

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)																	
400	Δ	50	55.00	-/-	96.00	1482	355.0	94.6	95.1	95.0	0.87	0.84	0.76	6.8	2.5	2.9	IE3
690	Y	50	55.00	-/-	56.00	1482	355.0	94.6	95.1	95.0	0.87	0.84	0.76	6.8	2.5	2.9	IE3
460	Δ	60	63.00	-/-	97.00	1782	340.0	94.1	94.5	94.4	0.87	0.84	0.77	6.7	2.4	2.8	IE2
460	Δ	60	55.00	-/-	84.00	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																	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 83.6 dB(A) ²⁾	74 / 87.6 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	(F) 1 temperature sensor KTY84-130 (2 terminals)
Grease nipple	M10x1 DIN 3404 A		Method of cooling	IC416 - separately ventilated, surface cooled
Type of bearing	Locating bearing DE			
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 _A /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _K /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
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Special design

F70	Mounting of separately driven fan	L51	Bearing insulation NDE
G04	Mounted rotary pulse encoder LL 861 900 220		

Notes:

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