

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



Motor type : 1CV3282B

SIMOTICS SD - 280 M - IM B3 - 4p

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

Remarks

Electrical data	Safe Area -/-
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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	-/-	157.00	1485	580.0	95.2	95.5	95.3	0.87	0.84	0.76	7.2	2.6	3.0	IE3
690	Y	50	90.00	-/-	91.00	1485	580.0	95.2	95.5	95.3	0.87	0.84	0.76	7.2	2.6	3.0	IE3
460	Δ	60	104.00	-/-	158.00	1785	560.0	95.0	95.3	94.9	0.87	0.85	0.77	7.0	2.6	2.9	IE2
460	Δ	60	90.00	-/-	136.00	1788	480.0	95.4	95.5	94.9	0.87	0.84	0.75	8.0	2.9	3.3	IE3
IM B3 / IM 1001		FS 280 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN						Grade 3	
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 31.7 s 46.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 84 dB(A) ^{2) 3)}	79 / 93 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	1.7000 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 NDE	30 g 30 g	8000 h	Net weight of the motor (IM B3)	670 kg
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish C3
Regreasing device	With (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(C) 6 PTC thermistors - for alarm and tripping (4 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC416 - separately ventilated, surface cooled
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)			
Condensate drainage holes	With (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 - 45 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_A/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.		Link documents	
IN LVM		SPC					
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	G04	Mounted rotary pulse encoder LL 861 900 220
D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	L51	Bearing insulation NDE
D34	China Energy Efficiency Label	R62	Cast iron auxiliary terminal box (small)
F70	Mounting of separately driven fan	Y82	Auxiliary name plate with customer data

Notes:

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