

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



Motor type : 1CV3252A

SIMOTICS SD - 250 M - IM B3 - 2p

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	$\eta^{3)}$			$\cos\phi^{3)}$			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)

IM B3 / IM 1001		FS 250 M		IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN				
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 33.7 s | 53.5 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 87 dB(A) ²⁾	76 / 90 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.4600 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	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	385 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		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
 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	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		
	1LE1503-2CA29-0AB4-Z						
	H01+L51+M11+M1Y+R74				rev.	creation date	language Page
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Special design

H01	Bolted on mounting feet (instead of cast)	M1Y	Non-standard winding:
L51	Bearing insulation NDE	R74	Silicon-free version
M11	Stainless steel rating plate		

Notes:

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