

Cast iron motors in brief, basic design

Motor size		71	80	90	100	112	132	160	180
Stator	Material	Cast iron GG 20/GRS 200							
	Paint colour shade	Blue, Munsell 8B 4.5/3.25 / NCS 4822 B05G, RAL 5014							
	Paint thickness	Two-pack PUR-paint, thickness $\geq 60 \mu\text{m}$						Two-pack epoxy paint, thickness $\geq 70 \mu\text{m}$	
Bearing end shields	Material	Cast iron GG 15/GRS 150							
	Paint colour shade	Blue, Munsell 8B 4.5/3.25 / NCS 4822 B05G, RAL 5014							
	Paint thickness	Two-pack PUR-paint, thickness $\geq 60 \mu\text{m}$						Two-pack epoxy paint, thickn. $\geq 70 \mu\text{m}$	
Bearings	D-end = N-end	6202 2RS C3	6204 2RS C3	6205 2RS C3	6206 2RS C3	6207 2RS C3	6208 2RS C3	6309 Z/C3	6310- Z/C3
Axially-locked bearings	Inner bearing cover	On request						As standard, locked at D-end	
Bearing seal		2RS-integral seals						Axial seal as standard, radial seal on request	
Lubrication		Greased for life. Regreasing nipples optional in sizes 160 to 180							
SPM-nipples		-						Optional	
Rating plate	Material	Stainless steel 0.80 Cr 18 Ni9						Stainless steel, SS-EN 10088, 0.5mm	
Terminal box	Frame material	Cast iron GG 15/GRS 150							
	Cover material	Cast iron GG 15/GRS 150							
	Cover screws material	Steel 5G, coated with zinc and yellow cromated							
Connections	Cable entries	2xPg11	2xPg16	2xPg16	2xPg21	2xPg21	2xPg21	2xPg29	2xPg29
	Terminals	6 terminals for connection with cable lugs (not included)							
Fan	Material	Reinforced glass fiber							
Fan cover	Material	Steel							
	Paint colour shade	Blue, Munsell 8B 4.5/3.25 / NCS 4822 B05G, RAL 5014							
	Paint thickness	Two-pack PUR-paint, thickness $\geq 60 \mu\text{m}$						Two-pack epoxy polyester paint, thickness $\geq 50 \mu\text{m}$	
Stator winding	Material	Copper							
	Insulation	Insulation class F							
	Winding protection	On request							
Rotor winding	Material	Pressure die-cast aluminium							
Balancing method		Half key balancing as standard							
Key ways		Open key way						Closed key-way	
Heating elements	On request	25 W	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							

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Motor size		200	225	250	280	315	355	400
Stator	Material Paint colour shade	Cast iron GG 15/GRS 150 Blue, Munsell 8B 4.5/3.25 / NCS 4822 B05G, RAL 5014			Cast iron GG 20/GRS 200			
	Paint thickness	Two-pack epoxy paint, thickness $\geq 70 \mu\text{m}$						
Bearing end shields	Material	Cast iron GG 15/GRS 150			Cast iron GG 20/GRS 200, except flange-mounted sizes 355-400 Spheroidal graphit GGG40/GRP400			
	Paint colour shade	Blue, Munsell 8B 4.5/3.25 / NCS 4822 B05G, RAL 5014						
	Paint thickness	Two-pack epoxy paint, thickness $\geq 70 \mu\text{m}$						
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 6319-C3	6319M/C4 6319-C3	6319M/C4 6319-C3
Axially-locked bearings	Inner bearing cover	As standard, locked at D-end						
Bearing seals		Axial seal as standard, radial seal on request			V-ring as standard, radial seal on request			
Lubrication		Greased for life or regreasable bearings			Regreasable bearings, regreasing nipples, M10x1			
SPM-nipples		Optional					As standard	
Rating plate	Material	Stainless steel, SS-EN 10088, thickness 0.5 mm			Acid proof stainless steel AISI 316 thickness 0.6 mm			
Terminal box	Frame material Cover material Cover screws material	Cast iron GG 15/GRS 150 Cast iron GG 15/GRS 150 Steel 5G, coated with zinc and yellow cromated						
Connections	Cable-entries 2-, 4-pole 6-pole	2xPg36	2xPg36	2xPg42	2xPg42 2xPg36	2xPg48 2xPg42	2xØ60/80 2xØ60	2xØ80 2xØ60/80
	Terminals	6 terminals for connection with cable lugs (not included)						
Fan	Material	Reinforced glass fiber			Reinforced glass fiber, 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 epoxy polyester paint, thickness $\geq 50 \mu\text{m}$			Two-pack epoxy polyester paint, thickness $\geq 80 \mu\text{m}$			
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 way		Closed key way			Open key way			
Heating elements	On request	25 W	50 W	50 W	50 W	2x50 W	2x65 W	2x65 W
Drain holes		Optional			As standard, open on delivery			
Enclosure		IP 55, higher protection on request						
Cooling method		IC 411						