

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



Motor type : 1CV2314B

SIMOTICS SD - 315 L - 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	
230	Δ	50	160.00	-/-	485.00	1490	1030.0	94.9	95.0	94.5	0.87	0.84	0.77	7.2	2.8	3.1	IE2
400	Y	50	160.00	-/-	280.00	1490	1030.0	94.9	95.0	94.5	0.87	0.84	0.77	7.2	2.8	3.1	IE2
460	Y	60	184.00	-/-	275.00	1788	980.0	95.4	95.4	94.6	0.88	0.86	0.79	7.2	2.9	3.0	IE2
460	Y	60	160.00	-/-	245.00	1790	850.0	95.0	94.7	93.5	0.87	0.83	0.75	8.3	3.1	3.2	IE2
IM B3 / IM 1001		FS 315 L		940 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 23.2 s 39.1 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	76.0 / 91.0 dB(A) ²⁾	80.0 / 95.0 dB(A) ²⁾	External earthing terminal	Yes (standard)
Moment of inertia	2.8000 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 40 g	6000 h	Frame material	cast iron
Lubricants	Unirex N3		Coating (paint finish)	Standard paint finish C2
Regreasing device	Yes (standard)		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 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	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.				
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Special design

L22	Bearing design for increased cantilever forces	M01	Connection when shipped, star connection
L51	Bearing insulation NDE		

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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