

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



Motor type : 1CV3280A

SIMOTICS SD - 280 S - IM B3 - 2p

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) - 180(H) to 155(F)																	
415	Δ	50	75.00	-/-	124.00	2975	240.0	94.7	94.8	94.1	0.89	0.87	0.80	6.8	2.4	3.0	IE3
480	Δ	60	84.00	-/-	120.00	3575	225.0	94.5	94.4	93.5	0.89	0.87	0.81	6.8	2.5	3.0	IE2
480	Δ	60		-/-													IE3
IM B3 / IM 1001			FS 280 S				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					KS C IEC60034-2-
Environmental conditions : -20 °C - + °C / m									Locked rotor time (hot / cold) : 31.2 s 55.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	74 / 88 dB(A) ²⁾	78 / 92 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.7700 kg m ²		Vibration severity grade	A
Bearing DE NDE	6315 C3	6315 C3	Thermal class	H
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	25 g 25 g		Net weight of the motor (IM B3)	510 kg
NDE			Coating (paint finish)	Standard paint finish C2
Lubricants	Unirex N3		Color, paint shade	RAL7030
Regreasing device	Yes (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (2 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
M_K/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

1) L10mh 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
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Special design

Y75 Temperature class 180(H), utilized acc. to 155(F), customer indication of coolant temperature and/or installation altitude

Notes:

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