

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



Motor type : 1AV3083A

SIMOTICS GP - 80 M - IM B14 - 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⁾			$\cos\phi$ ³⁾			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
								4/4	3/4	2/4	4/4	3/4	2/4				
230	Δ	50	1.10	-/-	3.95	2885	3.6	82.7	83.9	83.1	0.85	0.80	0.69	7.1	3.0	3.3	IE3
400	Y	50	1.10	-/-	2.25	2885	3.6	82.7	83.9	83.1	0.85	0.80	0.69	7.1	3.0	3.3	IE3
460	Y	60	1.27	-/-	2.25	3480	3.5	84.0	84.6	83.4	0.85	0.80	0.71	7.4	2.8	3.4	IE3
460	Y	60	1.10	-/-	1.98	3500	3.0	84.0	84.0	82.0	0.83	0.77	0.67	8.4	3.3	4.0	IE3

IM B14 / IM 3601	FS 80 M	12 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
------------------	---------	-------	------	--------------	------------------------

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	60.0 / 71.0 dB(A) ²⁾	64.0 / 75.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0013 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} for coupling operation 50 60Hz ¹⁾	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	No		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	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
 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. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>
-------------------------------	---------------------	-------------------------------	-------------	---

	document type datasheet	document status released	customer	
	title 1LE1003-0DA32-2KB4	document number	rev. 01	creation date 2021-06-30 09:09
© Siemens AG 2021				Page 1/1