

## RSW60A-T3A Datasheet



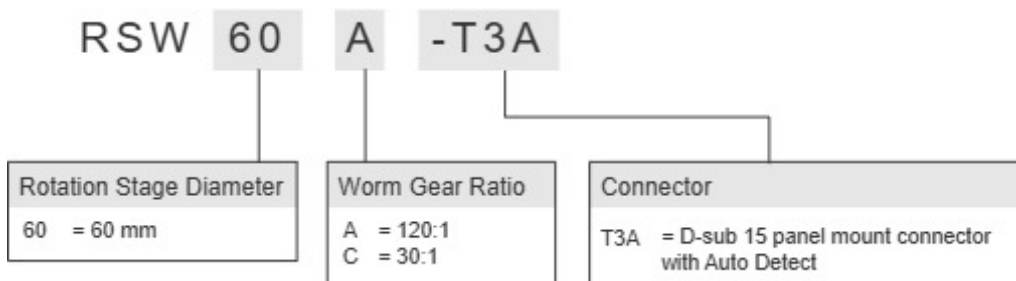
- Speed up to 75 rpm and torque up to 280 N-cm
- 23 mm aperture
- Worm gear driven for continuous rotation
- Two lens holders allow for use as a polarizer mount
- Designed for use with MCC Family controllers or any 2-phase stepper motor controller
- With AutoDetect, Zaber controllers automatically configure settings for the connected peripheral
- Custom versions available

## RSW Series Overview

Zaber's RSW precision motorized rotation stage is stepper motor and worm gear driven and capable of continuous rotation. The stages are designed to connect directly to our MCC Family universal motor controllers, or they can be used with any 2-phase stepper motor controller through the panel mount DB15 connector. Set up is easy with AutoDetect. Once connected, controller will automatically detect and configure the RSW.

For more information visit: <https://www.zaber.com/products/rotary-stages/RSW>

## RSW Series Part Numbering & Options



## RSW60A-T3A Drawings

- [RSW.png \(Dimension Drawing for the RSW\)](#)

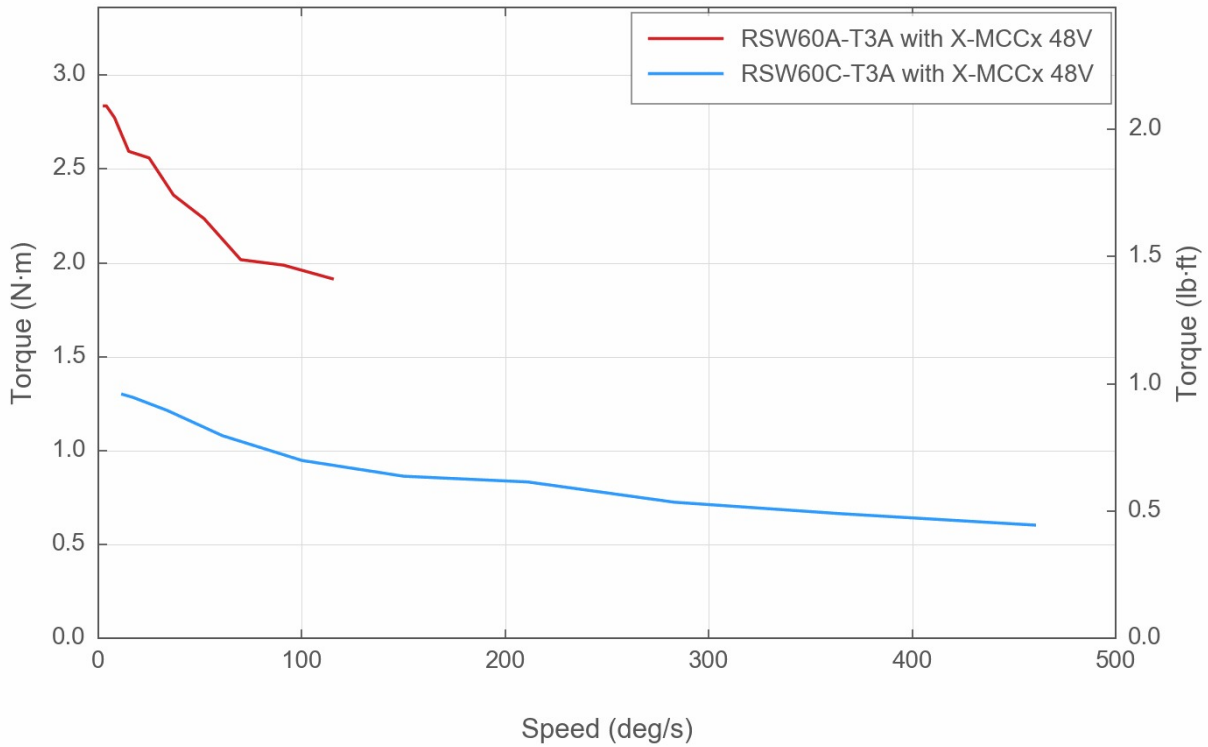
## RSW60A-T3A Specifications

<b>Microstep Size (Default Resolution)</b>	<b>0.000234375° (4.091 μrad)</b>
Built-in Controller	No
Recommended Controller	MCC (48 V) Recommended
AutoDetect	Yes
Range	360°
Accuracy (unidirectional)	0.08° (1.396000 mrad)
Repeatability	< 0.02° (< 0.349 mrad)
Backlash	< 0.04° (< 0.698 mrad)
Maximum Speed	115°/s (19 rpm)
Minimum Speed	0.000143°/s (2.496 μrad/s)
Speed Resolution	0.000143°/s (2.496 μrad/s)
Encoder Type	No
Maximum Continuous Torque	280 N-cm (396.5 oz-in)
Maximum Centered Load	200 N (44.9 lb)
Maximum Moment (Transverse)	410 N-cm (580.6 oz-in)
Stage Top Dimension	60 mm (2.362")
Radial Error Motion	+/- 4 μm (+/- 0.000157")
Axial Error Motion	< 4 μm (< 0.000157")
Tilt Error Motion	+/- 0.0033° (+/- 57.60 μrad)
Bearing Plane Offset	16.4 mm (0.646")
Angular Motion Per Motor Rev	3°
Motor Type	Stepper (2 phase)
Motor Rated Current	1500 mA/phase
Motor Winding Resistance	2.05 ohms/phase
Inductance	1 mH/phase
Motor Connection	D-sub 15
Default Resolution	1/64 of a step
Mechanical Drive System	Precision Worm Gear
Limit or Home Sensing	Magnetic home sensor
CE Compliant	Yes
Vacuum Compatible	No

Microstep Size (Default Resolution)	0.000234375° (4.091 μrad)
Weight	0.62 kg (1.367 lb)

## RSW Series Charts

### Torque Speed Performance



## Contact

Email: [contact@zaber.com](mailto:contact@zaber.com)

Phone (toll free Canada/USA): 1-888-276-8033

Phone (direct): 1-604-569-3780

Fax: 1-604-648-8033

Zaber Technologies Inc.

#2 - 605 West Kent Ave. N.

Vancouver, British Columbia

Canada, V6P 6T7

<https://www.zaber.com>