

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



Motor type : 1CV2226B

SIMOTICS SD - 225 M - IM V1 - 4p

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	55.00	-/-	101.00	1475	355.0	93.5	94.2	94.1	0.84	0.80	0.71	5.8	2.5	2.7	IE2
690	Y	50	55.00	-/-	59.00	1475	355.0	93.5	94.2	94.1	0.84	0.80	0.71	5.8	2.5	2.7	IE2
460	Δ	60	63.00	-/-	99.00	1775	340.0	94.1	94.7	94.6	0.85	0.82	0.74	6.2	2.5	2.6	IE2
460	Δ	60	55.00	-/-	87.00	1780	295.0	94.1	94.4	94.0	0.84	0.80	0.70	7.1	2.8	3.0	IE2
IM V1 / IM 3011		FS 225 M		320 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Locked rotor time (hot / cold) : 27.7 s | 46.1 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69.0 / 82.0 dB(A) ²⁾	72.0 / 85.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	0.4700 kg m ²		Vibration severity grade	A
Bearing DE NDE	6213 Z C3	6213 Z C3	Insulation	155(F) to 155(F)
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	(A) without (Standard)
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
Contact screw thread	M8	Cable gland	2 plugs

Notes:

I _A /I _N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /M _N = break down torque / nominal torque		

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	N03	Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature
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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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