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

Motor type : 1AV3131A **SIMOTICS GP - 132 S - IM B3 - 2p**

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

Electrical data

Safe Area

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	7.19	-/-	13.20	2950	23.3	90.2	91.0	91.0	0.92	0.89	0.83	8.7	2.0	4.1	IE3
660	Y	50	7.19	-/-	7.60	2950	23.3	90.2	91.0	91.0	0.92	0.89	0.83	8.7	2.0	4.1	IE3
440	Δ	60	8.25	-/-	13.10	3550	22.2	90.3	90.8	90.4	0.92	0.89	0.83	8.5	2.1	4.1	IE3
440	Δ	60	7.50	-/-	12.00	3560	20.0	90.2	90.4	89.6	0.91	0.88	0.82	9.4	2.2	4.5	IE3
IM B3 / IM 1001			FS 132 S			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN						Grade 3	

Environmental conditions : -20 °C - +45 °C / 1,000 m

Locked rotor time (hot / cold) : 9.3 s | 13.6 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	68 / 80 dB(A) 2) 3)	72 / 84 dB(A) 2) 3)	External earthing terminal	With
Moment of inertia	0.0310 kg m²		Vibration severity grade	A
Bearing DE | NDE	6208 Z C3	6208 Z C3	Thermal class	F
bearing lifetime			Duty type	S1
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE | NDE	10 g | 10 g 4000 h		Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	57 kg
Regreasing device	With		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Grease nipple	M8x1 DIN 71412		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	Without		Method of cooling	IC411 - self 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
Contact screw thread	M4	Cable gland	1 gland, 1 plug

Notes:

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) L10mh 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 dep.	technical reference	created by	approved by	
DI MC LVM		DT Configurator		*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*

Link documents

SIEMENS

document type	document status
datasheet	released
title	document number
1LE1003-1CA13-3AA4-Z	
D34+H04+H07+L23+N05+R15+S03	

rev.	creation date	language	Page
943	2023-03-22	en	1/2

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Special design

D34	China Energy Efficiency Label	N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced
H04	External grounding at housing	R15	One metal cable gland
H07	Stainless steel screws and bolts (outside the motor)	S03	Special paint finish in sea air resistant C4
L23	Regreasing system		

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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