

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



Motor type : 1AV3184C

INNOMOTICS GP - 180 L - IM B3 - 6p

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

Remarks

Electrical data **Safe Area**

U [V]	Δ/Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta^{(3)}$			$\cos\phi^{(3)}$			I_A/I_N	M_A/M_N	M_R/M_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	15.00	-/-	29.50	975	147.0	91.2	92.0	91.9	0.80	0.75	0.65	5.9	2.3	2.8	IE3
690	Y	50	15.00	-/-	17.20	975	147.0	91.2	92.0	91.9	0.80	0.75	0.65	5.9	2.3	2.8	IE3

IM B3 / IM 1001	FS 180 L	IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1000 m				Locked rotor time (hot / cold) : 38.90 s 58.80 s	

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	61.0 / 68.0 dB(A) ²⁾	61.0 / 68.0 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.1900 kg m ²		Thermal class	F
Bearing DE NDE	6210 2Z C3	6210 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)	130 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Main cable entry	2xM40x1.5
Material of terminal box	Aluminium	Main cable gland	2 plugs
Type of terminal box	TB1 J00	Auxiliary cable entry	1xM16x1.5
Contact screw thread	6xM5	Auxiliary cable gland	1 plug
Max. cross-sectional area	16.0 mm ²		

I_A/I_N = locked rotor current / current nominal
 M_A/M_N = locked rotor torque / torque nominal
 M_R/M_N = break down torque / nominal torque
¹⁾ L_{10mh} 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

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