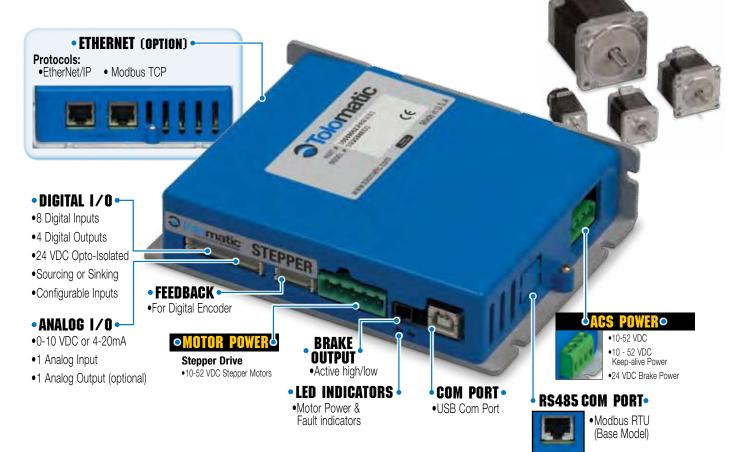


●ENDURANCE TECHNOLOGY
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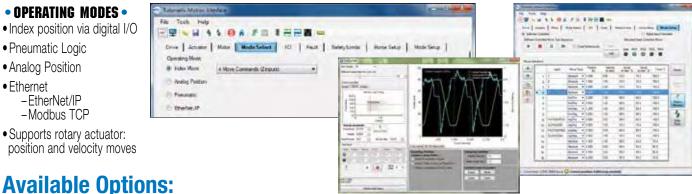
ACS

ACS STEPPER DRIVE/CONTROLLER & STEPPER MOTORS

The ACS is an extremely easy-to-use stepper drive/controller and motor developed specifically to be used with electric actuators. Mounted, configured and tested as a complete motion system when ordered with any Tolomatic electric actuator. The ACS can be controlled with simple digital I/O, analog input or robust industrial ethernet.



Easy to Use Operating Modes & Configuration Software



Cables

3m, 5m or 10m lengths

Planetary Gearboxes Available ratios - 3:1, 5:1, 10:1 **Power Supply** 48 VDC; 5 Amp or 10 Amp





ACS STEPPER DRIVE/CONTROLLER & STEPPER MOTORS

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					

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

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				

Motor Specifications

		NEMA 11	NEMA 17	NEMA 23		MA 23 NEMA 34	
		AMS1A1	AMS1B1	AMS1C1	AMS1C2	AMS1D1	AMS1D2
Resistance	Ohms	3.5	2.4	1.5	0.39	0.138	0.188
Inductance	mH	2.3	4.5	3.7	1.53	1.13	2
Rated Current	Amps-Peak/ Phase	1	1.5	2	5	10	10
Max. Torque	N-m	0.21	0.59	0.85	1.51	2.75	6.0
Maximum RPM		1800	2000	1200	2000	2000	1850
Degree per Step		1.8°	1.8°	1.8°	1.8°	1.8°	1.8°
Rotor Inertia	kg-mm ²	1.76	8.19	21.95	38.92	94.82	159.78
Motor Weight	kg	0.20	0.36	0.55	1.00	1.60	2.70
Ν	Notor Type	Bipolar Stepper, 1.8° per Step					

Encoder

Differential; 500 line/rev (2000 count post quad)/rev

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



3D CAD available at www.tolomatic.com Always use configurated

Always use configurated CAD solid model to determine critical dimensions

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EXCELLENCE IN MOTION

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