# 600H and 600NH series

## Toggle switches - high amperage

Distinctive features and specifications



### Construction

Terminal and contact support are manufactured from a single piece of metal. The contacts are resistance-welded to the terminal for increased mechanical strength.

### Rating

These switches are suitable for motor loads and power applications up to 15A 250VAC or 10A 400VAC

### Metal or insulated lever

UL, CSA and NF-VDE (EN 61058-1) approved

#### **ELECTRICAL SPECIFICATIONS**

- Max. current/voltage ratings : see tables below
- Peak current : 30A max. during 1/2 sine, 250VAC
- Initial contact resistance :  $10 \text{ m}\Omega \text{ max.}$  at 1A 2VDC• Insulation resistance :  $1.000 \text{ M}\Omega \text{ min.}$  at 500 VDC
- Dielectric strength : 2.000 Vrms 50 Hz min. between terminals 2.500 Vrms 50 Hz min. between terminals and frame
- Electrical life : 10.000 cycles at full load

| APPROVED RATINGS       |                               |                          |                |                     |  |
|------------------------|-------------------------------|--------------------------|----------------|---------------------|--|
|                        |                               | 600H - 600NH             |                |                     |  |
| MODELS                 | FUNCTIONS                     | UL                       | CSA            | NF-VDE              |  |
|                        |                               | UL 1054                  | CSA 22-2       | EN 61058-1          |  |
|                        | ON - OFF (1)                  | 15A 1/2 HP<br>125-250VAC |                |                     |  |
| Single and double pole | ON - ON (6)                   |                          |                | 10(4)A<br>400VAC    |  |
|                        | Other<br>(4-7-8-9)            | 10A 1/2 HP<br>125-250VAC |                | T 85/55 (600H)      |  |
| Three pole             | ON - OFF (1)<br>& ON - ON (6) |                          | /2 HP<br>50VAC | T 125/55<br>(600NH) |  |
| mee pole               | Other<br>(4-7-8-9)            |                          | /2 HP<br>50VAC |                     |  |

#### Models for peak currents Models 600SH and 600SNH with silver cadmium oxide contacts are discontinued.

They will be replaced by switches with silver tin oxide contacts.

| - FOR INFORMATION-                            |
|---|
| Max. current/voltage rating w. resistive load |

| Functions           | Ratings                              | Electrical life |
|---------------------|--------------------------------------|-----------------|
| ON - OFF<br>ON - ON | 15A 250VAC<br>10A 24VDC<br>15A 12VDC | 10.000 cycles   |
| ON OFF ON           | 15A 250VAC                           | 6.000 cycles    |
| Other               | 15A 125VAC<br>12A 250VAC<br>5A 25VDC | 10.000 cycles   |

#### MATERIALS

- Case : polyester UL94-V0
- Actuator
- 600H : brass, nickel plated
- 600NH : black polyamide
- Bushing : brass, nickel plated
- Contacts : silver/nickel alloy

- **GENERAL SPECIFICATIONS**
- Torque : 1,50 Nm (1.10 Ft.lb) max. applied to nut
- Panel thickness : 4,5 mm (.177) max. between 2 nuts
- Operating temperature : -20°C to +55°C

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Specifications

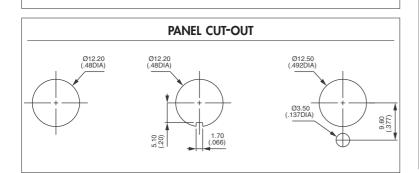




EN 61058-1 EN 61058-1

**Availability** : see chart on previous page.

Marking : approved models are standard marked.



#### MOUNTING RECOMMENDATIONS

#### Connection

- For quick-connect terminals, use 6,3 x 0,8 mm normalized female connectors.
- For screw terminals, use : either 1,5 mm<sup>2</sup> or 2,5 mm<sup>2</sup> rigid wires, or prepared stripped and tin plated flexible wires, or prepared flexible wires with crimped termination per EN 50027 (DIN 46228)

#### Ground connector

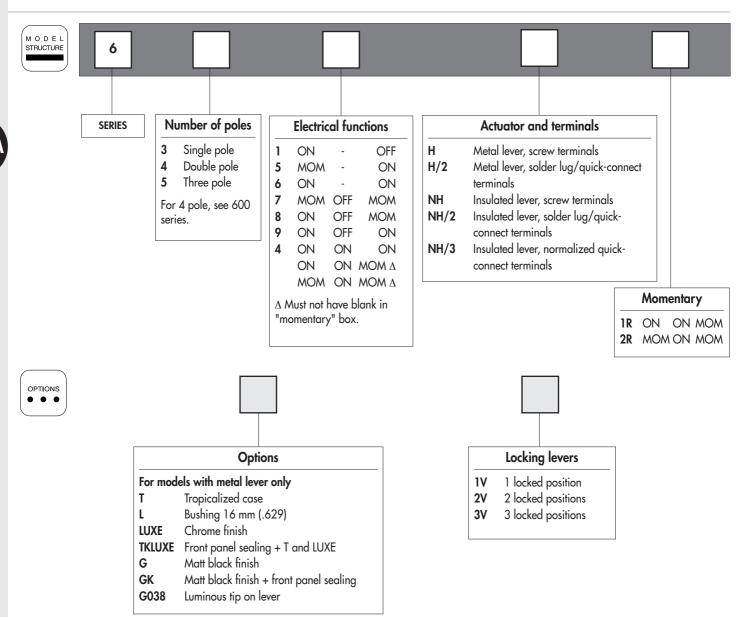
Compulsory if the panel is not metallic or not connected to ground. Should also be used when front face nut is of plastic material.

Order separately, see section I.

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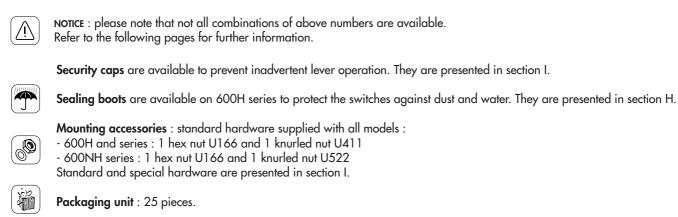
## Toggle switches - high amperage

Overview



#### ABOUT THIS SERIES

**Dimensions** : first dimensions are in mm while inches are shown as bracketted numbers.

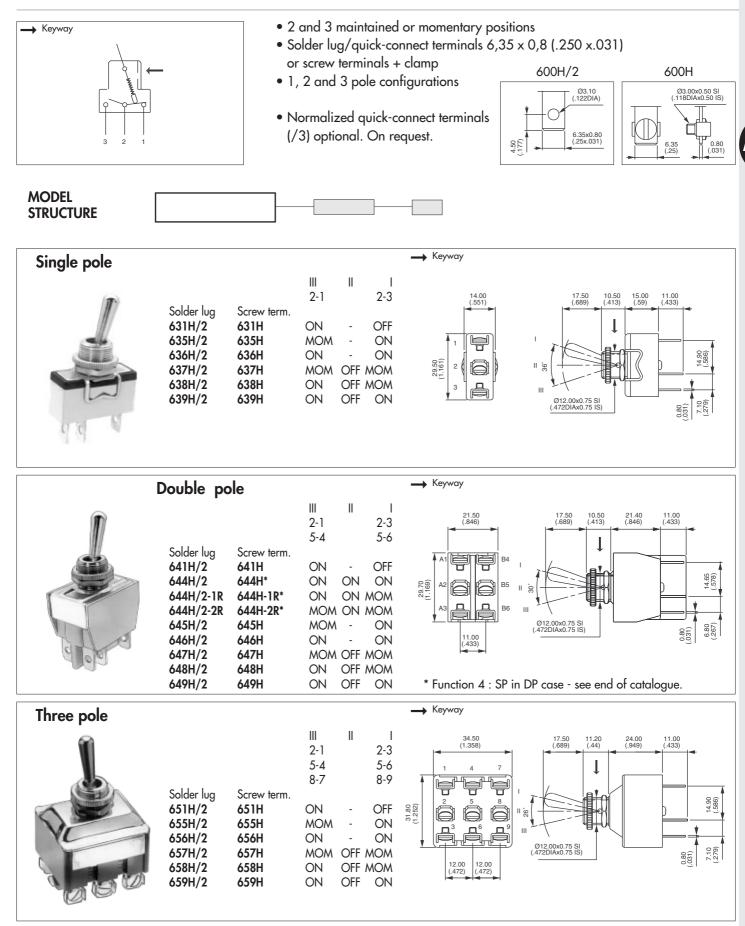




# **600H** series

## Toggle switches - high amperage - metal lever

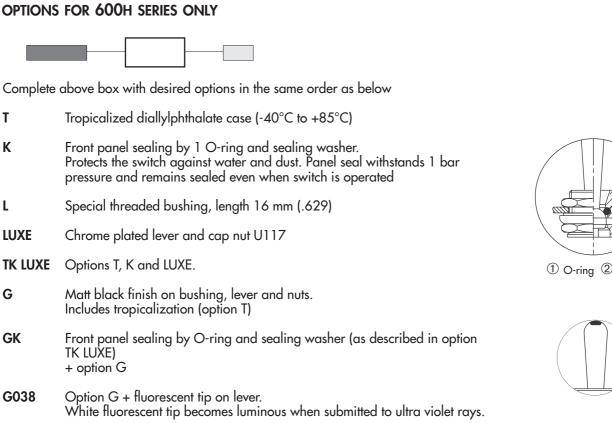
Solder lug/quick-connect terminals - screw terminals

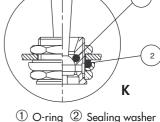


# **600H** series

## Toggle switches - high amperage - metal lever



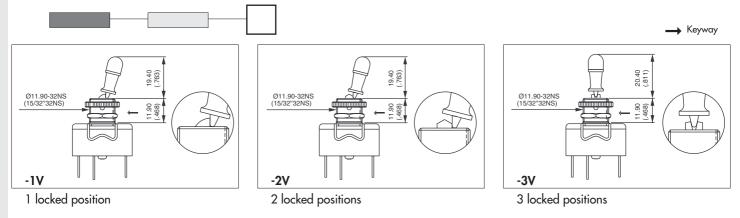








### For 3-pole models, refer to 6000 series.



### **ACTUATOR OPTIONS (1 and 2 pole models)**

- 30 mm (1.181) long actuator -4
- 40 mm (1.574) long actuator -5
- -6 Retro style actuator (gold plated or chrome plated : on request)
- Ergonomic flat plastic actuator : add U282 at the end of switch model number.

