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

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	60	90.00	-/-	157.00	1788	480.0	95.4	95.5	94.9	0.87	0.84	0.75	8.0	2.9	3.3	IE3
690	Y	60	90.00	-/-	91.00	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		

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 28.6 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)	
Moment of inertia	1.7000 kg m²		
Bearing DE | NDE	6317 C3	6317 C3	
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	With (standard)		
Grease nipple	M10x1 DIN 3404 A		
Type of bearing	Locating bearing DE		
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		
Condensate drainage holes	With (standard)		

External earthing terminal	With (standard)
Vibration severity grade	A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor (IM B3)	670 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	120 mm²
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

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

Responsible department	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	Created automatically		

SIEMENS

Document type	Document status
Technical data sheet	Released
Document title	**Document number**
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D22+L51+M2J	

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Branding disclaimer applies

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Special design

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	M2J	400 VD/690 VY; 60Hz, 50-Hz power
L51	Bearing insulation NDE		