

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



Motor type : 1CV3112A

SIMOTICS SD - 112 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	$\eta^{3)}$			$\cos\varphi^{3)}$			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_A/I_N	T_A/T_N	T_B/T_N	

DOL duty (S1) - 155(F) to 130(B)

IM B3 / IM 1001		FS 112 M		IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN				
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Environmental conditions : -20 °C - +60 °C / 1,000 m

Locked rotor time (hot / cold) : 7.15 s | 10.4 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 81 dB(A) ²⁾	73 / 85 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0079 kg m ²		Thermal class	F
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	41 kg
Regreasing device	No		Coating (paint finish)	Special paint finish for offshore applications C5
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F01	Cable entry	2xM32x1,5
Contact screw thread	M4	Cable gland	1 gland, 1 plug

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		
	1LE1503-1BA29-0AA4-Z						
	H07+M1Y+N08+R11+R14+S04				rev.	creation date	language Page
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Special design

H07	Stainless steel screws and bolts (outside the motor)	R11	Terminal box rotated through 90°, cable entry from NDE
M1Y	Non-standard winding:	R14	
N08	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 60°C, power reduced	S04	

Notes:

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