

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



Motor type : 1CV4280A SIMOTICS SD - 280 S - IM B3 - 2p

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	75.00	-/-	126.00	2978	240.0	95.6	95.8	95.6	0.90	0.88	0.83	8.5	2.8	3.2	IE4	
690	Y	50	75.00	-/-	73.00	2978	240.0	95.6	95.8	95.6	0.90	0.88	0.83	8.5	2.8	3.2	IE4	
460	Δ	60	75.00	-/-	110.00	3582	200.0	95.0	94.8	94.0	0.90	0.88	0.82	9.5	3.2	3.5	IE4	
460	Δ	60	84.00	-/-	123.00	3580	225.0	95.4	95.4	94.8	0.90	0.90	0.85	8.5	2.9	3.1	IE4	
IM B3 / IM1001			FS 280 S				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 34.1 s 52.9 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 87 dB(A) ^{2) 3)}	76 / 90 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	0.7970 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6315 C3 S0	6315 C3 S0	Thermal class	F
permissible lateral force on (N)	X ₀ : 5300	X _{0.5} : 4750	Duty type	S1
		X _{max} : 4200	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Net weight of the motor	556 kg
Relubrication interval/quantity DE NDE	25 g 25 g	4000 h	Coating (paint finish)	Standard paint finish C2
Lubricants	UNIREX N3		Color, paint shade	RAL7030
Regreasing device			Motor protection	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	(Standard) Yes			

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_K/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			
SIEMENS	document type				document status
	datasheet				released
	title				document number
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