

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



Motor type : 1AV3130B

SIMOTICS GP - 132 S - IM B5 - 4p

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 155(F)</b>																	
400	$\Delta$	50		-/-		1470	35.5	89.6	90.0	89.4	0.82	0.77	0.67	8.5	2.9	3.7	IE3
690	Y	50		-/-		1470	35.5	89.6	90.0	89.4	0.82	0.77	0.67	8.5	2.9	3.7	IE3
IM B5 / IM 3001			FS 132 S			IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - + °C / m									Locked rotor time (hot / cold) : 22 s   28.1 s								

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	64 / 76 dB(A) <sup>2)</sup>	68 / 80 dB(A) <sup>2)</sup>	Vibration severity grade	A
Moment of inertia	0.0340 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6208 2Z C3	6208 2Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
$L_{10mh}$ , $F_{Rad}$ , $m_{min}$ 50 60Hz	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	54 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	(B) 3 PTC thermistors - for tripping (2 terminals)
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	6 mm <sup>2</sup>
Material of terminal box	Aluminium	Cable diameter from ... to ...	11 mm - 21 mm
Type of terminal box	TB1 H00	Cable entry	2xM32x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	3 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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## Special design

Y52 Temperature class 155(F), utilized acc. to 155(F), customer indication of coolant temperature and/or installation altitude

## Notes:

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