

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



Motor type : 1CV4312A

INNOMOTICS SD - 315 M - IM B3 - 2p

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 _f /I _N	M _A /M _N T _f /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)																		
380	Δ	50	132.00	-/-	230.00	2988	420.0	96.2	96.2	95.6	0.90	0.88	0.81	9.8	2.6	3.9	IE4	
660	Y	50	132.00	-/-	133.00	2988	420.0	96.2	96.2	95.6	0.90	0.88	0.81	9.8	2.6	3.9	IE4	
440	Δ	60	132.00	-/-	200.00	3590	350.0	95.8	95.5	94.4	0.90	0.87	0.80	11.0	2.9	4.3	IE4	
440	Δ	60	148.00	-/-	225.00	3588	395.0	95.8	95.6	94.8	0.90	0.88	0.82	9.8	2.6	3.9	IE4	
IM B3 / IM1001			FS 315 M			IP55		UKCA		IEC/EN 60034			IEC, DIN, ISO, VDE, EN					
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 27.2 s 41.3 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 88 dB(A) ^{2) 3)}	77 / 92 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	2.0800 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6316 C3	6316 C3	Thermal class	F
permissible lateral force on (N)	X ₀ ²⁾ 5800	X _{0.5} ²⁾ 5500	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	30 g 30 g 3000 h		Net weight of the motor	kg
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Flat type lubricating nipple		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	without (Standard)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	(Standard) Yes			

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB1Q01	Cable entry	2xM63x1,5
Contact screw thread	6xM12	Cable gland	2 plugs

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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