

Data sheet for three-phase Squirrel-Cage-Motors



SIMOTICS SD - 315 S - IM B3 - 4p

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

Remarks

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	-/-	195.00	1490	705.0	94.5	94.6	94.0	0.86	0.83	0.74	7.4	2.7	3.0	IE2
690	Y	50	110.00	-/-	113.00	1490	705.0	94.5	94.6	94.0	0.86	0.83	0.74	7.4	2.7	3.0	IE2
460	Δ	60	127.00	-/-	195.00	1788	678.0	95.0	95.0	94.3	0.86	0.84	0.76	7.2	2.7	2.9	IE2
460	Δ	60	110.00	-/-	169.00	1790	587.0	95.0	94.8	93.8	0.86	0.82	0.73	8.0	3.1	3.3	IE2
IM B3 / IM 1001			FS 315 S		740 kq		IP55			IEC/EN 60034		IEC, DIN, ISO, VDE, EN					

Environmental conditions / *Environmental conditions* : -20 °C - +40 °C / 1.000 m

Sound level (SPL / SWL) at 50Hz/60Hz	72.9 / 87.3 dB(A) ²⁾	76.7 / 91.1 dB(A) ²⁾	Condensate drainage holes	Yes (standard)
Sound level (SPL / SWL) at 50Hz/60Hz			Condensate drainage holes	Yes (standard)
Moment of inertia			External earthing terminal	Yes (standard)
Moment of inertia	2.0000 kg m ²		External earthing terminal	Yes (standard)
Bearing DE NDE	6319 C3	6319 C3	Vibration severity grade	A
Bearing DE NDE			Vibration severity grade	A
bearing lifetime			Insulation	155(F) to 130(B)
bearing lifetime			Insulation	155(F) to 130(B)
L _{10mh} F _{Rad max} acc. catalogue 50/60Hz ¹⁾	20000 h	16000 h	Duty type	S1
L _{10mh} F _{Rad max} acc. catalogue 50/60Hz ¹⁾			Duty type	
L _{10mh} F _{Rad min} for coupling operation			Direction of rotation	bidirectional
50/60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50/60Hz ¹⁾			Frame material	cast iron
Relubrication interval/quantity (AS BS)	40 g 40 g		Frame material	cast iron
Relubrication interval/quantity (AS BS)	6000 h		Coating (paint finish)	Special paint finish C3
Lubricants			Coating (paint finish)	Special paint finish C3
Lubricants	Unirex N3		Color, paint shade	RAL7030
Regreasing device	Yes (standard)		Color, paint shade	
Regreasing device	Yes (standard)		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Grease nipple	M10x1 DIN 3404 A		Motor protection	(B) 3 PTC thermistors - for tripping (standard) (2 terminals)
Grease nipple			Method of cooling	IC416 - separately ventilated, surface cooled
Type of bearing	Locating bearing DE		Method of cooling	IC416 - separately ventilated, surface cooled
Type of bearing	Locating bearing DE			

Terminal box position	top	Cable diameter from ... to ...	38.0 mm - 45.0 mm
<i>Terminal box position</i>	<i>top</i>	<i>Cable diameter from ... to ...</i>	
Material of terminal box	cast iron	Cable entry	2xM63x1,5-2xM20x1,5
<i>Material of terminal box</i>	<i>cast iron</i>	<i>Cable entry</i>	
Type of terminal box	TB1 Q01	Cable gland	4 plugs
<i>Type of terminal box</i>		<i>Cable gland</i>	4 plugs
Contact screw thread	M12		
<i>Contact screw thread</i>			
Max. cross-sectional area	240.0 mm²		
<i>Max. cross-sectional area</i>			

Notes:

I_{Lr}/I_{Ln} = 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_r/M_{rn} = locked rotor torque / torque nominal	2) at rated power / at full load	
M_b/M_{bn} = break down torque / nominal torque		

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Motor type: 1CV2310B

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Special design / Special design

B02 Acceptance test certificate 3.1 acc. to EN 10204
Acceptance test certificate 3.1 acc. to EN 10204
F70 Mounting of separately driven fan
Mounting of separately driven fan

L51 Bearing insulation NDE
Bearing insulation NDE

Notes:

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