# General Specifications

### **Electrical Capacity (Resistive Load)**

Power Level (silver):	3A @ 125V AC for silver contacts
Logic Level (gold):	0.4VA maximum @ 28V AC/DC maximum for gold contacts
	(Applicable Range 0.1mA ~ 0.1A @ 20mV ~ 28V)
	Note: Find additional explanation of operating range in Supplement section.

#### Other Ratings

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Contact Resistance:	10 milliohms maximum for silver; 20 milliohms maximum for gold
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 and case for 1 minute minimum
Mechanical Life:	100,000 operations minimum
Electrical Life:	25,000 operations minimum for silver;
	50,000 operations minimum for gold
Nominal Operating Force:	Single Pole: 2.35N for Momentary and 2.65N for Alternate Action
	Double Pole: 2.94N for Momentary and 3.63N for Alternate Action
Travel:	Momentary: Pretravel .047" (1.2mm); Overtravel .016" (0.4mm); Total Travel .063" (1.6mm)
	Alternate: Pretravel .071" (1.8mm); Overtravel .016" (0.4mm); Total Travel .087" (2.2mm)

### **Materials & Finishes**

Plunger:	Brass with nickel plating
Bushing:	Brass with nickel plating
Frame:	Stainless steel
Case:	Melamine phenolic resin (UL94V-0)
Movable Contacts:	Copper with silver or gold plating
Stationary Contacts:	Silver & copper with silver or gold plating
Terminals:	Copper with silver or gold plating

### **Environmental Data**

<b>Operating Temp Range:</b>	–10°C through +70°C (+14°F through +158°F)
Operating temp kange.	
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:	$50G (490m/s^2)$ acceleration (tested in 6 right analed directions, with 5 shocks in each direction)

#### Installation

Mounting Torque:	1.47Nm (13.0 lb•in) for double nut; 0.68Nm (6.0 lb•in) for single nut
Cap Installation Force:	78.5N (17.65 lbf) maximum downward force on actuator
Soldering Time & Temp:	Wave Solder (Straight PC): See Profile B in Supplement section.
	Manual Soldering: See Profile B in Supplement section.
Cleaning:	These devices are not process sealed. Hand clean locally using alcohol based solution.

### **Standards & Certifications**

Flammability Standards:	UL94V-0 case
UL:	File No. E44145 - Recognized only when ordered with marking on switch.
	Add "/U" or "/CUL" before first dash in part number to order UL recognized switch.
	All single and double pole models recognized at 3A @ 125V AC.
CSA:	File No. 023535_0_000 - Certified only when ordered with marking on switch.
	Add "/C" before first dash in part number to order CSA certified switch.
	Single pole solder lug and PC models certified at 3A @ 125V AC; double pole PC models certified
	at 3A @ 125V AC.



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Toggles

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Touch

Indicators

Supplement Accessories

Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

**Factiles** 

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Touch

Indicators

## Distinctive Characteristics

Power and logic level capabilities available to suit varying applications.

Bushing and snap-in mount versions available; snap-in models offer many style and color choices to enhance front panel appearance.

Light touch actuation.

High torque bushing prevents rotation and separation from metal frame during installation.

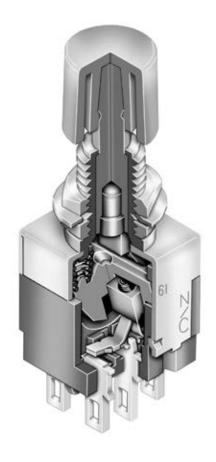
Stainless steel frame resists corrosion.

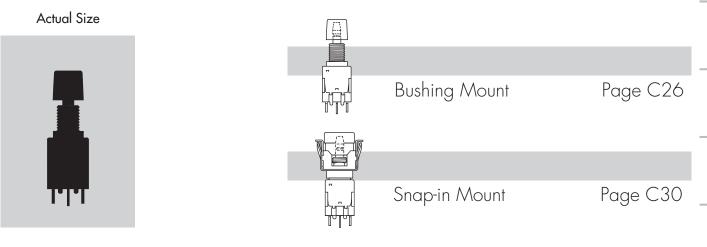
Case of heat resistant resin meets UL 94V-0 flammability rating.

Higher insulating barriers protect against crossover in double pole devices.

1,500V dielectric strength between contacts and case is accomplished by clinching the frame away from the terminals.

Epoxy sealed terminals prevent entry of solder flux and other contaminants.







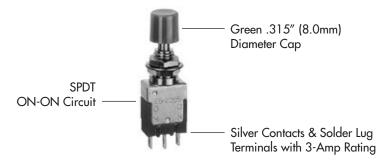
#### Toggles TYPICAL SWITCH ORDERING EXAMPLE Rockers **EB20** P Ô Keylocks Programmable Illuminated PB Pushbuttons C **Poles & Circuits** Caps 11 SPDT ON (ON) В .315" (8.0mm) Dia. 65 SPDT ON ON С .394" (10.0mm) Dia. DPDT 61 ON (ON) DPDT 85 ON ON ) = Momentary ( Colors Contacts, Ratings, & Terminals Α Black Silver Contacts; Solder Lug Terminals No 3A @ 125V AC Code В White Gold Contacts; Solder Lug Terminals С Red G 0.4VA max @ 28V AC/DC max E Yellow Silver Contacts; Straight PC Terminals; Ρ F Green 3A @ 125V AC Rotaries G Blue Gold Contacts; Straight PC Terminals PG 0.4VA max @ 28V AC/DC max Н Gray



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

EB2065-BF





Slides

Tactiles

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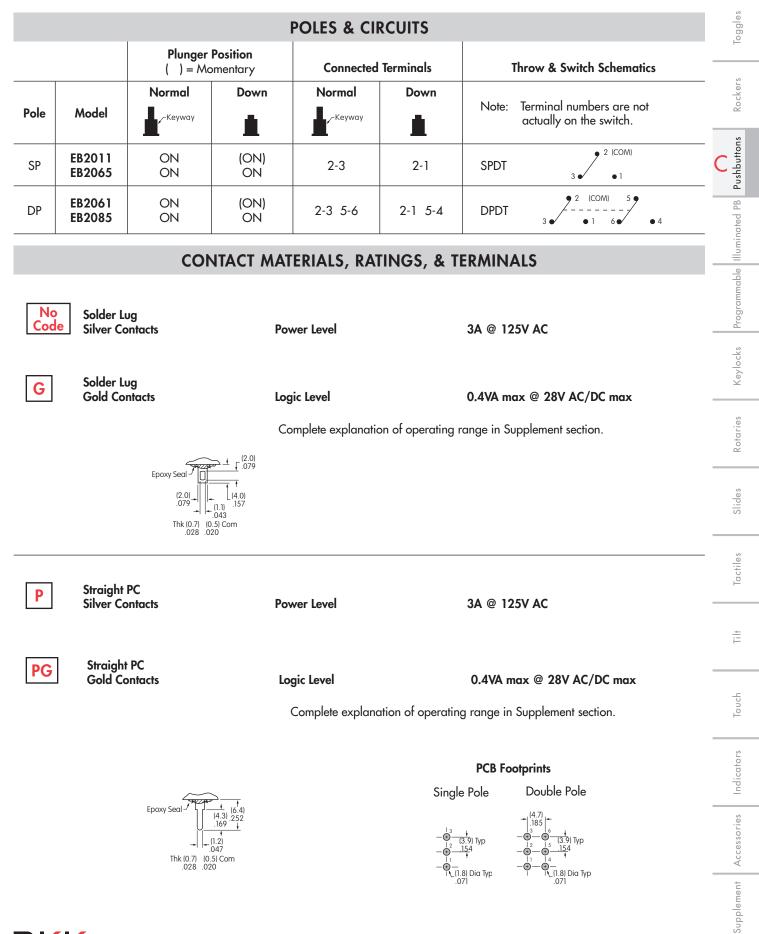
Touch

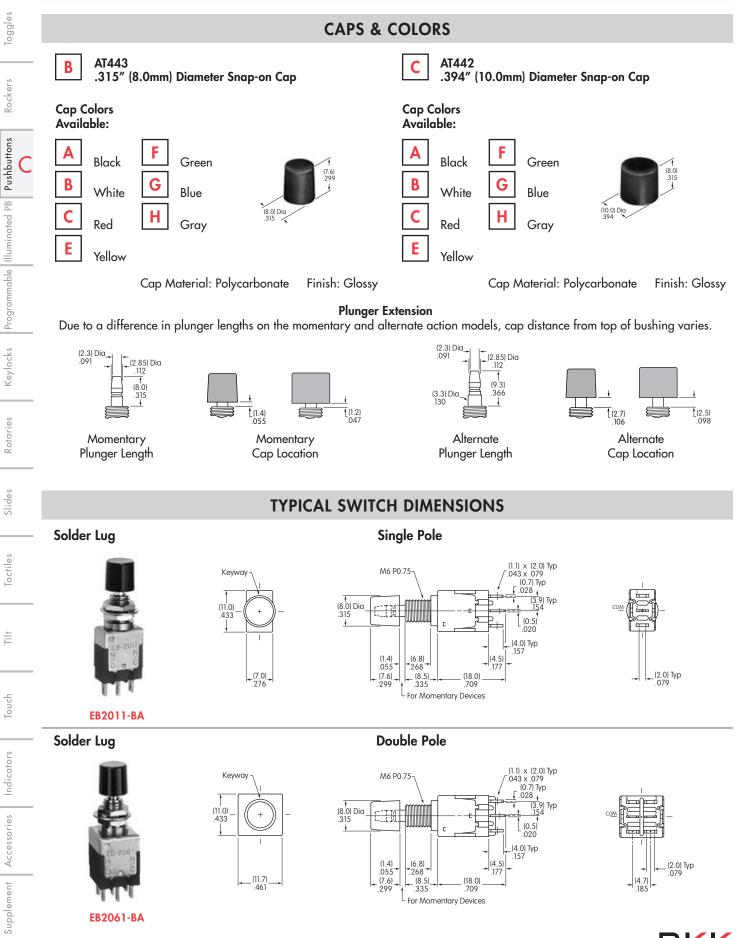
Indicators

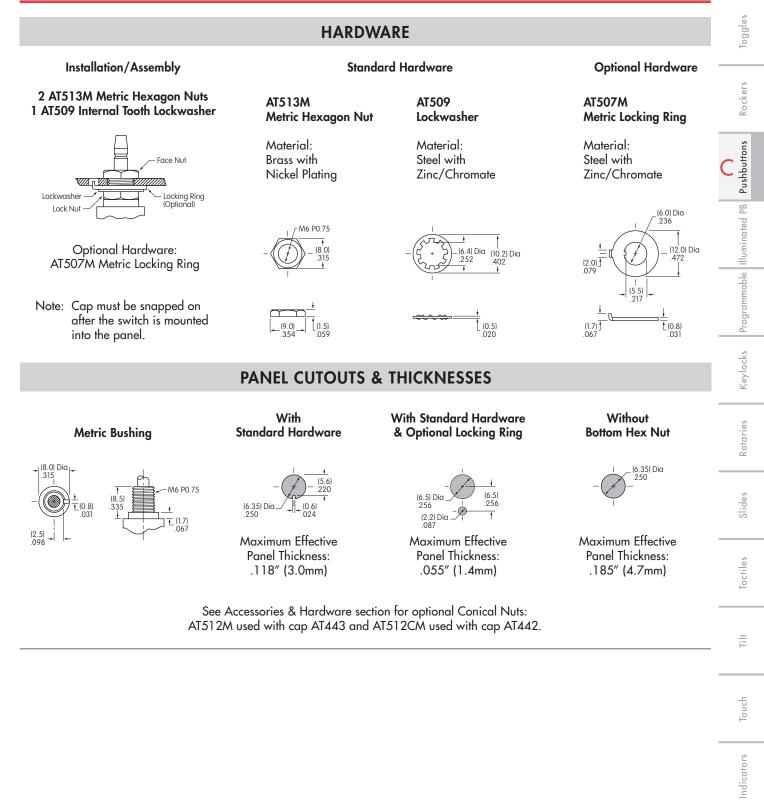
Supplement Accessories

### **Light Touch Miniature Pushbuttons**

## Series EB







Supplement Accessories

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