



# ACS STEPPER DRIVE / CONTROLLER & STEPPER MOTORS

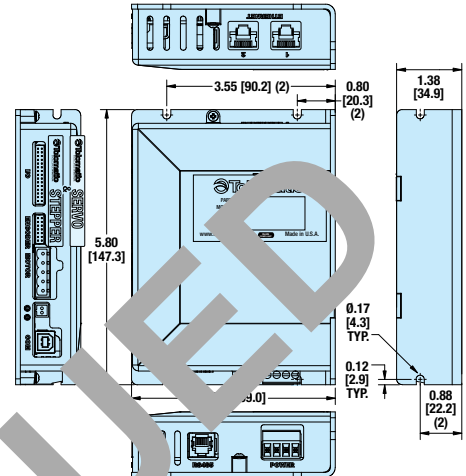
# ACS

## Drive Specifications

DRIVE POWER	
Current - Max	10 Amps
Voltage Nominal	10 - 52V
Over Voltage	55V
Under Voltage	9V
Absolute Maximum Voltage	60V
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

## Dimensions



See ACS Hardware and Installation Guide (Stepper #3604-4183) for more details.

## Motor Specifications

		NEMA 11	NEMA 17	NEMA 23		NEMA 34	
		AMS1A1	AMS1B1	AMS1C1	AMS1D1	AMS1D2	
<b>Resistance</b>	Ohms	3.5	2.4	1.5	0.9	0.138	0.188
<b>Inductance</b>	mH	2.3	4.5	3.7	1.5	1.13	2
<b>Rated Current</b>	Amps-Peak/Phase	1	1.5	2	2	10	10
<b>Max. Torque</b>	N-m	0.21	0.59	0.85	1.51	2.75	6.0
<b>Maximum RPM</b>		1800	2000	2000	2000	2000	1850
<b>Degree per Step</b>		1.8°	1.8°	1.8°	1.8°	1.8°	1.8°
<b>Rotor Inertia</b>	kg-mm <sup>2</sup>	1.76	8.19	21.95	38.92	94.82	159.78
<b>Motor Weight</b>	kg	0.20	0.6	0.55	1.00	1.60	2.70
<b>Motor Type</b>		Bipolar Stepper, 1.8° per Step					
<b>Encoder</b>		Differential; 500 line/rev (2000 count post quad)/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™

EXCELLENCE IN MOTION

COMPANY WITH QUALITY SYSTEM CERTIFIED BY DNV = ISO 9001 = Certified site: Hamel, MN

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