

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



Motor type : 1AV3164C

INNOMOTICS GP - 160 L - IM B5 - 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]	η ³⁾			cosφ ³⁾			I _A /I _N I _V /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	11.00	-/-	38.00	980	107.0	90.3	90.8	90.2	0.80	0.75	0.65	6.8	2.9	2.8	IE3
400	Y	50	11.00	-/-	22.00	980	107.0	90.3	90.8	90.2	0.80	0.75	0.65	6.8	2.9	2.8	IE3
460	Y	60	12.60	-/-	22.00	1180	102.0	90.2	90.6	89.8	0.80	0.75	0.66	7.1	3.0	2.8	IE2
460	Y	60	11.00	15.00	19.30	1185	89.0	91.7	91.7	90.5	0.78	0.72	0.62	8.0	3.4	3.2	MG1
IM B5 / IM 3001			FS 160 L		CC032A		IP55	IEC/EN 60034			IEC, EN, UL, CSA, NEMA MG1-12-12				L		
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 21.80 s 31.70 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	66.0 / 74.0 dB(A) 2) 3)	73.0 / 81.0 dB(A) 2) 3)	Vibration severity grade	A
Moment of inertia	0.1200 kg m ²		Thermal class	F
Bearing DE NDE	6309 2Z C3	6309 2Z C3	Duty type	S1
Bearing lifetime L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Regreasing device	Without		Frame material	aluminum
Grease nipple	-/-		Net weight of the motor (IM B3)	115 kg
Type of bearing	Locating bearing NDE		Coating (paint finish)	Standard paint finish C2
Condensate drainage holes	Without		Color, paint shade	RAL7030
External earthing terminal	Without		Motor protection	(L) 2 Pt1000 resistance thermometers(4 terminals)
			Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	575kg

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_K/M_N = locked rotor torque / torque nominal
M_K/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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Responsible department IN LV	Technical reference	Created by IPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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Special design

F01 Mounting of holding brake F10 Brake supply voltage 24 V DC

Implicit options

F74 Sheet steel fan cowl L25 Double sides reinforced bearings for DE and NDE, Type 63

Additional information:

Brake:

Description: BFK458-20 Current: 4.20 A
Voltage: DC 24 V Moment of inertia: 0.007300 kgm²

I_{Δ}/I_N = locked rotor current / current nominal
 M_{Δ}/M_N = locked rotor torque / torque nominal
 M_{br}/M_N = break down torque/ nominal torque

1) $L_{100\%}$ 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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