

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



Motor type : 1CV3104A

SIMOTICS SD - 100 L - 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 100 L	IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
-----------------	----------	------	------	--------------	------------------------

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 9 s | 12.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 79 dB(A) ^{2) 3)}	71 / 83 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0041 kg m ²		Thermal class	F
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
$L_{10mh} F_{Rad, min}$ for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Regreasing device	No		Net weight of the motor (IM B3)	37 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Yes (standard)		Motor protection	(A) without (Standard)
External earthing terminal	Yes		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	right	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	2 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. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
	document type datasheet	document status released			
	title 1LE1503-1AA49-0AA5-Z H04+M1Y	document number			
© Siemens AG 2023	rev. 935	creation date 2023-01-31	language en		

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





Motor type : 1CV3104A

SIMOTICS SD - 100 L - IM B3 - 2p

Special design

H04 External grounding at housing M1Y Non-standard winding:

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents 
	document type datasheet		document status released		
	title 1LE1503-1AA49-0AA5-Z H04+M1Y		document number		
© Siemens AG 2023		rev. 935	creation date 2023-01-31	language en	Page 2/2