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

Motor type: 1AV3162B	SIMOTICS GP - 160 M - IM B3 - 4p

31.		
Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Romarks		

Electrical data Safe Area

U	Δ/Υ	f	Р	Р	I	n	М		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	
400	Δ	50	10.55	-/-	20.00	1475	68.3	91.5	91.8	91.2	0.83	0.79	0.68	7.1	2.3	3.3	IE3
690	Υ	50	10.55	-/-	11.60	1475	68.3	91.5	91.8	91.2	0.83	0.79	0.68	7.1	2.3	3.3	IE3
460	Δ	60	12.09	-/-	19.50	1775	65.0	92.4	92.6	91.9	0.84	0.80	0.72	7.4	2.1	3.3	IE3
460	Δ	60	11.00	-/-	18.00	1780	59.0	92.4	92.4	91.3	0.83	0.78	0.68	7.9	2.3	3.7	IE3
IM B3 / II	M 1001		FS 160 M	1 8	33 kg	IP56		IEC/EN 60034 IEC, DIN,		IEC/EN 60034 IEC, DIN, ISO, VDE, EN							

Environmental conditions : $-20 \,^{\circ}\text{C} - +45 \,^{\circ}\text{C}$ / 1,000 m Locked rotor time (hot / cold): 22.9 s | 32.3 s

These values are calculated. The final rating plate data will be calculated when the order is placed The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 77.0 dB(A) ²⁾ 69.0 / 81.0 dB(A) ²⁾		External earthing terminal	No
Moment of inertia	0.0710 kg m²		Vibration severity grade	Α
Bearing DE NDE	6209 2Z C3 6209 2Z C3		Insulation	155(F) to 130(B)
bearing lifetime	aring 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)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	nage holes Yes (standard)		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:

responsible dep.

I_A/I_N = locked rotor current / current nominal M_A/M_N = locked rotor torque / torque nominal

1) L10mh according to DIN ISO 281 10/2010 2) at rated power / at full load

created by

technical reference

3) Value is valid only for DOL operation with motor design IC411

Technical data are subject to change! There may be discrepancies

 M_K/M_N = break down torque / nominal torque

between calculated and rating plate values. DI MC LVM DT Configurator document type document status datasheet released document number 1LE1003-1DB23-4AA4-Z B01+H22+N05+N31 rev. creation date Page language © Siemens AG 2021 2021-04-21 12:55

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Special design									
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H22 IP 56 de	egree of protect	ion		N31			mperature with 60 to 10		
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