

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



Motor type : 1CV3354C

SIMOTICS SD - 355 L - 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		
DOL duty (S1) - 155(F) to 130(B)																		
400	Δ	50	400.00	-/-	720.00	994	3850.0	95.8	96.0	95.8	0.84	0.80	0.70	8.1	2.8	3.0	IE3	
690	Y	50	400.00	-/-	415.00	994	3850.0	95.8	96.0	95.8	0.84	0.80	0.70	8.1	2.8	3.0	IE3	
460	Δ	60	400.00	-/-	620.00	1194	3200.0	95.8	95.8	95.3	0.84	0.80	0.70	9.3	3.2	3.3	IE3	
460	Δ	60	480.00	-/-	730.00	1193	3850.0	95.8	96.0	95.7	0.86	0.82	0.74	7.9	2.7	2.7	IE3	
IM B3 / IM1001			FS 355 L				IP55	UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN						
Environmental conditions : -20 °C - +40 °C / 1,000 m									Locked rotor time (hot / cold) : 27 s 46.7 s									

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	75 / 90 dB(A) ^{2) 3)}	79 / 94 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	13.4000 kg m ²		Vibration severity grade	Grade A
Bearing DE NDE	6320 C4	6320 C4	Thermal class	F
permissible lateral force on (N)	X ₀ : 11200	X _{0.5} : 10500	Duty type	S1
		X _{max} : 9800	Direction of rotation	bidirectional
bearing lifetime			Frame material	cast iron
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Net weight of the motor	2240 kg
Relubrication interval/quantity DE NDE	60 g 60 g 6000 h		Coating (paint finish)	Special paint finish C3
Lubricants	UNIREX N3		Color, paint shade	RAL7030
Regreasing device	-/-		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Grease nipple	-/-		Method of cooling	IC416 - separately ventilated, surface cooled
Type of bearing	Locating bearing NDE			
Condensate drainage holes	(Standard) Yes			

Terminal box

Terminal box position	box at the top, socket right	Max. cross-sectional area	300 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	63 mm - 70 mm
Type of terminal box	TB3R01	Cable entry	2xM80x2 - 2xM20x1,5
Contact screw thread	6xM16	Cable gland	-/-

Notes:		
I _A /I _N = locked rotor current / current nominal	1) L _{10mh} 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. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents 		
	document type datasheet				document status released			
	title 1LE5603-3BC43-4AB1-Z				document number			
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Special design

F70 Mounting of separately driven fan

Notes:

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