

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



Motor type : 1CV3355B

SIMOTICS SD Add - 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	500.00	-/-	870.00	1491	3200.0	96.0	96.1	95.9	0.86	0.82	0.73	7.9	3.1	3.3	IE3
690	Y	50	500.00	-/-	510.00	1491	3200.0	96.0	96.1	95.9	0.86	0.82	0.73	7.9	3.1	3.3	IE3
460	Δ	60	500.00	-/-	760.00	1792	2650.0	96.2	96.2	95.7	0.86	0.82	0.73	9.5	3.5	3.7	IE3
460	Δ	60	580.00	-/-	870.00	1790	3100.0	96.2	96.3	96.0	0.87	0.84	0.76	8.6	3.0	3.2	IE3
460	Δ	60		600	690.00	1793	2400.0	96.2	96.1	95.5	0.86	0.82	0.73	11.0	3.8	4.0	MG1
IM B3 / IM1001			FS 355 L				IP55	UKCA		IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12					
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 11.3 s 52.9 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	80 / 96 dB(A) ^{2) 3)}	84 / 99 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	8.3600 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6320 C4	6320 C4	Vibration severity grade	Grade A
permissible lateral force on (N) (N)	X ₀ : 9900	X _{0.5} : 9300	Thermal class	F
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	60 g 60 g	6000 h	Frame material	cast iron
Lubricants	UNIREX N3		Net weight of the motor	2290 kg
Regreasing device	with conical grease nipple acc. DIN 71412A		Coating (paint finish)	Special paint finish C3
Grease nipple	M10x1 DIN 71412 A		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	6 PTC thermistors - for alarm and tripping (4 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	box at the angle 45°, socket left	Max. cross-sectional area	300 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	0 mm - 0 mm
Type of terminal box	TB3R61	Cable entry	-/-
Contact screw thread	12xM16	Cable gland	-/-

Notes:

I_A/I_N = locked rotor current / current nominal
M_K/M_N = locked rotor torque / torque nominal
M_B/M_N = break down torque / nominal torque
1) L_{10mh} according to DIN ISO 281 10/2010
2) at rated power / at full load
3) Value is valid only for DOL operation with motor design IC411

responsible dep.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.		Link documents	
IN LVM		SPC					
	document type	datasheet			document status		
					released		
	title	1LE5633-3BB53-4AC2-Z			document number		
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B07	Supplementary plate, voltage tolerance	H70	Second outer earthing
B51	Equivalent circuit diagram	L19	Regreasing device with regreasing nipple M10X1 acc.to DIN 71412-A
B60	Document electrical datasheet	L51	Bearing insulation NDE
B61	Document order dimension drawing	L52	Grounding brush for converter operation
B65	Normal test (routine test) with acceptance	R53	Undrilled removable cable entry plate

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