

Steel motors M2CA in brief, basic design

Motor frame size		280	315	355	400	
Stator	Material	Profile-pressed sheet steel				
	Paint colour shade	Blue, Munsell 8B 4.5/3.25 (NCS 4822-B05G, RAL 5014)				
	Paint thickness	Two-pack epoxy paint, thickness $\geq 70 \mu\text{m}$				
Bearing end shields	Material	Cast iron GG 20/GRS 200 or spheroidal graphit GGG 40/GRP 400				
	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 poles	6316/C4 6316/C3	6316/C4 6319/C3	6319M/P64 6322/C3	6319M/P64 6322/C3
	N-end	2-pole 4-12 poles	6316/C4 6316/C3	6316/C4 6316/C3	6319M/P64 6319/C3	6319M/P64 6319/C3
Axially-locked bearings	Inner bearing cover	As standard, locked at D-end				
Bearing seal		V-ring as standard, radial seal on request				
Lubrication		Regreasing nipples, M10x1 Grease for bearing temperatures -30°C to $+120^{\circ}\text{C}$				
Rating plate		Stainless steel, with individual serial number				
SPM-nipples		On request				
Terminal box	Frame material	Cast iron GG 15 / GRS 150				
	Cover material	Cast iron GG 15 / GRS 150				
	Cover screw material	Steel 5G, coated with zinc and yellow chromated				
Connections	Cable entries	2, 4 pole 6 pole	2 x Pg42 2 x Pg36	2 x Pg48 2 x Pg42	2 x $\text{\O}60/80$ 2 x $\text{\O}60$	2 x $\text{\O}80$ 2 x $\text{\O}60/80$
	Terminals	6 terminals for connection with cable lugs (not included)				
Fan	Material	Reinforced glassfiber laminate, aluminium or polypropylene with metal hub				
Fan cover	Material	Sheet steel				
	Paint colour shade	Blue, Munsell 8B 4.5/3.25 (NCS 4822-B05G, RAL 5014)				
	Paint thickness	Two-pack epoxy polyester paint, thickness $\geq 80 \mu\text{m}$				
Stator winding	Material	Copper				
	Insulation	Insulation class F; temperature rise class B unless otherwise stated.				
	Winding protection	PTC-thermistors 150°C , 3 in series, as standard				
Rotor winding	Material	Pressure die-cast aluminium				
Heating elements	On request	50 W	1 x 65 W	2 x 65 W	2 x 65 W	
Drain holes		As standard, open on delivery				
Enclosure		IP 55, higher protection on request				
Cooling method		IC 411				
Mounting arrangement	Foot-mounted	M 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 IM V3 on request				
	Foot- and flange-mounted	IM B35 (IM2001), IM V15 (IM2011), IM V36 (IM2031)				