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

Motor type : 1AV1083B **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) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	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
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	0.75	-/-	3.45	1385	5.2	72.1	72.0	67.0	0.76	0.66	0.51	3.6	2.1	2.3	IE1
400	Y	50	0.75	-/-	1.98	1385	5.2	72.1	72.0	67.0	0.76	0.66	0.51	3.6	2.1	2.3	IE1
460	Y	60	0.86	-/-	1.94	1690	4.8	74.0	73.6	69.9	0.75	0.65	0.52	4.2	2.3	2.6	-/-

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

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

Locked rotor time (hot / cold) : 12.4 s | 25 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	53 / 64 dB(A) 2) 3)	55 / 66 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.0038 kg m²		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)	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 mm²
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
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.	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			

SIEMENS

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