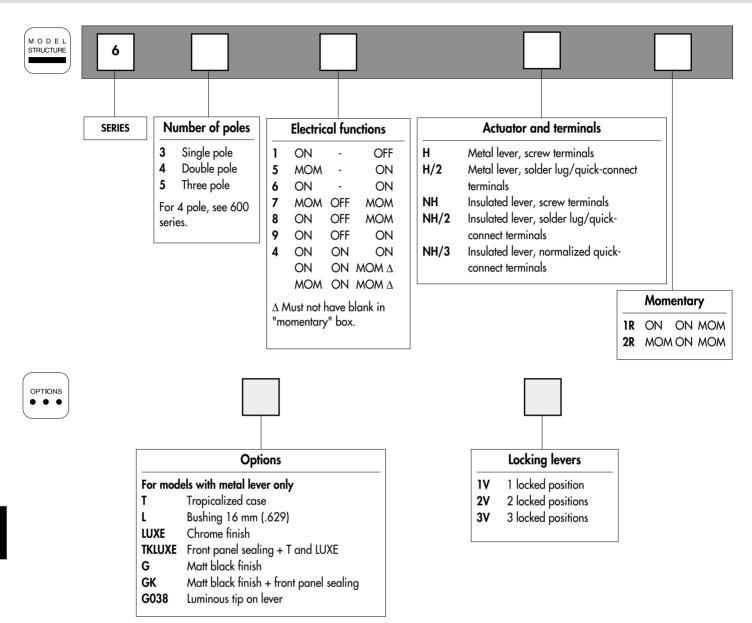
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600H AND 600NH SERIES

TOGGLE SWITCHES - HIGH AMPERAGE

Overview



ABOUT THIS SERIES

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



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



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 ${\sf N}.$



Packaging unit: 25 pieces.

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

\i/

ELECTRICAL SPECIFICATIONS

• Max. current/voltage ratings : see tables below

• Peak current : 30A max. during 1/2 sine, 250VAC • Initial contact resistance : $10 \text{ m}\Omega$ max. at 1A 2VDC

• Insulation resistance : 1.000 M Ω 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 - 600NH			
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 (4-7-8-9)	10A 1/2 HP 125-250VAC		T 85/55 (600H)	
Three pole	ON - OFF (1) & ON - ON (6)		I/2 HP 50VAC	T 125/55 (600NH)	
	Other (4-7-8-9)		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	6.000 cycles		
Other	15A 125VAC 12A 250VAC 5A 25VDC	10.000 cycles		

For peak currents up to 150A,

see section G.

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

I-3 APEM

600H AND 600NH SERIES

TOGGLE SWITCHES - HIGH AMPERAGE

Specifications - Positions and connections

AGENCY APPROVALS



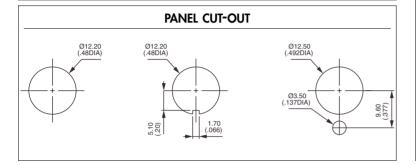






Availability: see chart on previous page.

Marking: approved models are standard marked.



MOUNTING RECOMMENDATIONS

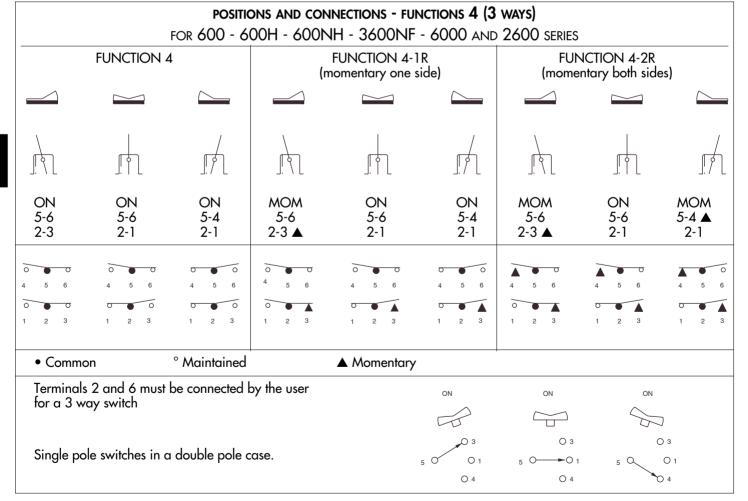
Connection

- 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.

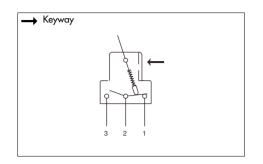
Order separately, see section N.



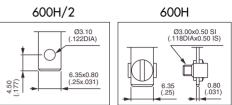
600H SERIES

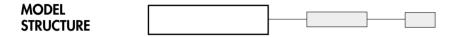
TOGGLE SWITCHES - HIGH AMPERAGE - METAL LEVER Solder lug/quick-connect terminals - screw terminals

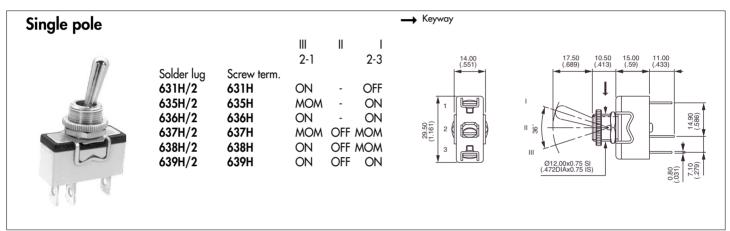


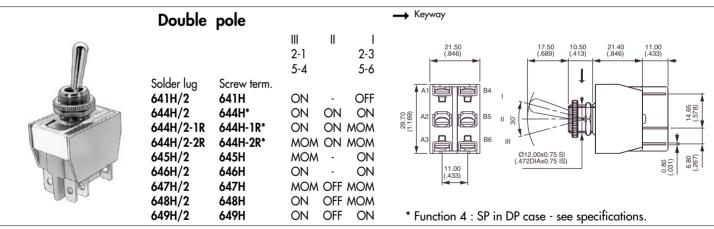


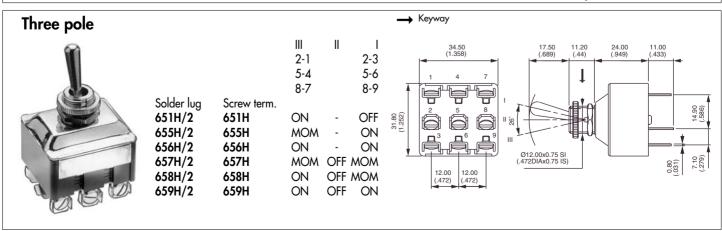
- 2 and 3 maintained or momentary positions
- Solder lug/quick-connect terminals 6,35 x 0,8 (.250 x.031) or screw terminals + clamp
- 1, 2 and 3 pole configurations
- Normalized quick-connect terminals (/3) optional. On request.











APEM I-5

600H SERIES

TOGGLE SWITCHES - HIGH AMPERAGE - METAL LEVER



OPTIONS



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

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

Special threaded bushing, length 16 mm (.629)

LUXE Chrome plated lever and cap nut U117

TK LUXE 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 + options T and LUXE.

G Matt black finish on bushing, lever and nuts.

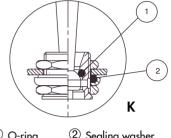
Includes tropicalization (option T)

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

TK LUXE) + option G

Option G + fluorescent tip on lever. G038

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



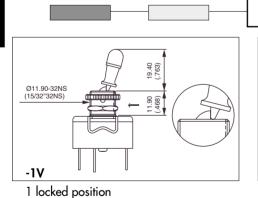
① O-ring 2 Sealing washer

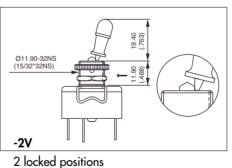


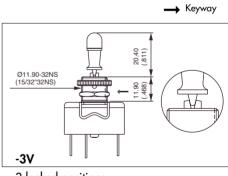
0.38

LOCKING LEVERS (1 and 2 pole models)

For 3-pole models, refer to 6000 series.







3 locked positions

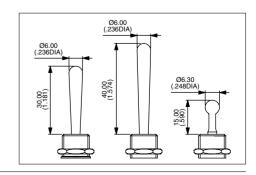
ACTUATOR OPTIONS (1 and 2 pole models)

30 mm (1.181) long actuator

40 mm (1.574) long actuator

Retro style actuator, gold plated or chrome plated

On request.



6-600H SERIES

TOGGLE SWITCHES - METAL LEVER

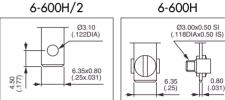


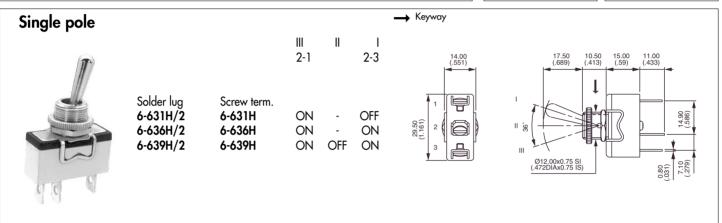
SPECIFICATIONS

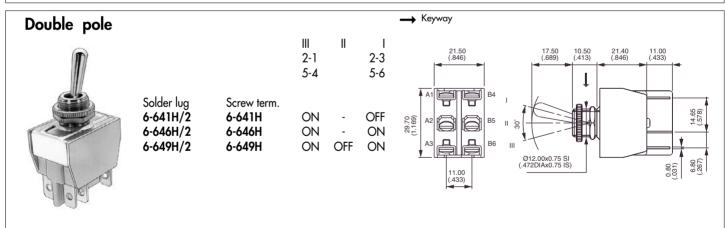
- Max. current/voltage rating with resistive load: 6A 250VAC and 125VAC
- Initial contact resistance : $10m\Omega$ max. at 1A 2VDC Insulation resistance : 1.000 M Ω min. at 500VDC
- Dielectric strength: 2.500 Vrms 50 Hz min. between terminals 2.500 Vrms 50 Hz between terminals and frame
- Electrical life at full load: 10.000 cycles
- 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
- Hardware supplied: 1 hex nut U166 and 1 knurled nut U411

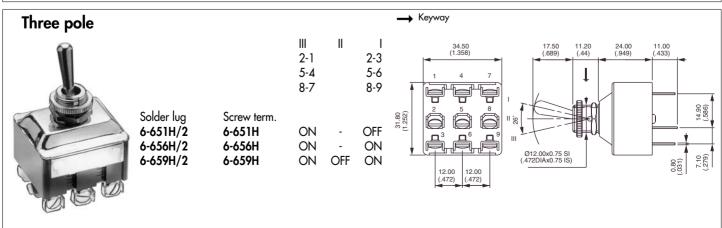
MATERIALS

Case: melamine/polyester
Actuator: brass, nickel plated
Bushing: brass, nickel plated
Contacts: copper, silver plated









APEM I-7

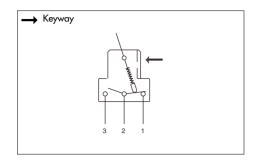
П

600NH SERIES

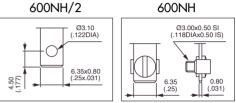
TOGGLE SWITCHES - HIGH AMPERAGE - INSULATED LEVER

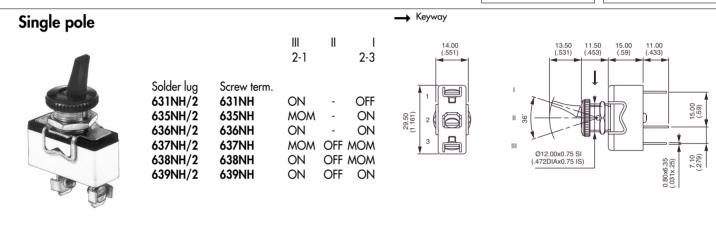


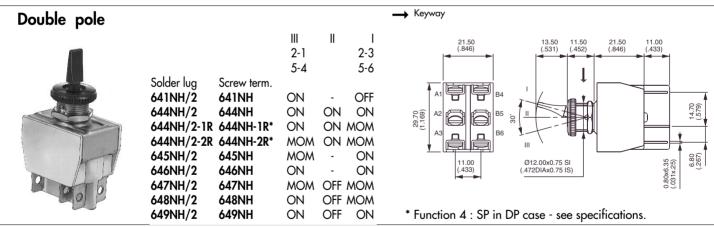
Solder lug/quick-connect terminals - screw terminals

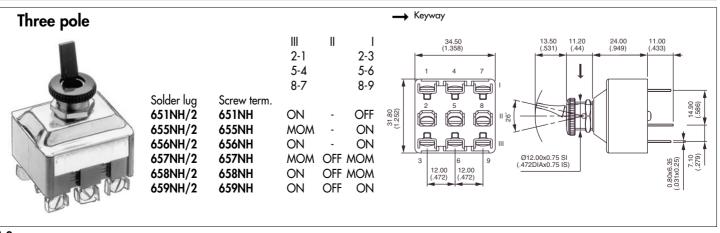


- 2 and 3 maintained or momentary positions
- Solder lug/quick-connect terminals $6,35 \times 0,8$ (.250 x.031) or screw terminals + clamp
- 1, 2 and 3 pole configurations
- Normalized quick-connect terminals (/3) optional. On request.









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6-600NH SERIES

TOGGLE SWITCHES - INSULATED LEVER

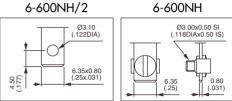


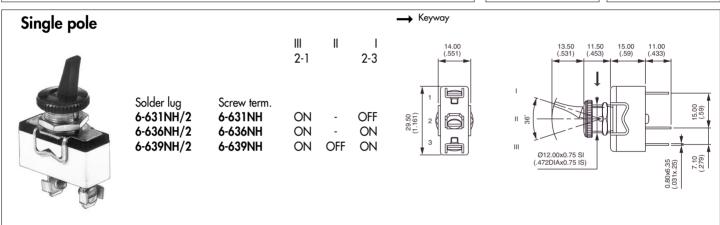
SPECIFICATIONS

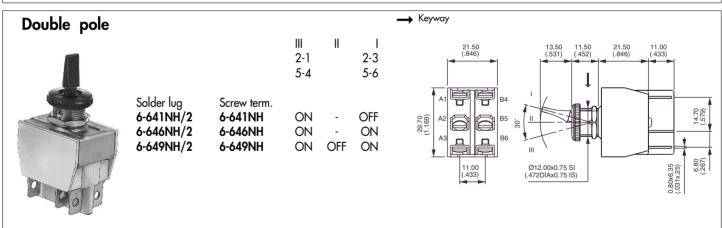
- Max. current/voltage rating with resistive load: 6A 250VAC and 125VAC
- Initial contact resistance : $10m\Omega$ max. at 1A 2VDC Insulation resistance : 1.000 M Ω min. at 500VDC
- Dielectric strength: 2.500 Vrms 50 Hz min. between terminals 2.500 Vrms 50 Hz between terminals and frame
- Electrical life at full load: 10.000 cycles
- 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
- Hardware supplied: 1 hex nut U166 and 1 knurled nut U522

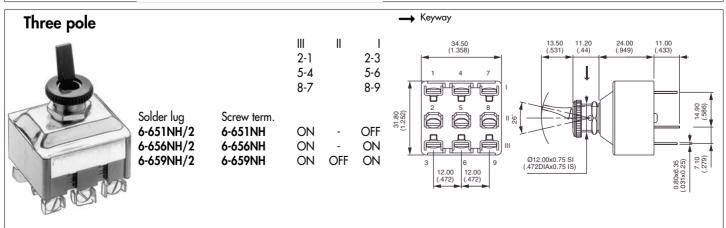
MATERIALS

Case: melamine/polyester
Actuator: black polyamide
Bushing: brass, nickel plated
Contacts: copper, silver plated









APEM I-9