

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



Motor type : 1AV3112B

INNOMOTICS GP - 112 M - IM B5 - 4p

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)																	
220	Δ	50	4.00	-/-	14.40	1460	26.0	88.6	89.2	88.6	0.82	0.76	0.65	7.1	2.4	3.7	IE3
380	Y	50	4.00	-/-	8.40	1460	26.0	88.6	89.2	88.6	0.82	0.76	0.65	7.1	2.4	3.7	IE3
440	Y	60	4.55	-/-	8.00	1760	24.5	89.5	90.0	89.3	0.83	0.78	0.67	7.3	2.5	3.8	IE3
440	Y	60	3.70	5.00	6.80	1770	20.0	89.5	90.0	88.3	0.80	0.72	0.60	8.2	2.9	4.3	MG1
IM B5 / IM 3001			FS 112 M		CC032A		IP55		IEC/EN 60034			IEC, EN, UL, CSA, NEMA MG1-12-12			M		
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 16.10 s 21.80 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	58.0 / 70.0 dB(A) 2) 3)	62.0 / 74.0 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 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)	34 kg
Type of bearing	Preloaded bearing DE		Coating (paint finish)	Standard paint finish C2
Condensate drainage holes	Without		Color, paint shade	RAL7030
External earthing terminal	Without		Motor protection	(A) without (Standard)
			Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	172kg

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm ²
Material of terminal box	Aluminium	Main cable entry	2xM32x1.5
Type of terminal box	TB1 F00	Main cable gland	2 plugs
Contact screw thread	6xM4		

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

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

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	
INNOMOTICS	Document type Technical data sheet			Document status Released			
	Document title 1LE1023-1BB22-1FA4-Z F01+F11			Document number TDS-260722-131119			
Restricted © Innomotics 2026				Revision AA	Creation date 2026-07-22	Language en	Page 1/2

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



Motor type : 1AV3112B

INNOMOTICS GP - 112 M - IM B5 - 4p

Special design

F01	Mounting of holding brake	F11	Brake supply voltage, 230 V AC, 50/60 Hz
-----	---------------------------	-----	--

Implicit options

F74	Sheet steel fan cowl
-----	----------------------

Additional information:

Brake:	
--------	--

Description:	BFK458-14	Current:	0.25 A
Voltage:	AC 230 V	Moment of inertia:	0.000630 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

Transmittal, reproduction, dissemination and/or editing of this document as well as utilization of its contents and communication thereof to others without express authorization are prohibited. Offenders will be held liable for payment of damages. All rights created by patent grant or registration of a utility model or design patent are reserved.

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	
INNOMOTICS	Document type Technical data sheet			Document status Released			
	Document title 1LE1023-1BB22-1FA4-Z F01•F11			Document number TDS-260722-131119			
Restricted © Innomotics 2026				Revision AA	Creation date 2026-07-22	Language en	Page 2/2