

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



Motor type : 1AV2083B

SIMOTICS GP - 80 M - IM B3 - 4p

Client order no.	Item-No.	Offer no.
Order no.	Consignment no.	Project
Remarks		

**Safe Area**

-/-

**Electrical data**

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	0.75	-/-	3.10	1440	5.0	79.6	79.5	77.0	0.76	0.66	0.52	5.6	2.2	3.1	IE2
400	Y	50	0.75	-/-	1.79	1440	5.0	79.6	79.5	77.0	0.76	0.66	0.52	5.6	2.2	3.1	IE2
460	Y	60	0.86	-/-	1.82	1740	4.7	78.0	77.8	75.7	0.76	0.67	0.54	6.2	2.2	3.3	IE2
460	Y	60	0.75	-/-	1.68	1750	4.1	78.0	77.3	74.4	0.72	0.63	0.49	6.8	2.5	3.8	IE2
IM B3 / IM 1001		FS 80 M		IP55		UKCA		IEC/EN 60034		IEC, DIN, ISO, VDE, EN							
Environmental conditions : -20 °C - +40 °C / 1000 m									Locked rotor time (hot / cold) : 19.9 s   26 s								

**Mechanical data**

Sound level (SPL / SWL) at 50Hz 60Hz	53 / 64 dB(A) <sup>2) 3)</sup>	55 / 66 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0021 kg m <sup>2</sup>		Thermal class	F
Bearing DE   NDE	6004 2Z C3	6004 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)	11 kg
Grease nipple	-/-		Coating (paint finish)	Standard paint finish C2
Type of bearing	Preloaded bearing DE		Color, paint shade	RAL7030
Condensate drainage holes	Without		Motor protection	(B) 1 PTC thermistor - for tripping (2 terminals)
External earthing terminal	Without		Method of cooling	IC411 - self ventilated, surface cooled

**Terminal box**

Terminal box position	top	Max. cross-sectional area	1.5 mm <sup>2</sup>
Material of terminal box	Aluminium	Cable diameter from ... to ...	9 mm - 17 mm
Type of terminal box	TB1 E00	Cable entry	1xM25x1,5-1xM16x1,5
Contact screw thread	M4	Cable gland	2 plugs

**Notes:**  
 I<sub>A</sub>/I<sub>N</sub> = locked rotor current / current nominal  
 M<sub>A</sub>/M<sub>N</sub> = locked rotor torque / torque nominal  
 M<sub>K</sub>/M<sub>N</sub> = break down torque / nominal torque  
 1) L<sub>10mh</sub> 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. IN LVM	technical reference	created by SPC	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

D22 Motor without CE character for export outside the EEA (see EU regulation 2019/1781)

## Notes:

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