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

Motor type : 1AV1112L **INNOMOTICS GP - 112 M - (F) IM B5 / IM3001 - p**

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

Remarks

Electrical data -/-

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)																	
415		50	1.01	-/-	3.55	715		66.5			0.60			3.5	1.7	2.5	
415		50	1.75	-/-	3.76	1440		80.9			0.87			5.9	1.7	2.5	
(F) IM B5 / IM3001 /			FS 112 M					IEC/EN 60034									

Environmental conditions : -20 °C - +50 °C / 1000 m

Exception from EU 2019/1781 acc. to Article 2 (2) (n)

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	/ dB(A) 3)	/ dB(A) 3)	
Moment of inertia	0.0100 kg m²		
Bearing DE | NDE	6306 2ZC3	6306 2ZC3	
Regreasing device	40000		
Type of bearing	Preloaded bearing NDE		
Condensate drainage holes	No		
External earthing terminal	No		
Vibration severity grade	A (standard)		
Thermal class	F		

Duty type	S1 = continuous operation
Direction of rotation	bidirectional
Frame material	aluminum
Net weight of the motor	31 kg
Coating (paint finish)	Special paint finish, resistant to salt-laden air C4
Color, paint shade	RAL7035
Motor protection	Without
Method of cooling	IC 411

Terminal box

Terminal box position	Terminal box - at the right	Max. cross-sectional area	4 mm²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 plugs

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_{WA} 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 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 LVM		SPC	Created automatically		

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Document type	Document status
Technical data sheet	Released
Document title	**Document number**
1LE1011-1BL29-0FA5-Z	TDS-250609-143818
F74+F76+H07+M1Y+N06+N31+Q02+S03+Y53	

Restricted	Revision	Creation date	Language	Page
	AA	2025-06-09	en	1/2

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Special design

F74	Sheet steel fan cowl	N31	Increased air humidity/temperature with 60 to 100 g water per m3 air
F76	Metal external fan	Q02	Anti-condensation heating for 230 V (2 terminals)
H07	Stainless steel screws and bolts (outside the motor)	S03	Special paint finish in sea air resistant C4
M1Y	Non-standard winding: 415VD,50Hz	Y53	Paint finish in other standard RAL colours RAL7035
N06	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 50°C, power reduced		

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