

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



Motor type : 1CV3280B

SIMOTICS SD - 280 S - IM B3 - 4p

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		
400	Δ	50	75.00	-/-	133.00	1485	480.0	95.0	95.3	95.0	0.86	0.83	0.75	6.9	2.5	3.0	IE3	
690	Y	50	75.00	-/-	77.00	1485	480.0	95.0	95.3	95.0	0.86	0.83	0.75	6.9	2.5	3.0	IE3	
460	Δ	60	86.00	-/-	131.00	1785	460.0	94.5	94.7	94.2	0.87	0.85	0.77	6.8	2.5	2.9	IE2	
460	Δ	60	75.00	-/-	116.00	1788	400.0	95.4	95.3	94.5	0.85	0.81	0.72	7.7	2.8	3.3	IE3	
IM B3 / IM 1001			FS 280 S				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 31.2 s 47.7 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 83 dB(A) ²⁾	77 / 91 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	1.3900 kg m ²		Vibration severity grade	A
Bearing DE NDE	6317 C3	6317 C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} , F _{Rad min} 50 60Hz ¹⁾ for coupling operation	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 (IM B3)	570 kg
Regreasing device	Yes (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

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. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
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SIMOTICS SD - 280 S - IM B3 - 4p

Special design

Q02 Anti-condensation heating for 230 V (2 terminals)

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

Notes:

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