

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



Motor type : 1AV1104B

- 100 L - IM B3 - 4p

Motor Code 17020

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

Remarks

Electrical data

U	Δ / Y	f	P	P	I	n	M	η ³⁾			cosφ ³⁾			I _A /I _N	M _A /M _N	M _K /M _N	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	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	52.9	2.20	-/-	9.00	1500	14.0	79.7	-/-	-/-	0.81	-/-	-/-	-/-	-/-	2.3	-/-
380	Y	52.9	2.20	-/-	5.20	1500	14.0	79.7	-/-	-/-	0.81	-/-	-/-	-/-	-/-	2.3	-/-
440	Y	62.8	2.55	-/-	4.95	1800	13.5	83.0	-/-	-/-	0.82	-/-	-/-	-/-	-/-	2.4	-/-
380	Δ	89.3	3.70	-/-	8.60	2610	13.5	83.0	-/-	-/-	0.79	-/-	-/-	-/-	-/-	3.4	-/-
IM B3 / IM 1001		FS 100 L		18 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⁾	79 / 91 dB(A) ²⁾	Insulation	155(F) to 155(F)
Moment of inertia	0.0059 kg m ²		Duty type	S9
Bearing DE NDE	6206 2ZC3	6206 2ZC3	Direction of rotation	bidirectional
Relubrication interval/quantity DE NDE	40000 h		Frame material	aluminum
Lubricants	Esso Unirex N3		Data of anti condensation heating	-/- V, -/- W
Regreasing device	No		Coating (paint finish)	
Grease nipple	-/-		Color, paint shade	
Type of bearing	Preloaded bearing NDE		Motor protection	(F) 1 temperature sensor KTY84-130
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled
External earthing terminal	No			
Vibration severity grade	A			

Converter data

Feeding	SINAMICS with uncontrolled supply
Recommended converter	-/-

Terminal box

Terminal box position	top	Contact screw thread	M4
Material of terminal box	Aluminium	Max. cross-sectional area	4.0 mm ²
Type of terminal box	TB1 F00	Cable diameter from ... to ...	11.0 mm - 21.0 mm

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.			
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Cable entry 2xM32x1,5-1xM16x1,5

Cable gland 3 plugs
-/-

Notes:

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