

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



Motor type : 1CD3314A

INNOMOTICS XP - 315 L - IM V1 - 2p

Client order no. 4525000760	Item-No. 000010	Offer no.
Order no. LIAZ: 3594169	Consignment no.	Project

Remarks
II 2G Ex db eb IIC T4 Gb

Electrical data														-/-			
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 _K /M _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I _I /I _N	T _I /T _N	T _B /T _N	
DOL duty (S1) - 155(F) to 130(B)																	
690	Y	50	150	-/-	146	2982	480	95.5	95.6	95.2	0.90	0.89	0.87	6.9	2.3	2.8	IE3
IM V1 / IM3011			FS 315 L			IP56		IEC/EN 60034			IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 42 s 78 s							

Mechanical data																			
Sound level (SPL / SWL) at 50Hz 60Hz						74 / 88 dB(A) ^{2) 3)}			79 / 93 dB(A) ^{2) 3)}			External earthing terminal						(Standard) Yes	
Moment of inertia						2.2900 kg m ²						Vibration severity grade						Grade A	
Bearing DE NDE						6316 C3			6316 C3			Thermal class						F	
permissible lateral force on (N) (N)						X ₀ : 4050		X _{0,5} : 3800		X _{max} : 3580		Duty type						S1	
bearing lifetime												Direction of rotation						clockwise	
L _{10mh} F _{Rad} min for coupling operation 50 60Hz ¹⁾						20000 h			16000 h			Frame material						cast iron	
Relubrication interval/quantity DE NDE						30 g 30 g 3000 h						Net weight of the motor						1350 kg	
Lubricants						UNIREX N3						Motor weight incl. options						1350 kg	
Regreasing device						Flat type lubricating nipple						Coating (paint finish)						Corrosion Category CX with durability High	
Grease nipple						M10x1 DIN 3404 A						Color, paint shade						RAL7030	
Type of bearing						Locating bearing NDE						Motor protection						3 PTC thermistors - for tripping (2 terminals)	
Condensate drainage holes						No						Method of cooling						IC411 - self ventilated, surface cooled	

Terminal box																			
Terminal box position						box at the top						Cable diameter from ... to ...						42 mm - 54 mm	
Material of terminal box						cast iron						Cable entry						2xM63x1,5 - 2xM20x1,5	
Type of terminal box						TB3Q61						Plug						2xM63 - 2xM20	
Contact screw thread						6xM12													
Max. cross-sectional area						240 mm ²													

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>				
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Restricted © Innomotics 2025		B92+C02+F77+H00+H22+M10+M1Y+Q01+Q02+Q80+S05+S09				Revision AA		Creation date 2025-02-06		Language en		Page 1/2

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Special design

B92	Documentation Package "Projects"	M1Y	Non-standard winding: 690VY_50HZ_150kW
C02	VIK version	Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings
F77	Low-noise version for 2-pole motors, for clockwise direction of rotation	Q02	Anti-condensation heating for 230 V (2 terminals)
H00	Canopy	Q80	Extension of the liability for defects by 12 months to a total of 24 months (2 years) from delivery
H22	IP 56 degree of protection	S05	Interior paint (metal parts, rotor and stator)
M10	Additional rating plate, loose	S09	Special paint finish CX for offshore with high durability

Additional information:

Space heaters

Technical data: 1-phase, 230V, 218W

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