

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



Motor type : 1CV3205A

SIMOTICS SD - 200 L - IM B3 - 2p

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

Remarks

## Electrical data

## Safe Area

U [V]	$\Delta / Y$	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	$\eta$ <sup>3)</sup>			$\cos\phi$ <sup>3)</sup>			$I_A/I_N$ $I_i/I_N$	$M_A/M_N$ $T_i/T_N$	$M_k/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
400	$\Delta$	50	37.00	-/-	65.00	2955	120.0	93.7	94.2	94.0	0.88	0.85	0.78	7.1	2.5	3.2	IE3
690	Y	50	37.00	-/-	37.50	2955	120.0	93.7	94.2	94.0	0.88	0.85	0.78	7.1	2.5	3.2	IE3
460	$\Delta$	60	41.50	-/-	63.00	3555	111.0	93.6	93.9	93.4	0.89	0.87	0.80	7.1	2.5	3.2	IE3
460	$\Delta$	60	37.00	-/-	57.00	3560	99.0	93.0	93.1	92.3	0.88	0.85	0.77	7.6	2.7	3.3	IE3

IM B3 / IM 1001	FS 200 L	250 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1,000 m				Locked rotor time (hot / cold) : 28 s   47.4 s	

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	74.0 / 81.0 dB(A) <sup>2)</sup>	79.0 / 86.0 dB(A) <sup>2)</sup>	External earthing terminal	Yes (standard)
Moment of inertia	0.1580 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6212 Z C3	6212 Z C3	Insulation	155(F) to 130(B)
<b>bearing lifetime</b>			Duty type	S1
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	cast iron
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	25.0 mm <sup>2</sup>
Material of terminal box	cast iron	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Type of terminal box	TB1 L01	Cable entry	2xM50x1,5-2xM20x1,5
Contact screw thread	M6	Cable gland	4 plugs

**Notes:**  
 $I_A/I_N$  = locked rotor current / current nominal  
 $M_k/M_N$  = locked rotor torque / torque nominal  
 $M_k/M_N$  = break down torque / nominal torque  
 1) L10mh 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. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.
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## Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	Y82	Auxiliary name plate with customer data
Q02	Anti-condensation heating for 230 V (2 terminals)		

## Additional information:

### Space heaters

Technical data: 1-phase, 230 V 50W

## Notes:

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