

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



Motor type : 1CV3353B

SIMOTICS SD - 355 L - IM B3 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

Safe Area																	
Electrical data								-/-									
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	355.00	-/-	620.00	1492	2250.0	96.0	96.0	95.4	0.86	0.82	0.75	7.9	2.9	2.8	IE3
690	Y	50	355.00	-/-	360.00	1492	2250.0	96.0	96.0	95.4	0.86	0.82	0.75	7.9	2.9	2.8	IE3
460	Δ	60	355.00	-/-	540.00	1793	1890.0	96.2	95.9	95.0	0.85	0.82	0.74	9.0	3.4	3.1	IE3
460	Δ	60	410.00	-/-	620.00	1792	2200.0	96.2	96.1	95.4	0.86	0.83	0.76	7.9	2.9	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) : 29.6 s 56.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	81 / 96 dB(A) ^{2) 3)}	84 / 99 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	6.7600 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 : 9900	X _{0.5} : 9300	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material	cast iron
Relubrication interval/quantity DE NDE	60 g 60 g 6000 h		Net weight of the motor	2020 kg
Lubricants	UNIREX N3		Coating (paint finish)	Special paint finish C3
Regreasing device	-/-		Color, paint shade	RAL7030
Grease nipple	-/-		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Type of bearing	Locating bearing NDE		Method of cooling	IC411 - self ventilated, surface cooled
Condensate drainage holes	(Standard) Yes			

Terminal box

Terminal box position	box at the angle 45°, 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 1LE5603-3BB33-4AB3-Z				document number			
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Special design

B02 Acceptance test certificate 3.1 acc. to EN 10204

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