

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



Motor type : 1AV1162A

SIMOTICS GP - 160 M - IM B3 - 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	M_A/M_N	M_k/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
400	Δ	50	11.00	-/-	21.00	2925	36.0	87.6	88.2	87.0	0.86	0.82	0.72	5.7	2.0	2.7	IE1
690	Y	50	11.00	-/-	12.20	2925	36.0	87.6	88.2	87.0	0.86	0.82	0.72	5.7	2.0	2.7	IE1
460	Δ	60	12.60	-/-	21.00	3525	34.0	87.5	87.7	86.5	0.86	0.82	0.74	5.8	2.0	2.7	IE1

IM B3 / IM 1001	FS 160 M	60 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	70.0 / 82.0 dB(A) ²⁾	77.0 / 89.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0300 kg m ²		Vibration severity grade	A
Bearing DE NDE	6209 2Z C3	6209 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			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	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

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>			
SIEMENS	document type datasheet	document status released		customer			
	title 1LE1002-1DA23-4AA4	document number					
© Siemens AG 2021	rev. 01	creation date 2021-01-17 21:10	language en	Page 1/1			