

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



Motor type : 1CV2105B

SIMOTICS SD - 100 L - IM V1 - 4p

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

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								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	-/-	6.20	1455	19.7	85.5	86.4	85.6	0.82	0.76	0.64	6.9	2.0	3.1	IE2
690	Y	50	3.00	-/-	3.60	1455	19.7	85.5	86.4	85.6	0.82	0.76	0.64	6.9	2.0	3.1	IE2
460	Δ	60	3.45	-/-	6.00	1755	18.8	87.5	88.2	87.3	0.82	0.77	0.65	7.5	2.0	3.1	IE2
460	Δ	60	3.00	-/-	5.40	1765	16.2	87.5	87.5	86.0	0.79	0.72	0.60	8.3	2.4	3.7	IE2

IM V1 / IM 3011	FS 100 L	37 kg	IP65	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 9.57 s | 14.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	59.0 / 63.0 dB(A) ²⁾	59.0 / 63.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0140 kg m ²		Vibration severity grade	A
Bearing DE NDE	6206 Z C3	6206 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	5 g 5 g 8000 h		Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish for offshore applications C5
Regreasing device	Yes		Color, paint shade	RAL7030
Grease nipple	M8x1 DIN 71412		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Preloaded bearing DE		Method of cooling	IC416 - separately ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm ²
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	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.	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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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L23	Regreasing system
F70	Mounting of separately driven fan	Q02	Anti-condensation heating for 230 V (2 terminals)
H00	Canopy	S04	Special paint finish for offshore applications C5
H20	IP 65 degree of protection		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 25W

Notes:

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