

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

Motor type: 7CV3105D **SIMOTICS SD - 100L - IM B3 - 8 p**

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	M	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
[V]±10%		[Hz]±5%	[kW]	[hp]	[A]	[1/min]	[kgf.m]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4				

Motordaten / Motor Data

415	Y	50	1.10	-/-	3.30	705	1.5	14.9	77.7	74.7	70.7	0.60	0.50	0.38	4.0	1.5	2.0	IE3
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IM B3 / IM 1001	FS 100L	37 kg	SF:1	IS 12615 / IEC 60034-1	-
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Environmental conditions : -20 °C - +50 °C / 1,000 m

Locked rotor time (hot / cold) : 18 s | 36 s

Mechanical data

Sound pressure level 50Hz 60Hz	73 dB(A) 76 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia Rotor GD ²	0.0100 kg m ² 0.0402 kgf.m ²	Vibration severity grade	A (Standard)
Bearing DE NDE	6206 2ZC3 6206 2ZC3	Insulation	155(F) utilized to 130(B)
bearing lifetime		Duty type	S1
L _{10mh} F _{Rad max} according catalogue 50 60Hz ¹⁾	20.000 h 16.000 h	Direction of rotation	Bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	50.000 h 40.000 h	Frame material	Cast iron
Type of bearing	Locating (fixed) bearing, NDE	Forced ventilation motor details	- / -
Relubrication interval/quantity DE NDE	- / - g - / - g - / - h	Net weight of the motor (IM B3)	37 kg
Type of construction	IM B3 / IM 1001	Rotor weight	10 kg
Degree of protection	IP55	Data of anti condensation heating	- / - V, - / - W
Lubricants	Esso Unirex N3	Coating (paint finish)	Standard paint finish
Regreasing device	- / -	Color, paint shade	RAL7030
Grease nipple	- / -	Motor protection	(A) without
Condensate drainage holes	Yes	Method of cooling	IC411 - Self ventilated, surface cooled

Terminal box



Terminal box position	Top	Cable diameter from ... to ...	11.0 mm - 21.0 mm
Material of terminal box	Aluminium	Cable entry	2xM32x1.5
Type of terminal box	TB7 F04	Cable gland	2 Plugs
Contact screw thread	M5		
Max. cross-sectional area	16 mm ²		

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

3) Value is valid only for DOL operation with motor design IC411

1) L10mh according to DIN ISO 281 10/2010

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
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