

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



Motor type : 1CV3355B

INNOMOTICS SD - 355 L - IM B3 - 4p

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

Remarks

Safe Area

Electrical data

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cos φ ³⁾			I _A /I _N I _I /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _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	500.00	-/-	870.00	1491	3200.0	96.0	96.1	95.9	0.86	0.82	0.73	8.1	3.1	3.3	IE3
690	Y	50	500.00	-/-	510.00	1491	3200.0	96.0	96.1	95.9	0.86	0.82	0.73	8.1	3.1	3.3	IE3
460	Δ	60	500.00	-/-	760.00	1792	2650.0	96.2	96.2	95.7	0.86	0.82	0.73	9.5	3.5	3.7	IE3
460	Δ	60	580.00	-/-	870.00	1790	3100.0	96.2	96.3	96.0	0.87	0.84	0.76	8.6	3.0	3.2	IE3
IM B3 / IM1001			FS 355 L		IP55		UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 11.3 s 50.8 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	80 / 96 dB(A) ^{2) 3)}	84 / 99 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	8.3600 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6320 C4	6320 C4	Vibration severity grade	Grade A
permissible lateral force on (N)	X ₀ ²⁾ 9900	X _{0.5} ²⁾ 9300	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad, min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	60 g 60 g 6000 h		Frame material	cast iron
Lubricants	UNIREX N3		Net weight of the motor	kg
Regreasing device	Flat type lubricating nipple		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	at the right	Max. cross-sectional area	300 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	63 mm - 70 mm
Type of terminal box	TB3R01	Cable entry	4xM80x2 - 2xM20x1,5
Contact screw thread	12xM16	Cable gland	-/-

I_A/I_N = locked rotor current / current nominal
 M_A/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 LVM	Technical reference	Created by SPC	Approved by Created automatically	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	G11	Rotary pulse encoder Sendix 5020 (HTL)
D47	TR CU product safety certificate EAC for the Eurasian Customs Union	L51	Bearing insulation NDE
F70	Mounting of separately driven fan		

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