

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



Motor type : 1CV4312A

SIMOTICS SD - 315 M - IM B3 - 2p

Client order no.

Item-No.	Item-Name	Unit	Rate	Quantity	Amount
1	...	...	...	...	...
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Offer no.

Order no.

Consignment no.	
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Project	
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Remarks

Electrical data

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	132.00	-/-	220.00	2988	420.0	96.2	96.2	95.6	0.90	0.88	0.81	9.8	2.6	3.9	IE4
690	Y	50	132.00	-/-	128.00	2988	420.0	96.2	96.2	95.6	0.90	0.88	0.81	9.8	2.6	3.9	IE4
460	Δ	60	132.00	-/-	192.00	3590	350.0	95.8	95.5	94.4	0.90	0.87	0.80	11.0	2.9	4.3	IE4
460	Δ	60	148.00	-/-	215.00	3588	395.0	95.8	95.6	94.8	0.90	0.88	0.82	9.8	2.6	3.9	IE4
IM B3 / IM1001			FS 315 M			IP55	UKCA	IEC/EN 60034									
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 27 s 40.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	73 / 88 dB(A) ^{2) 3)}	77 / 92 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	2.0800 kg m²		Vibration severity grade	Grade A	
Bearing DE NDE	6316 C3	6316 C3	Thermal class	F	
permissible lateral force on (N) (N)	X ₀ : 5800	X _{0.5} : 5500	X _{max} : 5200	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional	
L _{10mh} F _{rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron	
Relubrication interval/quantity DE NDE	30 g 30 g 3000 h		Net weight of the motor	1010 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Special paint finish C3	
Regreasing device	with conical grease nipple acc. DIN 71412A		Color, paint shade	RAL7030	
Grease nipple	M10x1 DIN 71412 A		Motor protection	3 PTC thermistors - for tripping (2 terminals)	
Type of bearing	Locating bearing DE		Method of cooling	IC411 - self ventilated, surface cooled	
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		'SIMOTICS Connect 400' in IP65	No	
Condensate drainage holes	(Standard) Yes				

Terminal box

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	TB1Q61	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	4 plugs

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

1) L10mh 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

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
SIEMENS	document type datasheet			document status released			
	title 1LE5504-3AA23-4AB4-Z			document number			
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SIMOTICS SD - 315 M - IM B3 - 2p

F74	Sheet steel fan cowl	M11	Stainless steel rating plate
L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A	R52	Drilled removable entry plate
L51	Bearing insulation NDE	S02	Special paint finish C3

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