

Data sheet for three-phase Squirrel-Cage-Motors INNOMOTICS



Motor type : 1AV3083A

INNOMOTICS GP - 80 M - IM B14 - 2p

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

Remarks

Safe Area

Electrical data

-/-

U	Δ / Y	f	P	P	I	n	M	η <sup>3)</sup>			cosφ <sup>3)</sup>			I <sub>A</sub> /I <sub>N</sub>	M <sub>A</sub> /M <sub>N</sub>	M <sub>K</sub> /M <sub>N</sub>	IE-CL
[V]		[Hz]	[kW]	[hp]	[A]	[1/min]	[Nm]	4/4	3/4	2/4	4/4	3/4	2/4	I <sub>I</sub> /I <sub>N</sub>	T <sub>I</sub> /T <sub>N</sub>	T <sub>B</sub> /T <sub>N</sub>	
DOL duty (S1) - 155(F) to 130(B)																	
230	Δ	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	MG1
IM B14 / IM 3601		FS 80 M				IP55	UKCA	IEC/EN 60034		IEC, EN, UL							
Environmental conditions : -20 °C - +40 °C / 1000 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
bearing lifetime			Direction of rotation	bidirectional
L <sub>10mh</sub> F <sub>Rad min</sub> for coupling operation 50 60Hz <sup>1)</sup>	40000 h	32000 h	Frame material	aluminum
Regreasing device	Without		Net weight of the motor (IM B3)	12 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	(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	4 mm <sup>2</sup>
Material of terminal box	Aluminium	Main cable entry	1xM25x1.5
Type of terminal box	TB1 E00	Main cable gland	1 plug
Contact screw thread	3xM4		

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>B</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 I at full load  
3) Value is valid only for DOL operation with motor design IC411

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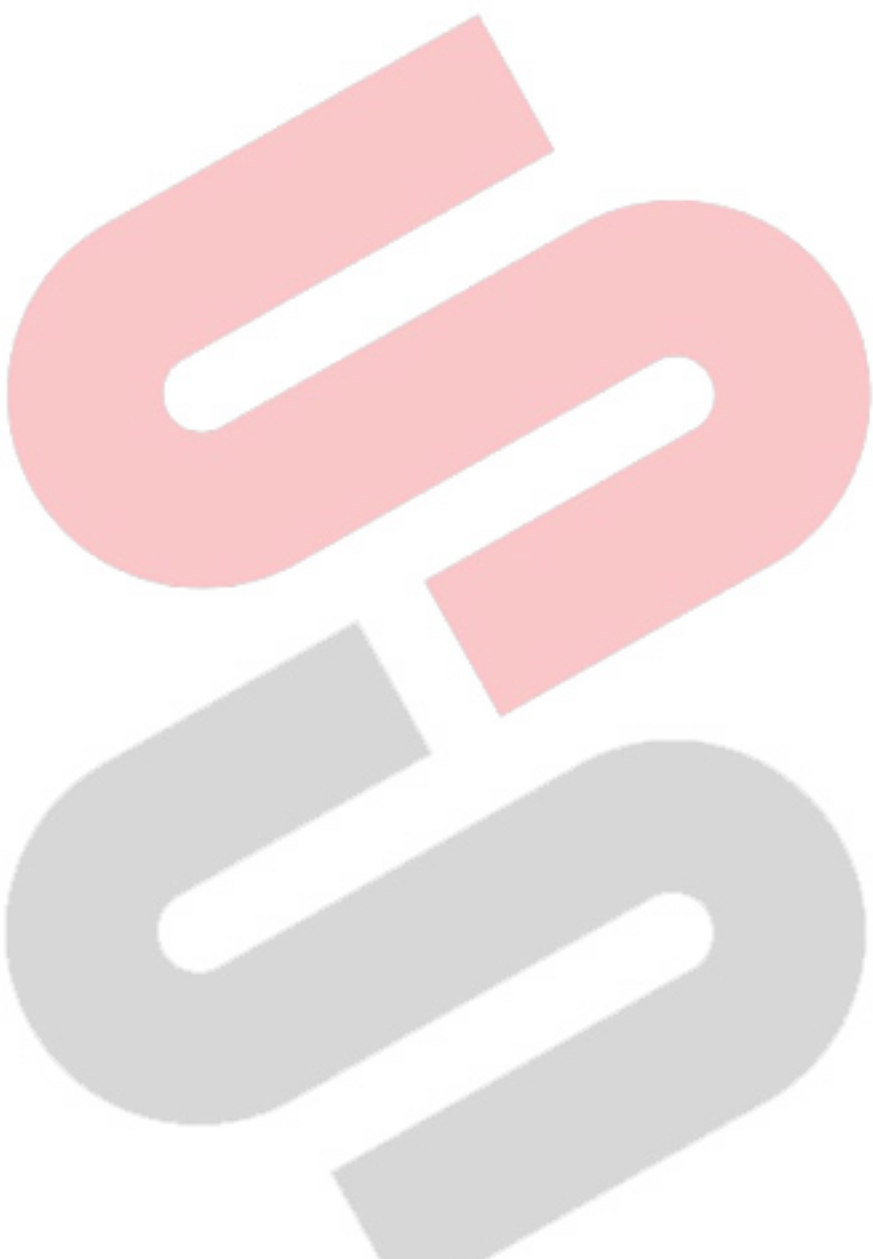


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Special design

B02	Acceptance test certificate 3.1 acc. to EN 10204	P01	Next larger standard flange
D31	Version according to UL with "Recognition Mark"		



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