

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

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾ 4/4 3/4 2/4			cosφ ³⁾ 4/4 3/4 2/4			I _A /I _N I _V /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL	
DOL duty (S1) - 155(F) to 130(B)																		
500	Δ	50	500.00	-/-	700.00	1491	3200.0	96.0	96.1	95.9	0.86	0.82	0.73	8.1	3.1	3.3	IE3	
575	Δ	60	500.00	-/-	610.00	1792	2650.0	96.2	96.2	95.7	0.86	0.82	0.73	9.5	3.5	3.7	IE3	
575	Δ	60	580.00	-/-	700.00	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) : 11.30 s 50.80 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	Yes
Moment of inertia	8.3600 kg m ²		External earthing terminal	Yes
Bearing DE NDE	6320 C4	6320 C4	Vibration severity grade	Grade A
permissible lateral force on (N) (N)	X ₀ [•] 9900	X _{0.5} [•] 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	60.0 g 60.0 g 6000 h		Frame material	cast iron
Lubricants	UNIREX N3		Net weight of the motor	2290 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	6 PTC thermistors - for alarm and tripping (4 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC416 - separately ventilated, surface cooled

Terminal box

Terminal box position	box at the angle 45°, socket right	Max. cross-sectional area	240.0 mm ²
Material of terminal box	cast iron	Cable entry	4xM80x2 - 2xM20x1,5
Type of terminal box	TB3R01	Cable gland	-/-
Contact screw thread	12xM16		

I_A/I_N = locked rotor current / current nominal
M_K/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	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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Special design

Acceptance test certificate 3.1 acc. to EN 10204	Bearing insulation NDE
Performance Line Process industry	2 Pt100 resistance thermometers in basic configuration for bearings (4 terminals)
Mounting of separately driven fan	Cast iron auxiliary terminal box (small)
Mounted rotary pulse encoder LL 861 900 220	

Implicit options

Condensation drain holes in end shield	Stainless steel rating plate
External grounding at housing	Extension of the liability for defects by 24 months to a total of 36 months from delivery.Wearing parts (bearings) are excluded from the warrenty extension.
Regreasing system	Special paint finish C3
Double sides reinforced bearings for DE and NDE, Type 63	
Outlet for old grease	

I_{Δ}/I_N = locked rotor current / current nominal
 M_{Δ}/M_N = locked rotor torque / torque nominal
 M_{Δ}/M_N = break down torque/ nominal torque

1) $L_{100\%}$ according to DIN ISO 281 10/2010
2) at rated power / at full load

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