

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



Motor type : 1CV3205B

SIMOTICS SD - 200 L - IM B3 - 4p

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

Remarks **Safe Area**

**Electrical data**

-/-

U [V]	Δ / Y	f [Hz]	P [kW]	P [hp]	I [A]	n [1/min]	M [Nm]	η <sup>3)</sup>			cosφ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I <sub>I</sub> /I <sub>N</sub>	T <sub>I</sub> /T <sub>N</sub>	T <sub>B</sub> /T <sub>N</sub>	
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
380	Δ	50	28.79	-/-	56.00	1470	187.0	93.7	94.0	93.6	0.83	0.79	0.70	7.6	2.7	3.2	IE3
660	Y	50	28.79	-/-	32.50	1470	187.0	93.7	94.0	93.6	0.83	0.79	0.70	7.6	2.7	3.2	IE3
440	Δ	60	33.11	-/-	55.00	1770	178.6	93.0	93.3	92.8	0.84	0.80	0.72	7.6	2.5	3.1	IE2
440	Δ	60	30.00	-/-	50.00	1778	161.0	94.1	94.2	93.6	0.83	0.79	0.70	8.8	2.6	3.5	IE3
IM B3 / IM 1001		FS 200 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN			Grade 3				

Environmental conditions : -20 °C - +45 °C / 1000 m

Locked rotor time (hot / cold) : 29.4 s | 45 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

**Mechanical data**

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 72 dB(A) <sup>2) 3)</sup>	67 / 74 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.2400 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6212 2Z C3	6212 2Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
L <sub>10mh</sub> F <sub>Rad, min</sub> for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	240 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	With (standard)		Motor protection	(A) without (Standard)
External earthing terminal	With (standard)		Method of cooling	IC411 - self ventilated, surface cooled

**Terminal box**

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

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
 M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
 M<sub>K</sub>/M<sub>N</sub> = break down torque / nominal torque  
 1) L<sub>10mh</sub> 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

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Responsible department IN LVM	Technical reference	Created by SPC	Approved by Created automatically	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	<a href="#">Link documents</a>
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## Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced
D34	China Energy Efficiency Label	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
H07	Stainless steel screws and bolts (outside the motor)		

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