

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



Motor type : 1CV1105B

- 100 L - IM B3 - 4p

Motor Code 17021

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			cosφ			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	
220	Δ	52.7	3.00	-/-	11.40	1500	19.1	81.5	-/-	-/-	0.85	-/-	-/-	-/-	-/-	2.4	-/-
380	Y	52.7	3.00	-/-	6.60	1500	19.1	81.5	-/-	-/-	0.85	-/-	-/-	-/-	-/-	2.4	-/-
440	Y	62.6	3.45	-/-	6.20	1800	18.3	85.0	-/-	-/-	0.86	-/-	-/-	-/-	-/-	2.3	-/-
380	Δ	89.3	5.00	-/-	11.40	2610	18.3	85.0	-/-	-/-	0.79	-/-	-/-	-/-	-/-	3.2	-/-
IM B3 / IM 1001		FS 100 L		33 kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN					n _{max} 4200 1/min		

Environmental conditions : -20 °C - +40 °C / 1,000 m

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	79 / 91 dB(A) ^{2) 3)}	79 / 91 dB(A) ^{2) 3)}	Vibration severity grade	A
Moment of inertia	0.0078 kg m ²		Insulation	155(F) to 155(F)
Bearing DE NDE	6206 2ZC3	6206 2ZC3	Duty type	S9
Relubrication interval/quantity DE NDE	40000 h		Direction of rotation	bidirectional
Lubricants	Esso Unirex N3		Frame material	cast iron
Regreasing device	No		Data of anti condensation heating	-/- V, -/- W
Grease nipple	-/-		Coating (paint finish)	
Type of bearing	Preloaded bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	Yes (standard)		Motor protection	(B) 3 PTC thermistors - for tripping
External earthing terminal	No		Method of cooling	IC411 - self ventilated, surface cooled

Converter data

Feeding	SINAMICS with uncontrolled supply	Recommended converter	-/-
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Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm ²
Material of terminal box	cast iron	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F01	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_K/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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