

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



Motor type : 1AV2082C

SIMOTICS GP - 80 M - IM B14 - 6p

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				
380	$\Delta$	50	0.35	-/-	1.17	925	3.6	67.7	67.3	62.9	0.67	0.58	0.44	4.2	2.2	2.5	IE2
660	Y	50	0.35	-/-	0.67	925	3.6	67.7	67.3	62.9	0.67	0.58	0.44	4.2	2.2	2.5	IE2
440	$\Delta$	60	0.41	-/-	1.25	1125	3.5	64.0	63.7	60.3	0.67	0.58	0.46	4.4	2.2	2.7	IE2
440	$\Delta$	60	0.37	-/-	1.20	1140	3.1	64.0	63.0	59.1	0.63	0.54	0.42	4.6	2.3	2.9	IE2

IM B14 / IM 3601	FS 80 M	9 kg	IP55	IEC/EN 60034	IEC, DIN, ISO, VDE, EN
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Environmental conditions : -20 °C - +45 °C / 1,000 m

Locked rotor time (hot / cold) : 22.9 s | 31.7 s

These values are calculated. The final rating plate data will be calculated when the order is placed

The efficiency values and efficiency class according to EuP directive are valid for standard power ratings under standard conditions.

## Mechanical data

Sound level (SPL / SWL) at 50Hz 60Hz	42.0 / 53.0 dB(A) <sup>2)</sup>	45.0 / 56.0 dB(A) <sup>2)</sup>	External earthing terminal	No
Moment of inertia	0.0017 kg m <sup>2</sup>		Vibration severity grade	A
Bearing DE   NDE	6004 2Z C3	6004 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	Preloaded bearing DE		Motor protection	(B) 1 PTC thermistor - for tripping (2 terminals)
Condensate drainage holes	-/-		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 ...	9.0 mm - 17.0 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>
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## Special design

N05 Temperature class 155 (F), utilised to 130 (B), cooling medium temperature 45°C, power reduced

## Notes:

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