

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



Motor type : 1CV3316D

SIMOTICS SD Premium Insulation - 315 L - IM B3 - 8p

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

Remarks

Electrical data

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	132.00	-/-	255.00	741	1700.0	94.0	94.6	94.8	0.79	0.75	0.64	8.0	3.0	3.3	IE3
690	Y	50	132.00	-/-	149.00	741	1700.0	94.0	94.6	94.8	0.79	0.75	0.64	8.0	3.0	3.3	IE3
460	Δ	60	158.00	-/-	260.00	890	1700.0	94.5	95.1	95.3	0.81	0.77	0.67	7.7	2.8	3.1	IE3
460	Δ	60	132.00	-/-	220.00	893	1410.0	94.5	94.9	94.7	0.80	0.75	0.64	9.0	3.2	3.8	IE3
IM B3 / IM 1001		FS 315 L				IP55	UKCA	IEC/EN 60034		IEC, DIN, ISO, VDE, EN						KS C IEC60034-2-1	
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 14.6 s 24.5 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76 / 90 dB(A) ^{2) 3)}	81 / 95 dB(A) ^{2) 3)}	External earthing terminal	With (standard)
Moment of inertia	5.5100 kg m ²		Vibration severity grade	A
Bearing DE NDE	6319 C3	6319 C3	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad} ¹⁾ for coupling operation 50 60Hz	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)	1250 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	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	240 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38 mm - 45 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M12	Cable gland	4 plugs

Notes:		
I _A /I _N = locked rotor current / current nominal	1) L10mh 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		

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents		
DI MC LVM		DT Configurator						
	document type				document status			
	datasheet				released			
	title				document number			
	1LE1583-3AD63-4AB4-Z							
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L05	Second standard shaft extension	Q02	Anti-condensation heating for 230 V (2 terminals)
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Space heaters

Technical data:	1-phase, 230 V 109W
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