General Specifications

Electrical Capacity

Resistive Load:10A @ 125V AC or 6A @ 250V ACMotor Load:400W @ 125V ACLamp Load:2A @ 125V AC for On-Off-On circuit & 3A @ 125V AC for other circuits

Other Ratings

Contact Resistance:	10 milliohms maximum
Insulation Resistance:	1,000 megohms minimum @ 500V DC
Dielectric Strength:	2,000V AC minimum between contacts for 1 minute minimum;
-	4,000V AC minimum between contacts & case for 1 minute minimum
Mechanical Life:	100,000 operations minimum
Electrical Life:	25,000 operations minimum
Angle of Throw:	25°

Materials & Finishes

Polypropylene for No Code, Code D; Polyvinyl chloride for Code B (see Ordering Example)
Brass with chrome plating
Brass with nickel plating
Stainless steel
Diallyl phthalate resin (UL94V-0)
Silver alloy with silver plating
Pure silver with silver plating
Copper with silver plating

Environmental Data

Operating Temp Range:	–10°C through +85°C (+14°F through +185°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/s ²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction)
	Humidity: Vibration:

Installation

Soldering Time & Temp:	Wave Soldering Recommended (Straight PC): See Profile A in Supplement section.
	Manual Soldering: See Profile A in Supplement section.
Cleaning:	These devices are not process sealed. Hand clean locally using alcohol based solution.

Standards & Certifications

Flammability Standards:	UL94V-0 rated case/base
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. Models with No Code, E, F & D are recognized at 10A @ 125V AC & 6A @ 250V 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. Models with No Code, E, F and D are certified at 10A @ 125V AC & 6A @ 250V AC.
VDE:	License No. 119174 Models with No Code, B & D are approved at 10A @ 125V AC & 6A @ 250V AC. Models with No Code, B & D meet EN 61058-1 standard.



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Touch

Indicators

Supplement Accessories

Toggles

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Factiles

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Touch

Supplement Accessories Indicators

Distinctive Characteristics

Meets EN 61058-1 standard.

High torque bushing construction prevents rotation or separation from frame during installation.

Stainless steel frame resists corrosion and increases environmental safety.

Case/base of heat resistant resin meets UL94V-0 flammability standard.

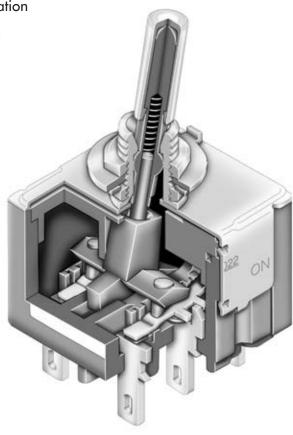
Contacts of special silver alloy resist arcing and guarantee stable electrical contact and long life.

High insulating barriers increase isolation of circuits in double pole devices and provide added protection to contact points.

Prominent external insulating barriers increase insulation resistance and dielectric strength.

Epoxy sealed terminals prevent entry of flux, solvents, and other contaminants.

Clinching of the frame to the case well above the base and terminals provides 4,000V dielectric strength.







Toggles

Rockers

Keylocks | Programmable | Illuminated PB | Pushbuttons

Rotaries

Slides

TYPICAL SWITCH ORDERING EXAMPLE

B

P20

Poles & Circuits						
11	SPST	ON	NONE	OFF		
12	2 SPDT ON M		NONE	ON		
13	SPDT	ON	OFF	ON		
21	DPST	ON	NONE	OFF		
22	DPDT	ON	NONE	ON		
23	DPDT	ON	OFF	ON		



Toggles & Bushings							
No Code	.512" (13.0mm) White Cap with 6mm Bushing						
E	.450″ (11.4mm) Flatted with 6mm Bushing						
В	.689" (17.5mm) Large Bat & AT406B Cap with 12mm Bushing						
F	.689″ (17.5mm) Large Bat with 12mm Bushing						
D	.748" (19.0mm) White Capped Column with 12mm Bushing						

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	Terminals			
No Code	Solder Lug			
Р	Straight PC .187" (4.75mm) Quick Connect			
Z				

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

P2022F

.689" (17.5mm) Large Bat with 12mm Bushing

DPDT **ON-NONE-ON Circuit**

Solder Lug Terminals

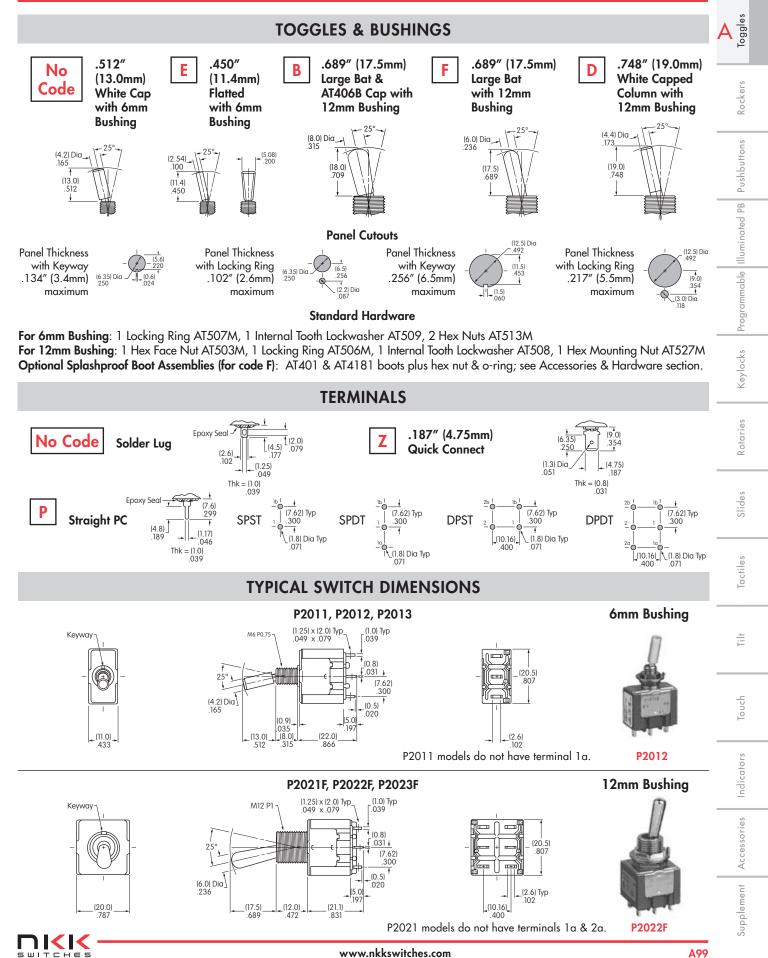


IMPORTANT:

VDE is marked on all models except those with codes E & F. 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.

						POLES &	CIRCUI	TS		
_	Toggle Position			Connected Terminals			Throw & Schematics			
-	Pole	Model	Down Keyway ₁	Center	Up	Down	Center	Up	Note:	Terminal numbers are on the switch.
_	SP	P2011	ON	NONE	OFF	1-1b	OPEN	OPEN	SPST	• 1 (COM) • 1b
_	SP	P2012 P2013	ON ON	NONE OFF	ON ON	1-1b	OPEN	1-1a	SPDT	
_	DP	P2021	ON	NONE	OFF	1-1b 2-2b	OPEN	OPEN	DPST	• 1 (COM) 2 • • 1b • 2b
_	DP	P2022 P2023	ON ON	NONE OFF	ON ON	1-1b 2-2b	OPEN	1-1a 2-2a	DPDT	1 (COM) 2 1 (COM) 2 1 2 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2

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