

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



Motor type: 1AV2136B

SIMOTICS GP - 132 M - IM B3 - 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				
400	$\Delta$	50	11.00	-/-	21.00	1465	72.0	89.8	90.9	90.9	0.84	0.81	0.72	7.7	2.6	3.1	IE2
690	Y	50	11.00	-/-	12.20	1465	72.0	89.8	90.9	90.9	0.84	0.81	0.72	7.7	2.6	3.1	IE2
460	$\Delta$	60	12.60	-/-	20.50	1765	68.0	91.0	91.9	91.7	0.85	0.82	0.74	7.9	2.5	3.1	IE2
460	$\Delta$	60	11.00	-/-	18.50	1770	59.0	91.0	91.5	90.8	0.82	0.78	0.69	8.5	2.9	3.6	IE2

IM B3 / IM 1001	FS 132 M	64 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +40 °C / 1,000 m

## Mechanical data


Sound level (SPL / SWL) at 50Hz 60Hz	64.0 / 76.0 dB(A) <sup>2)</sup>	68.0 / 80.0 dB(A) <sup>2)</sup>	Condensate drainage holes	No -/-
Moment of inertia	0.0460 kg m <sup>2</sup>		External earthing terminal	No -/-
Bearing DE   NDE	6208 2Z C3	6208 2Z C3	Vibration severity grade	A
<b>bearing lifetime</b>			Insulation	155(F) to 130(B)
L <sub>10mh</sub> F <sub>Rad,max</sub> acc. catalogue 50 60Hz <sup>1)</sup>	20000 h	16000 h	Duty type	S1
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
Lubricants	Unirex N3		Frame material	aluminum
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)
			Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Cable diameter from ... to ...	11.0 mm - 21.0 mm
Material of terminal box	Aluminium	Cable entry	2xM32x1,5
Type of terminal box	TB1 H00	Cable gland	2 plugs -/-
Contact screw thread	M4		
Max. cross-sectional area	6.0 mm <sup>2</sup>		

### Notes:

$I_A/I_N$  = locked rotor current / current nominal  
 $M_k/M_N$  = 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

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