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



Motor type : 1CV4310B **Innomotics SD - 315 S - 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) 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	110.00	-/-	192.00	1491	700.0	96.3	96.4	96.0	0.86	0.83	0.74	8.6	3.3	3.3	IE4
690	Y	50	110.00	-/-	111.00	1491	700.0	96.3	96.4	96.0	0.86	0.83	0.74	8.6	3.3	3.3	IE4
460	Δ	60	110.00	-/-	169.00	1792	590.0	96.2	96.1	95.4	0.85	0.81	0.72	9.7	3.7	3.6	IE4
460	Δ	60	127.00	-/-	193.00	1790	680.0	96.2	96.2	95.8	0.86	0.83	0.76	8.5	3.2	3.1	IE4

IM B3 / IM1001		FS 315 S		IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN		

Environmental conditions : -20 °C - +40 °C / 1000 m

Locked rotor time (hot / cold) : 30.80 s | 44.10 s

Mechanical data

Sound level (SPL / SWL) at 50Hz|60Hz	66 / 80 dB(A) 2) 3)	71 / 85 dB(A) 2) 3)	
Moment of inertia	2.7400 kg m²		
Bearing DE | NDE	6319 C3	6319 C3	
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	40.0 g | 40.0 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	Yes		

External earthing terminal	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	922 kg
Coating (paint finish)	Standard paint finish C2
Color, paint shade	RAL7030
Motor protection	3 PTC thermistors - for tripping (2 terminals)
Method of cooling	IC411 - self ventilated, surface cooled
Carbon footprint (without options)	3518kg

Terminal box

Terminal box position	box at the top
Material of terminal box	cast iron
Type of terminal box	TB1Q01
Contact screw thread	6xM12

Max. cross-sectional area	150.0 mm²
Cable entry	2xM63x1,5 - 2xM20x1,5
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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Responsible department	Technical reference	Created by	Approved by	
IN LV		IPC		***Technical data are subject to change! There may be discrepancies between calculated and rating plate values.***

Link documents

INNOMOTICS

Document type	Document status
Technical data sheet	Released
Document title	**Document number**
1LE5504-3AB03-4AB4-Z **B02+B07+Q01+Q78+R62+Y82**	TDS-260828-091108

Restricted	Revision	Creation date	Language	Page
© Innomotics 2026	AA	2026-08-28	en	1/2

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Q78	2 Pt100 resistance thermometers for bearing (6 terminals)
B07	Supplementary plate, voltage tolerance	R62	Cast iron auxiliary terminal box (small)
Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings	Y82	Auxiliary name plate with customer data EMPTY

Implicit options

G40	Prepared for mounted components, only centering hole	L21	Locating (fixed) bearing, NDE
H03	Condensation drain holes in end shield	L23	Regreasing system
H04	External grounding at housing	L25	Double sides reinforced bearings for DE and NDE, Type 63

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