

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



Motor type : 1AV3162B

SIMOTICS GP - 160 M - IM B35 - 4p

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⁾			$\cos\phi$ ³⁾			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_i/I_N	T_i/T_N	T_B/T_N	
400	Δ	50	11.00	-/-	21.00	1470	71.0	91.4	91.9	91.9	0.82	0.76	0.65	8.0	2.5	3.5	IE3
690	Y	50	11.00	-/-	12.30	1470	71.0	91.4	91.9	91.9	0.82	0.76	0.65	8.0	2.5	3.5	IE3
460	Δ	60	12.60	-/-	20.50	1765	68.0	92.4	92.9	92.6	0.83	0.78	0.68	8.1	3.3	3.5	IE3
460	Δ	60	11.00	-/-	18.40	1775	59.0	92.4	92.6	92.0	0.81	0.75	0.63	9.0	3.8	4.0	IE3

IM B35 / IM 2001	FS 160 M	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
------------------	----------	------	--------------	------------------------

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 25.9 s | 33.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 79 dB(A) ²⁾	75 / 79 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0583 kg m ²		Insulation	155(F) to 130(B)
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} , F _{Rad min} 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	78 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	No		Method of cooling	IC416 - separately ventilated, surface cooled
External earthing terminal	No			

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	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.
DI MC LVM		DT Configurator		

	document type	document status	customer	
	datasheet	released		
	title	document number		
	1LE1003-1DB23-4JB4-Z			
	F70+G11			
© Siemens AG 2021		rev.	creation date	language Page
		01	2021-10-08 09:17	en 1/2

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



Motor type : 1AV3162B

SIMOTICS GP - 160 M - IM B35 - 4p

Special design

F70 Mounting of separately driven fan G11 Rotary pulse encoder Sendix 5020 (HTL)

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.			
	document type datasheet				document status released		customer	
	title 1LE1003-1DB23-4JB4-Z				document number			
© Siemens AG 2021	F70+G11				rev. 01	creation date 2021-10-08 09:17	language en	Page 2/2