

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

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Motor type / Motor type : 1CV4354B

SIMOTICS SD - 355 L - IM B3 - 4p

Client order no. / Client order no.	Item-No. / Item-No.	Offer no. / Offer no.
Order no. / Order no.	Consignment no. / Consignment no.	Project / Project

Remarks / Remarks

Safe Area

-/-

Electrical data / 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) / DOL duty (S1) - 155(F) to 130(B)																	
400	Δ	50	400.00	-/-	730.00	1492	2550.0	96.7	96.7	96.2	0.82	0.77	0.67	7.9	3.2	2.9	IE4
690	Y	50	400.00	-/-	420.00	1492	2550.0	96.7	96.7	96.2	0.82	0.77	0.67	7.9	3.2	2.9	IE4
460	Δ	60	400.00	-/-	640.00	1794	2150.0	96.8	96.6	95.7	0.81	0.76	0.66	9.5	3.8	3.2	IE4
460	Δ	60	460.00	-/-	730.00	1792	2450.0	96.2	96.1	95.4	0.82	0.78	0.69	8.0	3.3	2.8	IE3

IM B3 / IM1001	FS 355 L	IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions / Environmental conditions : -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold) / Locked rotor time (hot / cold) : 27.1 s | 58.5 s

Mechanical data / Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz Sound level (SPL / SWL) at 50Hz 60Hz	81 / 96 dB(A) ^{2) 3)}	84 / 99 dB(A) ^{2) 3)}	Bearing insulation DE / Bearing insulation NDE	
Moment of inertia Moment of inertia	7.1600 kg m ²		Condensate drainage holes Condensate drainage holes	
Bearing DE NDE Bearing DE NDE	6320 C4	6320 C4	External earthing terminal External earthing terminal	
permissible lateral force on (N) permissible lateral force on (N)	X ₀ : 9900	X _{0.5} : 9300	X _{max} : 8700	Vibration severity grade Vibration severity grade
bearing lifetime / bearing lifetime			Thermal class Thermal class	
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	40000 h		32000 h	Duty type Duty type
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾				Direction of rotation Direction of rotation
Relubrication interval/quantity DE NDE	60 g 60 g 6000 h			Frame material Frame material
Relubrication interval/quantity DE NDE				Net weight of the motor Net weight of the motor
Lubricants Lubricants	UNIREX N3			Coating (paint finish) Coating (paint finish)
Regreasing device Regreasing device	Flat type lubricating nipple Flat type lubricating nipple			Color, paint shade Color, paint shade
Grease nipple Grease nipple	M10x1 DIN 3404 A			Motor protection Motor protection
Type of bearing Type of bearing	Locating bearing DE Locating bearing DE			Method of cooling Method of cooling
Bearing insulation DE / Bearing insulation NDE	Yes (Non-drive end) Yes (Non-drive end)			

Terminal box / Terminal box

Terminal box position Terminal box position	box at the angle 45°, socket left box at the angle 45°, socket left	Max. cross-sectional area Max. cross-sectional area	300 mm ²
Material of terminal box Material of terminal box	cast iron cast iron	Cable diameter from ... to ... Cable diameter from ... to ...	63 mm - 70 mm
Type of terminal box Type of terminal box	TB3R01	Cable entry Cable entry	2xM80x2 - 2xM20x1,5
Contact screw thread Contact screw thread	6xM16	Cable gland 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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Special design / Special design

L51 Bearing insulation NDE
Bearing insulation NDE

Notes:

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