

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



Motor type : 1CV3317B

Innomotics SD - 315 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⁾			cosφ 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
DOL duty (S1) - 155(F) to 130(B)																	
500	Δ	50	315.00	-/-	455.00	1490	2000.0	96.0	96.0	95.6	0.83	0.80	0.70	8.5	3.2	3.5	IE3
575	Δ	60	315.00	-/-	395.00	1792	1680.0	96.2	96.0	95.3	0.83	0.78	0.69	9.4	3.4	3.7	IE3
575	Δ	60	360.00	-/-	445.00	1790	1920.0	96.2	96.1	95.6	0.84	0.80	0.72	8.3	3.0	3.2	IE3
IM B3 / IM1001			FS 315 L		IP55		UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 20.70 s 41.40 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 90 dB(A) ^{2) 3)}	81 / 95 dB(A) ^{2) 3)}	External earthing terminal	Yes
Moment of inertia	5.3900 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	NU 319	6319 C4	Thermal class	F
permissible lateral force on (N) (N)	X ₀ ¹⁾ 34000	X _{0.5} ¹⁾ 23000	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
Relubrication interval/quantity DE NDE	40.0 g 40.0 g 6000 h		Net weight of the motor	1560 kg
Lubricants	UNIREX N3		Coating (paint finish)	Special paint finish C3
Regreasing device	Flat type lubricating nipple		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	6 PTC thermistors - for alarm and tripping (4 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC416 - separately ventilated, surface cooled
Condensate drainage holes	Yes		Carbon footprint (without options)	0kg

Terminal box

Terminal box position	box at the angle 45°, socket right	Max. cross-sectional area	185.0 mm ²
Material of terminal box	cast iron	Cable entry	2xM63x1,5 - 2xM20x1,5
Type of terminal box	TB3Q61	Cable gland	4 plugs
Contact screw thread	6xM12		

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 design for increased cantilever forces
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	Non-standard threaded through holes (NPT or G thread) G2 1/2 x 2 + G1/2 x 2

Implicit options

Condensation drain holes in end shield	Extension of the liability for defects by 24 months to a total of 36 months from delivery. Wearing parts (bearings) are excluded from the warranty extension.
External grounding at housing	
Regreasing system	
Stainless steel rating plate	
	Drilled removable entry plate
	Special paint finish C3

I_s/I_N = locked rotor current / current nominal
 M_s/M_N = locked rotor torque / torque nominal
 M_b/M_N = break down torque / nominal torque

1) L_{1000h} 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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