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

Safe Area

Electrical data **-/-**

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η 3) 4/4	η 3) 3/4	η 3) 2/4	cosφ 3) 4/4	cosφ 3) 3/4	cosφ 3) 2/4	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)																	
400	Δ	50	315.00	-/-	570.00	1490	2000.0	96.0	96.0	95.6	0.83	0.80	0.70	8.5	3.2	3.5	IE3
690	Y	50	315.00	-/-	330.00	1490	2000.0	96.0	96.0	95.6	0.83	0.80	0.70	8.5	3.2	3.5	IE3
460	Δ	60	315.00	-/-	495.00	1792	1680.0	96.2	96.0	95.3	0.83	0.78	0.69	9.4	3.4	3.7	IE3
460	Δ	60	360.00	-/-	560.00	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, GB 18613-2012		Grade 3

Environmental conditions : -20 °C - +40 °C / 1000 m | Locked rotor time (hot / cold) : 20.7 s | 41.4 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	75 / 90 dB(A) 2) 3)	81 / 95 dB(A) 2) 3)	
Moment of inertia	5.3900 kg m²		
Bearing DE | NDE	6319 C4	6319 C4	
permissible lateral force on (N) *(N)*	x_0: 9300	$x_{0,5}$: 8650	x_{max}: 8000
bearing lifetime			
L_{10mh} $F_{Rad\ min}$ for coupling operation 50|60Hz 1)	40000 h	32000 h	
Relubrication interval/quantity DE | NDE	40 g | 40 g 6000 h		
Lubricants	UNIREX N3		
Regreasing device	Flat type lubricating nipple		
Grease nipple	M10x1 DIN 3404 A		
Type of bearing	Locating bearing NDE		
Condensate drainage holes	(Standard) Yes		

External earthing terminal	(Standard) Yes
Vibration severity grade	Grade A
Thermal class	F
Duty type	S1
Direction of rotation	bidirectional
Frame material	cast iron
Net weight of the motor	kg
Coating (paint finish)	Special paint finish C3
Color, paint shade	RAL7030
Motor protection	3 PTC thermistors - for tripping (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	box at the top, socket right	Max. cross-sectional area	240 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	42 mm - 54 mm
Type of terminal box	TB3Q61	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	4 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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Special design

B12	Sea worthy packaging	D34	China Energy Efficiency Label