

SIMOTICS SD - 315 M - IM B3 - 6p

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

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	90.00	-/-	160.00	992	870.0	95.6	95.9	95.7	0.85	0.81	0.71	8.2	2.8	3.5	IE4
690	Y	50	90.00	-/-	93.00	992	870.0	95.6	95.9	95.7	0.85	0.81	0.71	8.2	2.8	3.5	IE4
460	Δ	60	90.00	-/-	140.00	1193	720.0	95.8	95.8	95.3	0.84	0.79	0.68	9.2	3.1	3.9	IE4
460	Δ	60	99.00	-/-	153.00	1192	790.0	95.8	95.9	95.6	0.85	0.81	0.71	8.5	2.7	3.5	IE4
IM B3 / IM1001		FS 315 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -30 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 22.3 s 31.7 s								

Sound level (SPL / SWL) at 50Hz 60Hz	62 / 76 dB(A) ^{2) 3)}	64 / 79 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	3.7700 kg m²		Vibration severity grade	Grade A	
Bearing DE NDE	NU 319	6319 C3	Thermal class	F	
permissible lateral force on (N) (N)	X ₀ : 38500	X _{0,5} : 23000	X _{max} : 15000	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	40 g 40 g 6000 h		Net weight of the motor	900 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Special paint finish C3	
Regreasing device	Flat type lubricating nipple		Color, paint shade	RAL7030	
Grease nipple	M10x1 DIN 3404 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				

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_r/I_n = locked rotor current / current nominal	1) $L_{10\text{th}}$ according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M_r/M_n = locked rotor torque / torque nominal	2) at rated power / at full load	
M_b/M_n = break down torque / nominal torque		

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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 : 1CV4312C

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Special design

D04	Minimum ambient temperature -30°C	M11	Stainless steel rating plate
D47	TR CU product safety certificate EAC for the Eurasian Customs Union	Q82	Extension of the liability for defects by 24 months to a total of 36 months (3 years) from delivery
F76	Metal external fan	S02	Special paint finish C3
L22	Bearing design for increased cantilever forces		

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