

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



Motor type : 1CV3355B

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	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	8.1	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	8.1	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
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) : 11.3 s 50.8 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)	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	-/-		Coating (paint finish)	Special paint finish C3
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing DE		Motor protection	1 temperature sensor KTY84-130 (2 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 top, 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	4xM80x2 - 2xM20x1,5
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. 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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Special design

G04	Mounted rotary pulse encoder LL 861 900 220	L51	Bearing insulation NDE
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Notes:

[Link documents](#)



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