

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

Motor type: 7CV4314C INNOMOTICS SD - 315L - IM B3 - 6 p

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

Remarks

Electrical data Safe Area

U	Δ / Y	f	P	P	I	n	M	M	η <sup>3)</sup>			cosφ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	IE-CL	
[V]±10%		[Hz]±5%	[kW]	[hp]	[A]	[1/min]	[kgf.m]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4					
Motordaten / Motor Data																			
415	Δ	50	110.00	-/-	192.00	992	108.0	1059.0	96.1	96.2	96.0	0.83	0.79	0.69	8.9	3.3	3.6	IE4	
IM B3 / IM 1001			FS 315L		1122 kg		SF:1		IS 12615 / IEC 60034-1			-							
Environmental conditions : -20 °C - +50 °C / 1,000 m										Locked rotor time (hot / cold) : 8 s   16 s									

Mechanical data

Sound pressure level 50Hz   60Hz	75 dB(A)	78 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia   Rotor GD <sup>2</sup>	4.6500 kg m <sup>2</sup>   18.6000 kgf.m <sup>2</sup>		Vibration severity grade	A (Standard)
Bearing DE   NDE	6319 C3	6319 C3	Insulation	155(F) utilized to 130(B)
bearing lifetime			Duty type	S1
L <sub>10mh</sub> F <sub>Rad max</sub> according catalogue 50 60Hz <sup>1)</sup>	20,000 h	16,000 h	Direction of rotation	Bidirectional
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	50,000 h	40,000 h	Frame material	Cast iron
Type of bearing	Locating (fixed) bearing, NDE		Forced ventilation motor details	- / -
Relubrication interval/quantity DE   NDE	40 g   40 g 6,000 h		Net weight of the motor (IM B3)	1122 kg
Type of construction	IM B3 / IM 1001		Rotor weight	428 kg
Degree of protection	IP55		Data of anti condensation heating	-/- V, -/- W
Lubricants	Esso Unirex N3		Coating (paint finish)	Standard paint finish
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 71412 A		Motor protection	(A) without
Condensate drainage holes	Yes		Method of cooling	IC411 - Self ventilated, surface cooled

Terminal box

Terminal box position	Top	Cable diameter from ... to ...	38.0 mm - 45.0 mm
Material of terminal box	Cast iron	Cable entry	2xM63x1.5
Type of terminal box	TB1 Q01	Cable gland	2 Plugs
Contact screw thread	M12		
Max. cross-sectional area	185 mm <sup>2</sup>		

Notes:

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>K</sub>/M<sub>N</sub> = break down torque / nominal torque

3) Efficiency value is valid only for sinusoidal line supply operation.  
Motor is Suitable for Impulse voltage insulation class of IVIC-C as per IEC 60034-18-41

1) L<sub>10mh</sub> according to DIN ISO 281 10/2010

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			
INNOMOTICS	Document type	CE			Document status
	Datasheet				Released
	MLFB and Order Code				Document number
	1LE7504-3AC43-5AA4				
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