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

Motor type : 1CV4132B **SIMOTICS SD - 132 M - IM B5 - 4p**

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Safe Area

Electrical data **-/-**

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/I_N	M_A/M_N T_I/T_N	M_K/M_N T_B/T_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
380	Δ	50	7.50	-/-	15.20	1470	48.5	92.6	93.1	92.7	0.81	0.75	0.64	7.7	3.0	4.0	IE4
660	Y	50	7.50	-/-	8.70	1470	48.5	92.6	93.1	92.7	0.81	0.75	0.64	7.7	3.0	4.0	IE4
440	Δ	60	8.60	-/-	14.90	1770	46.5	92.4	92.8	92.4	0.82	0.77	0.67	7.9	2.9	3.9	IE4
440	Δ	60	7.50	-/-	13.30	1775	40.5	92.4	92.5	91.8	0.80	0.74	0.63	8.8	3.4	4.5	IE4
IM B5 / IM 3001		FS 132 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN						Grade 2	

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 27.5 s | 36.5 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	0.0460 kg m²		Thermal class	F
Bearing DE | NDE	6308 2Z C3	6308 2Z C3 INS	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	80 kg
Grease nipple	-/-		Coating (paint finish)	Special paint finish C3
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC416 - separately ventilated, surface cooled
External earthing terminal	With			

Terminal box

Terminal box position	top	Max. cross-sectional area	6 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 J01	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	1 gland, 2 plugs

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) L_{10mh} 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 department	Technical reference	Created by	Approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
IN LVM		SPC	Created automatically		

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Document type	Document status
Technical data sheet	Released
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1LE1604-1CB23-3FB4-Z	TDS-240329-102024
B02+D34+F01+F12+F50+F70+G04+H04+H70+L51+R15+R50+R62	

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	H04	External grounding at housing
D34	China Energy Efficiency Label	H70	Second outer earthing
F01	Mounting of holding brake	L51	Bearing insulation NDE
F12	Brake supply voltage 400 V AC, 50/60 Hz	R15	One metal cable gland
F50	Mechanical manual brake release with lever (cannot be locked)	R50	Larger terminal box
F70	Mounting of separately driven fan	R62	Cast iron auxiliary terminal box (small)
G04	Mounted rotary pulse encoder LL 861 900 220		

Additional information:

Brake:

Description:	BFK458-16	Current:	0.31 A
Voltage:	AC 400 V	Moment of inertia:	0.001500 kgm²

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