

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



Motor type : 1AV3112B INNOMOTICS GP - 112 M - IM B3 - 4p

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

Remarks

Safe Area

Electrical data

-/-

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL	
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N		
DOL duty (S1) - 155(F) to 130(B)																		
400	Δ	50	4.00	-/-	7.90	1460	26.0	88.6	89.2	88.6	0.82	0.76	0.65	7.1	2.4	3.7	IE3	
460	Δ	60	4.55	-/-	7.70	1760	24.5	89.5	90.0	89.3	0.83	0.78	0.67	7.3	2.5	3.8	IE3	
460	Δ	60	3.70	5.00	6.50	1770	20.0	89.5	90.0	88.3	0.80	0.72	0.60	8.2	2.9	4.3	MG1	
IM B3 / IM 1001		FS 112 M		CC032A		IP55		UKCA		IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12-12			kVA Code: M			
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 16.1 s 21.8 s									

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	58 / 70 dB(A) ^{2) 3)}	62 / 74 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0170 kg m²		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	IC416 - separately 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 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_K/M_N = locked rotor torque / torque nominal
M_B/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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Special design

F01	Mounting of holding brake	F70	Mounting of separately driven fan
F11	Brake supply voltage, 230 V AC, 50/60 Hz	G11	Rotary pulse encoder Sendix 5020 (HTL)

Additional information:

Brake:

Description:	BFK458-14	Current:	.25 A
Voltage:	AC 230 V	Moment of inertia:	0.000630 kgm ²

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