Special Devices

Snap Switch



High Capacity Switch



Panel Board Switch



Keylock



Locking Rocker



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Product Description

These non-illuminated pushbutton actuators complement our S Series snap switch line. The actuators are available in three different non-illuminated versions. The line is complete with attractive colored pushbutton caps for color coding applications.

Two of the series of superstructures are available with attractive mounting collars. They come in a variety of colors and act as a protective collar around the operating button to prevent accidental operation of the switch. These superstructures are designed for installation in a 0.475 in (12.07 mm) diameter mounting hole. All series are supplied with a flat surface on the bushing to prevent rotation. In the series requiring the mounting collar, the collar itself is the facenut tightening the switch/superstructure assembly down to the panel.

Options

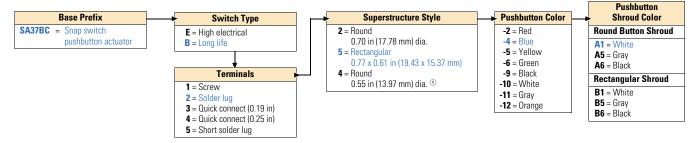
- NO and NC circuits
- Pad printed buttons
- · Other colors available
- · PC terminals available
- Round 0.700 in (17.78 mm) button, different heights

Catalog Number Selection

How To Order—Snap Switch Pushbutton Actuators

To determine complete catalog number, start with the appropriate base and add the appropriate code letters and/or numbers.

Example: **SA37BC B 2 5 -4 A1**



Note

1 Not available with decorative shroud.

Technical Data and Specifications

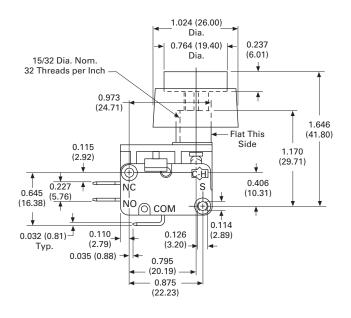
Snap Switch Pushbutton Actuators - High Electrical and Long Life

Description	High Electrical	Long Life
Number of poles	1 (one snap switch) momentary	1 (one snap switch) momentary
Electrical rating		
UL recognized and CSA certified	15A, 125–250 Vac 1/2 hp, 125–250 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc	10A, 125–250 Vac 1/3 hp, 125–250 Vac 1/2A, 125 Vdc 1/4A, 250 Vdc
28 Vdc	Sea level: 10A, resistive or inductive 6A, motor load 50,000 ft: 10A, resistive/6A inductive	Sea level: 10A, resistive or 6A inductive 6A, motor load 3.6A, lamp load 50,000 ft: 10A, resistive/6A inductive
Operation characteristics		
Operation force	6 to 14 oz	8 oz max.
Release force	4 oz min.	2 oz min.
Pretravel	0.05 in (1.19 mm) max.	0.05 in (1.19 mm) max.
Differential travel	0.02 in (0.41 mm) max.	0.02 in (0.41 mm) max.
Overtravel	0.04 in (1.01 mm) min.	0.04 in (1.01 mm) min.
Mechanical life	150,000 operations min. with min. median of 1 million	1 million operations min. with min. median of 10 million
Operation position	0.58 in ± 0.02 in (14.7 mm ± 0.5 mm)	0.58 in ± 0.02 in (14.7 mm ± 0.5 mm)
Free position	0.64 in (16.2 mm) max.	0.64 in (16.2 mm) max.

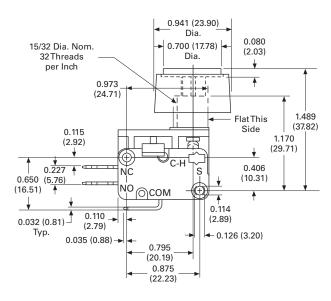
Dimensions

Approximate Dimensions in Inches (mm)

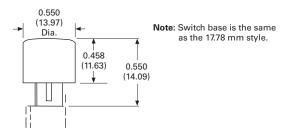
Rectangular Cap Style



Round Cap Style-0.70 in (17.78 mm)



Round Cap Style - 0.55 in (14.0 mm)



High Capacity Switch



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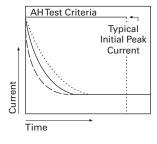
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Product Overview

Capacitive loads will result in a current inrush far exceeding normal operating current. In fact, the typical capacitive load inrush current is potentially more damaging to a switch than a typical inductive load inrush. The major difference is that the capacitive load can reach maximum inrush sooner. Generally, peak inductive load current inrush occurs after any switch contact bounce has subsided.

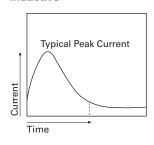
In a capacitive load, however, switch contact bounce could occur at the same time as maximum current inrush, increasing the possibility of arcing and of welding the switch contact. Eaton has addressed this problem with its high inrush switch.

Capacitive



By combining innovative design and quality materials, this switch is designed to carry the specified maximum inrush current for 10 milliseconds for a minimum of 20,000 ON/OFF cycles.

Inductive



Product Description

The heavy duty high capacity switch, Catalog Number 7818K1 is ideal for exceptionally high-power applications, for heavy-duty motor loads and for use in welding equipment or similar industrial applications.

Standards and Certifications

• UL to Standard 508, File E147754



Product Selection



High Capacity Switch

Description	Catalog Number
40A, 600 Vac 5 hp, 250 Vac	7818K1

Technical Data and Specifications

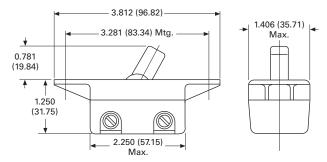
High Capacity Switches

Description	Specification
Rating	See Product Selection table; 40A, 600 Vac/5 hp, 250 Vac
Circuits	2PST, maintained
Contact mechanism	Quick-make/quick-break snap acting butt contact Make: 200A peak inrush at 125 Vac for 10 ms for 20,000 cycles minimum Break: 20A at 125 Vac for 20,000 cycles minimum
Contact material	10% silver cadmium oxide composite
Terminal types	Screw—brass (Catalog Number 11-6074-4) supplied. Furnish unassembled
Mounting means	Molded flush mounting bracket, high impact polycarbonate, 3.312 in (84.12 mm), center-to-center spacing and 2.375 in (60.33 mm) spacing for self-tapping screws
Lever	Nylon
Base	Molded thermoset material
Dielectric withstand	2200V rms minimum

Dimensions

Approximate Dimensions in Inches (mm)

7818K1



Panel Board Switches



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Product Description

This group of two-position power toggle switches is used by manufacturers in a wide variety of applications that require dependability and long service, such as welding equipment, commercial floor polishers, battery chargers, food processors and panelboards.

Standards and **Certifications**

- UL Recognized
- CSA Certified as noted





Product Selection

8980K1

Panelboard Switches











Rating	Poles and Throw	Mounting	Terminals	Catalog Number
60A, 250 Vac/Vdc 2 hp, 125–250 Vac/Vdc ^①	2PST	N/A	N/A	8980K1 ^②
30A, 250 Vac/Vdc	1P double break	Frame plate	Center bus	8980K2
30A, 125V "T" 2 hp, 120–240 Vac	1P quad break	Frame plate	Center bus	8980K3
30A, 250 Vac/Vdc 20A, 600 Vac 2 hp, 120–600 Vac	2PST	Panel type strap	Screw	8980K5
30A, 250 Vac/Vdc 20A, 600 Vac 2 hp, 120–600 Vac Three-phase	3PST	Panel type	Screw	8980K6
20A, 120–240 Vac 2 hp, 240 Vac	2PST (NO)	Panel type strap	Screw	8980K13 ²³
30A, 250 Vac/Vdc 2 hp, 120–240 Vac 1 hp, 480 Vac	2PST	Panel type strap	Screw	8980K14 [®]
30A, 250 Vac/Vdc 2 hp, 120–240 Vac	2PST	Panel type strap	Screw	8980K16

Technical Data and Specifications

Panelboard Switches

Description	Specification	
Rating	10–60A; 120–600V See Product Selection table	
Circuits	1PST, 2PST, 3PST 2 circuit, maintained Except for Catalog Number 8980K13, momentary	
Contact mechanism	Quick-make/quick-break wiping action Except for Catalog Number 8980K13, quick-make/quick-break butt contact	
Contact material	Movable—bronze; stationary—copper; Catalog Number 8980K13—silver	
Terminal types	Screw or bus	
Termination material	Copper	
Mounting means	Two-hole mounting—panel type flush	
Dielectric withstand	1000 volts rms minimum	
Operating temperature range	0° to 150°F (–17.8° to 65.6°C)	

Notes

- $^{\scriptsize \textcircled{1}}$ For appliance use only; 32A, 480 Vac, 25A, 600 Vac.
- © CSA Certified.
- ³ Suitable for side or back wiring.
- Binding screws assembled. For binding screws provided unassembled, order Catalog Number 8980K30.

General Purpose and Heavy Duty Keylocks



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Product Description

General Purpose

These keylock switches provide reliable performance in a space-saving design. They all use quick-make/ quick-break switching mechanisms, with wiping action blades for self-cleaning contacts.

Heavy Duty

These switches have a slow-make/slow-break switching mechanism with large butt type contacts. Their high current switching capability allows them to be used for locking switching circuits in power applications.

Features

Termination Types

General Purpose

Solder lugs—Brass silverplated

Heavy Duty

• 7842 Series

Screw terminals—Brass designed to accept #7-32 x 3/16 binding head (Cat. No. **11-6085-2**) screws

Furnished unassembled

7846 Series
 Quick connect terminals—
 Brass

Mounting Means

General Purpose

Threaded bushing—0.468 in (11.89 mm) dia.

Keyway—0.062–0.067 in wide x 0.035–0.370 deep (1.55–1.70 mm wide x 0.89–0.94 mm deep

Hardware supplied— 1 hexnut (Cat. No. **15-192**) and 1 chamfered dress nut (Cat. No. **15-994-2**)

Furnished unassembled

Heavy Duty

• 7842 Series Slotted bushing—0.468 in (11.89 mm) dia.

Hardware supplied— 4 terminal screws (Cat. No. 11-6085-2) and 1 hexnut (Cat. No. 15-2525-58)

Furnished unassembled

• 7846 Series
Hardware supplied—
2 hexnuts (Cat. No.
15-2525-59)

Product Selection



General Purpose Keylock AC/DC Switches

Circuit with Key in ... (Keyway Down) CENTER Key **Poles and** LEFT Position RIGHT Removal **Solder Lug Terminal** Rating Position Position Catalog Number Throw (Keyway) Position 6A, 125 Vac/Vdc 3A, 250 Vac/Vdc 1PST OFF ON 8928K492 CENTER CENTER and RIGHT OFF ON 8928K493 6A, 125 Vac/Vdc 1PDT ON ON CENTER and RIGHT 8928K494 1A, 250 Vac/Vdc 6A, 125 Vac/Vdc 1PDT ON ON CENTER 8283K150 1-1/2A, 250 Vdc 6A, 125 Vac/Vdc 2PST OFF ON CENTER 8370K150 8370K151 3A, 250 Vdc ON OFF CENTER ON OFF LEFT 8370K152 6A, 125 Vac/Vdc 2PST OFF ON CENTER and RIGHT 8928K495 3A, 250 Vac/Vdc 6A, 125 Vac/Vdc 2PDT ON CENTER 8373K150 ON ON ON CENTER and RIGHT 8373K151 3A, 250 Vdc



Heavy Duty Keylock AC Rated Switches

Rating	Circuit	Action	Key Removal Position	Slotted Bu Inches	ishing Length mm	Type of Termination	Key Style	Catalog Number
7846 Type Series	;							
20A, 120 Vac 20A, 240 Vac 1-1/2 hp, 120 Vac 2 hp, 240 Vac	2PST	OFF-ON-OFF-ON	OFF	0.50	12.7	Quick Connect	E (13-8173)	7846K1 ^①

Note

On the CSA Certified.

Accessories

Keys for Locking Switches

Additional keys may be ordered from the Key Selection table.

Key styles shown match those listed for specific switches in the Product Selection tables.



Key Selection

Where Used	Catalog Number
General purpose and heavy duty series	13-5496
Security locking bracket	13-8171
7846K1	13-8173

Rotary Keylock Brackets— Security Tumbler Type

This series of rotary keylock is designed for use in security applications. They provide a simple method of converting single- and two-pole toggle switches. For use with two-or three-position switches.

Key Selection

Where Used	Catalog Number
Key removable in counter- clockwise position	8980P25
Key removable in center position	8980P6
Key removable in clockwise position	8980P27
Key removable in either extreme position	8980P28

Technical Data and Specifications

Keylock Switches, General Purpose/Heavy Duty—AC/DC Rated

Description	General Purpose	Heavy Duty
Circuits	1PST, 1PDT, 2PST, 2PDT Maintained action	2PST, 2-circuit maintained
Contact mechanism	Quick-make/quick-break wiping action	Slow-make/slow-break butt contact
Contact material	Movable—Bronze silver-plated Stationary—Brass silver-plated	Movable—Silver cadmium oxide Stationary—Silver cadmium oxide

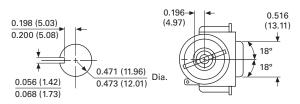
Rotary Keylock Brackets

Description	Specification
Bushing	7/8 in dia., 24 threads/inch
Mounting hardware and keys	
1 hexagon locknut	Cat. No. 15-2528-2
1 bright chrome plated dress nut	Cat. No. 15-2528-2 (furnished unassembled)
2 keys	Cat. No. 13-8171
Finish	
Lock bushing	Diecast zinc
Lock barrel and dress nut	Chrome plated brass
Keys	Brass

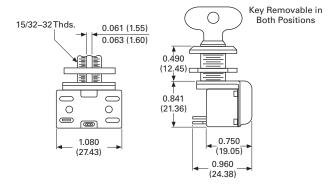
Dimensions

Approximate Dimensions in Inches (mm)

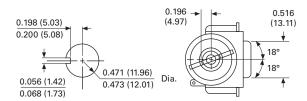
8928K493-1PST/1PDT



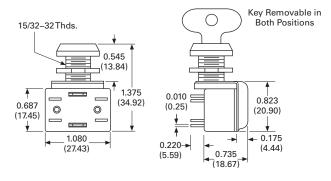
Mtg. Hole



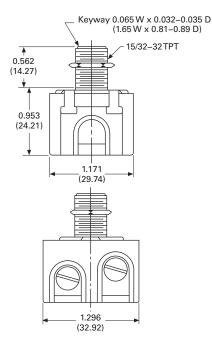
8373K151-2PST/2PDT



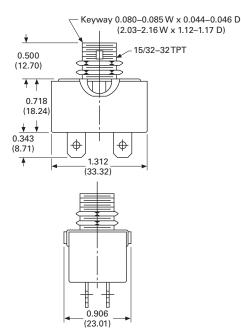
Mtg. Hole



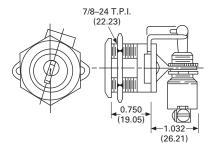
7842K2-2PST



7846K1-2PST



8980P27



Locking Rockers



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Product Description

This unique switch features a patented internal locking mechanism, which allows the switch to be locked in the OFF position to prevent unauthorized or accidental operation. The key to locking

or unlocking the switch is a removable paddle rocker cap, which must be inserted in order to move the switch to the ON position. The switch can still be turned OFF.

The locking rocker is ideally suited for such markets as portable tools, computers, lawn and garden equipment, marine and construction.

Standards and Certifications

- UL Recognized
- CSA Certified
- RoHS Compliant ^①







Note: Contact your local Eaton Sales Representative for selection information and optional features.

Product Selection

Locking Rocker Switch

Rating ^②	Poles and Throw	Circuit with Roc UP Position	ker in CENTER Position	DOWN	Base Circuit (See Page V11-T5-13)	Catalog Number
Without Palm	Guard Feature					
20A, 125 Vac 20A, 250 Vac 1 hp, 125 Vac 2 hp, 250 Vac	1PST	ON	NONE	OFF	А	8166K27
	1PDT	ON	NONE	ON	В	8166K28
	2PST	ON	NONE	OFF	С	8166K25
	2PDT	ON	NONE	ON	D	8166K26
With Palm Gu	ıard Feature					
20A, 125 Vac 20A, 250 Vac 1 hp, 125 Vac 2 hp, 250 Vac	1PST	ON	NONE	OFF	A	8166K23
	1PDT	ON	NONE	ON	В	8166K24
	2PST	ON	NONE	OFF	С	8166K21
	2PDT	ON	NONE	ON	D	8166K22

Notes

- ① Visit www.eaton.com/vcbu for the most up-to-date list of verified part numbers.
- Ratings listed for 125 Vac also apply at 28 Vdc. Also supplied with a 20A, 277 Vac rating as standard.

Technical Data and Specifications

Locking Rocker Switch

Description	Specification
Contact mechanism	Butt action contact mechanism designed specifically for use on AC and low voltage DC applications
Contact material	Movable—Silver-plated copper w/cad-oxide contact face button Stationary—Copper w/cad-oxide contact face button
Terminal types	0.25 in spade terminals are standard
Rocker material	Custom styled, red thermoplastic rocker key with "REMOVE TO LOCK" across the top of the key in raised letters
Dielectric	1000V rms minimum

Circuit Diagrams

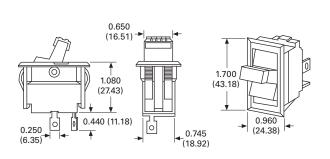
Locking Rocker Circuit Diagrams

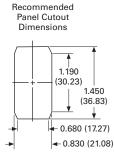
Circuit Letter	Schematic	Circuit Letter	Schematic
A 1PST	\int_3^2	C 2PST	2-2-5 3-6
B 1PDT	\$\frac{1}{2} \\ •3	D 2PDT	1 4 2 5 •3 •6

Dimensions

Approximate Dimensions in Inches (mm)

Locking Rocker Switch without Palm Guard





Locking Rocker Switch with Palm Guard

