

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



Motor type : 1CV2312C

SIMOTICS SD - 315 M - IM B5 - 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)																	
400	Δ	50	90.00	-/-	165.00	988	870.0	94.0	94.3	93.6	0.84	0.80	0.70	6.9	2.6	2.8	IE2
690	Y	50	90.00	-/-	95.00	988	870.0	94.0	94.3	93.6	0.84	0.80	0.70	6.9	2.6	2.8	IE2
460	Δ	60	108.00	-/-	168.00	1186	870.0	94.1	94.6	94.4	0.86	0.84	0.77	6.6	2.4	2.7	IE1
460	Δ	60	90.00	-/-	143.00	1190	720.0	94.1	94.4	93.5	0.84	0.80	0.71	7.6	2.9	3.1	IE2
IM B5 / IM 3001		FS 315 M				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 17.9 s 39.5 s								

Mechanical data				
Sound level (SPL / SWL) at 50Hz 60Hz	65 / 79 dB(A) ^{2) 3)}	68 / 83 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	2.5000 kg m²		Vibration severity grade	A
Bearing DE NDE	6319 C3	6319 C3	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 (IM B3)	730 kg
Regreasing device	With (standard)		Coating (paint finish)	Standard paint finish C2
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box																	
Terminal box position						top		Max. cross-sectional area				150 mm ²					
Material of terminal box						cast iron		Cable diameter from ... to ...				38 mm - 45 mm					
Type of terminal box						TB1 Q01		Cable entry				2xM63x1,5					
Contact screw thread						M12		Cable gland				2 plugs					

I _A /I _N = locked rotor current / current nominal	1) L _{10mh} according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
M _K /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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