

ELECTRIC MOTORS





Explosion protection

Marking	I M2 Ex de I Mb
	I M2 Ex d I Mb

Technical data

Frame sizes	71-80-90-100-112-132-160-180-200-225-250-280
Power	0.18 kW to 90 kW
Voltage	Motors 380 V to 1140 V Brake AC 230 V or 400 V
Brake torque	8 to 2000 Nm
Operating duty	S1 to S10, ready for operating with frequency inverters
Frequency	50 Hz and 60 Hz
Single speed	2, 4, 6, 8 pole
Pole changing	4/2, 8/4, 6/4, 8/6, other on request

Insulation class	F and H
Protection class	IP 55, possible up to IP 65
Ambient temperature	-20 °C to +40 °C
Thermal protection in winding	3 x PTC, possible also PTO or Pt100
Thermal protection in bearings	PTC, PTO or Pt100
Anticondensation protection	Heaters in winding AC 220 V
Additional regreasing	grease nipples
Cooling	air, TEFC
Material of enclosure	Cast iron
Cable glands	1 x for power supply, 1 x for protection, Ex e or Ex d

Certifications

Type	Motor				Brake
	ATEX		IECEx		ATEX
	BVS 15 ATEX E 037 X	FTZU 14 ATEX 0060X	IECEx BVS 15.0031X	IECEx FTZU 15.0006X	INERSIS 06 ATEX 0047X/03
4KTCR 71	●		●		●
4KTCR 80	●		●		●
4KTCR 90	●		●		●
4KTCR 100	●		●		●
4KTCR 112	●		●		●
4KTCR 132	●		●		●
4KTCR 160	●		●		●
4KTCR 180	●		●		●
4KTCR 200	●		●		●
4KTCR 225	●		●		●
5KTCR 250					●
5KTCR 280		●		●	●

Frame size	71	80	90	100	112	132	160	180	200	225	250	280	315	355
Special voltage up to 1140 V	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Special frequency	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Frequency inverter drive	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Special power	op	op	op	op	op	op	op	op	op	op	op	op	op	op
Special shaft end	op	op	op	op	op	op	op	op	op	op	op	op	op	op
Free shaft end on NDS-end of motor	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Special flange	op	op	op	op	op	op	op	op	op	op	op	op	op	op
Flange made in R acc. to DIN 42955	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Additional greasing								●	●	●	●	●	●	●
Fixed bearing on AS								●	●	●	●	●	●	●
2RS bearings	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Labyrinth seal								●	●	●	●	●	●	●
Oil seal								●	●	●	●	●	●	●
Protection IP 56	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Protection IP 65	op	op	op	op	op	op	op	op	op	op	op	op	op	op
Protection IP 66	op	op	op	op	op	op	op	op	op	op	op	op	op	op
Protection cover	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Vibrations within R or S limits	●	●	●	●	●	●	●	●	●	●	●	●	●	●
SPM placing							op	op	op	op	op	op	op	op
Special data plate	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Terminal box with Ex d cable glands	op	op	op	op	op	op	op	op	op	op	op	op	op	op
Terminal box with socket	op	op	op	op	op	op	op	op	op	op	op	op	op	op
Thermal protection of winding	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heating of winding against condensation	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Heating of winding at temp. lower -20 °C	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Insulation class H	●	●	●	●	●	●	●	●	●	●	●	●	●	●
Special colour	●	●	●	●	●	●	●	●	●	●	●	●	●	●

● = on request
op = option

Ordering data

- rating in kW
- voltage and frequency
- r.p.m.
- type of motor arrangement (form IM ..)
- mechanical requirements
- special requirements (i.e. H-class thermal insulation, two-shaft, radial bearing seals...).

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