

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

Motor type: 7CV3314D **SIMOTICS SD - 315L - IM B3 - 8 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	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N	M_A/M_N	M_k/M_N	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	90.00	-/-	167.00	739	119.0	1163.0	93.9	94.2	93.8	0.80	0.75	0.65	6.0	2.2	2.8	IE3	
IM B3 / IM 1001			FS 315L		900 kg	SF:1		IS 12615 / IEC 60034-1											

Environmental conditions : -20 °C - +50 °C / 1,000 m

Locked rotor time (hot / cold) : 13 s | 23 s

Mechanical data

Sound pressure level 50Hz 60Hz	74 dB(A) 77 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia Rotor GD ²	3.3600 kg m ² 13.4400 kgf.m ²	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 _{10mh} F _{Rad max} according catalogue 50 60Hz ¹⁾	20.000 h 16.000 h	Direction of rotation	Bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	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)	900 kg
Type of construction	IM B3 / IM 1001	Rotor weight	276 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 3404 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 ²		

Notes:

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

3) Value is valid only for DOL operation with motor design IC411

1) L10mh according to DIN ISO 281 10/2010

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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