

SIMOTICS GP - 90 S - IM B5 - 6p

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	0.75	-/-	1.96	945	7.6	78.9	80.0	78.8	0.70	0.62	0.50	4.6	2.2	2.6	IE3
690	Y	50	0.75	-/-	1.14	945	7.6	78.9	80.0	78.8	0.70	0.62	0.50	4.6	2.2	2.6	IE3
IM B5 / IM 3001			FS 90 S				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					

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

Locked rotor time (hot / cold) : 40.5 s | 49.8 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	43 / 55 dB(A) ^{2) 3)}	46 / 58 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0040 kg m²		Thermal class	F
Bearing DE NDE	6205 2Z C3	6004 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
Regreasing device	Without		Net weight of the motor (IM B3)	16 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 1 PTC thermistor - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 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			
	title			document number			
	1LE1003-0EC03-4FB4						
© Siemens AG 2023				rev.	creation date	language	Page
				943	2023-06-27	en	1/1