

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



Motor type : 1CV3112A

SIMOTICS SD - 112 M - IM B3 - 2p

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]	$\eta^{3)}$			$\cos\varphi^{3)}$			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	3.48	-/-	6.60	2950	11.3	88.5	88.4	87.0	0.86	0.81	0.72	10.5	3.0	4.1	IE3
690	Y	50	3.48	-/-	3.80	2950	11.3	88.5	88.4	87.0	0.86	0.81	0.72	10.5	3.0	4.1	IE3
460	Δ	60	3.95	-/-	6.40	3550	10.6	88.5	88.0	85.8	0.87	0.82	0.74	11.2	3.1	4.4	IE3
460	Δ	60	4.00	-/-	6.40	3550	10.8	88.5	88.4	86.7	0.88	0.83	0.75	10.9	3.1	4.3	IE3
IM B3 / IM 1001		FS 112 M		45 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +55 °C / 1,000 m

Locked rotor time (hot / cold) : 7.15 s | 10.4 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	69.0 / 81.0 dB(A) ²⁾	73.0 / 85.0 dB(A) ²⁾	External earthing terminal	Yes
Moment of inertia	0.0079 kg m ²		Vibration severity grade	A
Bearing DE NDE	6306 2Z C3	6306 2Z 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
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating 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 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.			
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Special design

F76	Metal external fan	N07	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 55°C, power reduced
H04	External grounding at housing	N31	Increased air humidity/temperature with 60 to 100 g water per m3 air
L20	Locating bearing, DE	Q02	Anti-condensation heating for 230 V (2 terminals)
M10	Additional rating plate, loose		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 25W

Notes:

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