

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



Motor type : 1AV2083B

SIMOTICS GP - 80 M - IM B14 - 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	
240	Δ	50	0.75	-/-	3.00	1440	5.0	79.6	79.9	77.5	0.76	0.67	0.54	5.6	2.2	3.1	IE2
415	Y	50	0.75	-/-	1.72	1440	5.0	79.6	79.9	77.5	0.76	0.67	0.54	5.6	2.2	3.1	IE2
480	Y	60	0.86	-/-	1.74	1740	4.7	78.0	78.5	76.7	0.76	0.69	0.56	6.2	2.2	3.3	IE2
480	Y	60	0.75	-/-	1.61	1750	4.1	78.0	77.4	74.6	0.72	0.63	0.51	6.8	2.5	3.8	IE2

IM B14 / IM 3601

FS 80 M

11 kg

IP55

IEC/EN 60034

IEC, DIN, ISO, VDE, EN

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

Locked rotor time (hot / cold) : 14.8 s | 19.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	53.0 / 64.0 dB(A) ²⁾	55.0 / 66.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0021 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	-/-		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_K/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

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