

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



Motor type : 1CV3252B

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	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)																	
240	Δ	50	55.00	-/-	161.00	1482	355.0	94.6	95.1	95.0	0.87	0.84	0.76	6.8	2.5	2.9	IE3
415	Y	50	55.00	-/-	93.00	1482	355.0	94.6	95.1	95.0	0.87	0.84	0.76	6.8	2.5	2.9	IE3
480	Y	60	63.00	-/-	93.00	1782	340.0	94.1	94.5	94.4	0.87	0.84	0.77	6.7	2.4	2.8	IE2
480	Y	60	55.00	-/-	81.00	1786	295.0	95.4	95.6	95.1	0.86	0.83	0.74	7.6	2.8	3.2	IE3
IM B3 / IM 1001			FS 250 M			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⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.8500 kg m ²		Vibration severity grade	A
Bearing DE NDE	6315 C3	6315 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} min ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50 60Hz			Frame material	cast iron
Relubrication interval/quantity DE	25 g 25 g		Net weight of the motor (IM B3)	420 kg
NDE	8000 h		Coating (paint finish)	Special paint finish C3
Lubricants	Unirex N3		Color, paint shade	RAL7030
Regreasing device	Yes (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (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	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	120 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 42 mm
Type of terminal box	TB1 N01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M10	Cable gland	4 plugs

Notes:

I _A /I _N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

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		
DI MC LVM		DT Configurator						
	document type				document status			
	datasheet				released			
	title				document number			
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Special design

Y53 Paint finish in other standard RAL colours

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