

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



Motor type : 1AV3086A

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]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N I_f/I_N	M_A/M_N T_f/T_N	M_K/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	1.50	-/-	5.30	2865	5.0	84.2	84.8	84.4	0.84	0.80	0.69	8.0	3.2	3.7	IE3
400	Y	50	1.50	-/-	3.05	2865	5.0	84.2	84.8	84.4	0.84	0.80	0.69	8.0	3.2	3.7	IE3
460	Y	60	1.75	-/-	3.00	3455	4.8	85.5	86.0	85.1	0.85	0.81	0.73	8.8	4.0	4.0	IE3
460	Y	60	1.50	-/-	2.65	3485	4.1	85.5	85.5	83.6	0.83	0.78	0.68	10.1	4.7	4.7	IE3
IM B14 / IM 3601		FS 80 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 15.2 s 19.2 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	69 / 77 dB(A) ^{2) 3)}	76 / 84 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0015 kg m ²		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 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	13 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 1 PTC thermistor - for tripping (2 terminals)
External earthing terminal	Without		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 mm - 17 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. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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