## 600H and 600NH series

## Toggle switches - high amperage

Distinctive features and specifications



☐ Construction

UG1410A

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 m $\Omega$  max. Insulation resistance : 1.000 M $\Omega$  min. at 500VDC
- 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 - 6	00NH	
	MODELS	FUNCTIONS	UL	CSA	NF-VDE	
			UL 1054	CSA 22-2	EN 61058-1	
		ON - OFF (1)	15A 1/2 HP 125-250VAC			
	Single and double pole	ON - ON (6)			10(4)A 400VAC	
		Other (4-5-7-8-9)	10A 1/2 HP 125-250VAC		T 85/55 (600H)	
	Three pole	ON - OFF (1) & ON - ON (6)	15A 1/2 HP 125-250VAC		T 125/55 (600NH)	
		Other (4-5-7-8-9)		I/2 HP 50VAC		

- FOR INFORMATION- Max. current/voltage rating w. resistive load				
Functions	Ratings	Electrical life		
ON - OFF ON - ON	15A 250VAC 10A 24VDC 15A 12VDC	10.000 cycles		
ON OFF ON	15A 250VAC 5A 24VDC	6.000 cycles 10.000 cycles		
Other	15A 125VAC 12A 250VAC 5A 24VDC	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

The company reserves the right to change specifications without notice.

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## Toggle switches - high amperage

**Specifications** 

#### **AGENCY APPROVALS**





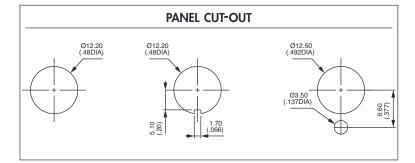




EN 61058-1 EN 61058-1

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 mm² or 2,5 mm² rigid wires,
   or prepared stripped and tin plated flexible wires,
   or prepared flexible wires with crimped termination per EN 50027 (DIN 46228)

#### **Ground connector**

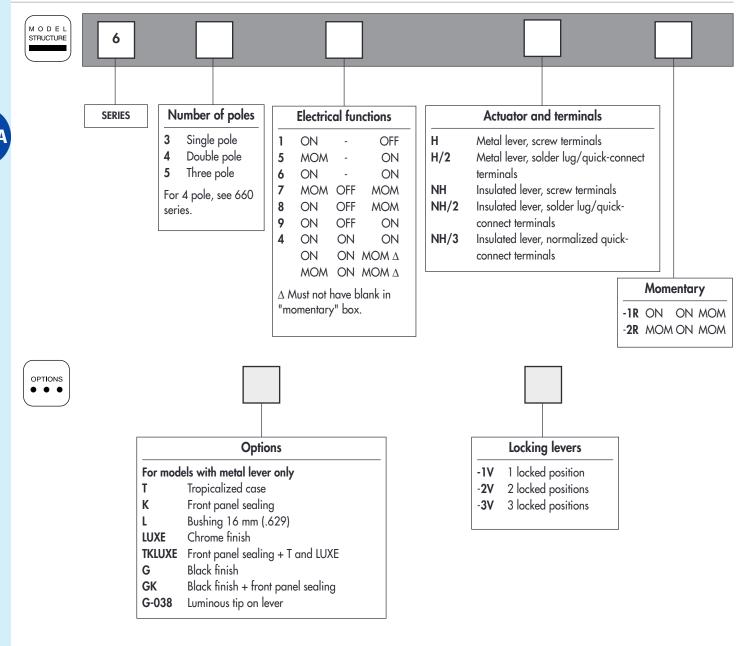
Compulsory if the panel is not metallic or not connected to ground. Should also be used when front face nut is of plastic material.

Order separately, see section I.

# 600H and 600NH series

## Toggle switches - high amperage

**Overview** 



### **ABOUT THIS SERIES**

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



NOTICE: please note that not all combinations of above numbers are available. Refer to the following pages for further information.

Security caps are available to prevent inadvertent lever operation. They are presented in section I.



Sealing boots are available on 600H series to protect the switches against dust and water. They are presented in section H.



**Mounting accessories**: standard hardware supplied with all models: - 600H and series: 1 hex nut U166 and 1 knurled nut U411

- 600NH series : 1 hex nut U166 and 1 knurled nut U522
- Standard and special hardware are presented in section I.



Packaging unit: 25 pieces.

A-90

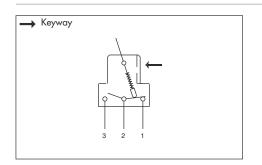


# 600H series

## Toggle switches - high amperage - metal lever

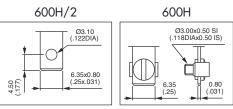
Solder lug/quick-connect terminals - screw terminals

functions 1, 5, 6, 7: 26° - functions 8, 9: 32°

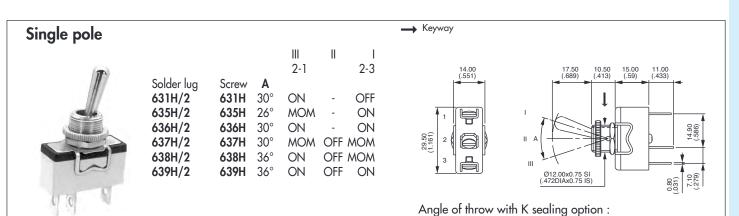


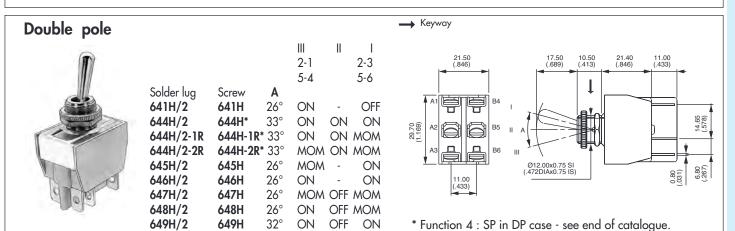
- 2 and 3 maintained or momentary positions
- Solder lug/quick-connect terminals 6,35 x 0,8 (.250 x.031) or screw terminals + clamp
- 1, 2 and 3 pole configurations
- Normalized quick-connect terminals (/3) optional. On request.

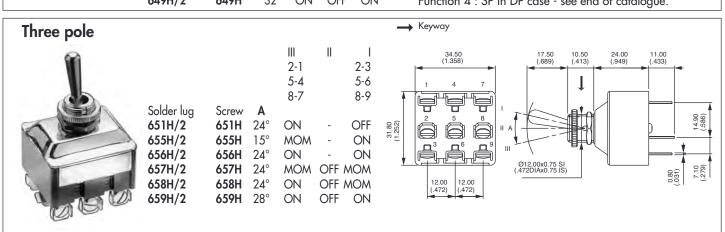
A = Angle of throw











# 600H series

### Toggle switches - high amperage - metal lever



### **OPTIONS FOR 600H SERIES ONLY**



Complete above box with desired options in the same order as below

T Tropicalized diallylphthalate case (-40°C to +85°C)

Front panel sealing by 1 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

L Special threaded bushing, length 16 mm (.629)

**LUXE** Chrome plated lever and cap nut U117

**TK LUXE** Options T, K and LUXE.

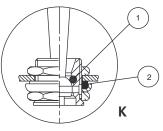
G Black finish on bushing, lever and nuts. Includes tropicalization (option T)

**GK** Front panel sealing by O-ring and sealing washer (as described in option

TK LUXE) + option G

**G-038** Option G + fluorescent tip on lever.

White fluorescent tip becomes luminous when submitted to ultra violet rays.



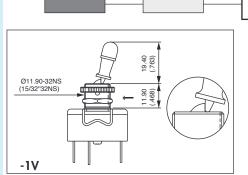
1 O-ring 2 Sealing washer



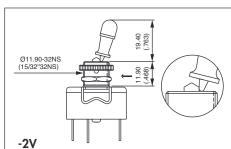
038

### LOCKING LEVERS (1 and 2 pole models)

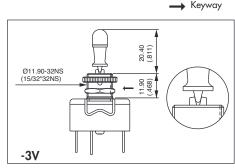
For 3-pole models, refer to 6000 series.



1 locked position



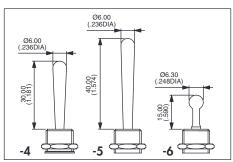
2 locked positions

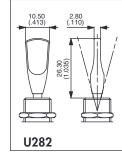


3 locked positions

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

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





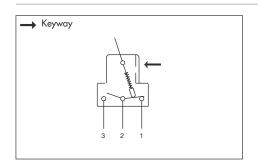
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## 600NH series

## Toggle switches - high amperage - insulated lever

Solder lug/quick-connect terminals - screw terminals



- 2 and 3 maintained or momentary positions
- Solder lug/quick-connect terminals 6,35 x 0,8 (.250 x.031) or screw terminals + clamp
- 1, 2 and 3 pole configurations
- Normalized quick-connect terminals (/3) optional. On request.

 $\mathbf{A} = \text{Angle of throw}$ 

