

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



Motor type : 1AV3094C

SIMOTICS GP - 90 L - IM B3 - 6p

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

## Electrical data

## Safe Area

U [V]	$\Delta / Y$	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				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
230	$\Delta$	50	1.10	-/-	5.20	950	11.1	81.0	81.4	79.3	0.66	0.57	0.44	5.0	2.8	3.0	IE3
400	Y	50	1.10	-/-	2.95	950	11.1	81.0	81.4	79.3	0.66	0.57	0.44	5.0	2.8	3.0	IE3
IM B3 / IM 1001		FS 90 L		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 31.8 s   40.5 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	43 / 55 dB(A) <sup>2) 3)</sup>	46 / 58 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0052 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6205 2Z C3	6004 2Z C3	Duty type	S1
<b>bearing lifetime</b> L <sub>10mh</sub> , F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Direction of rotation	bidirectional
Regreasing device	Without		Frame material	aluminum
Grease nipple	-/-		Net weight of the motor (IM B3)	19 kg
Type of bearing	Preloaded bearing DE		Coating (paint finish)	Standard paint finish C2
Condensate drainage holes	Without		Color, paint shade	RAL7030
External earthing terminal	Without		Motor protection	(A) without (Standard)
			Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	1.5 mm <sup>2</sup>
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5
Contact screw thread	M4	Cable gland	1 plug

## Notes:

$I_A/I_N$  = locked rotor current / current nominal  
 $M_K/M_N$  = locked rotor torque / torque nominal  
 $M_f/M_N$  = 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. IN LVM	technical reference	created by SPC	approved by	Technical data are subject to change! There may be discrepancies between calculated and rating plate values.	<a href="#">Link documents</a>
	document type datasheet	document status released			document number
	title 1LE1003-0EC42-2AA4	rev. 944	creation date 2023-09-12		
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