

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)																	
380	Δ	50	55.00	-/-	102.00	1482	355.0	94.6	95.1	95.0	0.87	0.84	0.76	6.8	2.5	2.9	IE3
660	Y	50	55.00	-/-	58.00	1482	355.0	94.6	95.1	95.0	0.87	0.84	0.76	6.8	2.5	2.9	IE3
440	Δ	60	63.00	-/-	101.00	1782	340.0	94.1	94.5	94.4	0.87	0.84	0.77	6.7	2.4	2.8	IE2
440	Δ	60	55.00	-/-	88.00	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				IP65	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 34.9 s 55 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	66 / 79 dB(A) ^{2) 3)}	68 / 82 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.8500 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
Regreasing device	Without		Net weight of the motor (IM B3)	420 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

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
Contact screw thread	M10	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current nominal

M_K/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	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	datasheet			document status			
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H20	IP 65 degree of protection
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