

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



Motor type: 1AV1063B

SIMOTICS GP - 63 M - IM B14 - 4p

Client order no.	Item-No	Offer no.
Order no.	Consignment no.	project

Remarks

Electrical data

Safe Area

U	Δ / Y	f	P	P	I	n	M	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I_i/I_N	T_i/T_N	T_B/T_N	
230	Δ	50	0.18	-/-	1.12	1360	1.3	57.0	55.1	47.8	0.71	0.62	0.49	2.8	1.9	2.1	IE1
400	Y	50	0.18	-/-	0.64	1360	1.3	57.0	55.1	47.8	0.71	0.62	0.49	2.8	1.9	2.1	IE1
460	Y	60	0.21	-/-	0.59	1670	1.2	66.0	63.7	56.5	0.68	0.58	0.47	3.2	2.1	2.3	IE1
IM B14 / IM 3601		FS 63 M		kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

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

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	/ dB(A) ²⁾	/ dB(A) ²⁾	Condensate drainage holes	No
Moment of inertia	0.0004 kg m ²		External earthing terminal	No
Bearing DE NDE	6201 2ZC3	6201 2ZC3	Vibration severity grade	A
bearing lifetime			Insulation	155(F) to 130(B)
L _{10mh} F _{Rad max} acc. catalogue 50 60Hz ¹⁾	20000 h	16000 h	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	(A) without (Standard)
			Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Material of terminal box	Aluminium	Cable entry	-/-
Type of terminal box	TB1 B00	Cable gland	-/-
Contact screw thread	M4		
Max. cross-sectional area	1.5 mm ²		

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

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