

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

Motor type: **7CV3222B** SIMOTICS SD - 225M - IM B3 - 4 p

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

Remarks

Electrical data

Safe Area

U	Δ / Y	f	P	P	I	n	M	M	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
[V]±10%		[Hz]±5%	[kW]	[hp]	[A]	[1/min]	[kgf.m]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4				
Motordaten / Motor Data																		
415	Δ	50	45.00	-/-	77.00	1478	30.0	291.0	94.3	94.7	94.5	0.86	0.83	0.74	7.5	3.5	4.0	IE3
IM B3 / IM 1001			FS 225M	354 kg	SF:1	IS 12615 / IEC 60034-1												

Environmental conditions : -20 °C - +50 °C / 1,000 m

Locked rotor time (hot / cold) : 15 s | 26 s

Mechanical data

Sound pressure level 50Hz 60Hz	71 dB(A) 74 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia Rotor GD ²	0.6653 kg m ² 2.6612 kgf.m ²	Vibration severity grade	A (Standard)
Bearing DE NDE	6313 C3 6313 C3	Insulation	155(F) utilized to 130(B)
bearing lifetime		Duty type	S1
L _{10mh} F _{Rad max} according catalogue 50 60Hz ¹⁾	20.000 h 16.000 h	Direction of rotation	Bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	50.000 h 40.000 h	Frame material	Cast iron
Type of bearing	Locating (fixed) bearing, NDE	Forced ventilation motor details	- / -
Relubrication interval/quantity DE NDE	20 g 20 g 8.000 h	Net weight of the motor (IM B3)	354 kg
Type of construction	IM B3 / IM 1001	Rotor weight	105 kg
Degree of protection	IP55	Data of anti condensation heating	-/ V, -/ W
Lubricants	Esso Unirex N3	Coating (paint finish)	Standard paint finish
Regreasing device	Yes (standard)	Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A	Motor protection	(A) without
Condensate drainage holes	Yes	Method of cooling	IC411 - Self ventilated, surface cooled

Terminal box




Terminal box position	Top	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Material of terminal box	Cast iron	Cable entry	2xM50x1.5
Type of terminal box	TB1 L01	Cable gland	2 Plugs
Contact screw thread	M8		
Max. cross-sectional area	35 mm ²		

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

3) Value is valid only for DOL operation with motor design IC411

1) L10mh according to DIN ISO 281 10/2010

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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