

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



Motor type : 1CV3105B

SIMOTICS SD - 100 L - 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	$\eta^{3)}$			$\cos \varphi^{3)}$			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) - 180(H) to 155(F)

IM B3 / IM 1001		FS 100 L		IP65	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN				
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Environmental conditions : -20 °C - + °C / m

Locked rotor time (hot / cold) : 12.8 s | 17.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60 / 72 dB(A) ^{2) 3)}	62 / 74 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0100 kg m ²		Thermal class	H
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
Lubricants	Unirex N3		Net weight of the motor (IM B3)	40 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	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	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 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 1LE1503-1AB59-0AB4-Z F74+F76+H20+L20+M1Y+Y75				document number
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				language en	Page 1/2



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Special design

F74	Sheet steel fan cowl	L20	Locating bearing, DE
F76	Metal external fan	M1Y	Non-standard winding:
H20	IP 65 degree of protection	Y75	Temperature class 180(H), utilized acc. to 155(F), customer indication of coolant temperature and/or installation altitude

Notes:

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