



Explosion-protected motors

SENSE EXPERIENCE
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Explosion-protected motors

Technical data in overview

Motor range	Size 71 to 355 low voltage
Power range	Up to 400 kW (used as thermal class B at 40 °C)
Number of poles	2 – 8
Efficiency class	IE2 according to EN 60034-30
Voltage	Low voltage and voltage range acc. to IEC 60038
Duty type	S1 DOL and S9 inverter acc. VIK, see table
Degree of protection	IP 55
Cooling	IC 411
Mounting	IM B3
Regulations	IEC, EN
Version	VIK 2011
Labelling	Second name plate in terminal box, additional plate for inverter duty with data for square (1:10) and constant (1:5) torque
Stator frame	Cast iron
Terminal box	Cast iron
Fan cover	Zinc-plated (not for Ex d(e))
Regreasing	Life time up to size 315 M, from 315 MX regreasing nipple
Bearing	Ball bearing C3
Winding protection	PTC as additional protection or as only protection
Vibration intensity	A
Balancing	Half key
Ex-protection	Ex nA, Ex e, Ex d(e), Ex tD, non Ex
Noise level	≤ 77 dBA + 3 dBA tolerance
Painting	For chemical industry, paint system FS 07 150 µm
Cable entry	With metric metallic ATEX-cable glands according to VEM catalogue
Screws (outside)	Stainless steel

Ex protection		IP 55	Ex nA	Ex e	Ex tD A22	Ex tD A21	Ex de
Motor range	Size up to	355	355	355	355	355	355
Power range	Max. for 4-pole	430	400	275	400	400	400
Number of poles	2 – 8-pole	x	x	x	x	x	x
Efficiency class	IE2 acc. EN 60034-30	x	x	x	x	x	x
voltage	Low voltage and voltage range acc. IEC 60038	x	x	x	x	x	x
Duty	S1 DOL and S9 inverter duty (< 420 V)	x	x	x ²⁾	x	x ¹⁾	x
Degree of protection	IP 55	x	x	x	x ³⁾	IP 65	x
Cooling	IC 411	x	x	x	x	x	x
Mounting	IM B3	x	x	x	x	x	x
Regulations	IEC, EN	x	x	x	x	x	x
Version	VIK 2011	x	x	x	x	x	x
Labelling	Second plate in terminal box	x	x	x	x	x	x
	additional plate with data for inverter duty	x	x	x ²⁾	x	x ¹⁾	x
Stator frame	Cast iron	x	x	x	x	x	x
Terminal box	Cast iron	x	x	x	x	x	x
Fan cover	Zinc-plated (not for Ex d(e))	x	x	x	x	x	-
Regreasing	Life time up to 315 M, from 315 MX with regreasing nipple	x	x	x	x	x	x
Bearing	Ball bearings C3	x	x	x	x	x	x
Winding protection	PTC as additional protection	x	x	x ⁴⁾	x	x	-
Winding protection	PTC as only protection	-	-	x ⁴⁾	-	-	x
Vibration intensity	B	x	x	x	x	x	x
Balancing	Half key	x	x	x	x	x	x
Noise level	≤ 77 dBA + tolerance	x	x	x	x	x	x
Painting	For chemical industry FS 07 RAL 7031	x	x	x	x	x	x

¹⁾ Ex-certificate including the inverter necessary, ²⁾ special series, ³⁾ IP 65 for conductive dust, ⁴⁾ for inverter duty as only protection

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