

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



Motor type : 1CV3256B

SIMOTICS SD - 250 M - IM B5 - 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	75.00	-/-	134.00	1486	480.0	95.0	95.2	94.8	0.85	0.81	0.71	7.9	3.0	3.4	IE3
690	Y	50	75.00	-/-	78.00	1486	480.0	95.0	95.2	94.8	0.85	0.81	0.71	7.9	3.0	3.4	IE3
460	Δ	60	86.00	-/-	132.00	1785	460.0	95.4	95.6	95.3	0.86	0.82	0.73	7.8	2.9	3.3	IE3
460	Δ	60	75.00	-/-	117.00	1788	400.0	95.4	95.4	94.8	0.84	0.79	0.69	8.8	3.4	3.8	IE3
IM B5 / IM 3001		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) : 26.1 s 43.4 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 83 dB(A) ²⁾	74 / 88 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	1.1000 kg m ²		Thermal class	F
Bearing DE NDE	6215 Z C3	6215 Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	510 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	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

Q02 Anti-condensation heating for 230 V (2 terminals)

Additional information:

Space heaters

Technical data: 1-phase, 230 V 92W

Notes:

responsible dep.

DI MC LVM

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[Link documents](#)

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