

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



Motor type : 1AV3163A

SIMOTICS GP - 160 M - IM B5 - 2p

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	η ³⁾			cosφ 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	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	15.00	-/-	27.50	2955	48.5	91.9	91.9	90.8	0.86	0.81	0.71	10.2	3.5	4.4	IE3
690	Y	50	15.00	-/-	15.90	2955	48.5	91.9	91.9	90.8	0.86	0.81	0.71	10.2	3.5	4.4	IE3
460	Δ	60	17.30	-/-	27.00	3550	46.5	91.7	91.4	90.2	0.88	0.84	0.75	10.1	3.3	4.5	IE3
460	Δ	60	15.00	-/-	24.00	3560	40.0	91.0	90.4	88.5	0.86	0.81	0.71	11.8	4.0	5.2	IE3
IM B5 / IM 3001			FS 160 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) : 13.3 s 18.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 82 dB(A) ^{2) 3)}	77 / 89 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0430 kg m ²		Thermal class	F
Bearing DE NDE	6309 2Z C3	6209 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	78 kg
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
External earthing terminal	No			

Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	19 mm - 28 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	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 _B /M _N = break down torque / nominal torque		

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
DI MC LVM		DT Configurator			
	document type				document status
	datasheet				released
	title				document number
	1LE1003-1DA33-4FA4-Z				
© Siemens AG 2022	L22				rev.
					929
					creation date
					2022-11-24
					language
					en
					Page
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Special design

L22 Bearing design for increased cantilever forces

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