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

Motor type : 1CV1252B **SIMOTICS SD - 250 M - IM B3 - 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	cos φ 3) 4/4	cos φ 3) 3/4	cos φ 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
400	Δ	50	55.00	-/-	101.00	1475	355.0	92.1	92.5	92.1	0.85	0.82	0.74	6.1	2.4	2.6	IE1
690	Y	50	55.00	-/-	59.00	1475	355.0	92.1	92.5	92.1	0.85	0.82	0.74	6.1	2.4	2.6	IE1
460	Δ	60	63.00	-/-	100.00	1775	340.0	93.0	93.3	92.7	0.85	0.83	0.76	6.1	2.5	2.6	IE1

IM B3 / IM 1001		FS 250 M		IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN		

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

Locked rotor time (hot / cold) : 17.3 s | 30.9 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	70 / 81 dB(A) 2)	72 / 85 dB(A) 2)
Moment of inertia	0.6900 kg m²	
Bearing DE | NDE	6215 Z C3	6215 Z C3
bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Lubricants	Unirex N3	
Regreasing device	No	
Grease nipple	-/-	
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
Net weight of the motor (IM B3)	360 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(A) without (Standard)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top
Material of terminal box	cast iron
Type of terminal box	TB1 N01
Contact screw thread	M10
Max. cross-sectional area	120 mm²

Cable diameter from ... to ...	34 mm - 42 mm
Cable entry	2xM63x1,5
Cable gland	2 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.*

SIEMENS

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