

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

Motor type : 1CV4314B INNOMOTICS SD - 315 L - IM B3 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Safe Area

-/-

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL	
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	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)																		
400	Δ	50	160.00	-/-	280.00	1490	1030.0	96.6	96.8	96.6	0.85	0.81	0.73	7.9	3.3	3.1	IE4	
690	Y	50	160.00	-/-	163.00	1490	1030.0	96.6	96.8	96.6	0.85	0.81	0.73	7.9	3.3	3.1	IE4	
460	Δ	60	160.00	-/-	250.00	1791	850.0	96.5	96.5	96.0	0.84	0.80	0.71	8.9	3.7	3.4	IE4	
460	Δ	60	184.00	-/-	280.00	1790	980.0	96.5	96.6	96.4	0.86	0.83	0.75	7.9	3.2	3.0	IE4	
IM B3 / IM1001		FS 315 L				IP55	UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 30.30 s 45.90 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68 / 83 dB(A) ^{2) 3)}	72 / 87 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	3.7900 kg m²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6319 C3	6319 C3	Vibration severity grade	Grade A
permissible lateral force on (N) (N)	X ₀ : 9300	X _{0.5} : 8650	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40.0 g 40.0 g 6000 h		Frame material	cast iron
Lubricants	UNIREX N3		Net weight of the motor	1200 kg
Regreasing device	Flat type lubricating nipple		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled
			Carbon footprint (without options)	4750 kg

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	240.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	34.0 mm - 45.0 mm
Type of terminal box	TB1Q01	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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Responsible department IN LVM	Technical reference	Created by IPC	Approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents	
INNOMOTICS	Document type Technical data sheet			Document status Released		
	Document title 1LE5504-3AB43-4AB4-Z B02+B07+L51+Q01+Q78+R62			Document number TDS-251024-100405		
	Restricted © Innomatics 2025	Revision AA		Creation date 2025-10-24	Language en	

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings
B07	Supplementary plate, voltage tolerance	Q78	2 Pt100 resistance thermometers for bearing (6 terminals)
L51	Bearing insulation NDE	R62	Cast iron auxiliary terminal box (small)

I_{lr}/I_N = locked rotor current / current nominal	1) I_{L10min} according to DIN ISO 28110/2010	3) Value is valid only for DOL operation with motor design IC411
M_{lr}/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_{br}/M_N = break down torque / nominal torque		

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