

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	2.20	-/-	7.70	1465	14.3	86.7	87.3	86.4	0.83	0.77	0.66	7.6	2.1	3.6	IE3
400	Y	50	2.20	-/-	4.40	1465	14.3	86.7	87.3	86.4	0.83	0.77	0.66	7.6	2.1	3.6	IE3
460	Y	60	2.54	-/-	4.35	1760	13.8	87.5	87.9	87.1	0.84	0.79	0.68	7.7	2.2	3.7	IE2
460	Y	60	2.20	-/-	3.90	1770	11.9	87.5	87.4	85.8	0.81	0.75	0.63	8.7	2.5	4.3	IE2
IM B5 / IM 3001			FS 100 L		30 kg		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					

Locked rotor time (hot / cold) : 11.7 s | 15.1 s

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 m²		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 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.	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			
	title			document number			
	1LE1003-1AB42-2FA4-Z						
© Siemens AG 2021	F01+F11			rev.	creation date	language	Page
				01	2021-04-30 12:45	en	1/2

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



Motor type : 1AV3104B

SIMOTICS GP - 100 L - IM B5 - 4p

Special design

F01	Mounting a brake	F11	Brake supply voltage, 230 V AC, 50/60 Hz
-----	------------------	-----	--

Additional information:

Brake:

Description:	BFK458-12	Current:	.2 A
Voltage:	AC 230 V	Moment of inertia:	.00036 Nm

Notes:

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			
	title	document number			
	1LE1003-1AB42-2FA4-Z				
	F01+F11	rev.	creation date	language	Page
© Siemens AG 2021		01	2021-04-30 12:45	en	2/2