

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



Motor type : 1CV3353A SIMOTICS SD - 355 L - IM B3 - 2p

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	355.00	-/-	600.00	2988	1130.0	95.8	95.6	94.8	0.89	0.86	0.80	8.9	2.6	4.0	IE3
690	Y	50	355.00	-/-	350.00	2988	1130.0	95.8	95.6	94.8	0.89	0.86	0.80	8.9	2.6	4.0	IE3
460	Δ	60	355.00	-/-	520.00	3590	940.0	95.8	95.3	94.2	0.89	0.86	0.79	9.5	2.6	4.5	IE3
460	Δ	60	400.00	-/-	580.00	3588	1060.0	95.8	95.4	94.5	0.90	0.87	0.81	8.7	2.3	4.0	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) : 39.3 s 62.4 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	80 / 95 dB(A) ^{2) 3)}	84 / 99 dB(A) ^{2) 3)}	Condensate drainage holes	(Standard) Yes
Moment of inertia	4.7400 kg m ²		External earthing terminal	(Standard) Yes
Bearing DE NDE	6317 C4	6317 C4	Vibration severity grade	Grade A
permissible lateral force on (N) (N)	X ₀ : 5800	X _{0.5} : 5500	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	30 g 30 g	3000 h	Frame material	cast iron
Lubricants	UNIREX N3		Net weight of the motor	2100 kg
Regreasing device	-/-		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		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	at the 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 1) L_{10mh} according to DIN ISO 281 10/2010 3) Value is valid only for DOL operation with motor design IC411
M_A/M_N = locked rotor torque / torque nominal 2) at rated power / at full load
M_K/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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