

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



Motor type : 1CV3354B

SIMOTICS SD - 355 L - IM B3 - 4p

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	1492	2550.0	96.0	96.0	95.5	0.84	0.80	0.72	8.4	3.4	3.0	IE3
690	Y	50	400.00	-/-	415.00	1492	2550.0	96.0	96.0	95.5	0.84	0.80	0.72	8.4	3.4	3.0	IE3
460	Δ	60	400.00	-/-	620.00	1794	2150.0	96.2	96.0	95.2	0.84	0.80	0.71	9.5	4.1	3.3	IE3
460	Δ	60	460.00	-/-	710.00	1792	2450.0	96.2	96.1	95.5	0.85	0.82	0.74	8.4	3.6	2.9	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) : 25 s 49.4 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	81 / 96 dB(A) ^{2) 3)}	88 / 99 dB(A) ^{2) 3)}	External earthing terminal	(Standard) Yes
Moment of inertia	7.1600 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} : N/A	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	2110 kg
Lubricants	UNIREX N3		Coating (paint finish)	Special paint finish C3
Regreasing device	(Standard) Flat type lubricating nipple acc. DIN 3404		Color, paint shade	RAL7030
Grease nipple	M10x1 DIN 3404 A		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	
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