

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



Motor type : 1AV1083C

SIMOTICS GP - 80 M - IM B14 - 6p

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	0.55	-/-	2.90	900	5.8	65.8	66.6	62.6	0.72	0.62	0.49	2.7	1.7	1.9	IE1
400	Y	50	0.55	-/-	1.68	900	5.8	65.8	66.6	62.6	0.72	0.62	0.49	2.7	1.7	1.9	IE1
460	Y	60	0.63	-/-	1.74	1110	5.4	66.0	66.2	62.8	0.69	0.60	0.47	3.1	1.9	2.1	IE1

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

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

Locked rotor time (hot / cold) : 23.6 s | 49.5 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	54.0 / 65.0 dB(A) ²⁾	55.0 / 66.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0024 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	-/-		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>
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Special design

F01	Mounting a brake	F11	Brake supply voltage, 230 V AC, 50/60 Hz
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Additional information:

Brake:

Description:	BFK458-08	Current:	.12 A
Voltage:	AC 230 V	Moment of inertia:	.000045 Nm

Notes:

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