

SIMOTICS GP - 100 L - IM B5 - 4p

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

Remarks

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	
230	Δ	50	3.00	-/-	10.30	1460	19.6	87.7	88.5	87.9	0.83	0.78	0.67	8.3	2.5	3.9	IE3
400	Y	50	3.00	-/-	5.90	1460	19.6	87.7	88.5	87.9	0.83	0.78	0.67	8.3	2.5	3.9	IE3
460	Y	60	3.45	-/-	5.80	1755	18.8	89.5	90.1	89.5	0.84	0.79	0.69	8.4	2.7	3.9	IE3
460	Y	60	3.00	-/-	5.10	1760	16.3	89.5	89.5	88.3	0.82	0.76	0.65	9.5	3.1	4.6	IE3
IM B5 / IM 3001			FS 100 L		30 kg		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN			KS C IEC60034-2-1		

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 11.9 s | 15.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60.0 / 72.0 dB(A) ²⁾	62.0 / 74.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0140 kg m ²		Vibration severity grade	A
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Insulation	155(F) to 130(B)
bearing 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)	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

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11.0 mm - 21.0 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_K/M_N = break down torque / nominal torque

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

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

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.			
	document type datasheet	document status released			customer			
	title 1LE1043-1AB52-2FA4-Z							
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		rev. 01	creation date 2021-05-21 18:32		language en	Page 1/2		

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



Motor type : 1AV3105B

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Special design

F01	Mounting a brake	F50	Mechanical manual brake release with lever (cannot be locked)
F10	Brake supply voltage 24 V DC		

Additional information:

Brake:

Description:	BFK458-12	Current:	1.67 A
Voltage:	DC 24 V	Moment of inertia:	.00036 Nm

Notes:

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