

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



Motor type : 1CV3182A

SIMOTICS SD - 180 M - IM B3 - 2p

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				
500	Δ	50	22.00	-/-	31.00	2950	71.0	92.7	93.2	92.9	0.89	0.86	0.79	7.5	2.3	3.5	IE3
575	Δ	60	24.50	-/-	30.00	3550	66.0	91.7	92.0	91.4	0.89	0.86	0.79	7.7	2.3	3.6	IE3
575	Δ	60	22.00	-/-	27.00	3560	59.0	91.7	91.8	90.9	0.89	0.89	0.80	9.0	2.5	3.9	IE3

IM B3 / IM 1001 FS 180 M 160 kg IP55 IEC/EN 60034 IEC, DIN, ISO, VDE, EN
 Environmental conditions : -20 °C - +40 °C / 1,000 m Locked rotor time (hot / cold) : 19.6 s | 29.9 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73.0 / 80.0 dB(A) ²⁾	78.0 / 85.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.0800 kg m ²		Vibration severity grade	A
Bearing DE NDE	6310 C3	6310 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	15 g 10 g 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish C3
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 NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J01	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs

Notes:
 I_A/I_N = locked rotor current / current nominal
 M_A/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>			
SIEMENS	document type datasheet	document status released		customer			
	title 1LE1603-1EA24-0AB4	document number					
© Siemens AG 2021	rev. 01	creation date 2021-04-23 11:46	language en	Page 1/1			