

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



Motor type : 1CV3282B

SIMOTICS SD - 280 M - IM B3 - 4p

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				
400	Δ	50	90.00	-/-	157.00	1485	580.0	95.2	95.5	95.3	0.87	0.84	0.76	7.2	2.6	3.0	IE3
460	Δ	60	104.00	-/-	158.00	1785	560.0	95.0	95.3	94.9	0.87	0.85	0.77	7.0	2.6	2.9	IE2
460	Δ	60		-/-													IE3
IM B3 / IM 1001		FS 280 M		670 kg		IP56		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - + °C / m

Locked rotor time (hot / cold) : 31 s | 45.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69.5 / 83.6 dB(A) ²⁾	74.0 / 88.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	1.7000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 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
Relubrication interval/quantity DE NDE	30 g	30 g	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC416 - separately ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	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_A/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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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings
F70	Mounting of separately driven fan	S03	Special paint finish in sea air resistant C4
H22	IP 56 degree of protection	Y50	Temperature class 155(F), utilized acc. to 130(B), customer indication of coolant temperature and/or installation altitude
L51	Bearing insulation NDE	Y82	Auxiliary name plate with customer data
N30	Increased air humidity/temperature with 30 to 60 g water per m3 air		

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