

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



Motor type : 1CV3310B

SIMOTICS SD - 315 S - IM V5 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project

Remarks

Electrical data

Safe Area

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			$\cos\phi$ ³⁾			I_A/I_N	M_A/M_N	M_K/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_i/I_N	T_i/T_N	T_B/T_N	
400	Δ	50	110.00	-/-	191.00	1488	710.0	95.4	95.8	95.5	0.87	0.84	0.77	6.8	2.6	2.9	IE3
690	Y	50	110.00	-/-	111.00	1488	710.0	95.4	95.8	95.5	0.87	0.84	0.77	6.8	2.6	2.9	IE3
460	Δ	60	127.00	-/-	191.00	1788	680.0	95.8	96.1	95.8	0.87	0.85	0.78	6.7	2.5	2.7	IE3
460	Δ	60	110.00	-/-	168.00	1790	590.0	95.8	95.9	95.4	0.86	0.83	0.75	7.5	3.0	3.1	IE3

IM V5 / IM 1011	FS 315 S	760 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 37.3 s | 59.4 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70.0 / 84.0 dB(A) ²⁾	74.0 / 88.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	2.2000 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 319	6319 C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40 g 6000 h	40 g 6000 h	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish C3
Regreasing device	with regreasing nipple		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 71412 A		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	400.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	44.0 mm - 54.0 mm
Type of terminal box	TB1 R01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M16	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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.
DI MC LVM		DT Configurator		

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			en	1/2

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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings
H00	Canopy	Q02	Anti-condensation heating for 230 V (2 terminals)
L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A	R50	Larger terminal box
L22	Bearing design for increased cantilever forces	R62	Cast iron auxiliary terminal box (small)
N30	Increased air humidity/temperature with 30 to 60 g water per m3 air		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 109W

Notes:

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