

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



Motor type : 1CV3130B

SIMOTICS SD - 132 S - IM B3 - 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 130(B)																	
400	Δ	50	5.50	-/-	10.80	1470	35.5	89.6	90.0	89.4	0.82	0.77	0.67	8.5	2.9	3.7	IE3
690	Y	50	5.50	-/-	6.30	1470	35.5	89.6	90.0	89.4	0.82	0.77	0.67	8.5	2.9	3.7	IE3
460	Δ	60	6.30	-/-	10.40	1770	34.0	91.7	92.0	91.3	0.83	0.79	0.69	8.7	2.7	3.7	IE3
460	Δ	60	5.50	-/-	9.30	1775	29.5	91.7	91.6	90.5	0.81	0.76	0.65	10.0	3.1	4.2	IE3
IM B3 / IM 1001		FS 132 S				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 22 s 28.1 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz/60Hz	69 / 73 dB(A) ²⁾	69 / 73 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0340 kg m ²		Vibration severity grade	A
Bearing DE NDE	6208 Z C3	6208 Z C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} min ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50/60Hz			Frame material	cast iron
Relubrication interval/quantity DE NDE	10 g 10 g	8000 h	Net weight of the motor (IM B3)	74 kg
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes		Color, paint shade	RAL7030
Grease nipple	M8x1 DIN 71412		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Preloaded bearing DE		Method of cooling	IC416 - separately ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	right	Max. cross-sectional area	6 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 H01	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 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.	Link documents
DI MC LVM		DT Configurator			
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	datasheet				released
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L23	Regreasing system
F70	Mounting of separately driven fan	Y82	Auxiliary name plate with customer data
G11	Rotary pulse encoder Sendix 5020 (HTL)		

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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