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

Motor type : 1CV4282B **SIMOTICS SD - 280 M - IM B3 - 4p**

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

Remarks

Safe Area

Electrical data **-/-**

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	90.00	-/-	154.00	1488	580.0	96.1	96.4	96.3	0.88	0.85	0.78	8.5	2.8	3.4	IE4
690	Y	50	90.00	-/-	89.00	1488	580.0	96.1	96.4	96.3	0.88	0.85	0.78	8.5	2.8	3.4	IE4
460	Δ	60	90.00	-/-	135.00	1790	480.0	96.2	96.3	95.9	0.87	0.84	0.75	9.8	3.2	3.7	IE4
460	Δ	60	104.00	-/-	154.00	1788	560.0	96.2	96.4	96.3	0.88	0.86	0.79	8.7	2.8	3.2	IE4
IM B3 / IM1001			FS 280 M			IP55	UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						

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

Locked rotor time (hot / cold) : 29.5 s | 43.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	67 / 81 dB(A) 2) 3)	74 / 88 dB(A) 2) 3)	
Moment of inertia	2.0300 kg m²		
Bearing DE | NDE	6316 C3 S0	6316 C3 S0	
permissible lateral force on (N) *(N)*	x_0: 8600	$x_{0.5}$: 7900	x_{max}: 7200
bearing lifetime			
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	
Relubrication interval/quantity DE | NDE	30 g | 30 g 8000 h		
Lubricants	UNIREX N3		
Regreasing device	Flat type lubricating nipple		
Grease nipple	M10x1 DIN 3404 A		
Type of bearing	Locating bearing NDE		
Condensate drainage holes	(Standard) Yes		

External earthing terminal	(Standard) Yes
Vibration severity grade	Grade A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor	681 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	3 PTC thermistors - for tripping (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	at the right	Max. cross-sectional area	120 mm²
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	-/-

I_A/I_N = 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

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Special design

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

Additional information:

Space heaters

Technical data: