours/min	F
D	Drehstrom Motoren		Drehzahl		Betriebsdaten bei		Direkteinschaltung		für allgemeinen Gebrauch (konstantes Gegenmoment)								U/min	D
E	Motores trifásicos		Velocidad		Datos nominales		arranque directo		para uso general (par constante)								rev/min	E
I	Motori trifase		Velocità		Dati nominali a		avviamento diretto		per uso generale (coppia costante)								giri/min	I
4.	2		Rated output	Speed	Current	Efficiency	Power factor	Torque	Starting current	Starting torque	Maximum torque	Sound pressure	Moment of inertia	Mass	LCIE Certificates		Class T	
	Moteur type		Puissance	Vitesse	Intensité	Rendement	Facteur de puissance	Couple	Intensité démarrage	Couple démarrage	Couple maximal	Pression sonore	Moment d'inertie	Masse	LCIE Certificat		Classe T	
	Motor Typ		Leistung	Drehzahl	Strom	Wirkungsgrad	Leistungsfaktor	Moment	Anlaufstrom	Anlaufmoment	Kippmoment	Gerauschwerte	Trägheitsmoment	Masse	LCIE Konformitäts-Bescheinigung		Klasse T	
	Tipo de motor		Potencia proporcionada	Velocidad	Corriente	Rendimiento	Factor de potencia	Par	Corriente de arranque	Par de arranque	Par máximo	Presión acústica	Momento de inercia	Peso	Certificados LCIE		Clase T	
	Tipo motore		Potenza resa	Velocità	Corrente	Rendimento	Fattore potenza	Coppia	Corrente avviamento	Coppia avviamento	Coppia massima	Pressione sonora	Momento d'inerzia	Massa	Certificato LCIE		Classe T	
	IIB	IIC	P _n [kW]	n [1/min]	I _n * [A]	η [%]	cos φ	Mn [Nm]	Ia/In	Ma/Mn	Mm/Mn	Lp [dB(A)]	J▼ [kgm ²]	m [kg]	IIB - IIC			
	Ex d	Ex d		Ex de	Ex d													
F 63 BTV C2-4	F 63 CTV C2-4		0.25	2720	0.80	56	0.90	0.88	3.3	2.5	2.7	64	0.0011	9.5	00 ATEX 6036		4	
			0.18	1440	1.05	47	0.58	1.19	3.4	3.0	3.2	56						
F 80 BTV B2-4	F 80 CTV B2-4		0.55	2905	1.80	64	0.70	1.81	5.0	2.9	3.1	66	0.0023	12.0	00 ATEX 6037		4	
			0.37	1465	1.25	66	0.65	2.41	5.6	3.5	3.7	56						
F 80 BTV C2-4	F 80 CTV C2-4		0.75	2815	2.80	58	0.70	2.55	3.7	3.9	4.1	66	0.0029	14.0	00 ATEX 6037		4	
			0.55	1440	1.80	64	0.72	3.65	5.2	3.6	3.8	56						
F 71 BTV C4-6	F 71 CTV C4-6		0.18	1440	0.65	55	0.76	1.19	4.5	3.0	3.3	56	0.0011	9.5	00 ATEX 6036		4	
			0.12	685	0.80	39	0.57	1.67	2.1	2.2	2.3	52						
F 80 BTV B4-6	F 80 CTV B4-6		0.37	1460	1.20	76	0.72	2.42	5.0	2.7	2.8	56	0.0023	12.0	00 ATEX 6037		4	
			0.25	940	0.95	54	0.78	2.54	2.3	1.0	1.2	54						
F 80 BTV B4-6	F 80 CTV B4-6		0.55	1450	1.70	73	0.71	3.62	5.0	2.6	2.7	56	0.0029	14.0	00 ATEX 6037		4	
			0.30	950	1.00	60	0.70	3.02	3.0	2.1	2.2	54						
F 80 BTV C4-6	F 80 CTV C4-6		0.75	1410	2.00	71	0.85	5.08	4.5	2.0	2.2	56	0.0029	14.0	00 ATEX 6037		4	
			0.37	940	1.15	65	0.73	3.76	3.1	1.3	1.4	54						
F 71 BTV C4-8	F 71 CTV C4-8		0.18	1430	0.65	53	0.78	1.20	4.0	2.3	2.5	56	0.0011	9.5	00 ATEX 6036		4	
			0.12	675	0.80	37	0.63	1.70	2.0	2.1	2.2	46						
F 80 BTV B4-8	F 80 CTV B4-8		0.55	1405	1.45	62	0.87	3.74	5.0	2.0	2.1	56	0.0023	12.0	00 ATEX 6037		4	
			0.25	710	1.45	46	0.54	3.36	2.2	1.8	1.9	48						
F 80 BTV C4-8	F 80 CTV C4-8		0.75	1380	1.80	71	0.87	5.19	4.4	2.2	2.4	56	0.0029	14.0	00 ATEX 6037		4	
			0.37	710	2.10	55	0.50	4.98	2.8	2.5	2.7	48						

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Hauteur d'axe 56 : nous consulter

Achsenhöhe 56: Kontaktieren Sie uns.

Altura de eje 56 estamos a su disposición

Altezza d'asse 56: su richiesta

$$* I_n = I_n \cdot \frac{400}{U} \quad (I_n = \text{current at } U \text{ Volt}); \\ (I_n = \text{intensité à } U \text{ Volt}); \\ (I_n = \text{Strom mit } U \text{ Volt}); \\ (I_n = \text{corriente de } U \text{ Voltios}); \\ (I_n = \text{corrente a } U \text{ Volt});$$

$$\nabla J = \frac{PD^2}{4}$$

GB	Three-phase motors		Speed	Rated data at		direct on line start	for centrifugal machines (quadratic torque)		3000/1500	rpm	GB
F	Moteurs triphasés		Vitesse	Données nominales à		démarrage direct	pour machines centrifuges (couple quadratique)		1500/750	tours/min	F
D	Drehstrom Motoren		Drehzahl	Betriebsdaten bei	400 V	Direkteinschaltung	für Zentrifugalmaschinen (quadratisches Gegenmoment)		1500/1000	U/min	D
E	Motores trifásicos		Velocidad	Datos nominales	50 Hz	arranque directo	para máquinas centrífugas (par cuadrático)		1500/1000	rev/min	E
I	Motori trifase	2	Velocità	Dati nominali a		avviamento diretto	per macchine centrifughe (coppia quadratica)		1000/500	giri/min	I

Motor type		Rated output	Speed	Current	Efficiency	Power factor	Torque	Starting current	Starting torque	Maximum torque	Sound pressure	Moment of inertia	Mass	LCIE Certificates	Class T
Moteur type		Puissance	Vitesse	Intensité	Rendement	Facteur de puissance	Couple	Intensité démarrage	Couple démarrage	Couple maximal	Pression sonore	Moment d'inertie	Masse	LCIE Certificat	Classe T
Motor Typ		Leistung	Drehzahl	Strom	Wirkungsgrad	Leistungsfaktor	Moment	Anlaufstrom	Anlaufmoment	Kippmoment	Gerauschwerte	Trägheitsmoment	Masse	LCIE Konformitäts-Bescheinigung	Klasse T
Tipo de motor		Potencia proporcionada	Velocidad	Corriente	Rendimiento	Factor de potencia	Par	Corriente de arranque	Par de arranque	Par máximo	Presión acústica	Momento de inercia	Peso	Certificados LCIE	Clase T
Tipo motore		Potenza resa	Velocità	Corrente	Rendimento	Fattore potenza	Coppia	Corrente avviamento	Coppia avviamento	Coppia massima	Pressione sonora	Momento d'inerzia	Massa	Certificato LCIE	Classe T
IIB	IIC	P _n [kW]	n [1/min]	I _n * [A]	η [%]	cos φ	Mn [Nm]	I _a /I _n	Ma/Mn	Mm/Mn	L _p [dB(A)]	J ▼ [kgm ²]	m [kg]	IIB - IIC	Ex d Ex de
Ex d Ex de	Ex d Ex de													Ex d Ex de	
F 63 BTV B2-4	F 63 CTV B2-4	0.25 0.06	2810 1435	0.90 0.40	56 38	0.76 0.66	0.85 0.45	4.60 3.70	4.60 2.40	4.80 2.50	62 55	0.0011 0.0012	9.0 9.5	00 ATEX 6036 00 ATEX 6036	4
F 71 BTV C2-4	F 71 CTV C2-4	0.37 0.09	2835 1440	1.05 0.50	62 39	0.85 0.69	1.25 0.60	5.70 3.70	3.60 2.00	3.80 2.20	64 56	0.0012 0.0023	9.5 12.0	00 ATEX 6036 00 ATEX 6037	4
F 80 BTV B2-4	F 80 CTV B2-4	0.55 0.13	2905 1445	1.80 0.45	66 57	0.70 0.76	1.80 0.85	4.40 5.00	2.00 3.00	2.30 3.10	66 56	0.0023 0.0023	12.0 12.0	00 ATEX 6037 00 ATEX 6037	4
F 80 BTV B2-4	F 80 CTV B2-4	0.75 0.18	2840 1420	2.10 0.55	67 62	0.78 0.83	2.50 1.20	4.60 4.60	2.20 2.20	2.40 2.30	66 56	0.0023 0.0029	12.0 14.0	00 ATEX 6037 00 ATEX 6037	4
F 80 BTV C2-4	F 80 CTV C2-4	1.10 0.28	2760 1420	4.10 0.75	63 67	0.65 0.81	3.80 1.90	4.00 4.00	2.00 2.10	2.30 2.20	66 56	0.0029 0.0029	14.0	00 ATEX 6037	4
F 63 BTV B4-8	F 63 CTV B4-8	0.18 0.03	1440 695	0.70 0.30	51 32	0.75 0.78	1.20 0.40	4.77 2.30	3.60 2.40	3.80 2.50	55 44	0.0011 0.0011	9.0 9.0	00 ATEX 6036 00 ATEX 6036	4
F 71 BTV C4-8	F 71 CTV C4-8	0.25 0.06	1430 670	1.05 0.45	56 34	0.63 0.57	1.70 0.85	3.90 2.60	2.80 2.00	3.00 2.20	56 46	0.0012 0.0023	9.5 12.0	00 ATEX 6036 00 ATEX 6037	4
F 80 BTV C4-8	F 80 CTV C4-8	0.37 0.09	1430 675	1.30 0.50	69 45	0.70 0.59	2.50 1.27	6.00 2.80	3.00 2.40	3.20 2.50	56 48	0.0023 0.0023	12.0 12.0	00 ATEX 6037 00 ATEX 6037	4
F 80 BTV B4-8	F 80 CTV B4-8	0.55 0.13	1440 700	1.40 0.65	71 50	0.79 0.60	3.60 1.77	5.20 2.60	2.20 1.90	2.40 2.00	56 48	0.0023 0.0029	12.0 14.0	00 ATEX 6037 00 ATEX 6037	4
F 80 BTV B4-8	F 80 CTV B4-8	0.75 0.18	1430 670	2.10 1.20	73 50	0.77 0.62	5.00 2.50	4.80 2.50	2.00 2.40	2.20 2.50	56 48	0.0029 0.0029	14.0	00 ATEX 6037	4
F 80 BTV C4-8	F 80 CTV C4-8	1.10 0.28	1425 690	3.10 1.20	71 52	0.72 0.64	7.30 3.80	5.00 4.60	2.40 2.20	2.60 2.30	56 48	0.0029 0.0029	14.0	00 ATEX 6037	4
F 63 BTV B4-6	F 63 CTV B4-6	0.18 0.06	1450 970	0.70 0.55	54 30	0.84 0.55	1.19 0.59	3.50 2.50	1.60 2.80	1.80 2.90	55 52	0.0011 0.0011	9.5 9.5	00 ATEX 6036 00 ATEX 6036	4
F 71 BTV C4-6	F 71 CTV C4-6	0.25 0.08	1420 955	0.85 0.55	58 38	0.81 0.62	1.68 0.80	3.00 2.40	1.20 2.50	1.40 2.60	56 52	0.0011 0.0011	9.5 9.5	00 ATEX 6036 00 ATEX 6036	4
F 80 BTV A4-6	F 80 CTV A4-6	0.37 0.12	1460 975	1.20 0.75	64 41	0.72 0.59	2.42 1.18	5.20 3.00	1.60 3.00	1.80 3.20	56 54	0.0023 0.0029	14.0	00 ATEX 6037 00 ATEX 6037	4
F 80 BTV B4-6	F 80 CTV B4-6	0.55 0.18	1450 965	1.70 0.90	73 58	0.71 0.63	3.62 1.78	5.50 3.60	2.50 2.30	2.70 2.50	56 54	0.0029 0.0029	16.0	00 ATEX 6037 00 ATEX 6037	4
F 80 BTV C4-6	F 80 CTV C4-6	0.75 0.25	1450 960	2.00 0.95	73 64	0.74 0.60	4.94 2.49	5.00 3.40	2.40 2.20	2.50 2.20	56 54	0.0029 0.0029	16.0	00 ATEX 6037 00 ATEX 6037	4
F 71 BTV C6-12	F 71 CTV C6-12	0.12 0.03	950 430	0.80 0.35	44 24	0.49 0.53	1.21 0.67	3.00 1.50	3.50 2.20	3.60 2.25	55 52	0.0011 0.0011	9.5 9.5	00 ATEX 6036 00 ATEX 6036	4
F 80 BTV B6-12	F 80 CTV B6-12	0.37 0.06	960 470	1.60 0.65	59 30	0.58 0.45	3.68 1.22	3.20 2.70	2.20 1.70	2.30 1.80	56 54	0.0023 0.0023	14.0	00 ATEX 6037 00 ATEX 6037	4
F 80 BTV C6-12	F 80 CTV C6-12	0.65 0.10	900 450	1.95 1.00	63 30	0.80 0.55	6.90 2.12	2.80 1.40	1.50 1.40	1.60 1.50	56 54	0.0029 0.0029	16.0	00 ATEX 6037 00 ATEX 6037	4

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Hauteur d'axe 56: nous consulter

Achsenhöhe 56: Kontaktieren Sie uns.

Altura de eje 56 estamos a su disposición

Altezza d'asse 56: su richiesta

$$* I'_n = I_n \cdot \frac{400}{U'} \quad (I'_n = \text{current at } U' \text{ Volt}; \\ I'_n = \text{intensité à } U' \text{ Volt}; \\ I'_n = \text{Strom mit } U' \text{ Volt}; \\ I'_n = \text{corriente de } U' \text{ Voltios}; \\ I'_n = \text{corrente a } U' \text{ Volt})$$

$$\nabla J = \frac{PD^2}{4}$$

GB	Self-braking motors		Speed		Rated data at		direct on line start										3000	rpm	GB
F	Moteurs freins		Vitesse		Données nominales à												1500	tours/min	F
D	Selbstbremsende Motoren		Drehzahl		Betriebsdaten bei												1000	U/min	D
E	Motores con freno		Velocidad		Datos nominales												rev/min	E	
I	Motori autofrenanti		Velocità		Dati nominali a												750	giri/min	I
4.	1		Motor type		Rated output	Speed	Current	Efficiency	Power factor	Torque	Starting current	Starting torque	Maximum torque	Sound pressure	Moment of inertia	Mass	Braking torque	LCIE Certificates	Class T
	Moteur type		Puissance	Vitesse	Intensité	Rendement	Facteur de puissance	Couple	Intensité démarrage	Couple démarage	Couple maximal	Pression sonore	Moment d'inertie	Masse	Couple de freinage	LCIE Certificat	Classe T		
	Motor Typ		Leistung	Drehzahl	Strom	Wirkungsgrad	Leistungsfaktor	Moment	Anlaufstrom	Anlaufmoment	Kippmoment	Gerauschwerte	Trägheitsmoment	Masse	Bremsmoment	LCIE Konformitäts-Bescheinigung	Klasse T		
	Tipo de motor		Potencia proporcionada	Velocidad	Corriente	Rendimiento	Factor de potencia	Par	Corriente de arranque	Par de arranque	Par máximo	Presión acústica	Momento de inercia	Peso	Par de frenado	Certificados LCIE	Clase T		
	Tipo motore		Potenza resa	Velocità	Corrente	Rendimento	Fattore potenza	Coppia	Corrente avviamento	Coppia avviamento	Coppia massima	Pressione sonora	Momento d'inerzia	Massa	Coppia frenante	Certificato LCIE	Classe T		
IIB	IIC	P _n	n	I _n *	η	cos φ	Mn	Ia/I _n	Ma/Mn	Mm/Mn	Lp	J▼	m	Nm	IIB - IIC				
															Ex d Ex de♦				
F 63 BTVF A2	F 63 CTVF A2	0.12	2850	0.40	54	0.89	0.40	5.3	2.6	2.8	62	0.0008	9,5	4	00 ATEX 6036	4			
F 63 BTVF A2	F 63 CTVF A2	0.18	2780	0.56	53	0.88	0.61	4.0	2.2	2.4	62	0.0008	9,5	4	00 ATEX 6036	4			
F 63 BTVF A2	F 63 CTVF A2	0.25	2840	0.70	63	0.89	0.84	5.7	3.0	3.3	62	0.0008	9,5	4	00 ATEX 6036	4			
F 71 BTVF B2	F 71 CTVF B2	0.37	2820	0.95	65	0.90	1.24	5.0	2.3	2.4	64	0.0012	11,5	4	00 ATEX 6036	4			
F 80 BTVF A2	F 80 CTVF A2	0.37	2945	0.95	74	0.79	1.20	10.0	5.0	5.4	66	0.0015	12,0	16	00 ATEX 6037	4			
F 80 BTVF A2	F 80 CTVF A2	0.55	2920	1.20	80	0.85	1.80	8.0	4.0	4.3	66	0.0015	18,5	16	00 ATEX 6037	4			
F 80 BTVF A2	F 80 CTVF A2	0.75	2925	1.80	79	0.77	2.40	7.0	4.0	4.4	66	0.0017	18,5	16	00 ATEX 6037	4			
F 80 BTVF B2	F 80 CTVF B2	1.10	2885	2.30	81	0.86	3.60	6.0	2.8	3.0	66	0.0017	18,5	16	00 ATEX 6037	4			
F 63 BTVF A4	F 63 CTVF A4	0.12	1435	0.55	54	0.58	0.80	4.5	4.7	4.9	55	0.0008	9,5	4	00 ATEX 6036	4			
F 63 BTVF A4	F 63 CTVF A4	0.18	1405	0.65	60	0.73	1.20	3.9	3.0	3.2	55	0.0008	9,5	4	00 ATEX 6036	4			
F 71 BTVF B4	F 71 CTVF B4	0.25	1425	0.75	65	0.77	1.60	4.6	2.8	3.0	56	0.0012	11,0	4	00 ATEX 6036	4			
F 71 BTVF B4	F 71 CTVF B4	0.37	1430	1.15	66	0.70	2.40	4.8	2.6	2.8	56	0.0012	11,0	4	00 ATEX 6036	4			
F 80 BTVF A4	F 80 CTVF A4	0.37	1450	1.30	64	0.67	2.40	6.3	4.4	4.6	56	0.0025	16,0	16	00 ATEX 6037	4			
F 80 BTVF A4	F 80 CTVF A4	0.55	1445	1.45	78	0.70	3.60	5.7	3.3	3.6	56	0.0025	16,0	16	00 ATEX 6037	4			
F 80 BTVF B4	F 80 CTVF B4	0.75	1415	1.85	80	0.82	5.00	4.7	2.2	2.4	56	0.0025	16,0	16	00 ATEX 6037	4			
F 63 BTVF B6	F 63 CTVF B6	0.12	930	0.55	50	0.61	1.20	2.7	1.6	1.7	52	0.0012	11,0	4	00 ATEX 6036	4			
F 71 BTVF C6	F 71 CTVF C6	0.18	925	0.90	49	0.60	1.90	2.3	1.5	1.6	52	0.0013	11,5	4	00 ATEX 6036	4			
F 71 BTVF C6	F 71 CTVF C6	0.25	890	0.90	53	0.77	2.70	2.5	1.4	1.5	52	0.0013	11,5	4	00 ATEX 6036	4			
F 80 BTVF A6	F 80 CTVF A6	0.25	950	0.90	60	0.62	2.50	4.0	2.4	2.6	54	0.0025	16,0	16	00 ATEX 6037	4			
F 80 BTVF A6	F 80 CTVF A6	0.37	930	1.10	65	0.74	3.80	3.0	1.6	1.8	54	0.0025	16,0	16	00 ATEX 6037	4			
F 80 BTVF C6	F 80 CTVF C6	0.55	920	1.75	68	0.70	5.60	3.8	2.2	2.4	54	0.0025	18,0	16	00 ATEX 6037	4			
F 63 BTVF B8	F 63 CTVF B8	0.075	660	0.35	47	0.57	1.10	2.0	1.3	1.3	44	0.0012	9,0	4	00 ATEX 6036	4			
F 71 BTVF C8	F 71 CTVF C8	0.12	675	0.60	45	0.63	1.70	2.5	2.2	2.3	46	0.0013	10,0	4	00 ATEX 6036	4			
F 71 BTVF C8	F 71 CTVF C8	0.18	660	1.05	50	0.50	2.60	2.2	1.8	1.9	46	0.0013	10,0	4	00 ATEX 6036	4			
F 80 BTVF B8	F 80 CTVF B8	0.25	690	1.05	57	0.60	3.40	2.6	1.7	1.8	48	0.0025	16,0	16	00 ATEX 6037	4			
F 80 BTVF C8	F 80 CTVF C8	0.37	705	1.40	64	0.59	5.00	3.0	2.2	2.3	48	0.0030	18,0	16	00 ATEX 6037	4			

◆ Contact us for further information

Nous consulter

Kontaktieren Sie uns.

Estamos a su disposición

Su richiesta

$$\ast I_n = I_n \cdot \frac{400}{U} \quad (I_n = \text{current at } U \text{ Volt}; \\ (I_n = \text{intensité à } U \text{ Volt}); \\ (I_n = \text{Strom mit } U \text{ Volt}); \\ (I_n = \text{corriente de } U \text{ Voltios}); \\ (I_n = \text{corrente a } U \text{ Volt});)$$

$$\blacktriangledown J = \frac{PD^2}{4}$$

GB	Motors driven by inverter										Pole	GB			
F	Moteurs alimentés par inverseur										Pôles	F			
D	Umrichter- Motoren										Pole	D			
E	Motores para inverter										Polos	E			
I	Motori per inverter										Poli	I			
4.	Self-ventilated motor (IC 411)										2				
4.6	Moteur autoventilé (IC 411)										4				
	Eigenbelüfteter Motor (IC 411)														
	Motor autoventilado (IC 411)														
	Motore autoventilato (IC 411)														
	400 V, 50 Hz	[Hz] 5 ÷ 50 range 1 ÷ 10	[Hz] 10 ÷ 50 range 1 ÷ 5	[Hz] 5 ÷ 50 ÷ 87 range 1 ÷ 10 ÷ 17	[Hz] 87 range 17	[Hz] 100 range 20									
	Motor type	Mains connection	Quadratic torque	Constant torque	Constant torque	Constant torque	Constant torque	Constant torque	LCIE Certificates	Class T					
	Moteur type	Alimentation de secteur	Couple quadratique	Couple constant	Couple constant	Couple constant	Couple constant	Couple constant	LCIE Certificat	Classe T					
	Motor Typ	Netzeinspeisung	Quadratisches Gegenmoment	Konstantes Gegenmoment	Konstantes Gegenmoment	Konstantes Gegenmoment	Konstantes Gegenmoment	Konstantes Gegenmoment	LCIE Konformitäts Bescheinigung	Klasse T					
	Tipo de motor	Alimentación desde la red	Par cuadrático	Par constante	Par constante	Par constante	Par constante	Par constante	Certificados LCIE	Clase T					
	Tipo motore	Alimentazione da rete	Coppia quadratica	Coppia costante	Coppia costante	Coppia costante	Coppia costante	Coppia costante	Certificati LCIE	Classe T					
IIB	IIC	P _n kW]	I _n [A]	P _n [kW]	M _n [Nm]	P _n [kW]	M _n [Nm]	P _n [kW]	M _n [Nm]	P _n [kW]	M _n [Nm]	P _n [kW]	M _n [Nm]	IIB- IIC	
Ex d	Ex d													Ex d	
Ex de	Ex de													Ex de	
		3000 [1/min]										3000 [1/min]			
F 63 BTV A2	F 63 CTV A2	0.12	0.40	0.12	0.40	0.11	0.36	0.08	0.28	0.15	0.28	0.13	0.22	00 ATEX 6036	4
F 63 BTV A2	F 63 CTV A2	0.18	0.60	0.18	0.60	0.18	0.60	0.18	0.60	0.28	0.54	0.26	0.43	00 ATEX 6036	4
F 63 BTV A2	F 63 CTV A2	0.25	0.80	0.25	0.80	0.25	0.80	0.25	0.80	0.29	0.56	0.27	0.44	00 ATEX 6036	4
F 71 BTV B2	F 71 CTV B2	0.37	1.30	0.37	1.30	0.37	1.30	0.37	1.30	0.31	0.60	0.28	0.46	00 ATEX 6036	4
F 71 BTV C2	F 71 CTV C2	0.55	1.90	0.55	1.90	0.52	1.80	0.50	1.70	0.50	1.00	0.43	0.75	00 ATEX 6036	4
F 80 BTV A2	F 80 CTV A2	0.55	1.80	0.55	1.80	0.55	1.80	0.55	1.80	0.55	1.10	0.50	0.85	00 ATEX 6037	4
F 80 BTV A2	F 80 CTV A2	0.75	2.40	0.75	2.40	0.70	1.67	0.60	1.45	0.80	1.45	0.65	1.10	00 ATEX 6037	4
F 80 BTV B2	F 80 CTV b2	1.10	3.60	1.10	3.60	1.00	3.40	0.92	3.00	1.05	2.00	0.70	1.15	00 ATEX 6037	4
		1500 [1/min]										1500 [1/min]			
F 63 BTV A4	F 63 CTV A4	0.12	0.80	0.12	0.80	0.12	0.80	0.12	0.80	0.20	0.75	0.18	0.60	00 ATEX 6036	4
F 63 BTV A4	F 63 CTV A4	0.18	1.20	0.18	1.20	0.18	1.20	0.16	1.10	0.23	0.87	0.20	0.66	00 ATEX 6036	4
F 71 BTV B4	F 71 CTV B4	0.25	1.60	0.25	1.60	0.22	1.50	0.20	1.30	0.35	1.30	0.35	1.10	00 ATEX 6036	4
F 71 BTV B4	F 71 CTV B4	0.37	2.40	0.37	2.40	0.33	2.15	0.23	1.50	0.43	1.60	0.37	1.20	00 ATEX 6036	4
F 80 BTV A4	F 80 CTV A4	0.55	3.60	0.55	3.60	0.50	3.24	0.25	1.62	0.63	2.37	0.60	2.00	00 ATEX 6037	4
F 80 BTV B4	F 80 CTV B4	0.75	5.00	0.75	5.00	0.70	4.75	0.45	3.00	0.81	3.10	0.75	2.50	00 ATEX 6037	4
F 80 BTV C4	F 80 CTV C4	1.10	7.30	1.10	7.30	0.70	4.60	0.43	2.90	1.61	6.20	1.75	5.80	00 ATEX 6037	4

GB	Single phase motors		Speed		Rated data at		direct on line start												
F	Moteurs monophasés		Vitesse		Données nominales à		démarrage direct										3000		F
D	Einphasenmotoren		Drehzahl		Betriebsdaten bei		Direkteinschaltung										1500		D
E	Motores monofásico		Velocidad		Datos nominales		arranque directo										rev/min		E
I	Motori monofase		Velocità		Dati nominali a		avviamento diretto										1000		I
4.	1		Motor type		Rated output	Speed	Current	Efficiency	Power factor	Torque	Starting current	Starting torque	Maximum torque	Sound pressure	Moment of inertia	Mass	LCIE Certificates		Class T
	Moteur type		Puissance	Vitesse	Intensité	Rendement	Facteur de puissance	Couple	Intensité démarrage	Couple démarrage	Couple maximal	Pression sonore	Moment d'inertie	Masse	LCIE Certificat		Classe T		
	Motor Typ		Leistung	Drehzahl	Strom	Wirkungsgrad	Leistungsfaktor	Moment	Anlaufstrom	Anlaufmoment	Kippmoment	Gerauschwerte	Trägheitsmoment	Masse	LCIE Konformitäts-Bescheinigung		Klasse T		
	Tipo de motor		Potencia resa	Velocidad	Corriente	Rendimiento	Factor de potencia	Par	Corriente de arranque	Par de arranque	Par máximo	Presión acústica	Momento de inercia	Peso	Certificados LCIE		Clase T		
	Tipo motore		Potenza resa	Velocità	Corrente	Rendimento	Fattore potenza	Coppia	Corrente avviamento	Coppia avviamento	Coppia massima	Pressione sonora	Momento d'inerzia	Massa	Certificato LCIE		Classe T		
IIB		IIC		P _n [kW]	n [1/min]	I _n * [A]	η [%]	cos φ	Mn [Nm]	Ia/I _n	Ma/Mn	Mm/Mn	L _p [dB(A)]	J ▼ [kgm ²]	m [kg]	IIB - IIC			
Ex d		Ex d													Ex d				
F 56 BM A2 ^{**} □		F 56 CM A2 ^{**} □		0.06	2640	0.80	45	0.80	0.20	2.80	1.00	1.10	52	0.0012	4.5	00 ATEX 6035		4	
F 56 BM B2 ^{**} □		F 56 CM B2 ^{**} □		0.08	2840	0.90	50	0.86	0.27	3.00	1.10	1.15	52	0.0013	5.0	00 ATEX 6035		4	
F 63 BMV A2		F 63 CMV A2		0.12	2800	1.60	40	0.82	0.41	4.10	3.60	3.80	62	0.0008	8.0	00 ATEX 6036		4	
F 63 BMV B2		F 63 CMV B2		0.18	2865	2.35	49	0.70	0.60	4.60	3.50	3.70	62	0.0010	8.0	00 ATEX 6036		4	
F 63 BMV B2		F 63 CMV B2		0.25	2830	2.60	54	0.77	0.84	4.30	3.20	3.30	62	0.0010	9.5	00 ATEX 6036		4	
F 71 BMV C2		F 71 CMV C2		0.37	2780	3.50	56	0.81	1.27	4.30	2.50	2.70	64	0.0013	10.0	00 ATEX 6036		4	
F 80 BMV B2		F 80 CMV B2		0.55	2930	6.20	62	0.62	1.79	5.50	4.50	5.00	66	0.0016	16.0	00 ATEX 6037		4	
F 80 BMV B2		F 80 CMV B2		0.75	2910	6.80	68	0.72	2.46	5.00	3.30	3.80	66	0.0016	16.0	00 ATEX 6037		4	
F 56 BM A4 ^{**} □		F 56 CM A4 ^{**} □		0.06	1410	0.72	44	0.84	0.41	2.70	1.10	1.15	50	0.0012	4.5	00 ATEX 6035		4	
F 56 BM B4 ^{**} □		F 56 CM B4 ^{**} □		0.08	1390	0.95	49	0.79	0.56	2.70	1.30	1.35	50	0.0012	5.0	00 ATEX 6035		4	
F 63 BMV B4		F 63 CMV B4		0.12	1415	1.70	47	0.70	0.81	3.50	2.20	2.40	55	0.0012	8.5	00 ATEX 6036		4	
F 63 BMV C4		F 63 CMV C4		0.18	1430	2.10	54	0.68	1.20	3.80	2.20	2.30	55	0.0013	10.0	00 ATEX 6036		4	
F 71 BMV C4		F 71 CMV C4		0.25	1410	3.30	48	0.68	1.69	3.30	1.80	2.00	56	0.0013	10.0	00 ATEX 6036		4	
F 80 BMV A4		F 80 CMV A4		0.25	1460	2.80	61	0.68	1.64	4.30	2.20	2.40	56	0.0024	14.0	00 ATEX 6037		4	
F 80 BMV B4		F 80 CMV B4		0.37	1445	3.40	65	0.74	2.45	4.30	2.20	2.40	56	0.0024	14.0	00 ATEX 6037		4	
F 80 BMV B4		F 80 CMV B4		0.55	1430	5.60	61	0.70	3.67	4.10	2.40	2.60	56	0.0024	14.0	00 ATEX 6037		4	
F 80 BMV C4		F 80 CMV C4		0.75	1390	6.40	66	0.76	5.16	2.80	1.53	1.60	56	0.0030	14.5	00 ATEX 6037		4	
F 63 BMV B6 [□]		F 63 CMV B6 [□]		0.10	950	1.20	39	0.93	1.01	3.00	0.70	0.70	52	0.0012	8.5	00 ATEX 6036		4	
F 63 BMV C6 [□]		F 63 CMV C6 [□]		0.12	925	1.45	41	0.93	1.24	2.50	0.65	0.65	54	0.0013	10.0	00 ATEX 6036		4	
F 71 BMV C6 [□]		F 71 CMV C6 [□]		0.15	935	1.60	44	0.99	1.53	3.50	0.65	0.80	54	0.0013	10.0	00 ATEX 6036		4	
F 80 BMV A6 [□]		F 80 CMV A6 [□]		0.18	965	2.20	47	0.81	1.78	3.00	0.66	0.70	56	0.0024	14.0	00 ATEX 6037		4	
F 80 BMV B6 [□]		F 80 CMV B6 [□]		0.25	950	2.50	51	0.85	2.51	2.60	0.60	0.60	56	0.0024	14.0	00 ATEX 6037		4	
F 80 BMV C6 [□]		F 80 CMV C6 [□]		0.37	945	4.50	62	0.60	3.74	2.90	2.10	2.20	56</td						

5. Overall dimensions

- 5.1 Ventilated motors
- 5.2 Unventilated motors
- 5.3 Self-braking motors

5. Dimensions

- 5.1 Moteurs ventilés
- 5.2 Moteurs non ventilés
- 5.3 Moteurs freins

5. Abmessungen

- 5.1 Motoren belüftet
- 5.2 Motoren unbelüftet
- 5.3 Selbstbremsende Motoren

5. Dimensiones de espacio máximo

- 5.1 Motore ventilados
- 5.2 Motores no ventilados
- 5.3 Motores con freno

5. Dimensioni d'ingombro

- 5.1 Motori ventilati
- 5.2 Motori non ventilati
- 5.3 Motori autofrenanti

GB

F

D

E

I

5.

Ventilated motors

Moteurs ventilés

Motoren belüftet

Motore ventilados

5.1 Motori ventilati

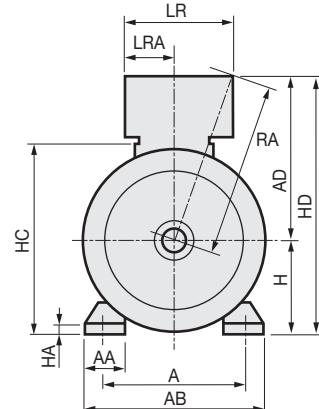
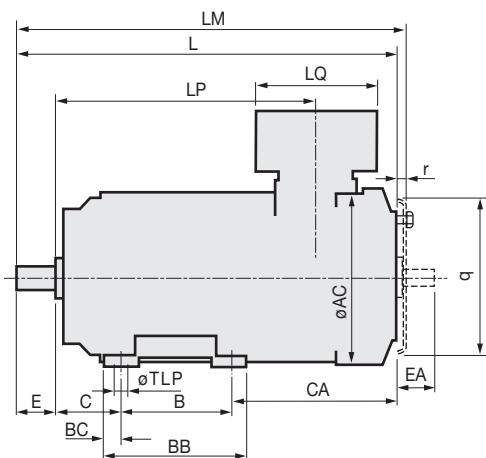
63÷80

IM B3

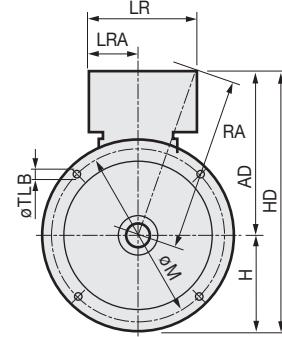
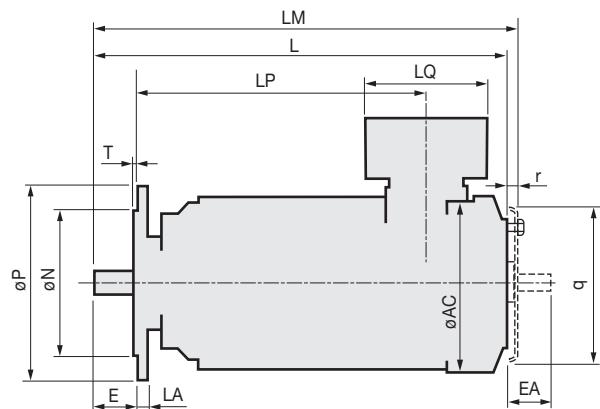
IM B5

IM B35

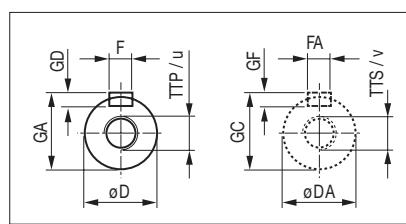
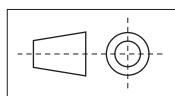
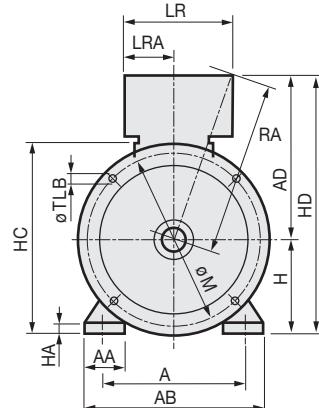
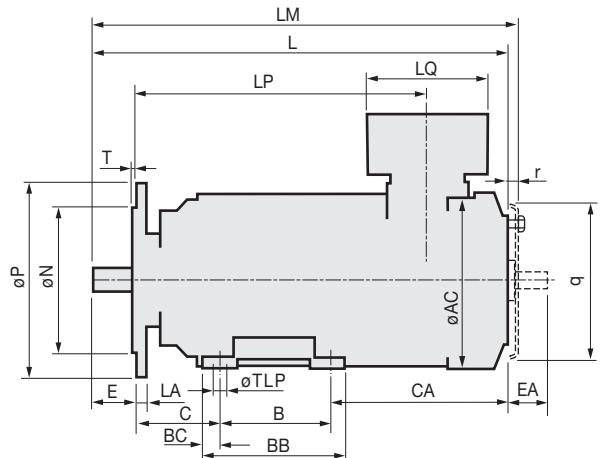
IM B3



IM B5



IM B35



Overall dimensions [mm]

GB

Dimensions [mm]

F

Abmessungen [mm]

D

Dimensiones [mm]

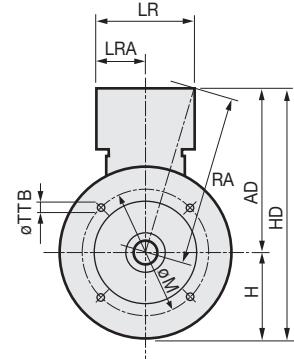
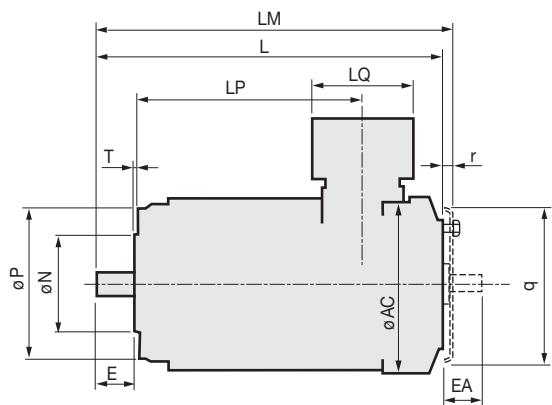
E

Dimensioni d'ingombro [mm]

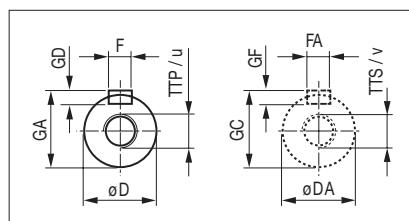
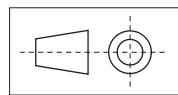
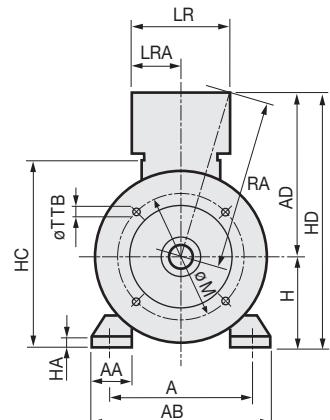
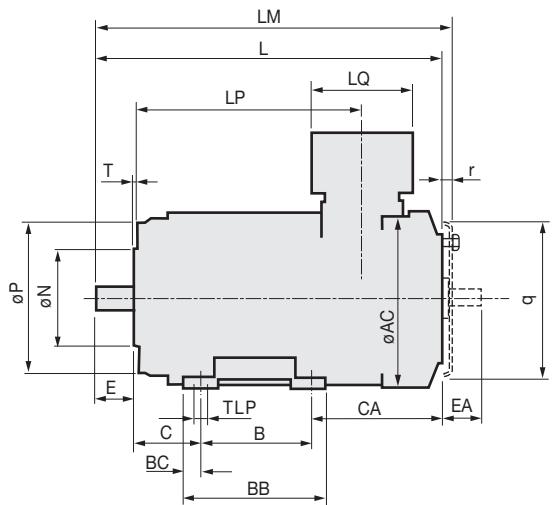
I

Type	A	AA	AB	ø AC	B	BB	BC	C	CA	E EA	H	HA	HC	L	LM	LP	ø q	r	ø TLP	
63 B3	100	30	126	132	80	100	10	40	141	23	63	5	135	284	307	173	118	23	7	
63 B5 B35	100	30	126	132	80	100	10	55	141	23	63	5	135	299	322	188	118	23	7	
71 B3	112	36	138	132	90	110	10	45	126	30	71	6	143	291	314	173	118	23	7	
71 B5 B35	112	36	138	132	90	110	10	60	126	30	71	6	143	306	329	188	118	23	7	
80 B3	125	35	155	162	100	124	12	50	126	40	80	8	165	316	339	202	146	23	9	
80 B5 B35	125	35	155	162	100	124	12	70	126	40	80	8	165	336	359	222	146	23	9	
Terminal box - Boîte à bornes - Klemmkasten - Caja de bornes - Morsettiera																				
Ex d ① Type	AD			HD			LQ			LR			RA			LRA				
63 B3	164			227			144			144			174			68				
63 B5 B35	164			227			144			144			174			68				
71 B3	164			235			144			144			174			68				
71 B5 B35	164			235			144			144			174			68				
80 B3	175			255			144			144			184			68				
80 B5 B35	175			255			144			144			184			68				
Ex d ③ Type	AD			HD			LQ			LR			RA			LRA				
63 B3	153			216			108			108			160			50				
63 B5 B35	153			216			108			108			160			50				
71 B3	153			224			108			108			160			50				
71 B5 B35	153			224			108			108			160			50				
80 B3	166			246			108			108			172			50				
80 B5 B35	166			246			108			108			172			50				
Ex de ③ Type	AD			HD			LQ			LR			RA			LRA				
Type	Standard	VIK	Standard	VIK	Standard	VIK	Standard	VIK	Standard	VIK	Standard	VIK	Standard	VIK	Standard	VIK	Standard	VIK	Standard	VIK
63 B3	174	192	237	255	145	190	120	175	182	210	60	86								
63 B5 B35	174	192	237	255	145	190	120	175	182	210	60	86								
71 B3	174	192	245	263	145	190	120	175	182	210	60	86								
71 B5 B35	174	192	245	263	145	190	120	175	182	210	60	86								
80 B3	187	205	267	285	145	190	120	175	193	233	60	86								
80 B5 B35	187	205	267	285	145	190	120	175	193	233	60	86								
Shaft - Arbre - Welle - Eje - Albero																				
Type	ø D	F	GA	GD	ø TPP	u	ø DA _{max}	FA	GC	GF	ø TTS	v								
63 B3	11	4	12.5	4	M4	10														
63 B5 B35	11	4	12.5	4	M4	10														
71 B3	14	5	16.0	5	M5	12														
71 B5 B35	14	5	16.0	5	M5	12														
80 B3	19	6	21.5	6	M6	15														
80 B5 B35	19	6	21.5	6	M6	15														
Flanges - Brides - Flansch - Bridas - Flange																				
Type	LA	ø M	ø N	ø P	T	ø TLB														
63 B5 B35	8	115	95	140	3.0	9														
71 B5 B35	8	130	110	160	3.5	9														
80 B5 B35	10	165	130	200	3.5	11														
① Single phase Monophasés Einphasen Monofásico Monofase	③ Three phase Triphasés Drehstrom Trifásico Trifase			LR: Without cable gland Sans presse étoupe Ohne Kabelpresse Sin prensacables Senza pressacavo			VIK: Specifications Spécifications Spezifikationen Especificaciones Specifiche													

IM B14



IM B34



Overall dimensions [mm]

GB

Dimensions [mm]

F

Abmessungen [mm]

D

Dimensiones [mm]

E

Dimensioni d'ingombro [mm]

I

Structure - Structure - Gehäuse - Estructura - Struttura

Type	A	AA	AB	ø AC	B	BB	BC	C	CA	E EA	H	HA	HC	L	LM	LP	ø q	r	ø TLP
63 B14 B34	100	30	126	132	80	100	10	40	141	23	63	5	135	284	307	173	118	23	7
71 B14 B34	112	36	138	132	90	110	10	45	126	30	71	6	143	291	314	173	118	23	7
80 B14 B34	125	35	155	162	100	124	12	50	126	40	80	8	165	316	339	202	146	23	9

Terminal box - Boîte à bornes - Klemmkasten - Caja de bornes - Morsettiera

Ex d ① Type	AD	HD	LQ	LR	RA	LRA
63 B14 B34	164	227	144	144	174	68
71 B14 B34	164	235	144	144	174	68
80 B14 B34	175	255	144	144	184	68

Ex d ③ Type	AD	HD	LQ	LR	RA	LRA
63 B14 B34	153	216	108	108	160	50
71 B14 B34	153	224	108	108	160	50
80 B14 B34	166	246	108	108	172	50

Ex de ③ Type	AD	HD	LQ	LR	RA	LRA				
Type	Standard	VIK								
63 B14 B34	174	192	237	255	145	190	120	175	182	210
71 B14 B34	174	192	245	263	145	190	120	175	182	210
80 B14 B34	187	205	267	285	145	190	120	175	182	233

Shaft - Arbre - Welle - Eje - Albero

Type	ø D ø DAmax	F FA	GA GC	GD GF	ø TTP ø TTS	u v
63 B14 B34	11	4	12.5	4	M4	10
71 B14 B34	14	5	16.0	5	M5	12
80 B14 B34	19	6	21.5	6	M6	15

Flanges - Brides - Flansch - Bridas - Flange

Type	ø M	ø N	ø P	T	ø TTB
63 B14 B34	75	60	90	2.5	M5
71 B14 B34	85	70	105	2.5	M6
80 B14 B34	100	80	120	3.0	M6

① Single phase

Monophasés

Einphasen

Monofásico

Monofase

③ Three phase

Triphasés

Drehstrom

Trifásico

Trifase

LR:
Without cable gland

Sans presse étoupe

Ohne Kabelpresse

Sin prensacables

Senza pressacavo

VIK:
Specifications

Spécifications

Spezifikationen

Especificaciones

Specifiche

GB

Unventilated motors

F

Moteurs non ventilés

D

Motoren unbelüftet

E

Motores no ventilados

I

Motori non ventilati

5.

5.2

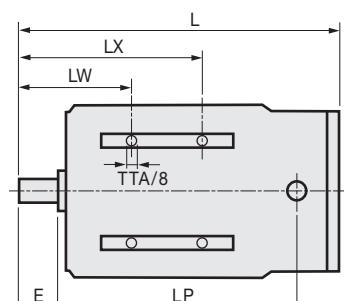
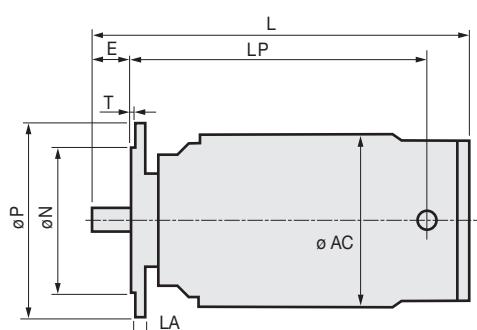
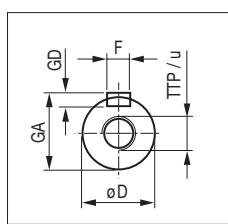
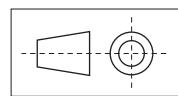
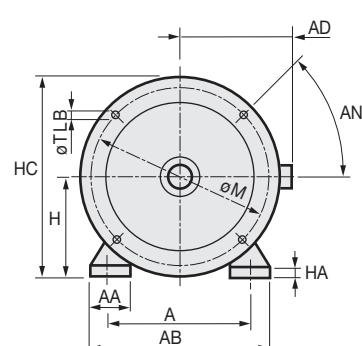
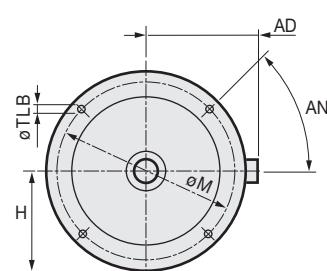
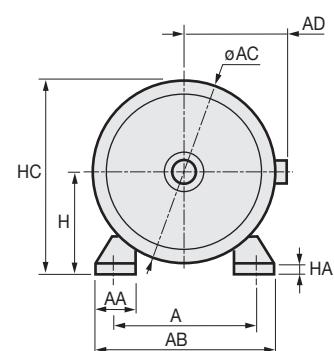
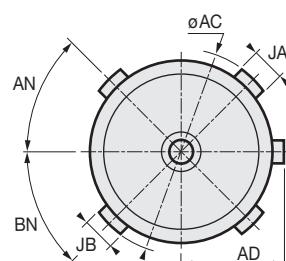
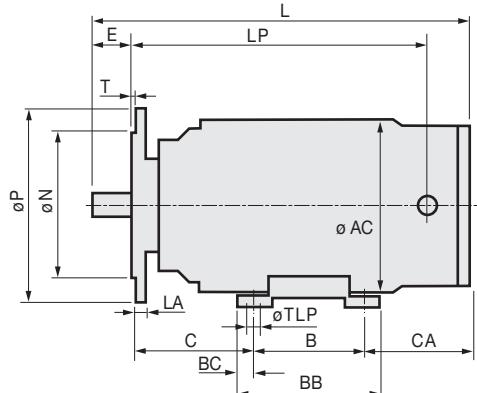
56÷80

IM B3

IM B5

IM B35

PADS
BOSSAGES
BESCHLÄGE
ABOLLADORAS
BORCHIE

IM B3**IM B5****IM B35**

Overall dimensions [mm]

GB

Dimensions [mm]

F

Abmessungen [mm]

D

Dimensiones [mm]

E

Dimensioni d'ingombro [mm]

I

Structure - Structure - Gehäuse - Estructura - Struttura

Type	A	AA	AB	ø AC	AD	AN	BN	B	BB	BC	C	CA	E
56 B3 - 56▲	90	---	110	108	85	45°	45°	71	95	12	36	46	20
56 B5 - 56 B35	90	---	110	108	85	45°	---	71	95	12	36	46	20
63 B3 - 63▲	100	30	126	132	74	45°	45°	80	100	10	40	105	23
63 B5 - 63 B35	100	30	126	132	74	45°	---	80	100	10	55	105	23
71 B3 - 71▲	112	36	138	132	74	45°	45°	90	110	10	45	90	30
71 B5 - 71 B35	112	36	138	132	74	45°	---	90	110	10	60	90	30
80 B3 - 80▲	125	35	155	162	112	45°	45°	100	124	12	50	108	40
80 B5 - 80 B35	125	35	155	162	112	45°	---	100	124	12	70	108	40

Type	H	HA	HC	JA	JB	L		LP		LW	LX	ø TLP	TTA
						●	■	●	■				
56 B3 - 56▲	56	3	113	7	7	212	232	155	175	65	105	6	M5
56 B5 - 56 B35	56	3	113	---	---	222	242	165	185	---	---	6	---
63 B3 - 63▲	63	5	129	15	21	248	---	200	---	94	132	7	M6
63 B5 - 63 B35	63	5	129	---	---	263	---	215	---	---	---	7	---
71 B3 - 71▲	71	6	137	15	21	255	---	200	---	101	139	7	M6
71 B5 - 71 B35	71	6	137	---	---	270	---	215	---	---	---	7	---
80 B3 - 80▲	80	8	163	15	21	298	---	214	---	118	162	9	M6
80 B5 - 80 B35	80	8	163	---	---	318	---	234	---	---	---	9	---

Shaft - Arbre - Welle - Eje - Albero

Type	ø D	F	GA	GD	ø TTP	u
56 B3 - 56▲	9	3	10.2	3	M3	9
56 B5 - 56 B35	9	3	10.2	3	M3	9
63 B3 - 63▲	11	4	12.5	4	M4	10
63 B5 - 63 B35	11	4	12.5	4	M4	10
71 B3 - 71▲	14	5	16.0	5	M5	12
71 B5 - 71 B35	14	5	16.0	5	M5	12
80 B3 - 80▲	19	6	21.5	6	M6	15
80 B5 - 80 B35	19	6	21.5	6	M6	15

Flanges - Brides - Flansch - Bridas - Flange

Type	LA	ø M	ø N	ø P	T	ø TLB
56 B5 B35	7	100	80	120	3.0	7
63 B5 B35	8	115	95	140	3.0	9
71 B5 B35	8	130	110	160	3.5	9
80 B5 B35	10	165	130	200	3.5	11

AD =



With cable gland
Avec presse-étoupe
Mit Kabelpresse
Con prensacables
Con pressacavo



Short
Court
Kurz
Corto
Corto



Pads
Bossages
Beschläge
Abolladoras
Borchie

GB

Unventilated motors

F

Moteurs non ventilés

D

Motoren unbelüftet

E

Motores no ventilados

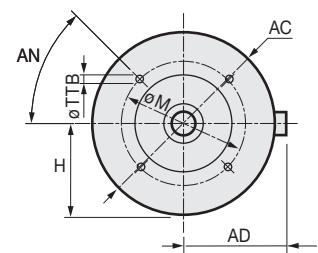
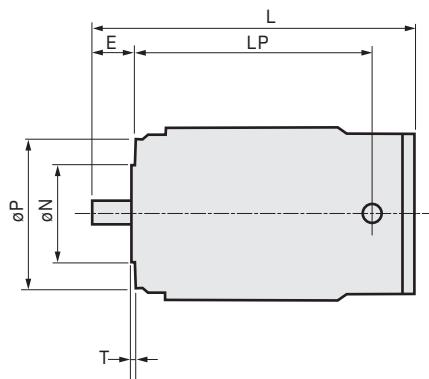
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Motori non ventilati

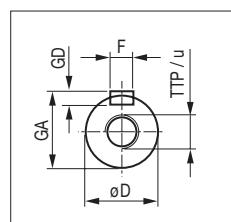
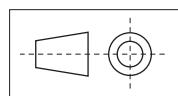
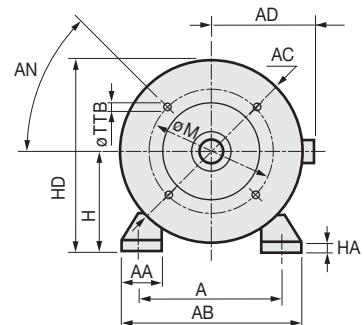
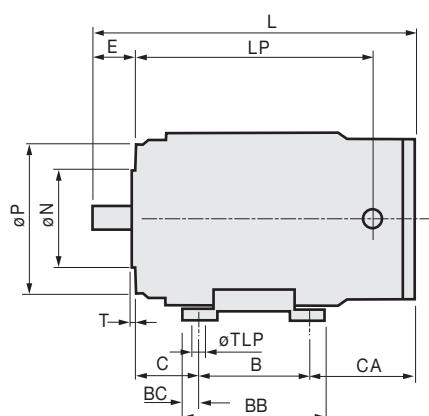
5.

56÷80 IM B14 IM B34

IM B14



IM B34



Overall dimensions [mm]

GB

Dimensions [mm]

F

Abmessungen [mm]

D

Dimensiones [mm]

E

Dimensioni d'ingombro [mm]

I

Structure - Structure - Gehäuse - Estructura - Struttura

Type	A	AA	AB	ø AC	AD	AN	BN	B	BB	BC	C	CA	E
56 B14 B34	90	---	110	108	85	45°	45°	71	95	12	36	46	20
63 B14 B34	100	30	126	132	74	45°	45°	80	100	10	40	105	23
71 B14 B34	112	36	138	132	74	45°	45°	90	110	10	45	90	30
80 B14 B34	125	35	155	162	112	45°	45°	100	124	12	50	108	40

Type	H	HA	HC	JA	JB	L	LP	LW	LX	ø TLP
56 B14 B34	56	3	113	7	7	207	227	150	170	---
63 B14 B34	63	5	129	15	21	248	---	200	---	---
71 B14 B34	71	6	137	15	21	255	---	200	---	---
80 B14 B34	80	8	163	15	21	298	---	214	---	---

Shaft - Arbre - Welle - Eje - Albero

Type	ø D	F	GA	GD	ø TTP	u
56 B14 B34	9	3	10.2	3	M3	9
63 B14 B34	11	4	12.5	4	M4	10
71 B14 B34	14	5	16.0	5	M5	12
80 B14 B34	19	6	21.5	6	M6	15

Flanges - Brides - Flansch - Bridas - Flange

Type	ø M	ø N	ø P	T	ø TTB
56 B14 B34	65	50	85	2.5	M5
63 B14 B34	75	60	90	2.5	M5
71 B14 B34	85	70	105	2.5	M6
80 B14 B34	100	80	120	3.0	M6

AD =

With cable gland
Avec presse-étoupe
Mit Kabelpresse
Con prensacables
Con pressacavo



Short
Court
Kurz
Corto
Corto



Long
Long
Lang
Largo
Lungo

GB

Self-braking motors

F

Moteurs freins

D

Selbstbremsende Motoren

E

Motores con freno

I

Motori autofrenanti

5.

5.3

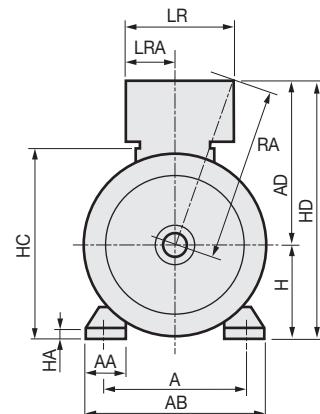
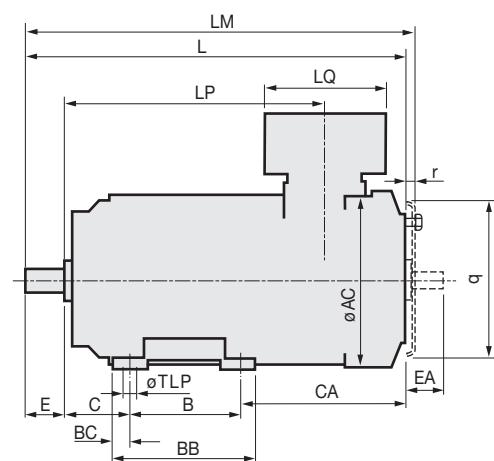
63:80

IM B3

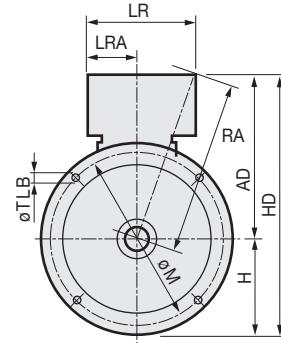
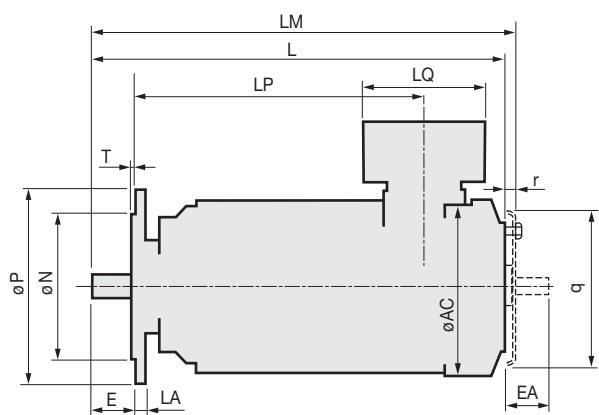
IM B5

IM B35

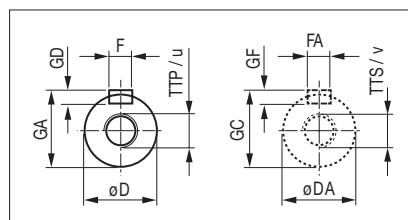
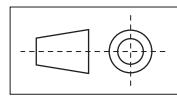
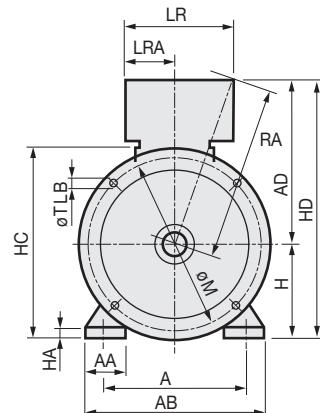
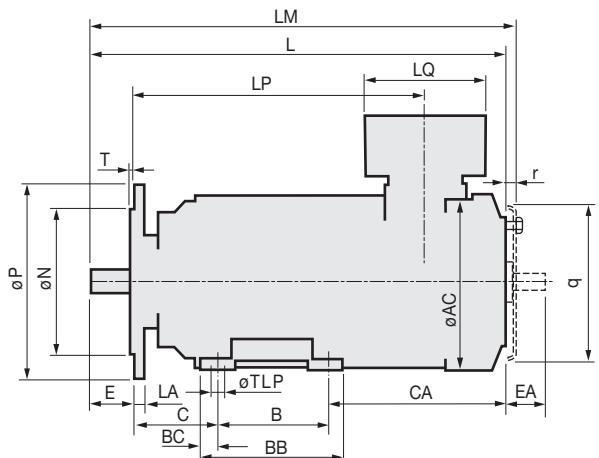
IM B3



IM B5



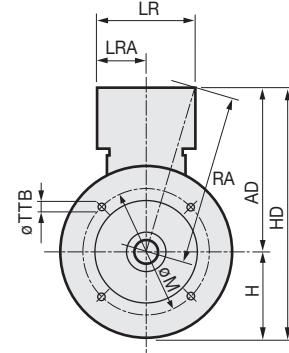
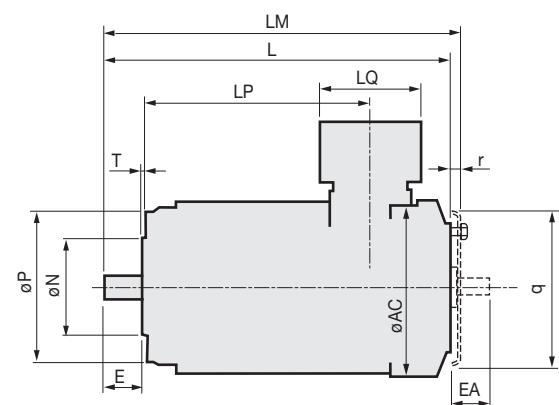
IM B35



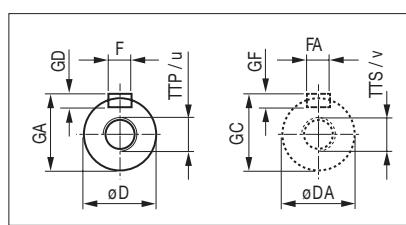
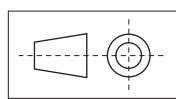
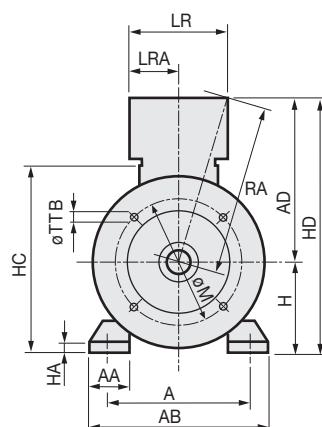
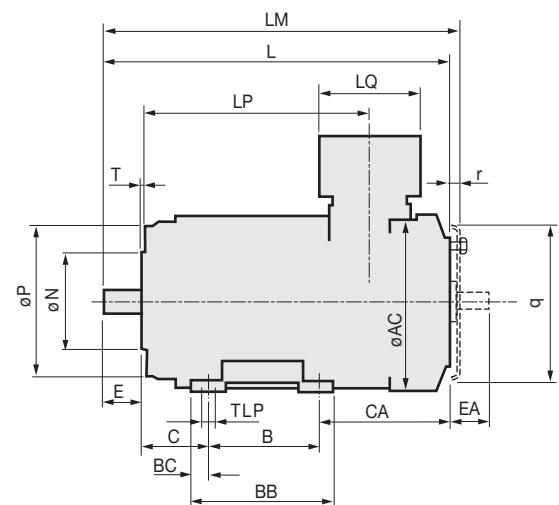
Overall dimensions [mm]
GB
Dimensions [mm]
F
Abmessungen [mm]
D
Dimensiones [mm]
E
Dimensioni d'ingombro [mm]
I

Structure - Structure - Gehäuse - Estructura - Struttura																										
Type	A	AA	AB	ø AC	B	BB	BC	C	CA		E	H	HA	HC	L		LM									
	◆	▲							◆	▲	EA				◆	▲	◆	▲								
63 B3	100	30	126	132	80	100	10	40	165	189	23	63	5	135	309	333	332	356								
63 B5 B35	100	30	126	132	80	100	10	55	165	189	23	63	5	135	324	348	347	371								
71 B3	112	36	138	132	90	110	10	45	150	174	30	71	6	143	316	340	339	363								
71 B5 B35	112	36	138	132	90	110	10	60	150	174	30	71	6	143	331	355	354	378								
80 B3	125	35	155	162	100	124	12	50	176	196	40	80	8	165	366	386	389	409								
80 B5 B35	125	35	155	162	100	124	12	70	176	196	40	80	8	165	386	406	409	429								
Type	LP		ø q	r	ø TLP																					
63 B3	197	221	118	23	7																					
63 B5 B35	212	236	118	23	7																					
71 B3	197	221	118	23	7																					
71 B5 B35	212	236	118	23	7																					
80 B3	252	272	146	23	9																					
80 B5 B35	272	292	146	23	9																					
Terminal box - Boîte à bornes - Klemmkasten - Caja de bornes - Morsettiera																										
Type	AD			HD			LQ			LR			RA			LRA										
63 B3	164			227			144			144			174			68										
63 B5 B35	164			227			144			144			174			68										
71 B3	164			235			144			144			174			68										
71 B5 B35	164			235			144			144			174			68										
80 B3	175			255			144			144			184			68										
80 B5 B35	175			255			144			144			184			68										
Shaft - Arbre - Welle - Eje - Albero																										
Type	ø D	F	GA	GD	ø TTP	u																				
	ø DA _{max}	FA	GC	GF	ø TTS	v																				
63 B3	11	4	12.5	4	M4	10																				
63 B5 B35	11	4	12.5	4	M4	10																				
71 B3	14	5	16.0	5	M5	12																				
71 B5 B35	14	5	16.0	5	M5	12																				
80 B3	19	6	21.5	6	M6	15																				
80 B5 B35	19	6	21.5	6	M6	15																				
Flanges - Brides - Flansch - Bridas - Flange																										
Type	LA	ø M	ø N	ø P	T	ø TLB																				
63 B5 B35	8	115	95	140	3.0	9																				
71 B5 B35	8	130	110	160	3.5	9																				
80 B5 B35	10	165	130	200	3.5	11																				
◆ ▲																										
Frame size Frame size																										
Pole Pole																										
Power Power																										
Hauteur d'axe Hauteur d'axe																										
Pôles Pôles																										
Größe Größe																										
Tamaño Tamaño																										
Altezza d'asse Altezza d'asse																										
Poli Poli																										
Potenza Potenza																										
63/71 63/71																										
2; 4 2; 4																										
≤ 0.18 [kW] > 0.18 [kW]																										
80 80																										
6 6																										
≤ 0.37 [kW] > 0.37 [kW]																										
8 8																										
≤ 0.25 [kW] > 0.25 [kW]																										

IM B14



IM B34



Overall dimensions [mm]

GB

Dimensions [mm]

F

Abmessungen [mm]

D

Dimensiones [mm]

E

Dimensioni d'ingombro [mm]

I

Structure - Structure - Gehäuse - Estructura - Struttura

Type	A	AA	AB	ø AC	B	BB	BC	C	CA		E EA	H	HA	HC	L		LM	
									◆	▲					◆	▲	◆	▲
63 B14 B34	100	30	126	132	80	100	10	40	165	189	23	63	5	135	309	333	332	356
71 B14 B34	112	36	138	132	90	110	10	45	150	174	30	71	6	143	316	340	347	371
80 B14 B34	125	35	155	162	100	124	12	50	176	196	40	80	8	165	366	386	389	409

Type LP ◆ ▲ ø q r ø TLP

63 B14 B34	197	221	118	23	7
71 B14 B34	197	221	118	23	7
80 B14 B34	252	272	146	23	9

Terminal box - Boîte à bornes - Klemmkasten - Caja de bornes - Morsettiera

Type	AD	HD	LQ	LR	RA	LRA
63 B14 B34	164	227	144	144	174	68
71 B14 B34	164	235	144	144	174	68
80 B14 B34	175	255	144	144	184	68

Shaft - Arbre - Welle - Eje - Albero

Type	ø D ø DA _{max}	F FA	GA GC	GD GF	ø TPP ø TTS	u v
63 B14 B34	11	4	12.5	4	M4	10
71 B14 B34	14	5	16.0	5	M5	12
80 B14 B34	19	6	21.5	6	M6	15

Flanges - Brides - Flansch - Bridas - Flange

Type	ø M	ø N	ø P	T	ø TTB
63 B14 B34	75	60	90	2.5	M5
71 B14 B34	85	70	105	2.5	M6
80 B14 B34	100	80	120	3.0	M6

◆	Frame size	Pole	Power
Hauteur d'axe	Pôles	Puissance	
Größe	Polig	Leistung	
Tamaño	Polos	Potencia	
Altezza d'asse	Poli	Potenza	
63/71	2; 4	≤ 0.18 [kW]	
80	2; 4 6 8	≤ 0.75 [kW] ≤ 0.37 [kW] ≤ 0.25 [kW]	

▲	Frame size	Pole	Power
Hauteur d'axe	Pôles	Puissance	
Größe	Polig	Leistung	
Tamaño	Polos	Potencia	
Altezza d'asse	Poli	Potenza	
63/71	2; 4 6; 8	> 0.18 [kW] > 0.075 [kW]	
80	2; 4 6 8	> 0.75 [kW] > 0.37 [kW] > 0.25 [kW]	

6. Spare parts

- 6.1 Spare parts for ventilated three-phase motors
- 6.2 Spare parts for unventilated three-phase motors

6. Pièces détachées

- 6.1 Pièces détachées moteurs triphasés ventilés
- 6.2 Pièces détachées moteurs triphasés non ventilés

6. Ersatzteilliste

- 6.1 Ersatzteile für Drehstrommotoren belüftet
- 6.2 Ersatzteile für Drehstrommotoren unbelüftet

6. Piezas de repuesto

- 6.1 Piezas de repuesto motores trifásicos ventilados
- 6.2 Piezas de repuesto motores trifásicos no ventilados

6. Parti di ricambio

- 6.1 Parti di ricambio motori trifase ventilati
- 6.2 Parti di ricambio motori trifase non ventilati

GB

Spare parts for ventilated three-phase motors

F

Pièces détachées moteurs triphasés ventilés

D

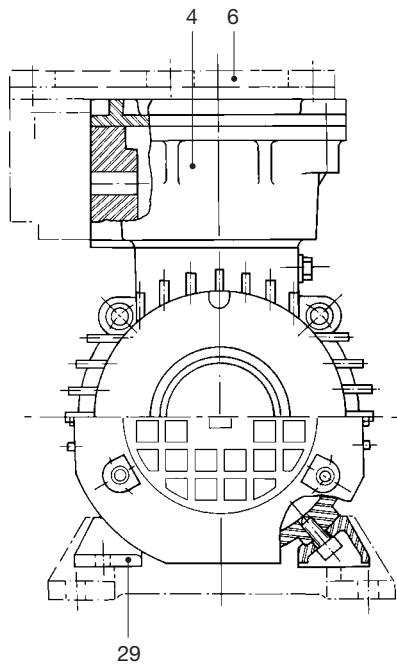
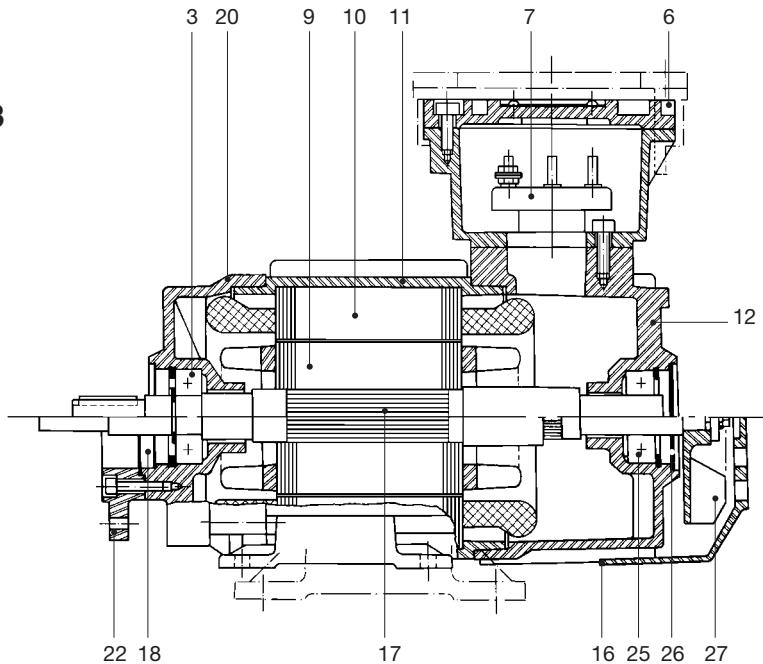
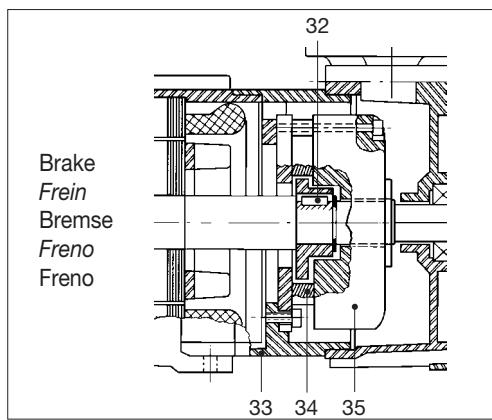
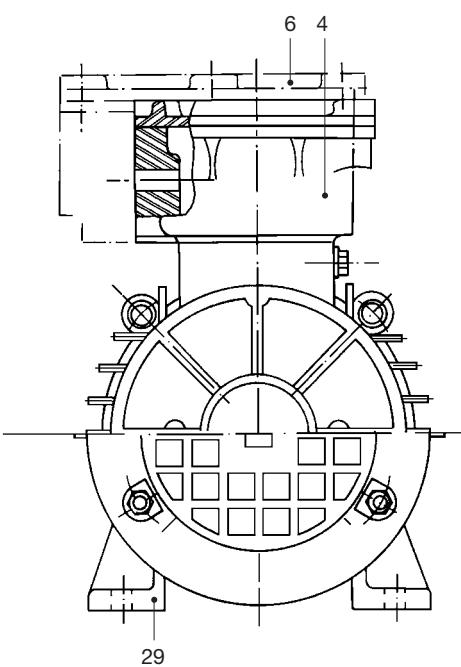
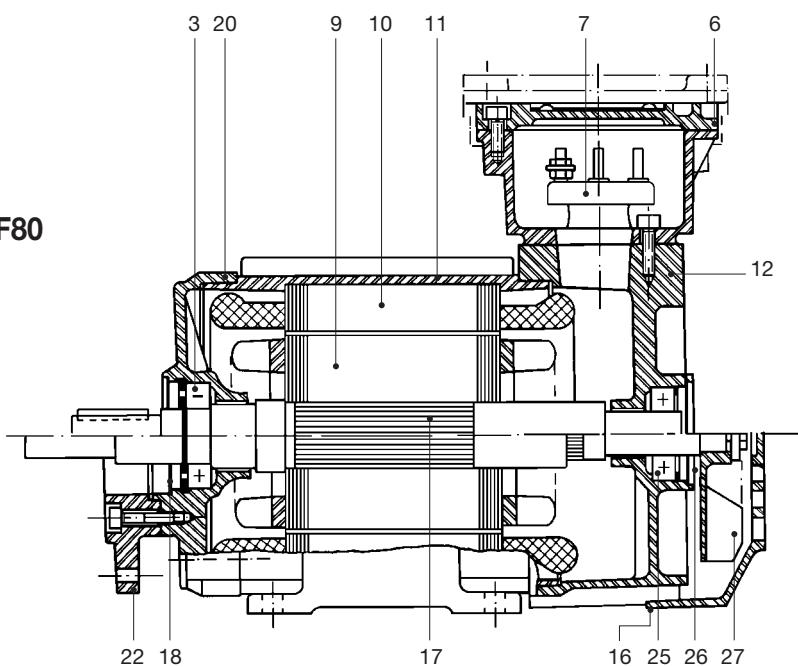
Ersatzteile für Drehstrommotoren belüftet

E

Piezas de repuesto motores trifásicos ventilados

I

Parti di ricambio motori trifase ventilati

6.**6.1****F63
F71****F80**

GB

- | | | |
|--------------------------------------|--------------------------------------|-------------------------------|
| 3 Bearing, driving end, | 16 Fan cover | 29 Feet/Sliding block |
| 4 Terminal box | 17 Shaft | (32) Brake feather key |
| 6 Terminal box cover | 18 Dust seal, driving end | (33) Spacer-rim |
| 7 Terminal holder plate | 20 Endshield, driving end | (34) Brake disk |
| 9 Rotor | 22 Flange insert | (35) Brake |
| 10 Stator | 25 Bearing, non-driving end | |
| 11 Frame | 26 Dust seal, non driving-end | |
| 12 Endshield, non-driving end | 27 Fan | |

F

- | | | |
|-----------------------------------|--------------------------------------|---------------------------------|
| 3 Roulement avant | 16 Capot de ventilateur | 29 Patin |
| 4 Boîte à bornes | 17 Arbre | (32) Clavette de frein |
| 6 Couvercle boîte à bornes | 18 Bague avant d'étanchéité | (33) Couronne-entretoise |
| 7 Plaque a bornes | 20 Flasque avant | (34) Garniture de frein |
| 9 Rotor | 22 Bride rapportée | (35) Frein |
| 10 Stator | 25 Roulement arrière | |
| 11 Carcasse | 26 Bague arrière d'étanchéité | |
| 12 Flasque arrière | 27 Ventilateur | |

D

- | | | |
|-------------------------------|---------------------------------|--------------------------------|
| 3 Kugellager A-Seite | 16 Lüfterhaube | 29 Motorfuß |
| 4 Klemmbrett | 17 Welle | (32) Bremskeil |
| 6 Klemmkastendeckel | 18 Dichtring A-Seite | (33) Kranz-Distanzstück |
| 7 Klemmkastenplatte | 20 Lagerschild A-Seite | (34) Bremsdichtung |
| 9 Rotor | 22 Flansch Antriebsseite | (35) Bremse |
| 10 Stator | 25 Kugellager B-Seite | |
| 11 Motorgehäuse | 26 Dichtring B-Seite | |
| 12 Lagerschild B-Seite | 27 Lüfterrad | |

E

- | | | |
|----------------------------------|--|--------------------------------|
| 3 Cojinete delantero | 16 Casquete cubre ventilador | 29 Pies |
| 4 Caja de bornes | 17 Eje | (32) Lengüeta del freno |
| 6 Cubierta caja de bornes | 18 Anillo de retención delantero. | (33) Corona-distancial |
| 7 Placa porta bornes | 20 Escudo delantero | (34) Junta de frenado |
| 9 Rotor | 22 Brida de acoplamiento | (35) Freno |
| 10 Estator | 25 Cojinete trasero | |
| 11 Armazón | 26 Anillo de retención trasero. | |
| 12 Escudo trasero | 27 Ventilador | |

I

- | | | |
|---------------------------------|---------------------------------------|------------------------------------|
| 3 Cuscinetto anteriore | 16 Calotta copriventola | 29 Piede/Piastra d'appoggio |
| 4 Morsettiera | 17 Albero | (32) Linguetta del freno |
| 6 Coprimorsettiera | 18 Anello di tenuta anteriore | (33) Corona-distanziale |
| 7 Piastra porta morsetti | 20 Scudo anteriore | (34) Guarnizione frenante |
| 9 Rotore | 22 Flangia riportata | (35) Freno |
| 10 Statore | 25 Cuscinetto posteriore | |
| 11 Carcassa | 26 Anello di tenuta posteriore | |
| 12 Scudo posteriore | 27 Ventola | |

GB

Spare parts for unventilated three-phase motors

F

Pièces détachées moteurs triphasés non ventilés

D

Ersatzteile für Drehstrommotoren unbelüftet

E

Piezas de repuesto motores trifásicos no ventilados

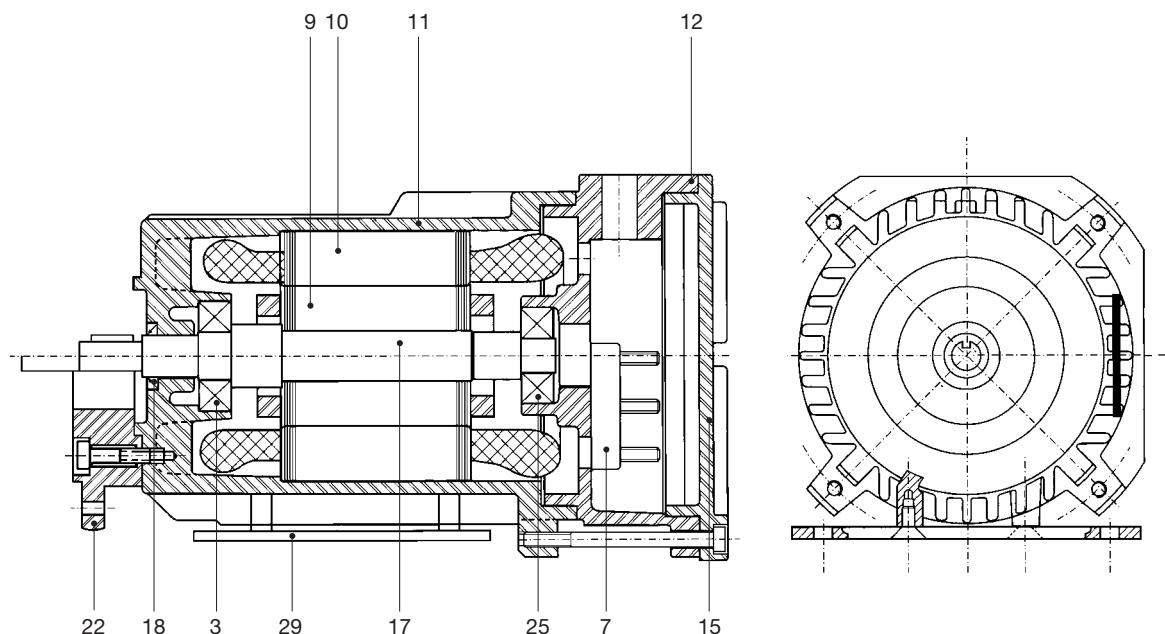
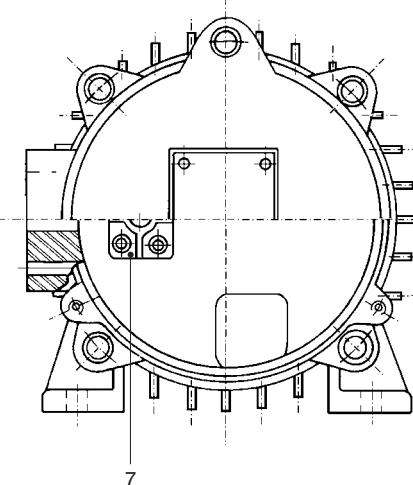
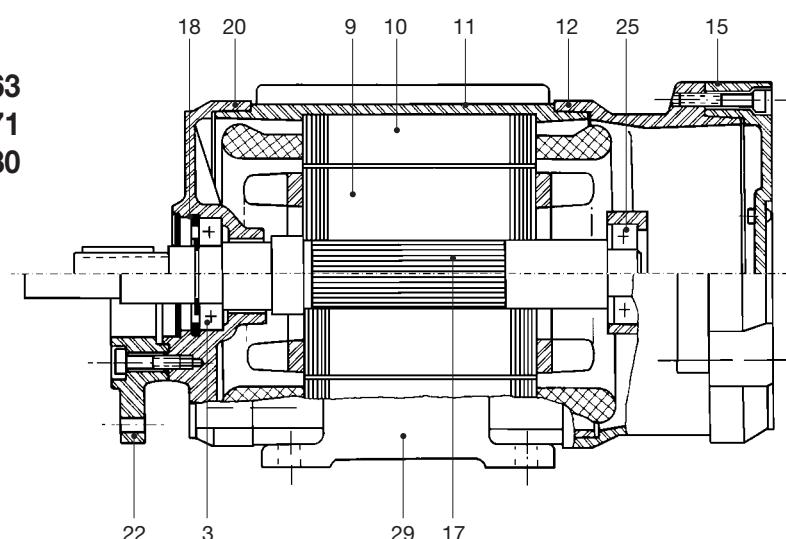
I

Parti di ricambio motori trifase non ventilati

6.

6.2

F56

F63
F71
F80

GB

- | | | | |
|-----------|----------------------------|-----------|--------------------------|
| 3 | Bearing, driving end, | 18 | Dust seal, driving end |
| 7 | Terminal holder plate | 20 | Endshield, driving end |
| 9 | Rotor | 22 | Flange insert |
| 10 | Stator | 25 | Bearing, non-driving end |
| 11 | Frame | 29 | Sliding block |
| 12 | Endshield, non-driving end | | |
| 15 | Rear outside cover | | |
| 17 | Shaft | | |

F

- | | | | |
|-----------|-------------------|-----------|--------------------------|
| 3 | Roulement avant | 18 | Bague avant d'étanchéité |
| 7 | Plaque a bornes | 20 | Flasque avant |
| 9 | Rotor | 22 | Bride rapportée |
| 10 | Stator | 25 | Roulement arrière |
| 11 | Carcasse | 29 | Patin |
| 12 | Flasque arrière | | |
| 15 | Couvercle arrière | | |
| 17 | Arbre | | |

D

- | | | | |
|-----------|----------------------|-----------|-----------------------|
| 3 | Kugellager A-Seite | 18 | Dichtring A-Seite |
| 7 | Klemmbrett | 20 | Lagerschild A-Seite |
| 9 | Rotor | 22 | Flansch Antriebsseite |
| 10 | Stator | 25 | Kugellager B-Seite |
| 11 | Motorgehäuse | 29 | Motorfuß |
| 12 | Lagerschild B-Seite | | |
| 15 | Anschlußkastendeckel | | |
| 17 | Welle | | |

E

- | | | | |
|-----------|---------------------------|-----------|-------------------------------|
| 3 | Cojinete delantero | 18 | Anillo de retención delantero |
| 7 | Placa porta bornes | 20 | Escudo delantero |
| 9 | Rotor | 22 | Brida de acoplamiento |
| 10 | Estator | 25 | Cojinete trasero |
| 11 | Armazón | 29 | Pies |
| 12 | Escudo trasero | | |
| 15 | Casquillo externo trasero | | |
| 17 | Eje | | |

I

- | | | | |
|-----------|-----------------------------|-----------|----------------------------|
| 3 | Cuscinetto anteriore | 18 | Anello di tenuta anteriore |
| 7 | Piastra porta morsetti | 20 | Scudo anteriore |
| 9 | Rotore | 22 | Flangia riportata |
| 10 | Statore | 25 | Cuscinetto posteriore |
| 11 | Carcassa | 29 | Piede/Piastra d'appoggio |
| 12 | Scudo posteriore | | |
| 15 | Fondello esterno posteriore | | |
| 17 | Albero | | |

Sales programme**Programme****Verkaufsprogramm****Programa de venta****Programma di vendita**

Flameproof-Explosion proof motors
Ex d, Ex de
 • frame size 56 ÷ 315
 • power 0.06 ÷ 200 kW
 • threephase,
 1 or 2 speed,
 singlephase
 • ventilated, unventilated
 • group I, IIA, IIB, IIC
 • category M2, 2G, 2D, 2GD
 • temperature class T3, T4, T5, T6
 • maximum surface temperature [°C] T150, 135, 125, 100, 85, 70
 • with brake

Moteurs antidéflagrants
Ex d, Ex de
 • hauteur d'axe 56 ÷ 315
 • puissance 0.06 ÷ 200 kW
 • triphasés,
 à 1 ou 2 vitesses,
 monophasés
 • ventilés, non ventilés
 • groupe I, IIA, IIB, IIC
 • catégorie M2, 2G, 2D, 2GD
 • classes de température T3, T4, T5, T6
 • température superficielle maximum [°C] T150, 135, 125, 100, 85, 70
 • avec frein

Explosionsgeschützte Motoren
Ex d, Ex de
 • Baugrößen 56 ÷ 315
 • Leistung 0.06 ÷ 200 kW
 • Drehstrommotoren,
 1 oder 2 Geschwindigkeiten,
 Einphasenmotoren
 • mit Lüftung, ohne Lüftung
 • Gruppe I, IIA, IIB, IIC
 • Kategorie M2, 2G, 2D, 2GD
 • Temperaturklassen T3, T4, T5, T6
 • maximale Oberflächen-temperatur [°C] T150, 135, 125, 100, 85, 70
 • mit Bremse

Motores antideflagrantes
Ex d, Ex de
 • tamaños 56 ÷ 315
 • potencia 0.06 ÷ 200 kW
 • trifásicos,
 1 o 2 velocidades,
 monofásicos
 • autoventilados o no
 • grupo I, IIA, IIB, IIC
 • categoría M2, 2G, 2D, 2GD
 • clase temperatura T3, T4, T5, T6
 • máxima temperatura superficial [°C] T150, 135, 125, 100, 85, 70
 • con freno

Motori antideflagranti
Ex d, Ex de
 • altezza d'asse 56 ÷ 315
 • potenze 0.06 ÷ 200 kW
 • trifase,
 1 o 2 velocità,
 monofase
 • ventilato, non ventilato
 • gruppo I, IIA, IIB, IIC
 • categoria M2, 2G, 2D, 2GD
 • classi di temperatura T3, T4, T5, T6
 • massima temperatura superficiale [°C] T150, 135, 125, 100, 85, 70
 • con freno

Increased safety motors

Ex e
 • frame size 63 ÷ 132
 • power 0.12 ÷ 7.5 kW
 • threephase
 • group II
 • category 2G
 • temperature class T3

Moteurs à sécurité augmentée

Ex e
 • hauteur d'axe 63 ÷ 132
 • puissance 0.12 ÷ 7.5 kW
 • triphasés
 • groupe II
 • catégorie 2G
 • classes de température T3

Motoren für erhöhte Sicherheit

Ex e
 • Baugrößen 63 ÷ 132
 • Leistung 0.12 ÷ 7.5 kW
 • Drehstrommotoren
 • Gruppe II
 • Kategorie 2G
 • Temperaturklassen T3

Motores de seguridad aumentada

Ex e
 • tamaños 63 ÷ 132
 • potencia 0.12 ÷ 7.5 kW
 • trifásicos
 • grupo II
 • categoría 2G
 • clase temperatura T3

Motori a sicurezza aumentata

Ex e
 • altezza d'asse 63 ÷ 132
 • potenze 0.12 ÷ 7.5 kW
 • trifase
 • gruppo II
 • categoria 2G
 • classe di temperatura T3

Non sparking motors

Ex nA
 • frame size 63 ÷ 315
 • power 0.12 ÷ 132 kW
 • threephase,
 1 or 2 speed
 • group II
 • category 3G, 3GD
 • temperature class T3

Moteurs anti-étincelles

Ex nA
 • hauteur d'axe 63 ÷ 315
 • puissance 0.12 ÷ 132 kW
 • triphasés,
 à 1 ou 2 vitesses
 • groupe II
 • catégorie 3G, 3GD
 • classes de température T3

Funkenfreie Motoren

Ex nA
 • Baugrößen 63 ÷ 315
 • Leistung 0.12 ÷ 132 kW
 • Drehstrommotoren,
 1 oder 2 Geschwindigkeiten
 • Gruppe II
 • Kategorie 3G, 3GD
 • Temperaturklassen T3

Motores no sparking

Ex nA
 • tamaños 63 ÷ 315
 • potencia 0.12 ÷ 132 kW
 • trifásicos,
 1 o 2 velocidades
 • grupo II
 • categoría 3G, 3GD
 • clase temperatura T3

Motori non sparking

Ex nA
 • altezza d'asse 63 ÷ 315
 • potenze 0.12 ÷ 132 kW
 • trifase,
 1 o 2 velocità
 • gruppo II
 • categoria 3G, 3GD
 • classe di temperatura T3

Totally enclosed fan cooled IEC motors

• frame size 63 ÷ 315
 • power 0.12 ÷ 132 kW
 • threephase,
 1 or 2 speed
 • category 3D
 • protection IP55

Moteurs fermés IP55 CEI/IEC avec ventilation extérieure

• hauteur d'axe 63 ÷ 315
 • puissance 0.12 ÷ 132 kW
 • triphasés,
 à 1 ou 2 vitesses
 • catégorie 3D
 • protection IP55

Geschlossene Motoren mit Fremdbelüftung nach IEC

• Baugrößen 63 ÷ 315
 • Leistung 0.12 ÷ 132 kW
 • Drehstrommotoren,
 1 oder 2 Geschwindigkeiten
 • Gruppe II
 • Kategorie 3D
 • Schutzart IP55

Motores cerrados con ventilación exterior IP55

• tamaños 63 ÷ 315
 • potencia 0.12 ÷ 132 kW
 • trifásicos,
 1 o 2 velocidades
 • categoría 3D
 • protección IP55

Motori chiusi con ventilazione esterna CEI/IEC

• altezza d'asse 63 ÷ 315
 • potenze 0.12 ÷ 132 kW
 • trifase,
 1 o 2 velocità
 • categoria 3D
 • protezione IP55

Centrifugal flameproof electric pumps for printing machines

Ex d - Ex de
 • group IIB, IIC
 • output over 300 l/min
 • head up to 15 m
 • stem length
 170 ÷ 550 mm
 • special applications
 • detachable motor from the pump unit

Electropompes centrifuges antidéflagrantes pour machines d'imprimerie

Ex d - Ex de
 • groupe IIB, IIC
 • débit supérieur à 300 l/min
 • hauteur de refoulement jusqu'à 15 m
 • corps immerge
 170 ÷ 550 mm
 • applications spéciales
 • moteur détachable de l'unité pompe

Explosionsgeschützte Zentrifugal-Elektropumpen für Druckmaschinen

Ex d - Ex de
 • Gruppe IIB, IIC
 • Leistung bis 300 l/min
 • Bis zu 15 m Förderhöhe
 • Eintauchtiefe
 170 ÷ 550 mm
 • Sonderanwendungen
 • Motor vom Pumpenkörper abnehmbar

Electrobombas centrífugas antideflagrantes para máquinas de impresión

Ex d - Ex de
 • grupo IIB, IIC
 • capacidad: más 300 l/min
 • altura: hasta 15 m
 • cuerpos sumergidos
 170 ÷ 550 mm
 • aplicaciones especiales
 • motor separable del cuerpo bomba

Elettropompe centrifughe antideflagranti per macchine da stampa

Ex d - Ex de
 • gruppo IIB, IIC
 • portate oltre 300 l/min
 • prevalenze: fino a 15 m
 • corpi immersi
 170 ÷ 550 mm
 • applicazioni speciali
 • motore separabile dal corpo pompa

Centrifugal electric pumps for machine tools

• submersible
 • output over 300 l/min
 • head up to 30 m
 • stem length
 90 ÷ 550 mm
 • special applications

Electropompes centrifuges pour machines-outils

• immergables
 • débit supérieur à 300 l/min
 • hauteur de refoulement jusqu'à 30 m
 • corps immerge
 90 ÷ 550 mm
 • applications spéciales

Elektropumpen für Werkzeugmaschinen

• Eintauchfähig
 • Leistung mehr als 300 l/min
 • Bis zu 30 m Förderhöhe
 • Eintauchtiefe
 90 ÷ 550 mm
 • Sonderanwendungen

Electrobombas centrífugas para máquinas herramientas

• sumergibles
 • capacidad: más 300 l/min
 • altura: hasta 30 m
 • cuerpos sumergidos
 90 ÷ 550 mm
 • aplicaciones especiales

Elettropompe centrifughe per macchine utensili

• ad immersione
 • portate oltre 300 l/min
 • prevalenze fino a 30 m
 • corpi immersi
 90 ÷ 550 mm
 • applicazioni speciali

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