

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



Motor type : 1CV1280B

SIMOTICS SD - 280 S - 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	75.00	-/-	137.00	1485	480.0	92.7	92.9	92.2	0.85	0.82	0.73	7.0	2.3	2.8	IE1
690	Y	50	75.00	-/-	80.00	1485	480.0	92.7	92.9	92.2	0.85	0.82	0.73	7.0	2.3	2.8	IE1
460	Δ	60	86.00	-/-	135.00	1785	460.0	93.2	93.2	92.4	0.86	0.83	0.76	7.0	2.3	2.8	IE1
IM B3 / IM 1001		FS 280 S		540 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 17.7 s 29.7 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	1.2000 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} 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	(B) 3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Locating bearing DE		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 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	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 _B /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	datasheet		document status		customer	
				released			
	title	1LE1502-2DB03-4AB4-Z		document number			
© Siemens AG 2021	D22+L51			rev.	creation date	language	Page
	01			2021-04-21 16:57	en	1/2	

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



Motor type : 1CV1280B

SIMOTICS SD - 280 S - IM B3 - 4p

Special design

D22 motor without CE character for export outside the EEA (see EU regulation 640/2009) L51 Bearing insulation NDE

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
	document type datasheet			document status released		customer		
	title 1LE1502-2DB03-4AB4-Z			document number				
© Siemens AG 2021	D22+L51			rev. 01	creation date 2021-04-21 16:57		language en	Page 2/2