

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



Motor type : 1CV3355B

SIMOTICS SD Pro - 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 155(F)																	
380	Δ	50	500.00	-/-	930.00	1491	3200.0	96.0	96.1	95.8	0.85	0.81	0.72	8.2	2.9	3.2	IE3
660	Y	50	500.00	-/-	540.00	1491	3200.0	96.0	96.1	95.8	0.85	0.81	0.72	8.2	2.9	3.2	IE3
440	Δ	60	500.00	-/-	800.00	1792	2650.0	96.2	96.1	95.5	0.85	0.81	0.71	9.5	3.3	3.6	IE3
440	Δ	60	580.00	-/-	920.00	1790	3100.0	96.2	96.3	95.9	0.86	0.83	0.75	8.3	2.9	3.1	IE3
440	Δ	60		600	742.27	1793	2400.0	96.2	96.0	95.3	0.85	0.81	0.71	10.0	3.7	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 / 1,000 m									Locked rotor time (hot / cold) : 14.5 s 37.7 s								

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	81 / 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	2310 kg
Regreasing device	-/-		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	3 PTC thermistors - for tripping (2 terminals)
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end)		Method of cooling	IC416 - separately ventilated, surface cooled

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	4xM80x2 - 2xM20x1,5
Contact screw thread	12xM16	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.	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			
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Special design

F70	Mounting of separately driven fan	L51	Bearing insulation NDE
G06	Mounting a rotary pulse encoder HOG 10 D 1024 l	R18	Cable gland metal, max. number

Notes:

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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