

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:** S4012 ~ 1,000V AC minimum for 1 minute minimum;
S200s & S100s ~ 1,500V AC minimum for 1 minute minimum
- 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 or nickel 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:** Copper with silver plating

Installation

- Mounting Torque:** 2.94Nm (26 lb•in) for double nut
- Soldering Time & Temperature:** Manual Soldering: 4 seconds maximum @ 410°C maximum

Standards & Certifications

- UL Recognized:** S4012 recognized at 6A @ 125V AC; UL File No. WOYR2.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. 023535-0-000

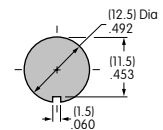
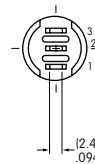
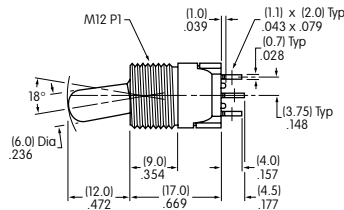
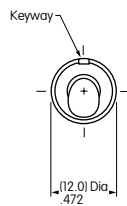
S4012

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

Throw & Schematics: SPDT

Note: Terminal numbers are actually on the switch.

- Standard Hardware: AT504 Knurled Nut, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.
- Solder lug terminal hole accommodates two 20-gauge solid or stranded wire.



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

S4012

S211 & S211T

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

Throw & Schematics:

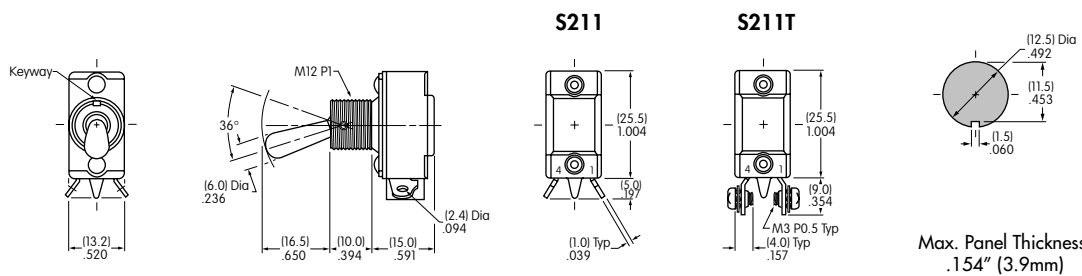
SPST

Note: Terminal numbers are actually on the switch.

- Standard Hardware: AT504 Knurled Nut, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.
- Solder lug terminal hole accommodates one 12-gauge solid or stranded wire.



S211



Max. Panel Thickness: .154" (3.9mm)

S114, S116, & S116R

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

DPST

DPDT

Note: Terminal numbers are actually on the switch.

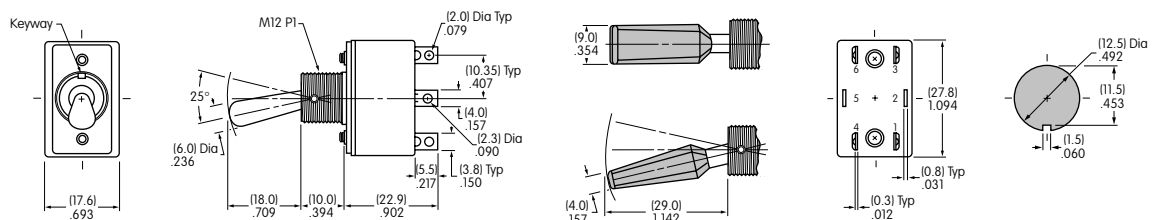
- Standard Hardware: AT504 Knurled Nut, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.
- Solder lug terminal hole accommodates one 14-gauge solid or stranded wire.

S114 & S116

S116R Black Polyamide Paddle



S116



Max. Panel Thickness: .158" (4.0mm)

S114 does not have terminals 3 & 6.