

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



Motor type : 1CV3312C

SIMOTICS SD - 315 M - IM B3 - 6p

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	
400	Δ	50	90.00	-/-	161.00	991	870.0	94.9	95.2	94.9	0.85	0.82	0.73	6.7	2.5	2.8	IE3
690	Y	50	90.00	-/-	93.00	991	870.0	94.9	95.2	94.9	0.85	0.82	0.73	6.7	2.5	2.8	IE3
460	Δ	60	108.00	-/-	170.00	1190	870.0	95.0	95.4	95.1	0.84	0.81	0.74	6.6	2.5	2.7	IE2
460	Δ	60	90.00	-/-	142.00	1192	720.0	95.0	95.0	94.4	0.84	0.80	0.70	7.7	2.7	3.0	IE3
IM B3 / IM 1001		FS 315 M		890 kg		IP55		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) : 38 s | 56.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	63.0 / 78.0 dB(A) ²⁾	64.0 / 79.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	3.1000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6319 C3	6319 C3	Insulation	180(H) to 180(H)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40 g 6000 h	40 g 6000 h	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Special paint finish C3
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		Motor protection	(G) 2 temperature sensors KTY84-130 (4 terminals)
Type of bearing	Locating bearing DE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	400.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	44.0 mm - 54.0 mm
Type of terminal box	TB1 R01	Cable entry	2xM63x1,5-2xM20x1,5
Contact screw thread	M16	Cable gland	2 glands, 2 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.			
DI MC LVM		DT Configurator					
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	R11	Terminal box rotated through 90°, cable entry from NDE
H70	Second outer earthing	R18	Cable gland metal, max. number
L51	Bearing insulation NDE	R50	Larger terminal box
N10	Temperature class 180 (H)	R62	Cast iron auxiliary terminal box (small)
Q01	Measuring nipple for SPM shock pulse measurement to monitor bearings	Y82	Auxiliary name plate with customer data

Notes:

responsible dep. DI MC LVM	technical reference	created by DT Configurator	approved by		Technical data are subject to change! There may be discrepancies between calculated and rating plate values.			
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