

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



Motor type : 1CV3222C

SIMOTICS SD Premium Insulation - 225 M - IM B3 - 6p

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	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL	
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	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	-/-	58.00	982	290.0	92.9	93.7	93.7	0.81	0.78	0.69	7.0	2.6	2.9	IE3	
460	Δ	60	36.00	-/-	59.00	1180	290.0	93.0	93.8	93.8	0.82	0.80	0.72	6.8	2.4	2.7	IE2	
460	Δ	60	30.00	-/-	50.00	1186	240.0	94.1	94.5	94.1	0.80	0.76	0.66	8.0	3.0	3.2	IE3	
IM B3 / IM 1001			FS 225 M				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						KS C IEC60034-2-
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 30.5 s 41.2 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72.4 / 86 dB(A) ²⁾	76.4 / 90 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.8200 kg m ²		Insulation	155(F) to 130(B)
Bearing DE NDE	6313 Z C3	6313 Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} , F _{Rad min} 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	395 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC416 - separately ventilated, surface cooled
External earthing terminal	Yes (standard)			

Terminal box

Terminal box position	left	Max. cross-sectional area	35 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5
Contact screw thread	M8	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.			
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	01	2021-11-10 10:59		en	1/2		

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Special design

F70 Mounting of separately driven fan L25 Double sides reinforced bearings for DE and NDE, Type 63

Additional information:

Notes:

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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