

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



Motor type : 1AV3083A

SIMOTICS GP - 80 M - IM B3 - 2p

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>			$I_A/I_N$ $I_f/I_N$	$M_A/M_N$ $T_f/T_N$	$M_K/M_N$ $T_B/T_N$	IE-CL
								4/4	3/4	2/4	4/4	3/4	2/4				
<b>DOL duty (S1) - 155(F) to 130(B)</b>																	
230	$\Delta$	50	1.10	-/-	3.95	2885	3.6	82.7	83.9	83.1	0.85	0.80	0.69	7.1	3.0	3.3	IE3
400	Y	50	1.10	-/-	2.25	2885	3.6	82.7	83.9	83.1	0.85	0.80	0.69	7.1	3.0	3.3	IE3
460	Y	60	1.27	-/-	2.25	3480	3.5	84.0	84.6	83.4	0.85	0.80	0.71	7.4	2.8	3.4	IE3
460	Y	60	1.10	-/-	1.98	3500	3.0	84.0	84.0	82.0	0.83	0.77	0.67	8.4	3.3	4.0	IE3
IM B3 / IM 1001		FS 80 M		IP55		IEC/EN 60034		IEC, DIN, ISO, VDE, EN									
Environmental conditions : -20 °C - +40 °C / 1,000 m										Locked rotor time (hot / cold) : 14.4 s   19.5 s							

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	60 / 71 dB(A) <sup>2) 3)</sup>	64 / 75 dB(A) <sup>2) 3)</sup>	Vibration severity grade	A
Moment of inertia	0.0013 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
$L_{10mh}$ , $F_{Rad min}$ 50 60Hz <sup>1)</sup> for coupling operation	40000 h	32000 h	Frame material	aluminum
Lubricants	Unirex N3		Net weight of the motor (IM B3)	12 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) 1 PTC thermistor - 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	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:

$I_A/I_N$  = 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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