

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



Motor type : 1CV1310B

SIMOTICS SD - 315 S - IM B3 - 4p

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	110.00	-/-	205.00	1488	710.0	93.3	93.4	92.8	0.84	0.80	0.71	6.5	2.3	2.7	IE1
690	Y	50	110.00	-/-	117.00	1488	710.0	93.3	93.4	92.8	0.84	0.80	0.71	6.5	2.3	2.7	IE1
460	Δ	60	127.00	-/-	200.00	1788	680.0	93.5	93.5	92.6	0.85	0.82	0.74	6.5	2.3	2.7	IE1
IM B3 / IM 1001		FS 315 S		730 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 20.9 s | 39.6 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75.0 / 90.0 dB(A) ²⁾	75.0 / 89.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	1.9000 kg m ²		Vibration severity grade	A
Bearing DE NDE	NU 319	6319 C3	Insulation	155(F) to 130(B)
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	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	with regreasing nipple		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 71412 A		Motor protection	(A) without (Standard)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	Yes (standard)			

Terminal box

Terminal box position	top	Max. cross-sectional area	240.0 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	38.0 mm - 45.0 mm
Type of terminal box	TB1 Q01	Cable entry	2xM63x1,5
Contact screw thread	M12	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_B/M_N = break down torque / nominal torque

1) L10mh according to DIN ISO 281 10/2010
2) at rated power / at full load

3) Value is valid only for DOL operation with motor design IC411

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

D47	TR CU product safety certificate EAC for the Eurasian Customs Union	L22	Bearing design for increased cantilever forces
L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A	Q72	2 Pt100 resistance thermometers in basic configuration for bearings (4 terminals)

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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