

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



Motor type : 1AV2112A INNOMOTICS GP - 112 M - IM B3 - 2p

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	-/-	8.10	2930	13.0	85.8	86.1	84.7	0.83	0.76	0.64	8.1	2.8	3.4	IE2
690	Y	50	4.00	-/-	4.70	2930	13.0	85.8	86.1	84.7	0.83	0.76	0.64	8.1	2.8	3.4	IE2
460	Δ	60	4.55	-/-	7.80	3530	12.3	87.5	87.8	86.3	0.84	0.70	0.61	8.9	3.0	3.6	IE2
460	Δ	60	3.70	-/-	6.60	3545	10.0	87.5	87.2	85.1	0.80	0.73	0.62	10.4	3.7	4.5	IE2
IM B3 / IM 1001		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) : 6.9 s 11.6 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	71 / 79 dB(A) ^{2) 3)}	75 / 83 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0062 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)	26 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	(A) without (Standard)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box																	
Terminal box position			top			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								
Contact screw thread			M4			Cable gland			2 plugs								

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_K/M_N = locked rotor torque / torque nominal 2) at rated power / at full load

M_B/M_N = break down torque / nominal torque

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

B02	Acceptance test certificate 3.1 acc. to EN 10204	M11	Stainless steel rating plate
D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)		

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