

SIMOTICS SD - 315 S - IM B3 - 8p

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

Remarks

Safe Area

Electrical data

-/-

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	55.00	-/-	106.00	743	710.0	93.7	93.9	93.4	0.80	0.75	0.65	6.1	2.3	2.5	IE4
690	Y	50	55.00	-/-	61.00	743	710.0	93.7	93.9	93.4	0.80	0.75	0.65	6.1	2.3	2.5	IE4
460	Δ	60	55.00	-/-	92.00	894	590.0	94.5	94.4	93.6	0.79	0.74	0.64	6.9	2.5	2.8	IE4
460	Δ	60	66.00	-/-	108.00	892	710.0	94.5	94.7	94.3	0.81	0.77	0.69	5.9	2.0	2.3	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) : 53.7 s 73.4 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	58 / 73 dB(A) ^{2) 3)}	62 / 76 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes	
Moment of inertia	2.5300 kg m²		External earthing terminal	(Standard) Yes	
Bearing DE NDE	6319 C3	6319 C3	Vibration severity grade	Grade A	
permissible lateral force on (N) (N)	x ₀ : 12000	x _{0.5} : 10600	x _{max} : 9200	Thermal class	F
bearing lifetime			Duty type	S1	
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional	
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Frame material	cast iron	
Lubricants	UNIREX N3		Net weight of the motor	762 kg	
Regreasing device	Flat type lubricating nipple		Coating (paint finish)	Special paint finish C3	
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030	
Type of bearing	Locating bearing DE		Motor protection	1 temperature sensor KTY84-130 (2 terminals)	
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled	

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 ...	38 mm - 45 mm
Type of terminal box	TB1Q01	Cable entry	2xM63x1,5 - 2xM20x1,5
Contact screw thread	6xM12	Cable gland	4 plugs

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) L_{10mh} 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

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
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Data sheet for three-phase Squirrel-Cage-Motors SIMOTICS



Motor type : 1CV4310D

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Special design

B12	Sea worthy packaging	M11	Stainless steel rating plate
G06	Mounting a rotary pulse encoder HOG 10 D 1024 I	Q82	Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery
L51	Bearing insulation NDE	S02	Special paint finish C3
M02	Connection when shipped, delta connection		

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