



# ACS SERVO DRIVE / CONTROLLER & SERVO MOTORS

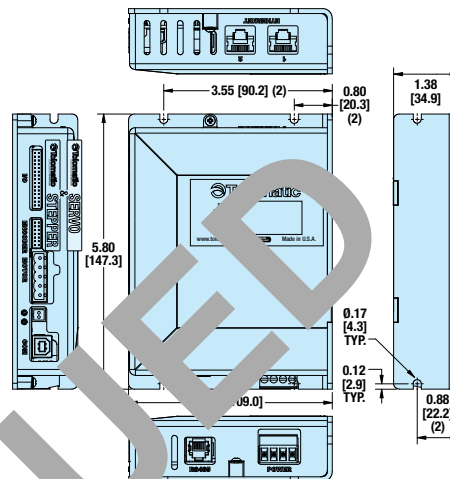
## Drive Specifications

DRIVE POWER	
Current - Continuous (Max)	10A
Current - Peak (Max)	20A
Voltage Nominal	10V - 60V
Over Voltage	65V
Under Voltage	9V
Absolute Maximum Voltage	70V
Logic Current Draw (24V)	200 mA

OPERATING CONDITIONS	
Ambient Temperature	25°C Nominal
Operating Temperature	0 - 40°C
Storage Temperature	0-70°C
Humidity	0 - 90% non-condensing
Weight	0.27 kg

See ACS Hardware and Installation Guide (Servo #3604-4181) for more details.

## Dimensions



## Motor Specifications

Servo Motors	Units	NEMA 23			NEMA 34	
		AMV2C1A1	AMV2C2A1	AMV2C3A1	AMV2C4A1	AMV2C5A1
<b>Continuous Torque</b>	N-m	0.30	0.50	0.81	1.68	1.12
<b>Peak Torque</b>	N-m	0.59	1.00	1.73	3.57	2.23
<b>Resistance</b>	Ohms	0.23	0.205	0.19	0.25	0.208
<b>Inductance</b>	mH	0.244	0.305	0.915	0.325	0.399
<b>Torque Constant (Kt)</b>	N-m/A	0.034	0.058	0.090	0.078	0.129
<b>Back EMF Constant (Ke)</b>	V/kRPM	3.570	6.000	10.000	8.190	13.5
<b>Max. Continuous Current</b>	Amps	10	10	9.52	10	10
<b>Max. RPM</b>	RPM	6,000	3,000	3,000	5,000	5,000
<b>Rotor Inertia</b>	kg-mm <sup>2</sup>	7.02	14.05	14.05	70.53	148.37
<b>Motor Weight</b>	kg	0.63	0.93	0.93	1.41	2.09
<b>Motor Poles</b>		8				
<b>Max Case Temp</b>		85°C				
<b>Encoder</b>		Differential 500 lines/rev (2000 counts per rev)				



See ACS brochure (#3600-4185) for dimensions and more details.



3D CAD available at [www.tolomatic.com](http://www.tolomatic.com)  
Always use configured CAD solid model to determine critical dimensions



**Tolomatic**<sup>TM</sup>  
EXCELLENCE IN MOTION

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### USA - Headquarters

**Tolomatic Inc.**  
3800 County Road 116  
Hamel, MN 55340, USA  
**Phone:** (763) 478-8000  
Toll-Free: **1-800-328-2174**  
sales@tolomatic.com  
[www.tolomatic.com](http://www.tolomatic.com)

### MEXICO

**Centro de Servicio**  
Parque Tecnológico Innovación  
Int. 23, Lateral Estatal 431,  
Santiago de Querétaro,  
El Marqués, México, C.P. 76246  
**Phone:** +1 (763) 478-8000  
help@tolomatic.com

### EUROPE

**Tolomatic Europe GmbH**  
Elisabethenstr. 20  
65428 Rüsselsheim  
Germany  
**Phone:** +49 6142 17604-0  
help@tolomatic.eu  
[www.tolomatic.com/de-de](http://www.tolomatic.com/de-de)

### CHINA

**Tolomatic Automation Products (Suzhou) Co. Ltd.**  
No. 60 Chuangye Street, Building 2  
Huqiu District, SND Suzhou  
Jiangsu 215011 - P.R. China  
**Phone:** +86 (512) 6750-8506  
TolomaticChina@tolomatic.com

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