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

Toggle Cap:	Polypropylene
Lever:	Brass with chrome plating
Bushing:	Brass with nickel plating
Frame:	Stainless steel
Case/Base:	Diallyl phthalate resin (UL94V-0)
Movable Contacts:	Silver alloy with silver plating
Stationary Contacts:	Pure silver with silver plating
Terminals:	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)
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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: UL:	UL94V-0 rated case/base 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 models 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. All models certified at 10A @ 125V AC & 6A @ 250V AC.
VDE:	License No. 119174

All models approved at 10A @ 125V AC & 6A @ 250V AC. Marking on switch is standard. All models meet EN 61058-1 standard.



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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.

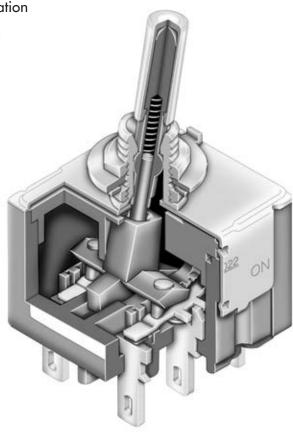
Contacts of special silver alloy resist arcing and guarantee stable electrical contact and long life.

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.





Rockers

Keylocks Programmable Illuminated PB Pushbuttons

Rotaries

Slides

Factiles

Touch

Supplement Accessories Indicators

Toggles

Rockers

Programmable Illuminated PB Pushbuttons

Keylocks

Rotaries

Slides

Tactiles

TYPICAL SWITCH ORDERING EXAMPLE

B

Poles & Circuits				
11	SPST	ON	NONE	OFF
12	SPDT	ON	NONE	ON
13	SPDT	ON	OFF	ON
21	DPST	ON	NONE	OFF
22	DPDT	ON	NONE	ON
23	DPDT	ON	OFF	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 with 12mm Bushing
D	.748" (19.0mm) White Capped Column with 12mm Bushing

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

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

P2022B

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

> DPDT **ON-NONE-ON Circuit**

> > Solder Lug Terminals



IMPORTANT:

VDE is marked on all models. 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 & CIRCUITS Toggle Position Connected Terminals Throw & Schematics ÷ Down Center Up Down Center Up Note: Terminal numbers are on Pole Model Keyway-Keywaythe switch. Touch 1 (COM) SP P2011 ON NONE OFF 1-1b OPEN SPST OPEN • 1b Indicators • 1 (COM) ON NONE P2012 ON SP 1-1b OPEN 1-1a SPDT P2013 ON OFF ON 1a 🔸 1b Supplement Accessories (COM) 2 DP P2021 ON NONE OFF 1-1b 2-2b OPEN OPEN DPST) 1b 2b (COM) P2022 ON NONE ON DP DPDT 1-1b 2-2b OPEN 1-1a 2-2a P2023 ON OFF ON 1a 🔸 • 1b 2a •



