

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



Motor type : 1AV1105J

- 100 L - (F) IM B5 / IM3001 - p

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

Remarks

Electrical data

U	Δ / Y	f	P	P	I	n	M	$\eta^{3)}$			$\cos\phi^{3)}$			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	
400	Δ	50	2.50	-/-	5.40	1440	16.6	76.3			0.87			5.2	1.9	2.8	
400	Y	50	3.10	-/-	6.40	2840	10.4	77.3			0.90			5.2	2.1	2.9	
(F) IM B5 / IM3001		FS 100 L		22 kg				IEC/EN 60034									

Environmental conditions : °C - +45 °C / m

Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	/ dB(A)	/ dB(A)	Insulation	155(F) to 155(F)
Moment of inertia	0.0078 kg m ²		Duty type	S1 = continuous operation
Bearing DE NDE			Direction of rotation	bidirectional
Lubricants	Esso Unirex N3		Frame material	aluminum
Regreasing device			Net weight of the motor	22 kg
Type of bearing	Preloaded bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	No		Motor protection	without
External earthing terminal	No		Method of cooling	IC 411
Vibration severity grade	A (standard)			

Terminal box

Terminal box position	Terminal box - at the top	Max. cross-sectional area	4.0 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 F00	Cable entry	2xM32x1,5
Contact screw thread	M4	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.	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

E54 With type approval certificate acc. to Korean Register of Shipping (KR),
CT 45°C, temperature class 155 (F), utilization in accordance with 155
(F)

Notes:

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