

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



Motor type : 1CV2252C INNOMOTICS SD - 250 M - IM B3 - 6p

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	M _A /M _N	M _K /M _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	37.00	-/-	70.00	982	360.0	92.2	93.1	93.1	0.83	0.80	0.72	6.0	2.8	2.5	IE2
690	Y	50	37.00	-/-	40.50	982	360.0	92.2	93.1	93.1	0.83	0.80	0.72	6.0	2.8	2.5	IE2
460	Δ	60	44.50	-/-	73.00	1180	360.0	91.7	92.5	92.5	0.84	0.82	0.75	6.3	2.7	2.3	IE1
460	Δ	60	37.00	-/-	60.00	1185	300.0	93.0	93.3	92.6	0.83	0.79	0.70	7.3	3.3	2.8	IE2
IM B3 / IM 1001		FS 250 M		IP55				IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 21.90 s 34.40 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	62.0 / 77.0 dB(A) ²⁾ ₃₎	66.0 / 79.0 dB(A) ²⁾ ₃₎	Vibration severity grade	A
Moment of inertia	0.8600 kg m²		Thermal class	F
Bearing DE NDE	6215 Z C3	6215 Z 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)	370 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With		Motor protection	(A) without (Standard)
External earthing terminal	With		Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	1401kg

Terminal box

Terminal box position	top	Max. cross-sectional area	120.0 mm²
Material of terminal box	cast iron	Main cable entry	2xM63x1.5
Type of terminal box	TB1 N01	Main cable gland	2 plugs
Contact screw thread	6xM10		

I_A/I_N = locked rotor current / current nominal
M_r/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

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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
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D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)
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H03	Condensation drain holes in end shield	H04	External grounding at housing
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