

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



Motor type : 1CV1282D

SIMOTICS SD - 280 M - IM B3 - 8p

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	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	45.00	-/-	90.00	735	580.0	89.2	90.4	90.8	0.81	0.79	0.71	5.3	2.1	2.1	IE1
690	Y	50	45.00	-/-	52.00	735	580.0	89.2	90.4	90.8	0.81	0.79	0.71	5.3	2.1	2.1	IE1
460	Δ	60	54.00	-/-	90.00	882	580.0	91.5	92.7	93.2	0.82	0.81	0.74	5.1	2.0	2.0	IE1
IM B3 / IM 1001			FS 280 M				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 41.6 s 41.6 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	58 / 71 dB(A) ²⁾	61 / 75 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	1.4200 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} min ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50 60Hz			Frame material	cast iron
Relubrication interval/quantity DE	30 g 30 g		Net weight of the motor (IM B3)	500 kg
NDE	8000 h		Coating (paint finish)	Standard paint finish C2
Lubricants	Unirex N3		Color, paint shade	RAL7030
Regreasing device	Yes (standard)		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
Grease nipple	M10x1 DIN 3404 A		Method of cooling	IC411 - self ventilated, surface cooled
Type of bearing	Locating bearing NDE			
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 42 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.	Link documents
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Special design

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	Q12	Motor protection with PTC thermistors with 2 or 6 embedded temperature sensors for alarm and tripping
G05	Mounting a rotary pulse encoder HOG 9 D 1024 l		

Notes:

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