

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

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Motor type / Motor type : 1CV4205A

SIMOTICS SD - 200 L - IM B3 - 2p

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]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N I_f/I_N	M_A/M_N T_f/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	37.00	-/-	64.00	2955	120.0	94.8	95.1	94.9	0.88	0.84	0.77	7.8	2.9	4.0	IE4
690	Y	50	37.00	-/-	37.00	2955	120.0	94.8	95.1	94.9	0.88	0.84	0.77	7.8	2.9	4.0	IE4
460	Δ	60	41.50	-/-	63.00	3555	111.0	94.5	94.7	94.2	0.88	0.85	0.78	8.0	3.3	4.0	IE4
460	Δ	60	37.00	-/-	57.00	3560	99.0	94.1	94.0	93.3	0.87	0.83	0.75	9.0	3.7	4.2	IE4
IM B3 / IM 1001		FS 200 L			IP55	UKCA	IEC/EN 60034	IEC, DIN, ISO, VDE, EN									

Environmental conditions / Environmental conditions : -20 °C - +40 °C / 1000 m Locked rotor time (hot / cold) / Locked rotor time (hot / cold) : 41.7 s | 59.5 s

Mechanical data / Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz Sound level (SPL / SWL) at 50Hz 60Hz	71 / 85 dB(A) ^{2) 3)}	79 / 90 dB(A) ^{2) 3)}	Vibration severity grade Vibration severity grade	A A
Moment of inertia Moment of inertia	0.1900 kg m ²		Thermal class Thermal class	F F
Bearing DE NDE Bearing DE NDE	6212 2Z C3	6212 2Z C3	Duty type Duty type	S1
bearing lifetime / bearing lifetime			Direction of rotation Direction of rotation	bidirectional bidirectional
$L_{10mh} F_{Rad min}$ for coupling operation 50 60Hz ¹⁾	40000 h	32000 h	Frame material Frame material	cast iron cast iron
$L_{10mh} F_{Rad min}$ for coupling operation 50 60Hz ¹⁾			Net weight of the motor (IM B3) Net weight of the motor (IM B3)	263 kg
Regreasing device Regreasing device	Without		Coating (paint finish) Coating (paint finish)	Special paint finish C3 Special paint finish C3
Grease nipple Grease nipple	-/-		Color, paint shade Color, paint shade	RAL5010
Type of bearing Type of bearing	Locating bearing NDE Locating bearing NDE		Motor protection Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals) (B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes Condensate drainage holes	With (standard) With (standard)		Method of cooling Method of cooling	IC411 - self ventilated, surface cooled IC411 - self ventilated, surface cooled
External earthing terminal External earthing terminal	With (standard) With (standard)			

Terminal box / Terminal box

Terminal box position Terminal box position	top	Max. cross-sectional area Max. cross-sectional area	25 mm ²
Material of terminal box Material of terminal box	cast iron cast iron	Cable diameter from ... to ... Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box Type of terminal box	TB1 L01	Cable entry Cable entry	2xM50x1,5-2xM20x1,5
Contact screw thread Contact screw thread	M6	Cable gland Cable gland	4 plugs 4 plugs

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
	document type datasheet	document status released			document number
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Special design / Special design

S02	Special paint finish C3 Special paint finish C3	Y53	Paint finish in other standard RAL colours RAL5010 Paint finish in other standard RAL colours RAL5010
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