

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



Motor type : 1CV2073B

INNOMOTICS SD - 71 M - IM B3 - 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]	$\eta^{(3)}$			$\cos\phi^{(3)}$			I_A/I_N	M_A/M_N	M_R/M_N	M_B/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_V/I_N	T_A/T_N	T_B/T_N		
DOL duty (S1) - 155(F) to 130(B)																		
230	Δ	50	0.37	-/-	1.77	1380	2.5	72.7	73.2	69.9	0.72	0.63	0.49	4.0	2.5	2.5	2.5	IE2
400	Y	50	0.37	-/-	1.02	1380	2.5	72.7	73.2	69.9	0.72	0.63	0.49	4.0	2.5	2.5	2.5	IE2
460	Y	60	0.43	-/-	1.04	1680	2.5	72.0	72.4	69.4	0.72	0.63	0.50	4.5	2.6	2.7	2.7	IE2
460	Y	60	0.37	-/-	0.96	1705	2.0	72.0	71.2	66.9	0.67	0.58	0.45	5.0	3.0	3.2	3.2	IE2
IM B3 / IM 1001			FS 71 M			IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 38.80 s 49.60 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	59.0 / 67.0 dB(A) <small>2) 3)</small>	59.0 / 67.0 dB(A) <small>2) 3)</small>	Vibration severity grade	A
Moment of inertia	0.0009 kg m ²		Thermal class	F
Bearing DE NDE	6202 2Z C3	6202 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	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	13 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) 1 PTC thermistor - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	36kg

Terminal box

Terminal box position	top	Main cable entry	1xM25x1.5
Material of terminal box	cast iron	Main cable gland	1 plug
Type of terminal box	TB1 D01	Auxiliary cable entry	1xM16x1.5
Contact screw thread	6xM4	Auxiliary cable gland	1 plug
Max. cross-sectional area	2.5 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 28110/2010
²⁾ at rated power / at full load
³⁾ Value is valid only for DOL operation with motor design IC411

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