

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



Motor type : 1AV2205B

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	M_A/M_N	M_K/M_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	I_i/I_N	T_i/T_N	T_B/T_N	
400	Δ	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
690	Y	50	30.00	-/-	32.50	1470	195.0	92.3	92.9	92.6	0.84	0.80	0.70	6.7	2.5	3.3	IE2
460	Δ	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	Δ	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	173 kg	IP55		IEC/EN 60034	IEC, DIN, ISO, VDE, EN						
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Environmental conditions : -20 °C - +40 °C / 1,000 m

Locked rotor time (hot / cold) : 13.4 s | 24.5 s

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70.0 / 77.0 dB(A) ²⁾	72.0 / 79.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.2000 kg m ²		Vibration severity grade	A
Bearing DE NDE	6212 Z C3	6212 Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} 50 60Hz ¹⁾ for coupling operation	40000 h	32000 h	Direction of rotation	bidirectional
Lubricants	Unirex N3		Frame material	aluminum
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	-/-		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	right	Max. cross-sectional area	25.0 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	27.0 mm - 35.0 mm
Type of terminal box	TB1 L00	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_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.	technical reference	created by	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.
DI MC LVM		DT Configurator		

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Special design

B02 Acceptance test certificate 3.1 acc. to EN 10204 R11 Terminal box rotated through 90°, cable entry from NDE

Notes:

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