

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



Motor type : 1AV3112C

INNOMOTICS GP - 112 M - IM B5 - 6p

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

Remarks

Safe Area

Electrical data

-/-

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 I_f/I_N	M_A/M_N T_f/T_N	M_K/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	50	2.20	-/-	8.70	970	21.5	84.3	85.0	83.9	0.75	0.68	0.55	5.6	2.2	2.8	IE3
400	Y	50	2.20	-/-	5.00	970	21.5	84.3	85.0	83.9	0.75	0.68	0.55	5.6	2.2	2.8	IE3
IM B5 / IM 3001			FS 112 M		IP55		UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 26.9 s 35 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 74 dB(A) ^{2) 3)}	65 / 77 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0170 kg m ²		Thermal class	F
Bearing DE NDE	6206 2Z C3	6206 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)	34 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) 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	Max. cross-sectional area	4 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F10	Cable entry	Han-Drive 10e
Contact screw thread	M4	Cable gland	connector

I_A/I_N = locked rotor current / current nominal ¹⁾ L_{10mh} according to DIN ISO 281 10/2010 ³⁾ Value is valid only for DOL operation with motor design IC411
 M_A/M_N = locked rotor torque / torque nominal ²⁾ at rated power / at full load

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents		
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Special design

M10 Additional rating plate, loose R70 Motor connector Han-Drive 10e for 230 VD/400 VY

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