

# 6000 series

Toggle switches for rugged and demanding applications



## DISTINCTIVE FEATURES

Sealing and locking lever options available  
Black finish on actuator and bushing



## ELECTRICAL SPECIFICATIONS

- Max. current/voltage rating : see table below
- Initial contact resistance : 10 mΩ max.
- Insulation resistance : 1,000 MΩ min. at 500 VDC
- Dielectric strength :  
2,000 Vrms 50 Hz min. between terminals  
3,000 Vrms 50 Hz min. between terminals and frame
- Electrical life : 10,000 cycles at full load

Current/Voltage Rating	
Resistive load	6.5 A 30 VDC
Inductive load	5 A 30 VDC
Lamp load	3 A 30 VDC



## GENERAL SPECIFICATIONS

- Torque : 1.50 Nm (1.10 Ft.lb) max. applied to nut
- Panel thickness : 5 mm (.196) max.
- Operating temperature : -40 °C to +85 °C (-40 °F to +185 °F)



## MATERIALS

- Case : diallylphthalate (DAP)
- Actuator : brass, chrome plated, black
- Bushing : brass, chrome plated, black
- Contacts : A : silver

The company reserves the right to change specifications without notice.

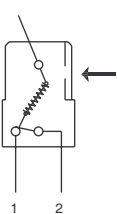


# 6000 series

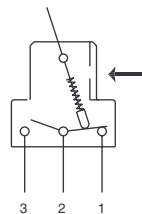
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## ELECTRICAL FUNCTIONS

→ KEYWAY

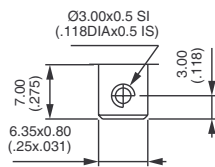


1 pole

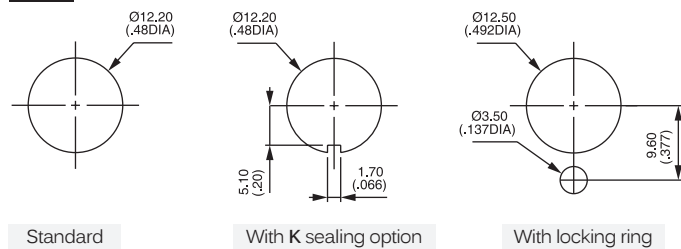


2, 3, and 4 pole

## TERMINALS



## STANDARD PANEL CUT-OUT



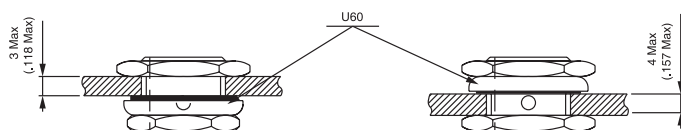
Standard

With K sealing option

With locking ring

## PANEL CUT-OUT WITH "K" SEALING

Recommended cut-out and mounting depending on panel thickness

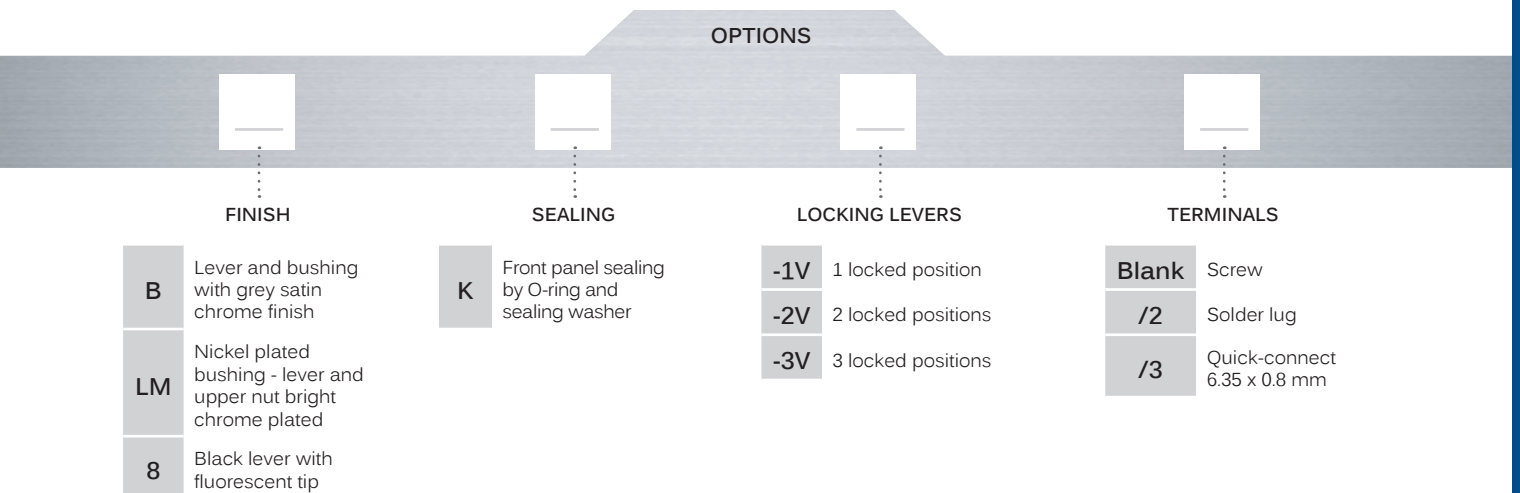
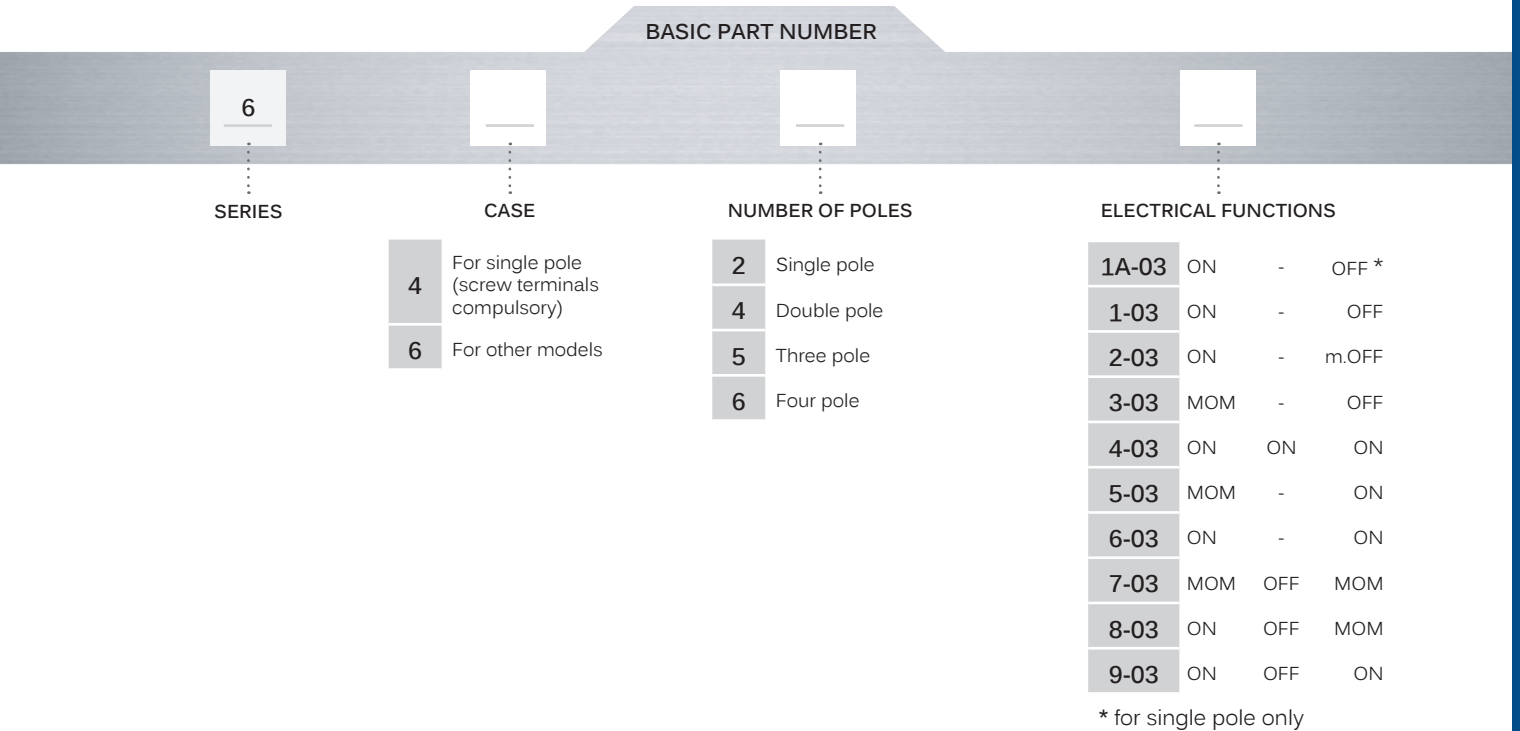


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## BUILD YOUR PART NUMBER



## ABOUT THIS SERIES

On the following pages, you will find successively basic part numbers of switches and options in the same order as in above chart.

- ⚠ **Notice** : please note that not all combinations of above numbers are available. Refer to the following pages for further information.
- ⚠ **Sealing boots** are available to protect the switches against dust and water. See "Sealing Boots" section of website.
- ⚠ **Mounting accessories** : standard hardware supplied with all models : 2 matt black nuts U41, matt black locking ring U12, zinc plated lockwasher U13. They are presented in the "Hardware" section of website.

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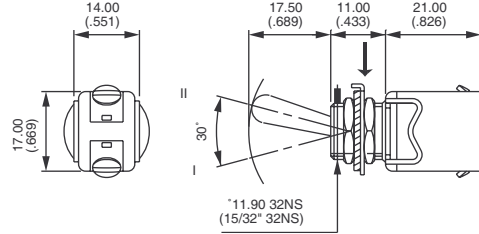
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## SCREW TERMINALS - SINGLE POLE



6421A-03	I	ON	-	II	OFF
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→ KEYWAY

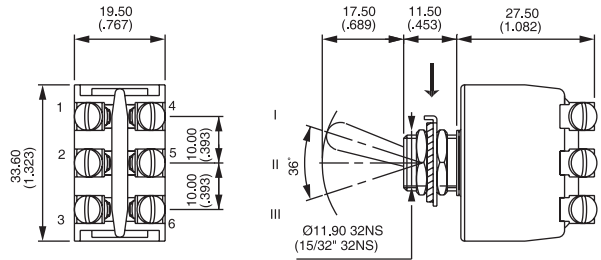


## SCREW TERMINALS - DOUBLE POLE



	III	II	I
	2-1		2-3
	5-4		5-6
6641-03	ON	-	OFF
6642-03	ON	-	mom.OFF
6643-03	MOM	-	OFF
6644-03 ▲	ON	ON	ON
6645-03	MOM	-	ON
6646-03	ON	-	ON
6647-03	MOM	OFF	MOM
6648-03	ON	OFF	MOM
6649-03	ON	OFF	ON

→ KEYWAY



▲ Function 4 : SP in DP case, see "Technical information" on website.

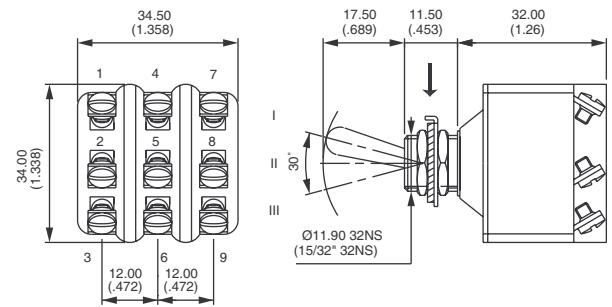
## SCREW TERMINALS - THREE POLE



	III*	II	I**
6651-03	ON	-	OFF
6652-03	ON	-	mom.OFF
6653-03	MOM	-	OFF
6655-03	MOM	-	ON
6656-03	ON	-	ON
6657-03	MOM	OFF	MOM
6658-03	ON	OFF	MOM
6659-03	ON	OFF	ON

\*(2-1) (5-4)(8-7) \*\* (2-3) (5-6) (8-9)

→ KEYWAY



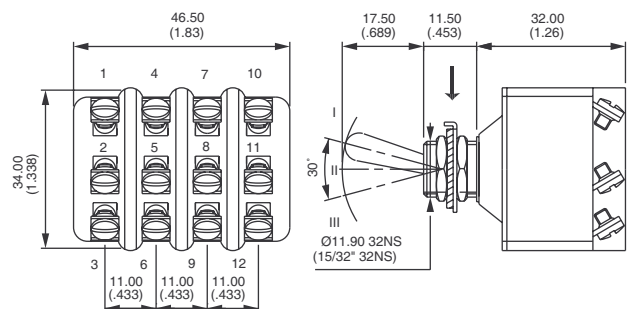
## SCREW TERMINALS - FOUR POLE



	III*	II	I**
6661-03	ON	-	OFF
6662-03	ON	-	mom.OFF
6663-03	MOM	-	OFF
6664-03 ▲	ON	ON	ON
6665-03	MOM	-	ON
6666-03	ON	-	ON
6667-03	MOM	OFF	MOM
6668-03	ON	OFF	MOM
6669-03	ON	OFF	ON

\*(2-1) (5-4)(8-7) (11-10) \*\* (2-3) (5-6) (8-9) (11-12)

→ KEYWAY

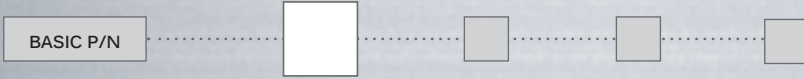


▲ Function 4 : SP in DP case, see "Technical information" on website.

# 6000 series

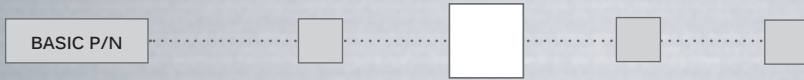
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## FINISH

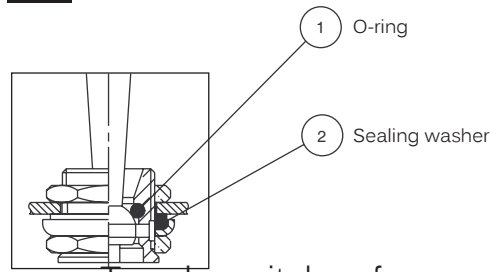


- B** Lever and bushing with grey satin chrome finish
- LM** Nickel plated bushing - lever and upper nut bright chrome plated
- 8** Black lever with fluorescent tip

## SEALING

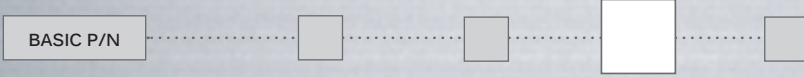


- K** Front sealing by O-ring and sealing washer. Protects the switch against water and dust. Panel seal withstands 1 bar pressure and remains sealed even when switch is operated.



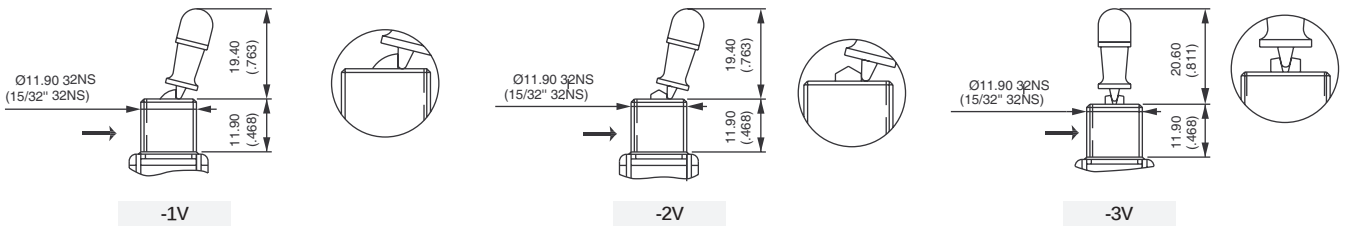
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## LOCKING LEVERS



- 1V** 1 locked position
- 2V** 2 locked positions
- 3V** 3 locked positions

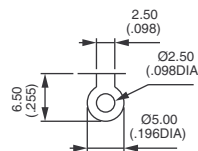
→ KEYWAY



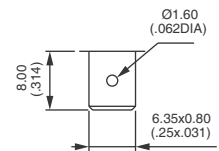
## TERMINALS



- Blank** Screw terminals (compulsory for single pole models)
- /2** Solder lug terminals
- /3** Quick-connect terminals 6.35 x 0.8 (.250 x .031)



/2



/3

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## NEOPRENE PROTECTION CAPS

### To be ordered separately.

Example : PROTECTION CAP U58

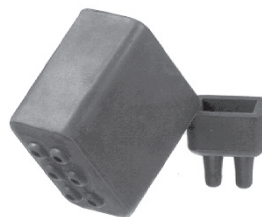
These caps are designed to insulate terminals against electrical short circuit.

**U58** For 1-pole models

**U120** For 2-pole models

**U46** For 3-pole models

**U47** For 4-pole models



# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

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[6421A03K2V](#)