

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



Motor type : 1AV3104A

SIMOTICS GP - 100 L - IM B5 - 2p

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]	$\eta$ <sup>3)</sup>			$\cos\phi$ <sup>3)</sup>			$I_A/I_N$ $I_i/I_N$	$M_A/M_N$ $T_i/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
400	$\Delta$	50	3.00	-/-	5.70	2910	9.8	87.1	87.7	87.0	0.87	0.82	0.72	9.4	4.4	4.5	IE3
690	Y	50	3.00	-/-	3.30	2910	9.8	87.1	87.7	87.0	0.87	0.82	0.72	9.4	4.4	4.5	IE3
460	$\Delta$	60	3.45	-/-	5.60	3505	9.4	88.5	88.5	87.5	0.87	0.83	0.73	10.0	4.0	4.8	IE3
460	$\Delta$	60	3.00	-/-	5.00	3525	8.1	88.5	88.2	86.7	0.85	0.80	0.69	11.2	4.6	5.6	IE3
IM B5 / IM 3001		FS 100 L		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN									
Environmental conditions : -20 °C - +40 °C / 1000 m										Locked rotor time (hot / cold) : 9 s   12 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	67 / 79 dB(A) <sup>2)</sup>	71 / 83 dB(A) <sup>2)</sup>	Vibration severity grade	A	
Moment of inertia	0.0041 kg m <sup>2</sup>		Thermal class	F	
Bearing DE   NDE	6206 2Z C3	6206 2Z C3	Duty type	S1	
<b>bearing lifetime</b>			Direction of rotation	bidirectional	
$L_{10mh}$ , $F_{Rad}$ , $m_{min}$ 50 60Hz	for coupling operation	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	25 kg	
Regreasing device	No		Coating (paint finish)	Standard paint finish C2	
Grease nipple	-/-		Color, paint shade	RAL7030	
Type of bearing	Preloaded bearing DE		Motor protection	(A) without (Standard)	
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled	
External earthing terminal	No				

## Terminal box

Terminal box position	top	Max. cross-sectional area	4 mm <sup>2</sup>
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. DI MC LVM	technical reference	created by DT Configurator	approved by	<i>Technical data are subject to change! There may be discrepancies between calculated and rating plate values.</i>	<a href="#">Link documents</a>
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