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) - 180(H) 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		

Environmental conditions : -40 °C - + °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)	External earthing terminal	(Standard) Yes
Moment of inertia	5.3900 kg m²		Vibration severity grade	Grade A
Bearing DE | NDE	6319 C4	6319 C4	Thermal class	H
permissible lateral force on (N) *(N)*	x_0: 9300	$x_{0,5}$: 8650	x_{max}: 8000	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
Lubricants			Net weight of the motor	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 resistance thermometers PT100 (12 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	(Standard) Yes			

Terminal box

Terminal box position	box at the top, socket left	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

Responsible department	Technical reference	Created by	Approved by	*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.*	Link documents
IN LVM		SPC	Created automatically		

Document type	Document status
Technical data sheet	Released
Document title	**Document number**
1LE5503-3AB73-4AJ0-Z	TDS-240923-125750
B12+D03+D22+G41+G43+L51+N11+Q02+R11+S02	

Restricted	Revision	Creation date	Language	Page
© Innomotics 2024	AA	2024-09-23	en	1/2

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Special design

B12	Sea worthy packaging	L51	Bearing insulation NDE
D03	Minimum ambient temperature -40°C	N11	Temperature class 180(H), and coolant temperature max. 60°C
D22	Motor without CE character for export outside the EEA (see EU regulation 2019/1781)	Q02	Anti-condensation heating for 230 V (2 terminals)
G41	Prepared to mount components with D12 shaft	R11	Terminal box rotated through 90°, cable entry from NDE
G43	Mechanical protection for encoder	S02	Special paint finish C3

Additional information:

Space heaters

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

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