

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



Motor type : 1CV2205B

SIMOTICS SD - 200 L - IM B3 - 4p

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

Electrical data

Safe Area

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) - 155(F) to 130(B)																	
230	Δ	50	30.00	-/-	97.00	1470	195.0	92.3	92.9	92.6	0.84	0.80	0.70	6.7	2.5	3.3	IE2
400	Y	50	30.00	-/-	56.00	1470	195.0	92.3	92.9	92.6	0.84	0.80	0.70	6.7	2.5	3.3	IE2
460	Y	60	34.50	-/-	55.00	1770	186.0	93.0	93.5	93.1	0.85	0.81	0.73	7.2	2.7	3.2	IE2
460	Y	60	30.00	-/-	48.00	1778	161.0	93.0	93.1	92.3	0.84	0.79	0.69	8.2	3.2	3.7	IE2
IM B3 / IM 1001		FS 200 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) : 13.8 s 25.3 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 77 dB(A) ^{2) 3)}	72 / 79 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.2000 kg m ²		Thermal class	F
Bearing DE NDE	6212 2Z C3	6212 2Z C3	Duty type	S1
bearing lifetime			Direction of rotation	bidirectional
L_{10mh} , $F_{Rad min}$ 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Frame material	cast iron
Regreasing device	Without		Net weight of the motor (IM B3)	230 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 ²
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

Notes:

I_A/I_N = locked rotor current / current nominal
 M_K/M_N = locked rotor torque / torque nominal
 M_f/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. IN LVM	technical reference	created by SPC	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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