Low & Medium Security Keylocks

Series SK

General Specifications

Electrical Capacity (Resistive Load)
- Power Level (silver): 3A @ 125V AC for low & medium security; 1A @ 250V AC for low security

Other Ratings
- Contact Resistance: 10 milliohms maximum
- Insulation Resistance: 1,000 megohms minimum @ 500V DC
- Dielectric Strength: 1,000V AC minimum between contacts for 1 minute minimum; 1,500V AC minimum between contacts & case for 1 minute minimum
- Mechanical Life: 30,000 cycles minimum
- Electrical Life: 10,000 cycles minimum
- Nominal Operating Torque: .026Nm (.234 lb-in) for low & medium security
- Contact Timing: Break-before-make
- Angle of Throw: 90° for 2-position & 45° for 3-position

Materials & Finishes
- Key: Zinc alloy with chrome plating (matte) for low security models; brass with nickel plating (shiny) for medium security models
- Tumbler Barrel: Zinc alloy with chrome plating (matte) for low security models; zinc alloy with chrome plating (shiny) for medium security models
- Housing/Bushing: Zinc alloy with chrome plating (matte) for low security models; zinc alloy with chrome plating (shiny) for medium security models
- Base: Phenolic resin (thermoset)
- Movable Contactor: Silver
- Stationary Contacts: Silver capped copper with silver plating
- Terminals: Copper or brass with silver plating

Environmental Data
- Operating Temperature Range: –25°C through +70°C (–13°F through +158°F)
- Humidity: 90 ~ 95% humidity for 96 hours @ 40°C (104°F)
- Vibration: 10 ~ 55Hz with peak-to-peak amplitude of 1.5mm traversing the frequency range & returning in 1 minute; 3 right angled directions for 2 hours
- Shock: 50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation
- Mounting Torque: 1.5Nm (13.28 lb-in) maximum

Standards & Certifications
- UL: File No. E44145 - Recognized only when ordered with marking on switch. Add “/U” or “/CUL” to end of part number to order UL recognized switch. All low security models recognized at 3A @ 125V AC or 1A @ 250V AC & all medium security models recognized at 3A @ 125V AC
- 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. All low security models certified at 3A @ 125V AC or 1A @ 250V AC
Distinctive Characteristics

12mm diameter bushing for easy panel cutout preparation and high density mounting.

Epoxy sealed terminals prevent entry of flux and other contaminants.

Short behind panel dimension - only 1.063” (27.0mm).

High dielectric strength of 1,500 volts between contacts and case.

Detent mechanism gives crisp, positive action for accurate switch setting.

Dust resistant interior construction protects contacts.
TYPICAL SWITCH ORDERING EXAMPLE

SK12BAW01

Silver Contacts
Rated 3A @ 125V AC
Low Security Lock Mechanism
2 keys supplied with each switch

IMPORTANT:
Switches are supplied without UL, cULus & CSA marking unless specified. UL, cULus & CSA recognized only when ordered with marking on the switch. Specific models, ratings, & ordering instructions are noted on the General Specifications page.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

Silver Contacts
Rated 3A @ 125V AC
Low Security Lock Mechanism
2 keys supplied with each switch

Solder Lug Terminals
SPDT ON-NONE-ON Circuit
Key Removable in Position 1

Contact Material
W Silver
Rated 3A @ 125V AC

Lock Mechanisms
A Low Security
D Medium Security (not combinable with code 3D circuit)

Circuits & Key-Removable Positions
<table>
<thead>
<tr>
<th>Code</th>
<th>Pos. 1</th>
<th>Pos. 2</th>
<th>Pos. 3</th>
<th>Key Removes</th>
</tr>
</thead>
<tbody>
<tr>
<td>2A</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
<td>Positions 1 and 3</td>
</tr>
<tr>
<td>2B</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
<td>Position 1</td>
</tr>
<tr>
<td>3D</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>Positions 1, 2, 3</td>
</tr>
<tr>
<td>3E</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
<td>Position 2</td>
</tr>
</tbody>
</table>

Terminals
01 Solder Lug

Poles
1 SPDT

TYPICAL SWITCH ORDERING EXAMPLE

SK 1 2B A W 01

F

F11

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Series SK
Low & Medium Security Keylocks

POLES, CIRCUITS & KEY-REMOVABLE POSITIONS

<table>
<thead>
<tr>
<th>Pole &amp; Throw</th>
<th>Model</th>
<th>Key Positions</th>
<th>Connected Terminals</th>
<th>Schematic</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Pos 1</td>
<td>Pos 2</td>
<td>Pos 3</td>
</tr>
<tr>
<td>SPDT</td>
<td>SK12A</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>SPDT</td>
<td>SK12B</td>
<td>ON</td>
<td>NONE</td>
<td>ON</td>
</tr>
<tr>
<td>SPDT</td>
<td>*SK13D</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
<tr>
<td>SPDT</td>
<td>SK13E</td>
<td>ON</td>
<td>OFF</td>
<td>ON</td>
</tr>
</tbody>
</table>

* Available with low security only

KEY REMOVABLE

A Positions 1 & 3 90° Angular Throw
B Position 1 90° Angular Throw
D Positions 1, 2 & 3 45° Angular Throw
E Position 2 45° Angular Throw

LOCK MECHANISMS & KEYS

A Low Security Mechanism
Zinc Alloy with Chrome Plating (matte finish)
Two keys provided with each switch
(for master key available)
For ordering additional keys:
AT4081 for SK12A and SK12B, marked “1201”
AT4082 for SK13D and SK13E, marked “1301”

D Medium Security Mechanism
Brass with Nickel Plating (shiny finish)
One key provided with each switch
(no master key available)
For ordering additional keys, indicate the same key number that is engraved on the face of your switch.
Key numbers (001 through 010) randomly assigned.

Typical Key Ordering Example:
AT4124-001
Low & Medium Security Keylocks

Series SK

CONTACT MATERIALS, RATINGS, & TERMINALS

W
Silver over Silver

Power Level
3A @ 125V AC

01
Solder Lug Terminals

TYPICAL SWITCH DIMENSIONS

Low Security • 90° Angular Throw

SK12BAW01

Low Security • 45° Angular Throw

SK13EAW01
**Series SK**  
Low & Medium Security Keylocks

### TYPICAL SWITCH DIMENSIONS

**Medium Security • 90° Angular Throw**

![SK12ADW01](image)

**Medium Security • 45° Angular Throw**

![SK13EDW01](image)

### PANEL CUTOUT & THICKNESS

The 12mm bushing is .512" (13.0mm) long. It allows mounting these devices in a maximum effective panel thickness of .315" (8.0mm).

### STANDARD HARDWARE

**AT527M**  
Hex Mounting Nut

1 included with each switch  
Steel with nickel plating

**AT508**  
Internal Tooth Lockwasher

1 included with each switch  
Steel with zinc/chromate plating