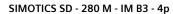
Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS

Data sheet for three-phase Squirrel-Cage-Motors





Motor type / Motor type : 1CV4282B					SIMOTICS SD - 280 M - IM B3 - 4p												
Client order no. / Client order no.				lt	ltem-No. / ltem-No.				Offe	Offer no. / Offer no.							
Order no. / Order no.				C	Consignment no. / Consignment no. Project / Project												
Remarks /	Remarks				•						•						
Electrical data / Electrical data											Saf	e Area					
U	Δ/Υ	f	Р	Р	I	n	М		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) / DOL duty (S1) - 155(F) to 130(B)																
400	Δ	50	90.00	-/-	157.00	1488	580.0	96.1	96.3	96.1	0.86	0.82	0.73	9.0	3.2	3.4	IE4
690	Y	50	90.00	-/-	91.00	1488	580.0	96.1	96.3	96.1	0.86	0.82	0.73	9.0	3.2	3.4	IE4
460	Δ	60	104.00	-/-	158.00	1790	550.0	96.2	96.2	95.6	0.86	0.82	0.72	9.0	3.2	3.4	IE4
460	Δ	60	90.00	-/-	137.00	1788	480.0	96.2	96.3	95.8	0.86	0.82	0.74	9.5	3.5	3.7	IE4
IM B3 / IM 1001			FS 280 M			IP55	UKCA	IEC/EN	60034		IEC, DIN, IS	O, VDE, EN	I				

Mechanical data / Mechanical data

Environmental conditions / Environmental conditions: -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) / Locked rotor time (hot / cold): 26.6 s | 40.9 s

Sound level (SPL / SWL) at 50Hz|60Hz Sound level (SPL / SWL) at 50Hz|60Hz 69 / 83 dB(A) 2) 3) 74 / 88 dB(A) 2) 3) Moment of inertia 2.0000 kg m² Bearing DE | NDE Bearing DE | NDE NU 317 6317 C3 bearing lifetime / bearing lifetime $L_{10mh}\,F_{Rad\,min}$ for coupling operation 50I60Hz $^{1)}$ 40000 h 32000 h L_{10mh} $F_{Rad min}$ for coupling operation 50|60Hz Relubrication interval/quantity DE | 30 g | 30 g 8000 h Relubrication interval/quantity DE | NDE Lubricants Unirex N3 Lubricants
Regreasing device With (standard) Regreasing device Grease nipple With (standard) M10x1 DIN 3404 A Grease nipple
Type of bearing Locating bearing NDE Type of bearing
Type of bearing
Bearing insulation DE / Bearing insulation NDE Locating bearing NDE Yes (non-drive end) Yes (non-drive end)

Bearing insulation DE / Bearing insulation Condensate drainage holes Condensate drainage holes With (standard) With (standard) External earthing terminal External earthing terminal With (standard) With (standard) Vibration severity grade Vibration severity grade A F Thermal class F Thermal class Duty type S1 Duty type Direction of rotation bidirectional Direction of rotation bidirectional Frame material cast iron Frame material cast iron Net weight of the motor (IM B3) 730 kg Net weight of the motor (IM B3) Coating (paint finish) Standard paint finish C2 Coating (paint finish) Color, paint shade Standard paint finish C2 RAL7030 Color, paint shade Motor protection (B) 3 PTC thermistors - for tripping (2 terminals) Motor protection Method of cooling (B) 3 PTC thermistors - for tripping (2 terminals) IC411 - self ventilated, surface cooled Method of cooling IC411 - self ventilated, surface cooled

Terminal box / Terminal box

Terminal box position top Terminal box position Material of terminal box top cast iron Material of terminal box cast iron Type of terminal box TB1 Q01 Type of terminal box Contact screw thread M12 Contact screw thread

technical reference

Max. cross-sectional area $150\;mm^2$ Max. cross-sectional area Cable diameter from ... to ... 34 mm - 45 mm Cable diameter from ... to ... Cable entry 2xM63x1,5-2xM20x1,5 Cable entry
Cable gland 4 plugs Cable gland 4 plugs

IA/IN = 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

Technical data are subject to change! There may be Link documents

2024-02-09

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responsible dep. IN I VM

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Special design / Special design	

L22	Bearing design for increased cantilever forces Bearing design for increased cantilever forces	R12	Terminal box rotated through 180° Terminal box rotated through 180°
L51	Bearing insulation NDE Bearing insulation NDE	R50	Larger terminal box Larger terminal box

Notes:

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