

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	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	-/-	22.50	2950	24.5	90.1	91.0	91.0	0.92	0.90	0.84	8.3	1.9	3.9	IE3
400	Y	50	7.50	-/-	13.10	2950	24.5	90.1	91.0	91.0	0.92	0.90	0.84	8.3	1.9	3.9	IE3
460	Y	60	8.60	-/-	13.00	3550	23.0	90.2	90.8	90.5	0.92	0.90	0.84	8.2	2.0	3.9	IE3
460	Y	60	7.50	-/-	11.50	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			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					Grade 3	
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 9.3 s 13.6 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68 / 80 dB(A) ^{2) 3)}	72 / 84 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0310 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} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	57 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

Terminal box

Terminal box position	top	Max. cross-sectional area	6 mm ²
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

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 _A /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _K /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				document status
	datasheet				released
	title				document number
	1LE1003-1CA12-2AB4-Z				
© Siemens AG 2022	D34	rev.	creation date	language	Page
		01	2022-07-13	en	1/2

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



Motor type : 1AV3131A

SIMOTICS GP - 132 S - IM B3 - 2p

Special design

D34 China Energy Efficiency Label

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
	document type datasheet				document status released
	title 1LE1003-1CA12-2AB4-Z D34				document number
© Siemens AG 2022		rev. 01	creation date 2022-07-13	language en	Page 2/2

