

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



Motor type : 1CV1282B

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	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL	
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N		
400	Δ	50	90.00	-/-	161.00	1482	580.0	93.0	93.4	93.1	0.87	0.85	0.77	6.5	2.2	2.8	IE1	
690	Y	50	90.00	-/-	93.00	1482	580.0	93.0	93.4	93.1	0.87	0.85	0.77	6.5	2.2	2.8	IE1	
460	Δ	60	104.00	-/-	159.00	1782	560.0	93.5	93.8	93.4	0.88	0.86	0.80	6.5	2.2	2.6	IE1	
IM B3 / IM 1001			FS 280 M		560 kg		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 21.3 s 37.4 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72.0 / 86.0 dB(A) ²⁾	76.0 / 90.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	1.4000 kg m²		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} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	30 g 30 g	8000 h	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(F) 1 temperature sensor KTY84-130 (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	120.0 mm²
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	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _K /M _N = break down torque / nominal torque		

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						
	document type				document status		customer	
	datasheet				released			
		title				document number		
	1LE1502-2DB23-4AF4-Z							
	D22+G11				rev.	creation date	language	Page
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Special design

D22 motor without CE character for export outside the EEA (see EU regulation 640/2009) G11 Rotary pulse encoder Sendix 5020 (HTL)

Notes:

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