

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]	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N I_i/I_N	M_A/M_N T_i/T_N	M_k/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
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	right	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. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>
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SIEMENS	document type datasheet	document status released	customer	
	title 1LE1583-2CC29-0AC5-Z B02+D03+F74+F76+H07+L22+L51+M1Y+R62+S04	document number	rev. 01	creation date 2021-07-08 12:02
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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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