

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



Motor type : 1RV4094B

- 90 L - IM B5 - 4p

Motor Code 60022

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]	$\eta^{3)}$			$\cos\phi^{3)}$			I_A/I_N I_f/I_N	M_A/M_N T_f/T_N	M_K/M_N T_B/T_N	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
220	Δ	50	1.50	-/-	6.50	1500	9.5	88.2	-/-	-/-	0.69	-/-	-/-	-/-	-/-	-/-	-/-
380	Y	50	1.50	-/-	3.75	1500	9.5	88.2	-/-	-/-	0.69	-/-	-/-	-/-	-/-	-/-	-/-
440	Y	60	1.75	-/-	3.85	1800	9.3	88.5	-/-	-/-	0.68	-/-	-/-	-/-	-/-	-/-	-/-
380	Δ	87	2.60	-/-	6.60	2610	9.5	90.5	-/-	-/-	0.67	-/-	-/-	-/-	-/-	-/-	-/-
IM B5 / IM 3001		FS 90 L		kg		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN			η_{max} 3200 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	58 / 70 dB(A) ²⁾	59 / 71 dB(A) ²⁾	Vibration severity grade	A
Moment of inertia	0.0043 kg m ²		Insulation	155(F) to 130(B)
Bearing DE NDE	6205 2ZC3	6004 2ZC3	Duty type	S9
Relubrication interval/quantity DE NDE	-/-		Direction of rotation	bidirectional
Lubricants	Esso Unirex N3		Frame material	aluminum
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	No		Motor protection	(F) 1 temperature sensor KTY84-130
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	1.5 mm ²
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5-1xM16x1,5
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. DI MC LVM	technical reference	created by DT Configurator	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	
	document type datasheet	document status released	customer		
	title 1FP1014-0EB42-1FF4	document number			
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