

Flameproof motors EEx d, EEx de in brief, basic design

Motor size M2JA/M2KA		80	90	100	112	132	160	180
Stator	Material	Cast iron EN-GJL-200						
	Paint colour shade	Blue, Munsell 8B 4.5/3.25 (= NCS 4822-B05G, RAL 5014)						
	Paint thickness	Alkyd paint, thickness ≥ 70 µm						
Bearing end shields	Material	Cast iron EN-GJL-200						
	Paint colour shade	Blue, Munsell 8B 4.5/3.25 (= NCS 4822-B05G, RAL 5014)						
	Paint thickness	Alkyd paint, thickness ≥ 70 µm						
Bearings	D-end = N-end	6204-2Z/C3	6205-2Z/C3	6206-2Z/C3	6206-2Z/C3	6208-2Z/C3	6309-Z/C3	6310-Z/C3
Axially-locked bearings	Inner bearing cover	As standard, locked at D-end						
Bearing seal		V-ring as standard, radial seal on request						
Lubrication		Permanent grease lubrication Regreasing nipples optional in sizes 160 to 180 (variant code 041)						
SPM-nipples		–						Optional
Rating plate	Material	Stainless steel						
Terminal box	Frame material	Cast iron EN-GJL-200						
	Cover material	Cast iron EN-GJL-200						
	Cover screws material	Acidproof steel (INOX)						
Connections	Cable entries	See pages 18-20						
	Terminals	6 terminals for connection with cable lugs (not included)						
Fan	Material	Reinforced glass fiber laminate						Reinforced glass fiber laminate or aluminium
Fan cover	Material	Steel						
	Paint colour shade	Blue, Munsell 8b 4.5/3.25 (= NCS 4822-B05G, RAL 5014)						
	Paint thickness	Two-pack epoxy polyester paint, thickness ≥ 80 µm						Two-pack polyester paint, thickness ≥ 80 µm
Stator winding	Material	Copper						
	Insulation	Insulation class F						
	Winding protection	On request						3 pcs thermistors as standard
Rotor winding	Material	Pressure die-cast aluminium						
Balancing method		Half key balancing as standard						
Key ways		Open key way						
Heating elements	Optional	25 W	25 W	25 W	25 W	25 W	25 W	25 W
Drain holes		–						Optional
Enclosure		IP 55, higher protection on request						
Cooling method		IC 411						
Mounting arrangements	Foot-mounted	IM B3 (IM1001), IM B6 (IM1051), IM B7 (IM1061), IM B8 (IM1071), IM V5 (IM1011), IM V6 (IM1031)						
	Flange-mounted	IM B5 (IM3001), IM V1 (IM3011), IM V3 (IM3031) IM B14 (IM3601), V18 (IM3611), V19 (IM3631)						
	Foot- and flange-m.	IM B34 (IM2101), IM B35 (IM2001), IM V15 (IM2011), IM V36 (IM2031)						

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Motor size M2JA/M2KA		200	225	250	280	315	355	400	
Stator	Material Paint colour shade	Cast iron EN-GJL-200 Blue, Munsell 8B 4.5/3.25 (= NCS 4822-B05G, RAL 5014)							
	Paint thickness	Alkyd paint, thickness ≥ 70 µm			Two-pack epoxy paint, thickness ≥ 70 µm				
Bearing end shields	Material Paint colour shade	Cast iron EN-GJL-200 Blue, Munsell 8B 4.5/3.25 (= NCS 4822-B05G, RAL 5014)			Spheroidal graphit EN-GJS-400				
	Paint thickness	Alkyd paint, thickness ≥ 70 µm			Two-pack epoxy paint, thickness ≥ 70 µm				
Bearings	D-end 2-pole 4-12 -pole	6312-Z/C3	6313-Z/C3	6315-Z/C3	6316/C4 6316/C3	6316/C4 6319/C3	6319M/C4 6322/C3	6319M/C4 6322/C3	
	N-end 2-pole 4-12 -pole	6312-Z/C3	6313-Z/C3	6315-Z/C3	6316/C4 6316/C3	6316/C4 6316/C3	6319M/C4 6319/C3	6319M/C4 6319/C3	
Axially-locked bearings	Inner bearing cover	As standard, locked at D-end							
Bearing seals		V-ring as standard, radial seal on request							
Lubrication		Permanent grease lubrication, Regreasing nipples optional (variant code 041)			Regreasing nipples, M10x1				
SPM-nipples		Optional						As standard	
Rating plate	Material	Acid proof stainless steel AISI 316, thickness 0.6 mm							
Terminal box	Frame material	Cast iron EN-GJL-200			Cast iron EN-GJL-150				
	Cover material	Cast iron EN-GJL-200			Cast iron EN-GJL-150				
	Cover screws material	Acidproof steel (INOX)			Steel 5G, coated with zinc and yellow cromated				
Connections	Cable entries Terminals	See pages 18-20 6 terminals for connection with cable lugs (not included)							
Fan	Material	Reinforced glass fiber laminate or aluminium			Reinforced glass fiber laminate, aluminium or polypropylene with metal hub				
Fan cover	Material Paint colour shade	Steel Blue, Munsell 8B 4.5/3.25 (= NCS 4822-B05G, RAL 5014)							
	Paint thickness	Two-pack polyester paint, thickness ≥ 80 µm			Two-pack epoxy polyester paint, thickness ≥ 80 µm				
Stator winding	Material Insulation	Copper Insulation class F							
	Winding protection	3 pcs thermistors as standard							
Rotor winding	Material	Pressure die-cast aluminium			Pressure die-cast aluminium or copper				
Balancing method		Half key balancing as standard							
Key ways		Open kay way							
Heating elements	Optional	25 W	50 W	50 W	50 W	2x50 W	2x65 W	2x65 W	
Drain holes		Optional							
Enclosure		IP 55, higher protection on request							
Cooling method		IC 411							
Mounting arrangements	Foot-mounted	IM B3 (IM1001), IM B6 (IM1051), IM B7 (IM1061), IM B8 (IM1071), IM V5 (IM1011), IM V6 (IM1031)							
	Flange-mounted	IM B5 (IM3001), IM V1 (IM3011), IM V3 (IM3031) ¹⁾ ¹⁾ Motor size 400 LK_ IM B5 and V3 on request.							
	Foot- and flange-m.	IM B35 (IM2001), IM V15 (IM2011), IM V36 (IM2031)							