

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

Motor type : 1AV2162B

SIMOTICS GP - 160 M - IM V1 - 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>			$I_A/I_N$	$M_A/M_N$	$M_K/M_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4	$I_i/I_N$	$T_i/T_N$	$T_B/T_N$	
400	$\Delta$	50	11.00	-/-	21.00	1470	71.0	89.8	91.0	90.9	0.85	0.82	0.73	6.7	2.1	2.8	IE2
690	Y	50	11.00	-/-	12.10	1470	71.0	89.8	91.0	90.9	0.85	0.82	0.73	6.7	2.1	2.8	IE2
460	$\Delta$	60	12.60	-/-	20.50	1770	68.0	91.0	91.7	91.1	0.85	0.83	0.75	7.0	2.2	2.8	IE2
460	$\Delta$	60	11.00	-/-	18.10	1775	59.0	91.0	91.2	90.1	0.84	0.80	0.71	7.7	2.5	3.2	IE2

IM V1 / IM 3011	FS 160 M	71 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
Environmental conditions : -20 °C - +40 °C / 1000 m				Locked rotor time (hot / cold) : 17.9 s   28.8 s	

## Mechanical data


Sound level (SPL / SWL) at 50Hz 60Hz	65.0 / 77.0 dB(A) <sup>2)</sup>	69.0 / 81.0 dB(A) <sup>2)</sup>	External earthing terminal	No
Moment of inertia	0.0550 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6209 2Z C3	6209 2Z C3	Insulation	155(F) to 130(B)
<b>bearing lifetime</b>			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	Locating bearing NDE		Motor protection	(B) 3 PTC thermistors - for tripping (2 terminals)
Condensate drainage holes	No		Method of cooling	IC411 - self ventilated, surface cooled

## Terminal box

Terminal box position	top	Max. cross-sectional area	16.0 mm <sup>2</sup>
Material of terminal box	Aluminium	Cable diameter from ... to ...	19.0 mm - 28.0 mm
Type of terminal box	TB1 J00	Cable entry	2xM40x1,5-1xM16x1,5
Contact screw thread	M5	Cable gland	3 plugs

### Notes:

$I_A/I_N$ = locked rotor current / current nominal	1) L10mh according to DIN ISO 281 10/2010	3) Value is valid only for DOL operation with motor design IC411
$M_A/M_N$ = locked rotor torque / torque nominal	2) at rated power / at full load	
$M_K/M_N$ = break down torque / nominal torque		

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>			
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**Special design**

F01	Mounting a brake	F50	Mechanical manual brake release with lever (cannot be locked)
F11	Brake supply voltage, 230 V AC, 50/60 Hz	H00	Canopy


**Additional information:**

**Brake:**

Description:	BFK458-20	Current:	0.5 A
Voltage:	AC 230 V	Moment of inertia:	0.01 Nm

**Notes:**

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