

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



Motor type : 1AV3205B

SIMOTICS GP - 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]	η 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	-/-	96.00	1470	195.0	93.6	94.2	94.2	0.84	0.80	0.71	7.3	2.6	3.1	IE3
400	Y	50	30.00	-/-	55.00	1470	195.0	93.6	94.2	94.2	0.84	0.80	0.71	7.3	2.6	3.1	IE3
460	Y	60	34.50	-/-	55.00	1770	186.0	93.0	93.5	93.3	0.85	0.81	0.73	7.3	2.4	3.0	IE2
460	Y	60	30.00	-/-	48.00	1778	161.0	94.1	94.3	93.8	0.83	0.78	0.68	8.1	3.0	3.5	IE3
IM B3 / IM 1001		FS 200 L		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN						KS C IEC60034-2-1			
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 28.4 s 45 s							

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	65 / 72 dB(A) ^{2) 3)}	67 / 74 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.2400 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	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	189 kg
Regreasing device	No		Coating (paint finish)	Standard paint finish C2
Grease nipple	-/-		Color, paint shade	RAL7030
Type of bearing	Locating bearing NDE		Motor protection	(A) without (Standard)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			

Terminal box

Terminal box position	top	Max. cross-sectional area	25 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	27 mm - 35 mm
Type of terminal box	TB1 L00	Cable entry	2xM50x1,5
Contact screw thread	M6	Cable gland	2 plugs

Notes:

I_A/I_N = locked rotor current / current nominal
 M_A/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	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	Link documents
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Special design

G11 Rotary pulse encoder Sendix 5020 (HTL)

Notes:

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