

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



Motor type : 1CV4317C

SIMOTICS SD Add - 315 L - IM B3 - 6p

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)																	
380	Δ	50	200.00	-/-	390.00	992	1930.0	96.3	96.5	96.3	0.81	0.76	0.66	7.0	2.8	3.0	IE4
660	Y	50	200.00	-/-	225.00	992	1930.0	96.3	96.5	96.3	0.81	0.76	0.66	7.0	2.8	3.0	IE4
440	Δ	60	200.00	-/-	335.00	1193	1600.0	96.2	96.2	95.8	0.81	0.76	0.65	8.1	3.0	3.2	IE4
440	Δ	60	240.00	-/-	395.00	1191	1920.0	96.5	96.7	96.6	0.83	0.79	0.69	7.3	2.5	2.7	IE4
440	Δ	60		250	313.64	1194	1480.0	96.2	96.1	95.6	0.81	0.76	0.65	9.2	3.2	3.5	MG1
IM B3 / IM1001		FS 315 L				IP55	UKCA	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 48.3 s 75.6 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	68 / 83 dB(A) ^{2) 3)}	71 / 86 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	6.3900 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6319 C4	6319 C4	Vibration severity grade	Grade A
permissible lateral force on (N) (N)	X ₀ : 10600	X _{0.5} : 9900	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	1410 kg
Regreasing device	Flat type lubricating nipple		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	6 PTC thermistors - for alarm and tripping (4 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 angle 45°, socket right	Max. cross-sectional area	300 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	63 mm - 70 mm
Type of terminal box	TB3R01	Cable entry	2xM80x2 - 2xM20x1,5
Contact screw thread	6xM16	Cable gland	-/-

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_B/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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Special design

G04	Mounted rotary pulse encoder LL 861 900 220	R15	One metal cable gland
G43	Mechanical protection for encoder	R50	Larger terminal box
L51	Bearing insulation NDE		

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