

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



Motor type : 1AV3083A

SIMOTICS GP - 80 M - IM B5 - 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)																	
240	Δ	50	1.10	-/-	3.75	2885	3.6	82.7	83.9	83.1	0.85	0.80	0.69	7.1	3.0	3.3	IE3
415	Y	50	1.10	-/-	2.20	2885	3.6	82.7	83.9	83.1	0.85	0.80	0.69	7.1	3.0	3.3	IE3
480	Y	60	1.27	-/-	2.15	3480	3.5	84.0	84.6	83.4	0.85	0.80	0.71	7.4	2.8	3.4	IE3
480	Y	60	1.10	-/-	1.90	3500	3.0	84.0	84.0	82.0	0.83	0.77	0.67	8.4	3.3	4.0	MG1
IM B5 / IM 3001			FS 80 M			IP55		IEC/EN 60034		IEC, EN, UL							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 14.7 s 20 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60 / 71 dB(A) ²⁾	64 / 75 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0013 kg m ²		Thermal class	F
Bearing DE NDE	6004 2Z C3	6004 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)	12 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	(A) without (Standard)
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	1.5 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

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 _K /M _N = locked rotor torque / torque nominal	2) at rated power / at full load	
M _B /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			
	1LE1003-0DA32-3FA4-Z						
© Siemens AG 2021	D31+G12			rev.	creation date	language	Page
				01	2021-11-19	en	1/2

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



Motor type : 1AV3083A

SIMOTICS GP - 80 M - IM B5 - 2p

Special design

D31 Version according to UL with "Recognition Mark" G12 Rotary pulse encoder Sendix 5020 (TTL)

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 1LE1003-0DA32-3FA4-Z D31+G12				document number
© Siemens AG 2021		rev. 01	creation date 2021-11-19	language en	Page 2/2

