

Aluminium motors in brief. Basic design.

Size		63	71	80	90	100
Stator and feet	Material Surface treatment	Diecast aluminium alloy. Feet integrated with stator. One-component modified polyester paint. Munsell blue 8B 4.5/3.25 / NCS 4822 BO5G. •30 µm.				
Bearing end shields	Material Surface treatment	Diecast aluminium alloy. One-component modified polyester paint. Munsell blue 8B 4.5/3.25 / NCS 4822 BO5G. •30 µm.				
Bearings Single-speed motors	D-end N-end	6202-2Z/C3 6202-2Z/C3	6203-2Z/C3 6202-2Z/C3	6204-2Z/C3 6203-2Z/C3	6305-2Z/C3 6204-2Z/C3	6306-2Z/C3 6205-2Z/C3
Bearings Two-speed motors	D-end N-end	6202-2Z/C3 6202-2Z/C3	6203-2Z/C3 6202-2Z/C3	6204-2Z/C3 6203-2Z/C3	6305-2Z/C3 6204-2Z/C3	6306-2Z/C3 6205-2Z/C3
Axially-locked bearings	Inner bearing cover	1) 1) Foot motor. A spring-washer at the N-end presses the rotor towards the D-end.			D-end	D-end
Bearing seals	D-end N-end	V ring. Labyrinth seal.				
Lubrication		Permanently lubricated bearings. Grease for bearing temperatures -25 to +150 °C.				
Terminal box	Material Surface treatment Screws	Diecast aluminium alloy. Similar to stator. Steel 5 G. Galvanised and yellow chromated.				
Connections	Knockout openings	4 x Pr 18.6 4 x Pg 11	4 x Pr 22.5 4 x Pg 16			
	Terminal box Max Cu-area, mm ²	Screw terminal. 6 terminals. 2.5				
Fan	Material	Polypropylene. Reinforced with 20% glass fibre.				
Fan hood	Material	Polypropylene.				
Stator winding	Material Impregnation Insulation class	Copper. Polyester varnish. Tropicalised. Insulation class F. Temperature rise class B, unless otherwise stated.				
Stator winding temperature sensors		See "Stator winding temperature sensors " in the catalogue on p. 10, 33 and 34.				
Rotor winding	Material	Diecast aluminium.				
Enclosure		IP 55.				
Cooling method		IC 411.				
Drain holes		Variant code 066 or 076.				

Aluminium motors in brief. Basic design (cont)

Size		112	132 S	132 M	160	180	200	225	250	
Stator	Material	Diecast aluminium alloy.					Extruded aluminium alloy.			
	Surface treatment	Polyester powder paint. Munsell blue 8B 4.5/3.25 / NCS 4822 BO5G. •50 µm.								
Feet	Material	Aluminium alloy. Integrated with the stator.					Aluminium alloy, bolted to the stator.		250-2, cast iron	
Bearing end shields	Material	Diecast aluminium alloy.				Flanged bearing end shields of cast iron. Other diecast aluminium alloy				
	Surface treatment	Polyester powder paint. Munsell blue 8B 4.5/3.25 / NCS 4822 BO5G. •50 µm.								
Bearings Single-speed motors	D-end	6206-2Z/C3	6208-2Z/C3	6208-2Z/C3	6309-2Z/C3	6310-2Z/C3	6312/C3	6313/C3	6315/C3	
	N-end	6205-2Z/C3	6206-2Z/C3	6206-2Z/C3	6209-2Z/C3	6209-2Z/C3	6210/C3	6212/C3	6213/C3	
Bearings Two-speed motors	D-end	6206-2Z/C3	6208-2Z/C3	6208-2Z/C3	6309-2Z/C3	6310-2Z/C3	6312/C3	6313/C3	6315/C3	
	N-end	6206-2Z/C3	6206-2Z/C3	6208-2Z/C3	6209-2Z/C3	6209-2Z/C3	6210/C3	6212/C3	6213/C3	
Axially-locked bearings	Inner bearing cover	¹⁾	D-end ¹⁾	D-end ¹⁾	D-end	D-end	N-end	N-end	N-end	
¹⁾ Foot motors. A spring-washer at the N-end presses the rotor towards the D-end. Flange-mounted motors: Inner bearing cover and spring-washer at the N-end.										
Bearing seals	D-end	V ring.					Outer and inner V rings.			
	N-end	Two-speed motors sizes 112 and 132 M, V ring. Other labyrinth seal.					Outer and inner V rings.			
Lubrication		Permanently lubricated bearings. Grease for bearing temperatures -30 to +110 °C.					Valve lubrication. Grease for bearing temperatures -30 to +110 °C.			
Terminal box	Material	Diecast aluminium alloy. Base integrated with stator.					Deep-drawn steel sheet, bolted to stator.			
	Surface treatment	Similar to stator.					Phosphated. Polyester paint.			
	Screws	Steel. Galvanised and chromated.								
Connections	Knockout openings	2 x (Pr 28.3 + Pr 22.5) 2 x (Pg 21 + Pg 16)			4 x Pr 37 + 2 x Pr 15.4 4 x Pg 29 + 2 x Pg 9					
	Flange openings						2 x FL 13, 2 x Pr 37 2 x Pg 29			
	Flange openings for voltage code S						2 x FL 21, 2 x Pr 54 2 x Pg 42			
	Terminal box	Cable lugs. 6 terminals.								
	Screws Max Cu-area, mm ²	M5 10	M5 10	M5 10	M6 35	M6 35	M10 70	M10 70	M10 70	
Fan	Material	Polypropylene. Reinforced with 20% glass fibre.								
Fan hood	Material	Polypropylene. See also note ¹⁾ .			Steel sheet. ¹⁾		¹⁾ Also two-speed motors sizes 112 and 132 M.			
	Surface treatment				Phosphated. Polyester paint. ¹⁾					
Stator winding	Material Impregnation Insulation class	Copper. Polyester varnish. Tropicalised. Insulation class F. Temperature rise class B, unless otherwise stated.								
Stator winding temperatur sensors		See "Stator winding temperature sensors " in the catalogue on p. 10, 33.					PTC thermistors. 150 °C. 3 in series.			
Rotor winding	Material	Diecast aluminium.								
Enclosure		IP 55.								
Cooling method		IC 411.								
Drain holes		Drain holes with closable plastic plugs. Open on delivery.								