Standards, Regulations
Terminology

Motor power labelling

Axis height 63, 71, 80, 90, 100, 112, 132, 160, 180, 200, 225, 250

Power code

S, M, L	Standard power (without efficiency class IEx)
SA, MA, LA, MB, LB	Increased power (without efficiency class IEx)
MX, LX	Standard power with lower axis height (without efficiency class IEx)
S_, M_, L_	Standard power with efficiency class IEx
X_, W_	Standard power with lower axis height with efficiency class IEx
A_	Increased power "L" with efficiency class IEx
R_	Reduced power with greater axis height with efficiency class IEx

Effiziency class Normal (IE1) H=high (IE2) P=premium (IE3)

Number of poles Standard: 2, 4, 6, 8-4, 4-2, 8-2... with IE2 + IE3: 4-pole other pole numbers on request

Motor type Only labelled on motors with special features

CUS	Motors approved according to UL and CSA
AR	Energy-efficient motors for Brazil "Alto Rendimento"(high efficiency)
KR	Energy-efficient motors for Korea

Options ⇨ 🕮 A7, A21

Example

100	L	H	/	4	CUS	RD	=	Axis height 100	Power code L	Efficiency class H(IE2)	Number of poles 4	Motor type CUS	Option RD

Examples

	IE1 + Standard	IE2	IE3
1,5 kW	90 L/4	90 LH/4	90 LP/4
2,2 kW	100 L/4	100 LH/4	100 LP/4
3,0 kW	100 LA/4	100 AH/4	100 AP/4
18,5 kW	180 MX/4	180 MH/4	180 MP/4
22,0 kW	180 LX/4	180 LH/4	180 LP/4
30,0 kW	200 LX/4	200 XH/4	225 RP/4

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Options

Abbreviation	Meaning
BRE +	Brake/brake torque + sub-options
DBR +	Double brake + sub options
Sub option (⇨ 📖 B13-14) RG *	Rust protected version
SR *	Dust and rust protected version
IR *	Current relay
FHL *	Lockable manual release
HL	Manual release
MIK	Microswitch
AS55	Outdoor installation
(*	Not for DBR)
BSH	Standstill heater/brake
NRB1/2	Noise-reduced brake
ERD	External earthing terminal
TF	Thermistor, PTC resistor
TW	Temperature sensor, bi-metal
SH	Standstill heating
WU	Silumin rotor
Z	Heavy fan, cast-iron fan
WE +	2. Shaft journal
HR	Hand wheel
RD	Protective shield
RDT	Protective shield, textile fan cowl
RDD	Double fan cowl
AS66	Outdoor installation

Abbreviation	Meaning
OL	Without fan
OL/H	Without fan, without fan cowl
KB	Closed condensation drain hole
MS	Motor plug connection
EKK	One-piece terminal box
KKV	Encapsulated terminal box
FEU	Humidity protection insulation
TRO	Tropical protection insulation
F	External fan
RLS	Backstop
IG1 (IG11, 12)	1024 pulse incremental encoder
IG2 (IG21, 22)	2048 pulse incremental encoder
IG4 (IG41, 42)	4096 pulse incremental encoder
IG.K	Encoder with terminal box
MG	Magnetic incremental encoder
IG	Incremental encoder
AG	Absolute encoder

Versions

Versions according to DIN EN 60034-7

The same dimensions apply for the following versions:

IM B3 ⇨ IM B6, IM B7, IM B8, IM V5, IM V6
IM B5 ⇨ IM V1, IM V3
IM B14 ⇨ IM V18, IM V19

The motors can be ordered in the basic version and operated according to the above list (universal version) The installation position must be stated for versions with a condensation drain hole (KB). For versions IM V5, IM V1, IM V18 we recommend the version with a protective shield (RD).

The labelled installation position of the gear unit must be observed for geared motors.

Dimension designations as per DIN ISO 50347

⇨ 📖 D2-21 Fits:

D, DA	≤ 30	j 6
	> 30	k6
N	≤ 250	j 6
	> 250	h6
H		-0,5

Parallel key grooves + parallel keys as per DIN 6885/1
Threaded holes DB + DC as per DIN 332/2

Classification of power, shaft journals and flanges;
Shaft parallelism / foot surface; shaft concentricity
Flange / Shaft runout as per DIN EN 50347

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