

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



Motor type : 1AV1105B

SIMOTICS GP - 100 L - IM B35 - 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_l/I_N	T_l/T_N	T_B/T_N	
400	Δ	50	2.88	-/-	6.10	1425	19.3	81.7	82.5	81.1	0.84	0.76	0.63	5.6	2.5	2.7	IE1
690	Y	50	2.88	-/-	3.50	1425	19.3	81.7	82.5	81.1	0.84	0.76	0.63	5.6	2.5	2.7	IE1
460	Δ	60	3.31	-/-	5.70	1725	18.3	85.1	85.7	84.5	0.85	0.79	0.66	6.2	2.3	2.4	IE1
IM B35 / IM 2001		FS 100 L		22 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							

Environmental conditions : -20 °C - +45 °C / 1,000 m

Locked rotor time (hot / cold) : 9.76 s | 16.9 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	60.0 / 72.0 dB(A) ²⁾	62.0 / 74.0 dB(A) ²⁾	External earthing terminal	No
Moment of inertia	0.0078 kg m ²		Vibration severity grade	A
Bearing DE NDE	6206 2Z C3	6206 2Z C3	Insulation	155(F) to 130(B)
bearing lifetime			Duty type	S1
L _{10mh} F _{Rad min} for coupling operation 50 60Hz ¹⁾	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	Preloaded bearing DE		Motor protection	(A) without (Standard)
Condensate drainage holes	Yes (standard)		Method of cooling	IC411 - self ventilated, surface cooled

Terminal box

Terminal box position	top	Max. cross-sectional area	4.0 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11.0 mm - 21.0 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 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.			
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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	N30	Increased air humidity/temperature with 30 to 60 g water per m3 air
D22	motor without CE character for export outside the EEA (see EU regulation 640/2009)	Q02	Anti-condensation heating for 230 V (2 terminals)
N05	Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced		

Additional information:

Space heaters

Technical data: 1-phase, 230 V 25W

Notes:

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