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

Frame: Stainless steel

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.



B115

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.

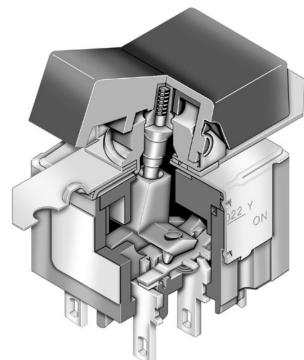
High insulating barriers increase isolation of circuits in double pole devices and provide added protection to contact points.

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

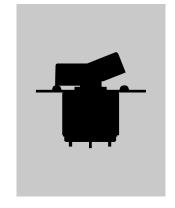
Prominent external insulating barriers increase insulation resistance and dielectric strength.

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.





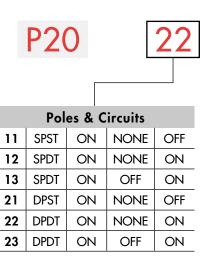




Slides

Touch

TYPICAL SWITCH ORDERING EXAMPLE



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		

Paddle/Rocker Frames

Frame for Small Caps

Frame for Large Caps

	Terminals				
	No Code Solder Lug*				
	P Straight PC				
	Z	.187" (4.75mm) Quick Connect			
Rocker/Paddle Caps					
For N Frame					
D	.365" (9.27mm) Wide Rocker				
E	.365" (9.27mm) Wide Paddle		<u>:</u>		
		For Y Frame	_		

.595" (15.11mm) Wide Rocker

.595" (15.11mm) Wide Paddle

Cap Colors				
Α	Black			
В	White			
С	Red			
E	Yellow			
F	Green			
G	Blue			
Н	Gray			

IMPORTANT:



Ν Υ

> 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.

* Wire harness & cable assemblies offered only in Americas

DESCRIPTION FOR TYPICAL ORDERING EXAMPLE

Н

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 1-1b **OPEN OPEN SPST** • 1b 1 (COM) P2012 ON NONE ON SP 1-1b **OPEN** 1-1a **SPDT** P2013 ON OFF ON la ● (COM) 1-1b DP P2021 ON NONE OFF **OPEN OPEN DPST** 2-2b ● 1b • 2b 1 (COM)

ROCKER/PADDLE FRAMES

OPEN

1-1b

2-2b

Frame for **Small Actuator**

P2022

P2023

DP

ON

ON

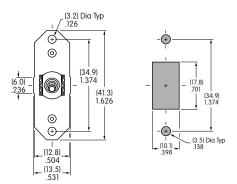
Using AT4148 & AT4149

NONE

OFF

ON

ON



Maximum Panel Thickness: .126" (3.2mm)

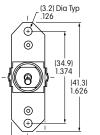
Frame for **Large Actuator**

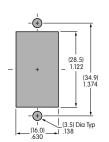
1-1a

2-2a

DPDT

Using AT4156 & AT4157





• 1b 2a •

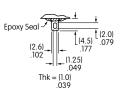
● 2b

Maximum Panel Thickness: .126" (3.2mm)

TERMINALS

No Code

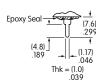
Solder Lug



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

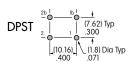


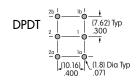
Straight PC











Supplement | Accessories

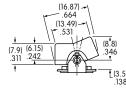
ROCKER/PADDLE CAPS

For N Frame

AT4148 .365" (9.27mm) Wide Rocker





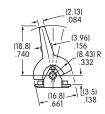


E

AT4149 .365" (9.27mm) Wide Paddle







For Y Frame



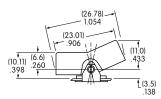
AT4156 .595" (15.11mm) Wide Rocker



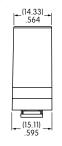
AT4157 .595" (15.11mm) Wide Paddle

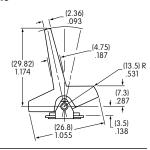












Cap Colors Available:









Yellow



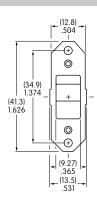


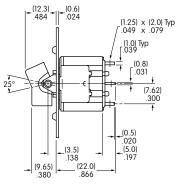
Material: Polyamide Finish: Matte

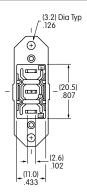
TYPICAL SWITCH DIMENSIONS

N Frame









P2012N-DC

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

Y Frame



P2022Y-JC

