

SIMOTICS GP Premium Insulation - 100 L - IM B3 - 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	
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	3.00	-/-	5.90	1460	19.6	87.7	88.4	87.8	0.84	0.79	0.69	8.5	2.4	3.4	IE3
690	Y	50	3.00	-/-	3.40	1460	19.6	87.7	88.4	87.8	0.84	0.79	0.69	8.5	2.4	3.4	IE3
460	Δ	60	3.45	-/-	5.80	1760	18.7	87.5	87.9	87.0	0.85	0.81	0.81	8.9	2.4	3.6	IE2
460	Δ	60	3.00	-/-	5.10	1765	16.2	89.5	89.5	88.0	0.83	0.78	0.67	10.0	2.7	4.1	IE3
IM B3 / IM 1001			FS 100 L			IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN				KS C IEC60034-2-			

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 13.6 s | 17.2 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 75 dB(A) ^{2) 3)}	70 / 78 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0160 kg m²		Thermal class	F
Bearing DE NDE	6206 2Z C3	6206 2Z C3 INS	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{ad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	42 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Bearing insulation DE / Bearing insulation NDE	Yes (non-drive end)		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	Without		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	Without			

Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 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.		Link documents	
DI MC LVM		DT Configurator					
	document type			document status			
	datasheet			released			
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1AV3105B

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Special design

L51

Bearing insulation NDE

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