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### General Specifications **Electrical Capacity Resistive Load:** 10A @ 125V AC or 6A @ 250V AC **Motor Load:** 400W @ 125V AC Lamp Load: 2A @ 125V AC for On-Off-On circuit & 3A @ 125V AC for other circuits

### Other Ratings

10 milliohms maximum **Contact Resistance:** 

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:** 50,000 operations minimum **Electrical Life:** 25,000 operations minimum

Angle of Throw:

### Materials & Finishes

Stainless steel Frame:

Diallyl phthalate resin (UL94V-0) Case/Base: Silver alloy with silver plating **Movable Contacts: Stationary Contacts:** Pure silver with silver plating Terminals: Copper with silver plating

### **Environmental Data**

-10°C through +85°C (+14°F through +185°F) **Operating Temp Range:** 

**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

50G (490m/s²) acceleration (tested in 6 right angled directions, with 5 shocks in each direction) Shock:

### Installation

Soldering Time & Temp: Wave Soldering (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" before dash in part number to order UL recognized switch. Add "/CUL" before dash in part number to order cULus 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" before dash in 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.

Rockers

Keylocks Programmable Illuminated PB Pushbuttons

# Distinctive Characteristics

Meets EN 61058-1 standard.

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

Stainless steel frame resists corrosion and increases environmental safety.

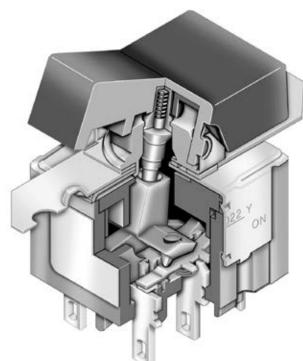
High insulating barriers increase isolation of circuits in double pole devices and provide added protection to contact points.

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

Prominent external insulating barriers increase insulation resistance and dielectric strength.

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

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



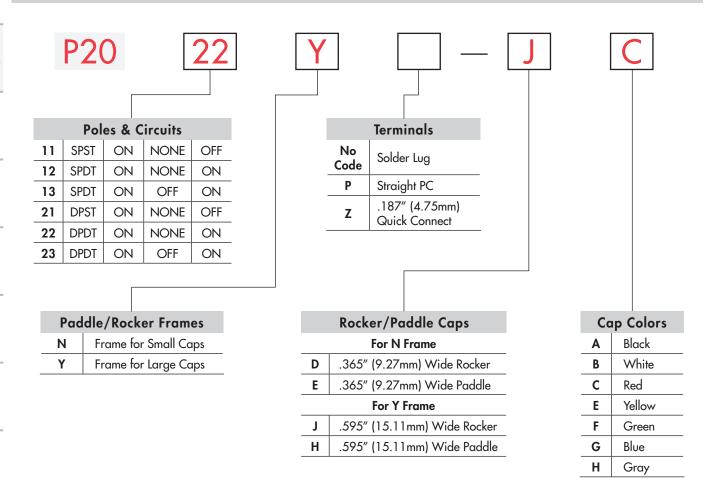






Supplement | Accessories

### TYPICAL SWITCH ORDERING EXAMPLE



### **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 General Specifications page.

### DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

### P2022Y-JC





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

## **ROCKER/PADDLE FRAMES**

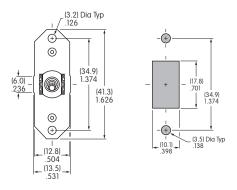
**Small Actuator** 

Using AT4148 & AT4149

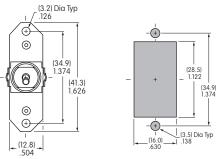
Frame for

Frame for **Large Actuator** 





Maximum Panel Thickness: .126" (3.2mm)

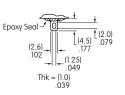


Maximum Panel Thickness: .126" (3.2mm)

### **TERMINALS**



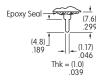
Solder Lug



.187" (4.75mm) **Quick Connect** 

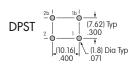


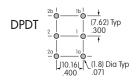












# Supplement | Accessories

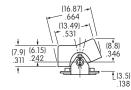
# **ROCKER/PADDLE CAPS**

### For N Frame

AT4148 .365" (9.27mm) Wide Rocker





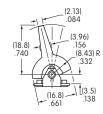


E

AT4149 .365" (9.27mm) Wide Paddle







For Y Frame

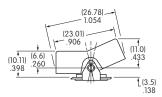
AT4156 .595" (15.11mm) Wide Rocker



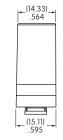
AT4157 .595" (15.11mm) Wide Paddle

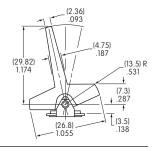












**Cap Colors** Available:





(3.2) Dia Typ .126

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.504

+ (15.11) .595





Yellow







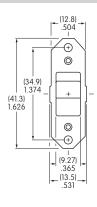


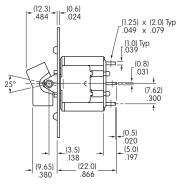
Material: Polyamide Finish: Matte

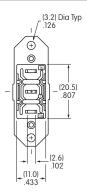
### TYPICAL SWITCH DIMENSIONS

### **N Frame**









P2012N-DC

P2011 & P2021 models do not have terminals 1a & 2a.

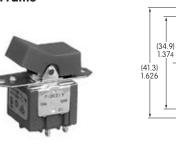
(1.25) x (2.0) Typ .049 x .079

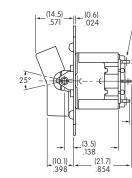
(1.0) Typ .039

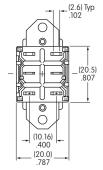
\_(0.5) .020











P2022Y-JC

P2011 & P2021 models do not have terminals 1a & 2a.