

SIMOTICS SD - 315 S - 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)																	
440	Δ	60	127.00	-/-	200.00	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) : 30.8 s 44.1 s								

Sound level (SPL / SWL) at 50Hz 60Hz	66 / 80 dB(A) ^{2) 3)}	71 / 85 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	2.7400 kg m²		Vibration severity grade	Grade A	
Bearing DE NDE	6319 C3	6319 C3	Thermal class	F	
permissible lateral force on (N) (N)	x ₀ : 9300	x _{0.5} : 8650	x _{max} : 8000	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional	
L _{10mh} F _{Rad,min} for coupling operation 50 60Hz ¹⁾	-/-	32000 h			
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Frame material	cast iron	
Lubricants	UNIREX N3		Net weight of the motor	922 kg	
Regreasing device	with conical grease nipple acc. DIN 71412A		Coating (paint finish)	Special paint finish, resistant to salt-laden air C4	
Grease nipple	M10x1 DIN 71412 A		Color, paint shade	RAL7030	
Type of bearing	Locating bearing NDE		Motor protection	without (Standard)	
Condensate drainage holes	(Standard) Yes		Method of cooling	IC411 - self ventilated, surface cooled	

Terminal box position	box at the top	Max. cross-sectional area	240 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	34 mm - 45 mm
Type of terminal box	TB1Q01	Cable entry	2xM63x1,5
Contact screw thread	6xM12	Cable gland	2 plugs

Notes:

I_L/I_N = locked rotor current / current nominal	1) L_{10min} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_L/M_N = locked rotor torque / torque nominal	2) at rated power / at full load	
M_b/M_N = break down torque / nominal torque		

responsible dep.	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			
	title			document number			
	1LE5504-3AB09-0AA4-Z						
	B02+F76+L19+M1D+S03			rev.	creation date	language	Page
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV4310B

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	M1D	440 VD for 60 Hz, 60-Hz power
F76	Metal external fan	S03	Special paint finish in sea air resistant C4
L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A		

Notes:

responsible dep. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	Link documents	
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	title 1LE5504-3AB09-0AA4-Z				document number	
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					language en	Page 2/2