

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.

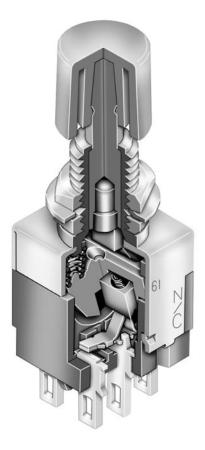
Stainless steel frame resists corrosion.

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.



Actual Size





General Specifications

Electrical Capacity (Resistive Load)

Power Level (No code or P):	3A @ 125V AC for silver contacts
Logic Level (code G or PG):	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

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 chrome plating for Momentary; brass with nickel plating for Alternate
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 with silver or gold plating
Terminals:	Copper with silver or gold plating

Environmental Data

Operating Temp Range:	–10°C through +70°C (+14°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 and returning
	in 1 minute; 3 right angled directions for 2 hours
Shock:	50G (490m/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)

Installation

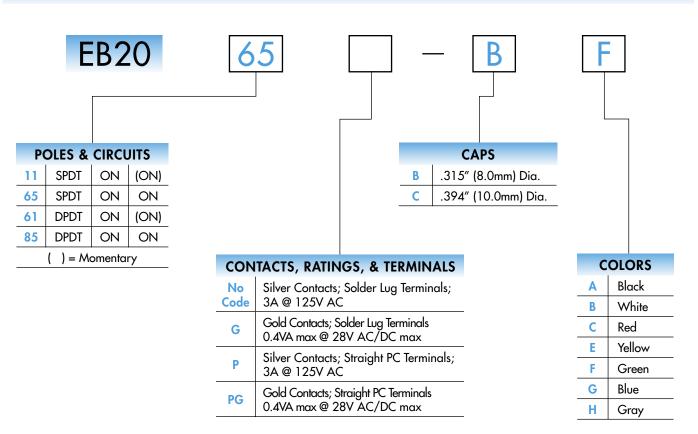
Mounting Torque:	1.47Nm (13.0 lb•in) for double nut; 0.68Nm (6.0 lb•in) for single nut				
Cap Installation Force:	78.5N (17.65 lbf) maximum downward force on actuator				
Soldering Time & Temp:	Wave Solder (Straight PC): See Profile B in Supplement section.				
	Manual Soldering: See Profile B in Supplement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

Standards & Certifications

Flam:	mability Standards: UL Recognized:	UL94V-0 case All single and double pole models recognized at 3A @ 125V AC; UL File No. WOYR2.E44145; add "/U" to end of part number to order UL mark on switch.
C _o	C-UL Recognized:	All single and double pole models recognized at 3A @ 125V AC; UL File No. WOYR8.E44145; add "/C-UL" to end of part number to order C-UL mark on switch.
SP:	CSA Certified:	Single pole solder lug and PC models certified at 3A @ 125V AC; double pole PC models certified at 3A @ 125V AC; CSA File No. 023535-0-000; add "/C" to end of part number to order CSA mark on switch.



TYPICAL SWITCH ORDERING EXAMPLE



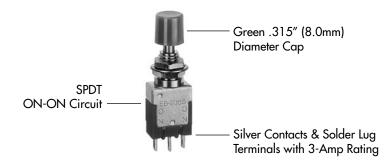
IMPORTANT:



Switches are supplied without UL, C-UL & CSA markings unless specified. Specific models & ratings noted on General Specifications page.

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

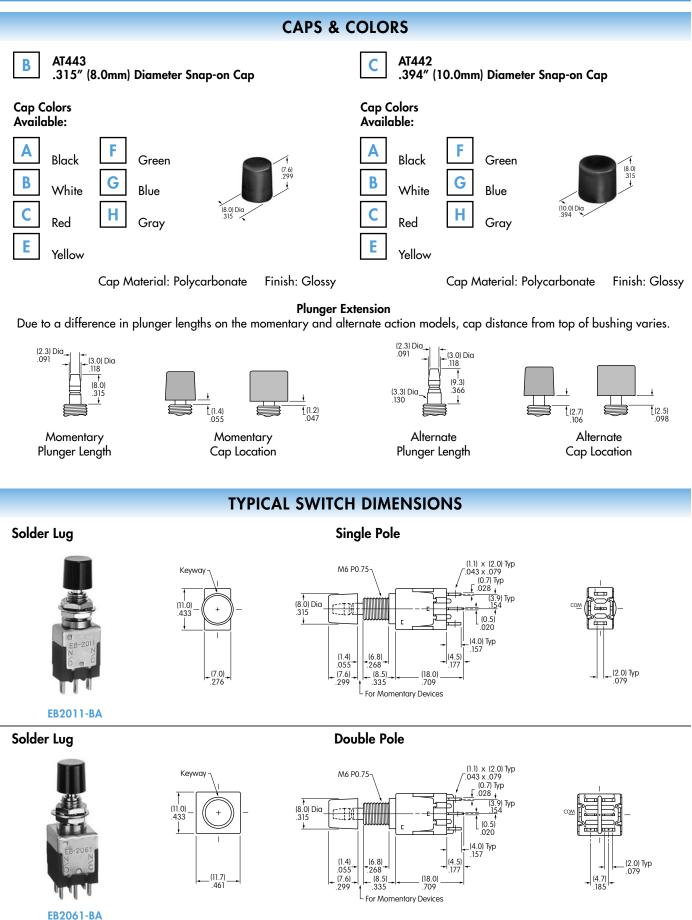
EB2065-BF





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			PO	LES & CIR	CUITS			
		Plunger	Position mentary	Connected Terminals			Throw & Switch Schematics	
		Down			Note: Terminal numbers are not actually on the switch.			
SP	EB2011 EB2065		(ON) ON	2-3	2-1	SPDT	2 (COM)	
DP	EB2061 EB2085	ON ON	(ON) ON			DPDT	2 (COM) 5 3 ● 1 6 ● 4	
		CON	ITACT MATER	IALS, RAT	INGS, & T	ERMINAL	S	
No Cod	Solder Lu Silver Co	Jg Intacts	Power	Level		3A @ 125V	AC	
G	Solder Lu Gold Cor	older Lug Gold Contacts Logic Level				0.4VA max @ 28V AC/DC max		
			Compl	ete explanatio	n of operating r	ange in Supp	lement section.	
		Epoxy Seal - (2.0) (2.0) .079 Thk (0.7) .028 .02	$\begin{array}{c} & \begin{array}{c} & (2.0) \\ & & \\ \hline \\ & & \\ \end{array} \\ \hline \\ & \\ & \\ & \\ \end{array} \\ \begin{array}{c} \\ & \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \\ \\ \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \begin{array}{c} \\ \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ \end{array} \\ \end{array} \\ \begin{array}{c} \\ \end{array} \\ $					
Ρ	Straight Silver Co		Power	Level		3A @ 125V	AC	
P PG	Silver Co	ntacts PC	Power Logic I				AC @ 28V AC/DC max	
	Silver Co	ntacts PC	Logic I	Level	tion of operating	0.4VA max		







Installation/Assembly **Standard Hardware Optional Hardware** 2 AT513M Metric Hexagon Nuts AT513M AT509 AT507M 1 AT509 Internal Tooth Lockwasher **Metric Hexagon Nut** Lockwasher **Metric Locking Ring** Material: Material: Material: Brass with Steel with Steel with Face Nut Nickel Plating Zinc/Chromate Zinc/Chromate V/// Locking Ring (Optional) Lockwasher Lock Nut (6.0) Dia .236 M6 P0.75 **Optional Hardware:** (12.0) Dia (6.4) Dia (10.2) Dia AT507M Metric Locking Ring 252 (2.0) 402 Note: Cap must be snapped on (5.5)after the switch is mounted into the panel. t (0.8) .031 (1.7) (0.5) .020 Panel Thicknesses & Panel Cutouts With With Standard Hardware Without **Metric Bushing Standard Hardware** & Optional Locking Ring **Bottom Hex Nut Maximum Effective Maximum Effective Maximum Effective** Panel Thickness: Panel Thickness: Panel Thickness: 8.0) Di .118" (3.0mm) .185" (4.7mm) .055" (1.4mm) M6 P0.75 (8.5) .335 (0.8) 031 (6.35) Dia (1.7) (2.5) 256 (6.35) Dia (0.6)(2.2) Dia

HARDWARE

See Accessories & Hardware section for optional Conical Nuts: AT512M used with cap AT443 and AT512CM used with cap AT442.