

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



Motor type : 1AV1163A

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	-/-	28.50	2935	49.0	88.7	88.9	87.2	0.85	0.79	0.70	6.8	2.4	3.2	IE1
690	Y	50	15.00	-/-	16.60	2935	49.0	88.7	88.9	87.2	0.85	0.79	0.70	6.8	2.4	3.2	IE1
460	Δ	60	17.30	-/-	28.00	3530	47.0	89.5	89.1	87.4	0.86	0.82	0.74	6.9	2.4	3.2	IE1
IM B5 / IM 3001			FS 160 M				IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 13 s 25.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 82 dB(A) ^{2) 3)}	77 / 89 dB(A) ^{2) 3)}	External earthing terminal	No
Moment of inertia	0.0360 kg m ²		Vibration severity grade	A
Bearing DE NDE	6209 Z C3	6209 Z C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
50 60Hz			Frame material	aluminum
Relubrication interval/quantity DE NDE	10 g 10 g	8000 h	Net weight of the motor (IM B3)	68 kg
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes		Color, paint shade	RAL7030
Grease nipple	M8x1 DIN 71412		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	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	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 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			
	1LE1002-1DA33-4FB4-Z						
	D22+D47+L23+Y53			rev.	creation date	language	Page
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Special design

D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	L23	Regreasing system
D47	TR CU product safety certificate EAC for the Eurasian Customs Union	Y53	Paint finish in other standard RAL colours

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
	document type datasheet				document status released
	title 1LE1002-1DA33-4FB4-Z D22+D47+L23+Y53				document number
© Siemens AG 2022				rev. 929	creation date 2022-09-05
				language en	Page 2/2

