

SIMOTICS GP - 90 L - IM B3 - 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	$\eta^{3)}$			$\cos\varphi^{3)}$			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	
220	Δ	50	1.10	-/-	5.30	935	11.2	78.1	79.3	77.7	0.70	0.61	0.49	4.4	2.2	2.6	IE2
380	Y	50	1.10	-/-	3.05	935	11.2	78.1	79.3	77.7	0.70	0.61	0.49	4.4	2.2	2.6	IE2
440	Y	60	1.27	-/-	3.15	1135	10.7	75.0	76.0	74.6	0.70	0.62	0.50	4.4	2.1	2.6	IE1
440	Y	60	1.10	-/-	2.90	1145	9.2	75.0	75.0	72.6	0.66	0.57	0.45	4.8	2.4	3.1	IE1
IM B3 / IM 1001			FS 90 L		16 kq		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					

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

Locked rotor time (hot / cold) : 20.6 s | 30.7 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	43.0 / 55.0 dB(A) ²⁾	46.0 / 58.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0040 kg m ²		Vibration severity grade	A
Bearing DE NDE	6305 2Z C3	6204 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	Locating bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes		Method of cooling	IC418 - without fan and without housing fan

Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9.0 mm - 17.0 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

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



Motor type : 1AV2094C

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	L22	Bearing design for increased cantilever forces
F90	Without external fan and without external fan cover	R11	Terminal box rotated through 90°, cable entry from NDE
H03	Condensation drain holes in end shield	Y58	Non-standard cylindrical shaft extension, DE
L20	Locating bearing, DE		

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