

SIMOTICS SD - 315 L - IM V1 - 4p

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	315.00	-/-	570.00	1490	2000.0	96.0	96.0	95.6	0.83	0.80	0.70	8.5	3.2	3.5	IE3
690	Y	50	315.00	-/-	330.00	1490	2000.0	96.0	96.0	95.6	0.83	0.80	0.70	8.5	3.2	3.5	IE3
460	Δ	60	315.00	-/-	495.00	1792	1680.0	96.2	96.0	95.3	0.83	0.78	0.69	9.4	3.4	3.7	IE3
460	Δ	60	360.00	-/-	560.00	1790	1920.0	96.2	96.1	95.6	0.84	0.80	0.72	8.3	3.0	3.2	IE3
IM V1 / IM3011			FS 315 L			IP55	UKCA	IEC/EN 60034			IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 20.7 s 41.4 s							

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 90 dB(A) ^{2) 3)}	81 / 95 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes	
Moment of inertia	5.3900 kg m²		Vibration severity grade	Grade A	
Bearing DE NDE	6319 C4	7319 B		Thermal class	F
permissible lateral force on (N) (N)	X ₀ : 9300	X _{0,5} : 8650	X _{max} : 8000	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional	
L _{10mh} F _{rad,min} for coupling operation 50 60Hz ¹⁾	20000 h	16000 h		Frame material	cast iron
Relubrication interval/quantity DE NDE	40 g 40 g 6000 h		Net weight of the motor	1653 kg	
Lubricants	UNIREX N3		Coating (paint finish)	Standard paint finish C2	
Regreasing device	Flat type lubricating nipple		Color, paint shade	RAL7030	
Grease nipple	M10x1 DIN 3404 A		Motor protection	without (Standard)	
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 angle 45°, socket right	Max. cross-sectional area	240 mm²
Material of terminal box	cast iron	Cable diameter from ... to ...	42 mm - 54 mm
Type of terminal box	TB3Q61	Cable entry	2xM63x1,5
Contact screw thread	6xM12	Cable gland	2 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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