

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



Motor type : 1CV4314A

SIMOTICS SD - 315 L - IM B35 - 2p

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	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	160.00	-/-	265.00	2986	510.0	96.3	96.3	95.8	0.90	0.88	0.82	9.6	2.5	3.9	IE4
690	Y	50	160.00	-/-	154.00	2986	510.0	96.3	96.3	95.8	0.90	0.88	0.82	9.6	2.5	3.9	IE4
460	Δ	60	160.00	-/-	235.00	3588	425.0	95.8	95.5	94.6	0.90	0.88	0.81	11.0	2.8	4.3	IE4
460	Δ	60	179.00	-/-	260.00	3586	475.0	96.2	96.1	95.3	0.90	0.88	0.83	9.5	2.5	3.9	IE4
IM B35 / IM2001			FS 315 L			IP55	UKCA	IEC/EN 60034									
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 21.4 s 36 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 89 dB(A) ^{2) 3)}	79 / 94 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	2.2500 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6316 C3	6316 C3	Thermal class	F
permissible lateral force on (N)	X ₀ : 5800	X _{0.5} : 5500	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	1100 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 NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	(Standard) Yes		'SIMOTICS Connect 400' in IP65	No

Terminal box

Terminal box position	box at the top	Max. cross-sectional area	240 mm ²
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 1) L10mh according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411

M_A/M_N = locked rotor torque / torque nominal 2) at rated power / at full load

M_K/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		
DI MC LVM		DT Configurator						
	document type	datasheet			document status			
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	title	1LE5504-3AA43-4JB4-Z			document number			
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					943	2023-06-26	en	1/2

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

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