

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



Motor type : 1CV3310B

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	-/-	191.00	1488	710.0	95.4	95.8	95.5	0.87	0.84	0.77	6.8	2.6	2.9	IE3
690	Y	50	110.00	-/-	111.00	1488	710.0	95.4	95.8	95.5	0.87	0.84	0.77	6.8	2.6	2.9	IE3
460	Δ	60	127.00	-/-	191.00	1788	680.0	95.8	96.1	95.8	0.87	0.85	0.78	6.7	2.5	2.7	IE3
460	Δ	60	110.00	-/-	168.00	1790	590.0	95.8	95.9	95.4	0.86	0.83	0.75	7.5	3.0	3.1	IE3

IM B3 / IM 1001		FS 315 S		IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN						
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 37.3 s | 59.4 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	72.9 / 87.3 dB(A) ₂₎	76.7 / 91.1 dB(A) ₂₎	External earthing terminal	Yes (standard)
Moment of inertia	2.2000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6319 C3	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		Net weight of the motor (IM B3)	760 kg
Regreasing device	Yes (standard)		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 3404 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC416 - separately 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 _K /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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F70	Mounting of separately driven fan	Q72	2 Pt100 resistance thermometers in basic configuration for bearings (4 terminals)
Q02	Anti-condensation heating for 230 V (2 terminals)		

Space heaters

Technical data:	1-phase, 230 V 109W
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