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

Motor type : 1CV3252B **SIMOTICS SD - 250 M - IM V1 - 4p**

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

Electrical data

Safe Area

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
IM V1 / IM 3011		FS 250 M	420 kg		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 34.4 s | 54.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	66 / 79 dB(A) 2)	68 / 82 dB(A) 2)	
Moment of inertia	0.8500 kg m²		
Bearing DE | NDE	6315 C3	6315 C3	
bearing lifetime			
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	
Relubrication interval/quantity DE | NDE	25 g | 25 g 8000 h		
Lubricants	Unirex N3		
Regreasing device	Yes (standard)		
Grease nipple	M10x1 DIN 3404 A		
Type of bearing	Locating bearing NDE		
Condensate drainage holes	Yes (standard)		

External earthing terminal	Yes (standard)
Vibration severity grade	A
Insulation	155(F) to 130(B)
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Coating (paint finish)	Special paint finish C3
Color, paint shade	RAL7030
Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	240 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M12	Cable gland	4 plugs

Notes:

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) 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	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
B60	Document electrical datasheet	Q02	Anti-condensation heating for 230 V (2 terminals)
B61	Document order dimension drawing	R50	Larger terminal box
H00	Canopy	R62	Cast iron auxiliary terminal box (small)
M1Y	Non-standard winding:	Y99	special motor design

Additional information:

Space heaters

Technical data: 1-phase, 230 V 92W

Notes:

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