

SIMOTICS SD - 100 L - IM B3 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Safe Area

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ 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	
400	Δ	50	3.00	-/-	5.90	1460	19.6	87.7	88.5	87.9	0.83	0.78	0.67	8.3	2.5	3.9	IE3
690	Y	50	3.00	-/-	3.45	1460	19.6	87.7	88.5	87.9	0.83	0.78	0.67	8.3	2.5	3.9	IE3
460	Δ	60	3.45	-/-	5.80	1755	18.8	89.5	90.1	89.5	0.84	0.79	0.69	8.4	2.7	3.9	IE3
460	Δ	60	3.00	-/-	5.10	1760	16.3	89.5	89.5	88.3	0.82	0.76	0.65	9.5	3.1	4.6	IE3
IM B3 / IM 1001			FS 100 L		40 kg		IP55	IEC/EN 60034			IEC, DIN, ISO, VDE, EN			KS C IEC60034-2-4			

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

Locked rotor time (hot / cold) : 11.9 s | 15.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60.0 / 72.0 dB(A) ²⁾	62.0 / 74.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0140 kg m ²		Vibration severity grade	A
Bearing DE NDE	6306 2Z C3	6306 2Z C3	Insulation	180(H) to 180(H)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	11.0 mm - 21.0 mm
Type of terminal box	TB1 F01	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 glands, 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.			
DI MC LVM		DT Configurator					
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	datasheet			released			
	title			document number			
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV3105B

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	R11	Terminal box rotated through 90°, cable entry from NDE
H70	Second outer earthing	R18	Cable gland metal, max. number
N10	Temperature class 180 (H)	Y82	Auxiliary name plate with customer data

Notes:

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