

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



Motor type : 1CV4130B

SIMOTICS SD - 132 S - 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 130(B)																	
460	Y	60	6.30	-/-	10.30	1770	34.0	92.4	92.9	92.6	0.83	0.79	0.70	8.3	2.5	3.5	IE4
IM B5 / IM 3001			FS 132 S				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 27.5 s 34.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	56 / 68 dB(A) ^{2) 3)}	61 / 73 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0340 kg m ²		Thermal class	F
Bearing DE NDE	6208 2Z C3	6208 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	77 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	top	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					
	document type	datasheet			document status		
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	F70	Mounting of separately driven fan
B61	Document order dimension drawing	M1E	460 VY for 60 Hz, 60-Hz power
F01	Mounting of holding brake	Q02	Anti-condensation heating for 230 V (2 terminals)
F12	Brake supply voltage 400 V AC, 50/60 Hz	Y82	Auxiliary name plate with customer data

Additional information:

Space heaters

Technical data: 1-phase, 230 V 50W

Brake:

Description:	BFK458-16	Current:	.31 A
Voltage:	AC 400 V	Moment of inertia:	0.001500 kgm²

Notes:

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