

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



Motor type : 1CV1222C

SIMOTICS SD - 225 M - IM B3 - 6p

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	30.00	-/-	59.00	978	295.0	90.2	91.0	90.7	0.82	0.78	0.68	6.0	2.7	2.5	IE1
690	Y	50	30.00	-/-	34.00	978	295.0	90.2	91.0	90.7	0.82	0.78	0.68	6.0	2.7	2.5	IE1
460	Δ	60	36.00	-/-	59.00	1178	290.0	91.7	92.6	92.6	0.84	0.82	0.73	5.9	2.7	2.4	IE1
IM B3 / IM 1001			FS 225 M		270 kg		IP55	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 14.1 s | 25.3 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60.0 / 74.0 dB(A) ²⁾	65.0 / 78.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.4900 kg m ²		Vibration severity grade	A
Bearing DE NDE	6213 Z C3	6213 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
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	3 Bi-metallic sensors (opener) for tripping (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	35.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5-2xM20x1,5
Contact screw thread	M8	Cable gland	4 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. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
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B02	Acceptance test certificate 3.1 acc. to EN 10204	G43	Mechanical protection for encoder
D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)	M11	Stainless steel rating plate
F74	Sheet steel fan cowl	Q3A	1/3 Bi-metallic sensors (opener) for tripping (2 terminals)
G06	Mounting a rotary pulse encoder HOG 10 D 1024 I		

Notes:

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