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

Motor type : 1AV3162A **INNOMOTICS GP - 160 M - IM B3 - 2p**

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) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	I_A/I_N I_I/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)																	
400	Δ	50	11.00	-/-	19.60	2945	35.5	91.2	91.4	90.6	0.89	0.86	0.79	8.3	2.5	3.5	IE3
690	Y	50	11.00	-/-	11.30	2945	35.5	91.2	91.4	90.6	0.89	0.86	0.79	8.3	2.5	3.5	IE3
460	Δ	60	12.60	-/-	19.30	3540	34.0	91.0	90.9	89.5	0.90	0.87	0.81	8.4	2.5	3.5	IE3
460	Δ	60	11.00	-/-	17.20	3555	29.5	91.0	90.4	88.4	0.88	0.85	0.77	9.5	2.9	4.0	IE3

IM B3 / IM 1001		FS 160 M		IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN			

Environmental conditions : -20 °C - +40 °C / 1000 m	Locked rotor time (hot / cold) : 21.30 s | 29.70 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	77.0 / 85.0 dB(A) 2) 3)	82.0 / 90.0 dB(A) 2) 3)
Moment of inertia	0.0370 kg m²	
Bearing DE | NDE	6209 2Z C3	6209 2Z C3
Bearing lifetime		
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h
Regreasing device	Without	
Grease nipple	-/-	
Type of bearing	Locating bearing NDE	
Condensate drainage holes	Without	
External earthing terminal	Without	

Vibration severity grade	A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	aluminum
Net weight of the motor (IM B3)	75 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	(A) without (Standard)
Method of cooling	IC411 - self ventilated, surface cooled
Carbon footprint (without options)	339kg

Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm²
Material of terminal box	Aluminium	Main cable entry	2xM40x1.5
Type of terminal box	TB1 J00	Main cable gland	2 plugs
Contact screw thread	6xM5		

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) 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	Technical reference	Created by	Approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
IN LV		IPC			

INNOMOTICS

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