Series S

Low Capacity Toggle Switches

GENERAL SPECIFICATIONS FOR S4012, S200s, & S100s

Electrical Capacity (Resistive & Inductive Load)

Power Level: Shown in the following tables

Ratings

Contact Resistance: 10 milliohms maximum
Insulation Resistance: 200 megohms minimum @ 500V DC
Dielectric Strength: 1,000V AC minimum for S4012; 1,500V AC minimum for S200s & S100s
Mechanical Life: 30,000 operations minimum
Electrical Life: 10,000 operations minimum
Operating Temp Range: -10°C through +70°C (+14°F through +158°F)

Materials & Finishes

Toggle: Brass with chrome plating
Bushing: Brass with chrome plating
Case: Phenolic resin
Case Cover: Steel with zinc plating
Movable Contactor Plate: Copper with silver plating
Movable & Stationary Contacts: Silver alloy plus copper with silver plating
Terminals: Brass with silver plating

Standards & Certifications

UL Recognized: S4012 recognized at 6A @ 125V AC; UL File No. E44145
CSA Certified: S211 certified at 3A @ 125V AC and 1.5A @ 250V AC;
S114, S116 certified at 5A @ 125V AC and 2A @ 250V AC; CSA File No. LR23535

Installation

Mounting Torque: 30 kg/cm (26 lb/in) for double nut; 15 kg/cm (13 lb/in) for single nut
Soldering Time & Temperature: 3 seconds @ 350°C or 5 seconds @ 270°C

S4012

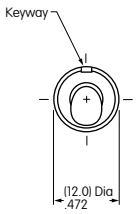
			Toggle Position/Connected Terminals			Electrical Capacity				
			Down (Keyway)	Center	Up	Resistive			Inductive	Angle of Throw
Model	Approvals	Pole & Throw				AC 125V	AC 250V	DC 30V	AC 125V PF 0.6	
S4012	cULus —	SPDT	ON 2-3	NONE	ON 2-1	6A	---	4A	---	18°

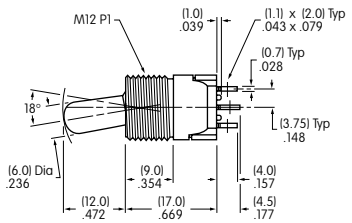
Throw & Schematic: SPDT

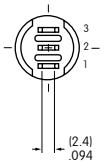
Note: Terminal numbers are on the switch.

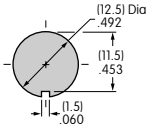
- Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware Index for details.
- Solder lug terminal hole accommodates two 20-gauge solid or stranded wire.

S4012









Max. Panel Thickness:
3.5mm (.138")

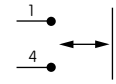
Series S

Low Capacity Toggle Switches

S211 & S211T

Model	Approvals	Pole & Throw	Toggle Position/Connected Terminals: Down (Keyway)	Center	Up	Electrical Capacity: Resistive AC 125V	Resistive AC 250V	Resistive DC 30V	Inductive AC 125V PF 0.6	Angle of Throw
S211	—	SPST	ON 1-4	NONE	OFF —	3A	1.5A	1.5A	1.5A	36°
S211T	—	SPST	ON 1-4	NONE	ON —	3A	1.5A	1.5A	1.5A	36°

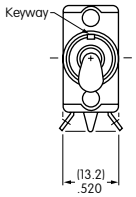
Throw & Schematic: SPST

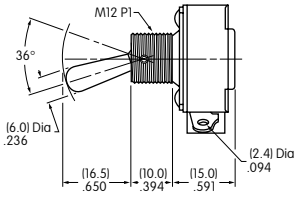


Note: Terminal numbers are on the switch.

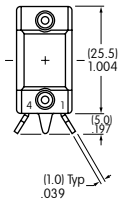
- Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware Index for details.
- Solder lug terminal hole accommodates one 12-gauge solid or stranded wire.

S211

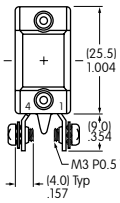


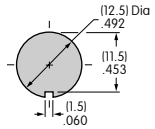


S211



S211T



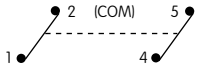


Max. Panel Thickness 3.9mm (.154")

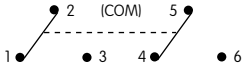
S114, S116, & S116R

Model	Approvals	Pole & Throw	Toggle Position/Connected Terminals: Down (Keyway)	Center	Up	Electrical Capacity: Resistive AC 125V	Resistive AC 250V	Resistive DC 30V	Inductive AC 125V PF 0.6	Angle of Throw
S114	—	DPST	ON 2-1 5-4	NONE	OFF —	5A	---	5A	3A	25°
S116	—	DPDT	ON 2-1 5-4	NONE	ON 2-3 5-6	5A	2A	5A	3A	25°
S116R	—	DPDT	ON 2-1 5-4	NONE	ON 2-3 5-6	5A	2A	5A	3A	25°

Throw & Schematic: DPST



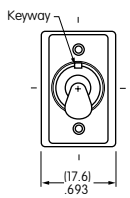
DPDT



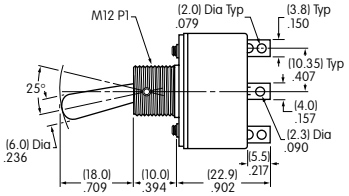
Note: Terminal numbers are on the switch.

- Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware Index for details.
- Solder lug terminal hole accommodates one 14-gauge solid or stranded wire.

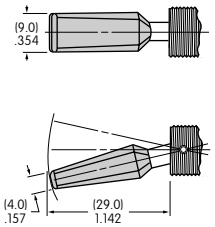
S116

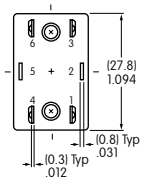


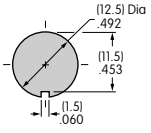
S114 & S116



S116R Black Polyamide Paddle







Max. Panel Thickness 4.0mm (.158")

S114 does not have terminals 3 & 6.