

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

Motor type: 7CV3314B SIMOTICS SD - 315L - IM B3 - 4 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 ³⁾			cosφ 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	160.00	-/-	267.00	1489	105.0	1026.0	95.9	96.1	95.8	0.87	0.85	0.78	7.7	3.0	3.2	IE3	
IM B3 / IM 1001			FS 315L		1028 kg		SF:1		IS 12615 / IEC 60034-1			-							
Environmental conditions : -20 °C - +50 °C / 1,000 m										Locked rotor time (hot / cold) : 15 s 25 s									

Mechanical data

Sound pressure level 50Hz 60Hz	80 dB(A)	83 dB(A)	External earthing terminal	Yes (standard)
Moment of inertia Rotor GD ²	3.4367 kg m ² 13.7469 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)	1028 kg
Type of construction	IM B3 / IM 1001		Rotor weight	305 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 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) Efficiency value is valid only for sinusoidal line supply operation.

1) L_{10mh} 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					
	Document type			Document status			
	Datasheet			Released			
	MLFB and Order Code			Document number			
	1LE7503-3AB43-5AA4						
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