

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



Motor type : 1CV4282B

SIMOTICS SD - 280 M - IM B3 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

Safe Area																	
Electrical data																	
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	90.00	-/-	154.00	1488	580.0	96.1	96.4	96.3	0.88	0.85	0.78	8.5	2.8	3.4	IE4
690	Y	50	90.00	-/-	89.00	1488	580.0	96.1	96.4	96.3	0.88	0.85	0.78	8.5	2.8	3.4	IE4
460	Δ	60	90.00	-/-	135.00	1790	480.0	96.2	96.3	95.9	0.87	0.84	0.75	9.8	3.2	3.7	IE4
460	Δ	60	104.00	-/-	154.00	1788	560.0	96.2	96.4	96.3	0.88	0.86	0.79	8.7	2.8	3.2	IE4
IM B3 / IM1001			FS 280 M				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 29.5 s 43.7 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 81 dB(A) ^{2) 3)}	74 / 88 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	2.0300 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6316 C3 S0	6316 C3 S0	Vibration severity grade	Grade A
permissible lateral force on (N)	X ₀ : 8600	X _{0.5} : 7900	Thermal class	F
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	8000 h	Frame material	cast iron
Lubricants	UNIREX N3		Net weight of the motor	681 kg
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB4N01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM10	Cable gland	-/-

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) L_{10mh} 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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
IN LVM		SPC					
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SIMOTICS SD - 280 M - IM B3 - 4p

Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L51	Bearing insulation NDE
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Notes:

Link documents

Page
2/2