

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



Motor type : 1AV2063B

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 [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				
230	Δ	50	0.18	-/-	1.07	1385	1.2	64.7	62.4	55.7	0.65	0.56	0.44	3.3	2.6	2.6	IE2
400	Y	50	0.18	-/-	0.62	1385	1.2	64.7	62.4	55.7	0.65	0.56	0.44	3.3	2.6	2.6	IE2
460	Y	60	0.21	-/-	0.60	1685	1.2	68.0	65.8	59.7	0.65	0.56	0.45	3.8	2.8	2.9	IE2
460	Y	60	0.18	-/-	0.56	1710	1.0	68.0	64.4	57.3	0.59	0.50	0.40	3.9	3.3	3.4	IE2
IM B14 / IM 3601		FS 63 M		kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 35.9 s 47.2 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	/ dB(A) ²⁾	/ dB(A) ²⁾	Vibration severity grade	A	
Moment of inertia	0.0004 kg m ²		Insulation	155(F) to 130(B)	
Bearing DE NDE	6201 2Z C3	6201 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)	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 B00	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

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

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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Special design

H03 Condensation drain holes in end shield

Notes:

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