

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



Motor type : 1AV3086B

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 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	-/-	4.20	1445	7.3	84.1	84.6	83.6	0.78	0.70	0.58	7.0	3.0	3.5	IE3
400	Y	50	1.10	-/-	2.40	1445	7.3	84.1	84.6	83.6	0.78	0.70	0.58	7.0	3.0	3.5	IE3
460	Y	60	1.27	-/-	2.35	1740	7.0	84.0	87.0	58.5	0.79	0.72	0.59	7.8	3.0	3.0	IE2
460	Y	60	1.10	-/-	2.15	1750	6.0	86.5	86.4	84.2	0.75	0.67	0.54	8.6	3.5	4.4	IE3

IM B14 / IM 3601	FS 80 M	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1000 m			Locked rotor time (hot / cold) : 17.9 s 22.5 s	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63 / 70 dB(A) ²⁾	60 / 68 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0033 kg m ²		Insulation	155(F) to 130(B)
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
Lubricants	Unirex N3		Net weight of the motor (IM B3)	15 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	Yes		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			


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
Contact screw thread	M4	Cable gland	1 plug

Notes:

I_A/I_N = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_k/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_k/M_N = break down torque / nominal torque		

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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	document type datasheet	document status released	customer	
	title 1LE1003-0DB62-2KA4-Z H03	document number	rev. 01	creation date 2021-11-03 15:19
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Special design

H03 Condensation drain holes in end shield

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