

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



Motor type : 1AV3106B

SIMOTICS GP - 100 L - IM B3 - 4p

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)																	
380	Δ	60	4.55	-/-	9.50	1755	25.0	89.5	90.0	89.4	0.81	0.75	0.64	8.1	3.0	3.9	IE3
660	Y	60	4.55	-/-	5.50	1755	25.0	89.5	90.0	89.4	0.81	0.75	0.64	8.1	3.0	3.9	IE3
380	Δ	60	3.70	-/-	8.20	1768	20.0	89.5	89.5	87.7	0.77	0.70	0.58	9.5	3.8	4.8	IE3
320	Δ	50	4.00	-/-	10.10	1455	26.5	88.6	89.4	88.8	0.81	0.75	0.62	7.5	2.9	3.7	IE3
IM B3 / IM 1001		FS 100 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 13.1 s 19.6 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 75 dB(A) ^{2) 3)}	71 / 79 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0149 kg m ²		Thermal class	F
Bearing DE NDE	6206 2Z C3	6206 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)	42 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Preloaded bearing DE		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	4 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5
Contact screw thread	M4	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_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.		Link documents		
DI MC LVM		DT Configurator						
	document type				document status			
	datasheet				released			
	title				document number			
	1LE1003-1AB69-0AA4							
	M1B				rev.	creation date	language	Page
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Special design

M1B	380 VD/660 VY, 60-Hz power
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