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

Motor type : 1AV4132B **SIMOTICS GP - 132 M - IM B5 - 4p**

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

Remarks

Safe Area

Electrical data
-/-

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)																	
230	Δ	50	7.50	-/-	25.00	1470	48.5	92.6	93.1	92.7	0.81	0.75	0.64	7.7	3.0	4.0	IE4
400	Y	50	7.50	-/-	14.40	1470	48.5	92.6	93.1	92.7	0.81	0.75	0.64	7.7	3.0	4.0	IE4
460	Y	60	8.60	-/-	14.20	1770	46.5	92.4	92.8	92.4	0.82	0.77	0.67	7.9	2.9	3.9	IE4
460	Y	60	7.50	-/-	12.70	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		

Environmental conditions : -20 ℃ - +40 ℃ / 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	6208 2Z C3 6208 2Z C3	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	aluminum
Regreasing device	Without	Net weight of the motor (IM B3)	62 kg
Grease nipple	-/-	Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE	Color, paint shade	RAL7030
Condensate drainage holes	Without	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 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 H00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 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
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Special design

F01	Mounting of holding brake	F50	Mechanical manual brake release with lever (cannot be locked)
F11	Brake supply voltage, 230 V AC, 50/60 Hz	F70	Mounting of separately driven fan

Additional information:

Brake:

Description:	BFK458-16	Current:	.27 A
Voltage:	AC 230 V	Moment of inertia:	0.001500 kgm²

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