

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



Motor type : 1CV2072B

SIMOTICS SD - 71 M - IM B5 - 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	
DOL duty (S1) - 155(F) to 155(F)																	
220	Δ	50	0.25	-/-	1.39	1395	1.7	68.5	68.4	64.2	0.69	0.59	0.46	3.7	2.4	2.5	IE2
380	Y	50	0.25	-/-	0.80	1395	1.7	68.5	68.4	64.2	0.69	0.59	0.46	3.7	2.4	2.5	IE2
440	Y	60	0.28	-/-	0.76	1695	1.6	70.0	69.7	65.9	0.69	0.60	0.47	4.1	2.4	2.6	IE2
440	Y	60	0.25	-/-	0.73	1715	1.4	70.0	68.5	63.6	0.64	0.55	0.43	4.4	2.8	3.1	IE2
IM B5 / IM 3001			FS 71 M			IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - + °C / 1,000 m									Locked rotor time (hot / cold) : 40.2 s 50.8 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	44 / 55 dB(A) ²⁾	47 / 58 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0008 kg m ²		Thermal class	F
Bearing DE NDE	6202 2Z C3	6202 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad} min ¹⁾ for coupling operation	40000 h	32000 h	Frame material	cast iron
Lubricants	Unirex N3		Net weight of the motor (IM B3)	12 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 D01	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	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 _A /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _K /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.	Link documents
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Special design

H03	Condensation drain holes in end shield	N03	Temperature class 155 (F), utilised to 155 (F), with increased cooling medium temperature
H07	Stainless steel screws and bolts (outside the motor)	Q02	Anti-condensation heating for 230 V (2 terminals)
H23	Radial sealing ring at the DE for flange types of construction, oil-tight up to 0.1 bar	Y58	Non-standard cylindrical shaft extension, DE

Additional information:

Space heaters

Technical data: 1-phase, 230 V 12.5W

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.		Link documents	
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