

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



Motor type : 1CV2104B

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_l/I_N	T_l/T_N	T_B/T_N	
380	Δ	50	2.02	-/-	4.60	1455	13.3	84.6	84.9	83.6	0.79	0.71	0.58	7.5	2.3	3.6	IE2
660	Y	50	2.02	-/-	2.65	1455	13.3	84.6	84.9	83.6	0.79	0.71	0.58	7.5	2.3	3.6	IE2
440	Δ	60	2.34	-/-	4.35	1755	12.7	87.6	87.8	86.9	0.81	0.76	0.60	7.9	2.3	3.6	IE2
440	Δ	60	2.20	-/-	4.25	1760	11.9	87.5	88.3	87.4	0.78	0.74	0.63	8.1	2.5	3.9	IE2

IM V1 / IM 3011		FS 100 L	32 kg	IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN										
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Environmental conditions : -20 °C - +50 °C / 1,000 m

Locked rotor time (hot / cold) : 11.5 s | 16.4 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

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	0.0086 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} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	5 g 5 g 4000 h		Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Regreasing device	Yes		Color, paint shade	RAL7030
Grease nipple	M8x1 DIN 71412		Motor protection	(A) without (Standard)
Type of bearing	Preloaded bearing DE		Method of cooling	IC411 - self 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
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.	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	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
L23	Regreasing system	S03	Special paint finish in sea air resistant C4
N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced		

Notes:

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