

## GENERAL SPECIFICATIONS FOR S100s

A  
Toggles

Rockers

Pushbuttons

Illuminated PB

Programmable

Keylocks

Rotaries

Slides

Tactiles

Tilt

Touch

Indicators

Accessories

Supplement

### Electrical Capacity (Resistive & Inductive Load)

**Power Level:** Shown in the following table

### Other Ratings

|                               |  |
|-------------------------------|--|
| <b>Contact Resistance:</b>    | 10 milliohms maximum                       |
| <b>Insulation Resistance:</b> | 200 megohms minimum @ 500V DC              |
| <b>Dielectric Strength:</b>   | 1,500V AC minimum for 1 minute minimum     |
| <b>Mechanical Life:</b>       | 30,000 operations minimum                  |
| <b>Electrical Life:</b>       | 10,000 operations minimum                  |
| <b>Operating Temp Range:</b>  | -10°C through +70°C (+14°F through +158°F) |

### Materials & Finishes

|   |  |
|---|--|
| <b>Toggle:</b>                            | Brass with chrome plating                    |
| <b>Bushing:</b>                           | Brass with chrome or nickel plating          |
| <b>Case:</b>                              | Phenolic resin                               |
| <b>Case Cover:</b>                        | Steel with zinc plating                      |
| <b>Movable Contactor Plate:</b>           | Copper with silver plating                   |
| <b>Movable &amp; Stationary Contacts:</b> | Silver alloy plus copper with silver plating |
| <b>Terminals:</b>                         | Copper with silver plating                   |

### Environmental Data

**Operating Temp Range:** -10°C through +70°C (+14°F through +158°F)






### Installation

|  |  |
|--|--|
| <b>Mounting Torque:</b>                  | 2.94Nm (26 lb•in) for double nut                       |
| <b>Soldering Time &amp; Temperature:</b> | Manual Soldering: See Profile A in Supplement section. |

### Standards & Certifications

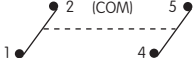
**CSA:** File No. 023535\_0\_000 - Certified only when ordered with marking on switch.  
Add "/C" to end of part number to order CSA certified switch.  
Certified at 5A @ 125V AC & 2A @ 250V AC.

### DOUBLE POLE WITH SOLDER LUG

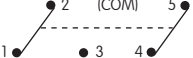
| * CSA certified only when ordered with marking on switch (see General Specs) |   |   |              | Toggle Position/Connected Terminals   |   |   |         | Electrical Capacity |           |                |    |           |                |
|--|---|---|--------------|---|---|---|---------|---------------------|-----------|----------------|----|-----------|----------------|
| Model  | * Approvals   |   | Pole & Throw | Down  |   | Center  | Up      |                     | Resistive |                |    | Inductive | Angle of Throw |
|  |  |  |              |  |  |  | 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



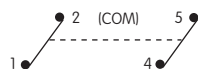
DPDT



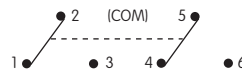
Note: Terminal numbers are actually on the switch

Throw & Schematics:

DPST



DPDT



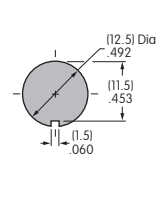
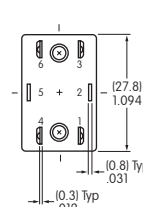
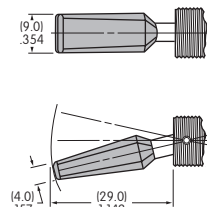
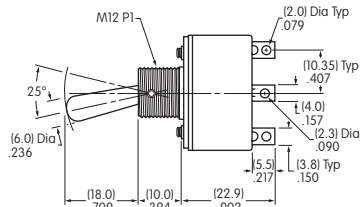
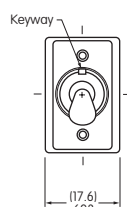
Note: Terminal numbers are actually on the switch

**Notes:** Standard Hardware: AT504M Knurled Nut, AT508 Lockwasher, AT527M Backup Hex Nut. See Accessories & Hardware section.

Optional Splashproof Boot Assemblies (only for bat lever models): AT401 & AT4181 boots plus hex nut and o-ring. See Accessories & Hardware section.

#### S114 & S116

#### S116R Black Polyamide Paddle



S116

S114 does not have terminals 3 & 6

Maximum Panel Thickness: .158" (4.0mm)