

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



Motor type : 1AV2072B

INNOMOTICS XP - 71 M - IM B14 - 4p

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

Remarks

Electrical data **II 2D Ex tb IIIC T 125°C Db**

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	M_A/M_N	M_R/M_N	IE-CL
DOL duty (S1) - 155(F) to 130(B)																	
220	Δ	60	0.29	-/-	1.58	1695	1.6	70.0	69.7	65.9	0.69	0.60	0.47	4.1	2.4	2.6	IE2
380	Y	60	0.29	-/-	0.91	1695	1.6	70.0	69.7	65.9	0.69	0.60	0.47	4.1	2.4	2.6	IE2

IM B14 / IM 3601	FS 71 M	IP65	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1000 m		Locked rotor time (hot / cold) : 39.90 s 50.40 s		

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	50.0 / 61.0 dB(A) ²⁾ ₃₎	53.0 / 64.0 dB(A) ²⁾ ₃₎	Vibration severity grade	A
Moment of inertia	0.0008 kg m ²		Thermal class	F
Bearing DE NDE	6202 2Z C3	6202 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)	6 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	With (standard)		Motor protection	(A) without (Standard)
			Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	31kg

Terminal box

Terminal box position	top	Main cable entry	1xM25x1.5
Material of terminal box	Aluminium	Main cable gland	1 plug
Type of terminal box	TB1 B20	Auxiliary cable entry	1xM16x1.5
Contact screw thread	6xM4	Auxiliary cable gland	1 plug
Max. cross-sectional area	4.0 mm ²		

I_A/I_N = locked rotor current / current nominal
M_A/M_N = locked rotor torque / torque nominal
M_R/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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Responsible department IN LV	Technical reference	Created by IPC	Approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents
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Special design

M1A 220 VD/380 VY, 60-Hz power



I_L/I_N = locked rotor current / current nominal
 M_L/M_N = locked rotor torque / torque nominal
 M_b/M_N = break down torque / nominal torque

1) $L_{0.95}$ according to DIN ISO 281 10/2010
 2) at rated power / at full load

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