

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



Motor type : 1AV2162C

SIMOTICS GP - 160 M - IM B3 - 6p

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	$\eta^{3)}$			$\cos\varphi^{3)}$			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	7.50	-/-	16.80	975	73.0	87.2	87.9	87.2	0.74	0.68	0.57	4.7	1.9	2.2	IE2
690	Y	50	7.50	-/-	9.70	975	73.0	87.2	87.9	87.2	0.74	0.68	0.57	4.7	1.9	2.2	IE2
460	Δ	60	8.60	-/-	16.10	1175	70.0	89.5	90.2	89.6	0.75	0.70	0.60	4.9	1.9	2.2	IE2
460	Δ	60	7.50	-/-	14.40	1180	61.0	89.5	89.6	88.4	0.73	0.67	0.56	5.4	2.1	2.5	IE2

IM B3 / IM 1001	FS 160 M	77 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 39.2 s | 57.4 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67.0 / 79.0 dB(A) ²⁾	70.0 / 82.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0750 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} 50 60Hz ¹⁾ for coupling operation	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	-/-		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	2xM40x1,5-1xM16x1,5
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_K/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.
DI MC LVM		DT Configurator		

	document type	document status	customer	
	datasheet	released		
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	1LE1001-1DC23-4AA4-Z F01+F12			
	rev.	creation date	language	Page
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Special design

F01	Mounting a brake	F12	Brake supply voltage 400 V AC, 50/60 Hz
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Additional information:

Brake:

Description:	BFK458-20	Current:	.47 A
Voltage:	AC 400 V	Moment of inertia:	.0073 Nm

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