

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 [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η ³⁾			cosφ ³⁾			I _A /I _N I _I /I _N	M _A /M _N T _I /T _N	M _K /M _N T _B /T _N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
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	X _{max} : 8700	Duty type	S1	
bearing lifetime	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		UNIREX N3	Frame material	cast iron	
Lubricants	(Standard) Flat type lubricating nipple acc. DIN 3404		Color, paint shade	RAL7030		
Regreasing device	M10x1 DIN 3404 A		Coating (paint finish)	Special paint finish C3		
Grease nipple	Locating bearing NDE		Motor protection	3 PTC thermistors - for tripping (2 terminals)		
Type of bearing	(Standard) Yes		Method of cooling	IC411 - self ventilated, surface cooled		
Condensate drainage holes						

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 ...	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
M_A/M_N = locked rotor torque / torque nominal
M_K/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. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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