

Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV3252C

SIMOTICS SD Premium Insulation - 250 M - IM B3 - 6p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_i/I_N	T_i/T_N	T_B/T_N	
IM B3 / IM 1001			FS 250 M		480 kg	IP55		IEC/EN 60034			IEC, DIN, ISO, VDE, EN						KS C IEC60034-2-1

Environmental conditions : -40 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 27.3 s | 36.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	62.0 / 75.0 dB(A) ²⁾	63.0 / 76.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	1.2700 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 215	6215 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	AERO SHELL GREASE 22		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Special paint finish for offshore applications C5
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	left	Max. cross-sectional area	120.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34.0 mm - 42.0 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	Cable gland	4 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
 M_K/M_N = locked rotor torque / torque nominal
 M_K/M_N = break down torque / nominal torque

1) L10mh according to DIN ISO 281 10/2010
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.
DI MC LVM		DT Configurator		

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L22	Bearing design for increased cantilever forces
D03	Minimum ambient temperature -40°C	L51	Bearing insulation NDE
F74	Sheet steel fan cowl	M1Y	Non-standard winding:
F76	Metal external fan	R62	Cast iron auxiliary terminal box (small)
H07	Stainless steel screws and bolts (outside the motor)	S04	Special paint finish for offshore applications C5

Notes:

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