

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



Motor type : 1AV3083B

SIMOTICS GP - 80 M - IM V1 - 4p

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	
230	Δ	50	0.75	-/-	3.05	1450	5.0	82.5	82.3	79.9	0.75	0.66	0.53	7.1	2.7	3.9	IE3
400	Y	50	0.75	-/-	1.75	1450	5.0	82.5	82.3	79.9	0.75	0.66	0.53	7.1	2.7	3.9	IE3
460	Y	60	0.86	-/-	1.72	1750	4.7	83.5	83.2	80.8	0.75	0.67	0.54	7.7	2.7	4.1	IE3
460	Y	60	0.75	-/-	1.59	1760	4.0	83.5	82.6	79.3	0.71	0.62	0.49	8.3	3.1	4.7	IE3
IM V1 / IM 3011		FS 80 M		14 kg		IP55	IEC/EN 60034		IEC, DIN, ISO, VDE, EN								
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 17.1 s 20.6 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	53.0 / 64.0 dB(A) ²⁾	53.0 / 64.0 dB(A) ²⁾	External earthing terminal	Yes
Moment of inertia	0.0029 kg m ²		Vibration severity grade	A
Bearing DE NDE	6004 2Z C3	6004 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
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) 1 PTC thermistor - for tripping (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	left	Max. cross-sectional area	1.5 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 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 _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. 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 1LE1003-0DB32-2GB6-Z			document number				
	© Siemens AG 2021	H04+N30			rev. 01	creation date 2021-04-22 19:51	language en	Page 1/2

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



Motor type : 1AV3083B

SIMOTICS GP - 80 M - IM V1 - 4p

Special design

H04	External grounding at housing	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
-----	-------------------------------	-----	---

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 1LE1003-0DB32-2GB6-Z							
© Siemens AG 2021	H04+N30	rev. 01	creation date 2021-04-22 19:51		language en	Page 2/2		