

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



Motor type : 1AV3164A

SIMOTICS GP - 160 L - IM B5 - 2p

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]	η <sup>3)</sup>			cosφ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub> I <sub>I</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub> T <sub>I</sub> /T <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub> T <sub>B</sub> /T <sub>N</sub>	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	Δ	50	18.50	-/-	56.00	2955	60.0	92.4	92.8	92.3	0.90	0.87	0.80	8.3	2.8	3.9	IE3
400	Y	50	18.50	-/-	32.00	2955	60.0	92.4	92.8	92.3	0.90	0.87	0.80	8.3	2.8	3.9	IE3
460	Y	60	21.30	-/-	32.00	3550	57.0	91.7	91.8	91.1	0.91	0.89	0.82	8.2	2.7	3.8	IE3
460	Y	60	18.50	25.00	28.00	3560	49.5	91.7	91.5	90.3	0.90	0.87	0.79	9.4	3.1	4.4	MG1
IM B5 / IM 3001			FS 160 L		CC032A	IP55	UKCA	IEC/EN 60034		IEC, EN, UL, CSA, NEMA MG1-12			kVA Code: M				
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 16.8 s   25.1 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	70 / 82 dB(A) <sup>2) 3)</sup>	77 / 89 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0680 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6209 2Z C3	6209 2Z C3	Duty type	S1
<b>bearing lifetime</b>			Direction of rotation	bidirectional
L <sub>10mh</sub> , F <sub>Rad min</sub> 50 60Hz <sup>1)</sup> for coupling operation	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	94 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Locating bearing NDE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(A) without (Standard)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	16 mm <sup>2</sup>
Material of terminal box	Aluminium	Cable diameter from ... to ...	19 mm - 28 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5
Contact screw thread	M5	Cable gland	2 plugs

### Notes:

I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
M<sub>K</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
M<sub>K</sub>/M<sub>N</sub> = 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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