

600H-600NH series

Toggle switches • high amperage



DISTINCTIVE FEATURES

Robust mechanism

High current/voltage rating

Insulated or metal lever

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



ELECTRICAL SPECIFICATIONS

- Max. current/voltage ratings : see tables below
- Peak current : 30 A max. during 1/2 sine, 250 VAC
- 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
2,500 Vrms 50 Hz min. between terminals and frame
- Electrical life : 10,000 cycles at full load

APPROVED RATINGS

Models	Functions	600H - 600NH		
		UL	CSA	NF-VDE
		UL 1054	CSA 22-2	EN 61058-1
Single and double pole	ON - OFF (1)	15 A 1/2 HP 125-250 VAC		10(4) A 400 VAC T 85/55 (600H)
	ON - ON (6)			
	Other (4-5-7-8-9)	10 A 1/2 HP 125-250 VAC		
Three pole	ON - OFF (1) & ON - ON (6)	15 A 1/2 HP 125-250 VAC		T 125/55 (600NH)
	Other (5-7-8-9)	10 A 1/2 HP 125-250 VAC		

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

Functions	Ratings	Electrical life
ON - OFF ON - ON	15 A 250 VAC 10 A 24 VDC 15 A 12 VDC	10,000 cycles
ON OFF ON	15 A 250 VAC 5 A 24 VDC	6,000 cycles 10,000 cycles
Other	15 A 125 VAC 12 A 250 VAC 5 A 24 VDC	10,000 cycles

The company reserves the right to change specifications without notice.



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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 (-4 °F to +131 °F)



MATERIALS

- Case : polyester UL94-V0
- Actuator :
 - 600H : brass, nickel plated
 - 600NH : black polyamide
- Bushing : brass, nickel plated or zinc die-cast (zamak)
- Contacts : silver/nickel alloy

APEM products may be recycled at end-of-life for the re-claiming of valuable metal components.

AGENCY APPROVALS



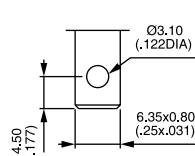
EN 61058-1 EN 61058-1

Availability : see chart on previous page.

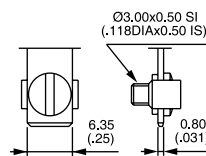
Marking : approved models are standard marked.



TERMINALS



600H/2 & 600NH/2

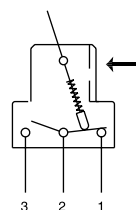


600H & 600NH

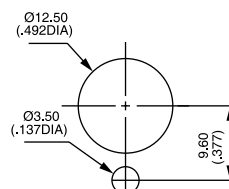
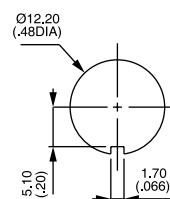
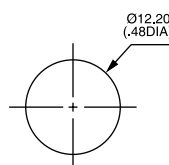


ELECTRICAL FUNCTIONS

→ KEYWAY



PANEL CUT-OUT



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METAL LEVER - SINGLE POLE



Solder lug	Screw	A	III 2-1	II	I 2-3
631H/2	631H	30° ON	-	OFF	
635H/2	635H	26° MOM	-	ON	
636H/2	636H	30° ON	-	ON	
637H/2	637H	30° MOM	OFF	MOM	
638H/2	638H	36° ON	OFF	MOM	
639H/2	639H	36° ON	OFF	ON	

METAL LEVER - DOUBLE POLE



Solder lug	Screw	A	III 2-1 5-4	II	I 2-3 5-6
641H/2	641H	26° ON	-	OFF	
644H/2	644H*	33° ON	ON	ON	
644H/2-1R	644H-1R*	33° ON	ON	MOM	
644H/2-2R	644H-2R*	33° MOM	ON	MOM	
645H/2	645H	26° MOM	-	ON	
646H/2	646H	26° ON	-	ON	
647H/2	647H	26° MOM	OFF	MOM	
648H/2	648H	26° ON	OFF	MOM	
649H/2	649H	32° ON	OFF	ON	

METAL LEVER - THREE POLE



Solder lug	Screw	A	III 2-1 5-4 8-7	II	I 2-3 5-6 8-9
651H/2	651H	24° ON	-	OFF	
655H/2	655H	15° MOM	-	ON	
656H/2	656H	24° ON	-	ON	
657H/2	657H	24° MOM	OFF	MOM	
658H/2	658H	24° ON	OFF	MOM	
659H/2	659H	28° ON	OFF	ON	

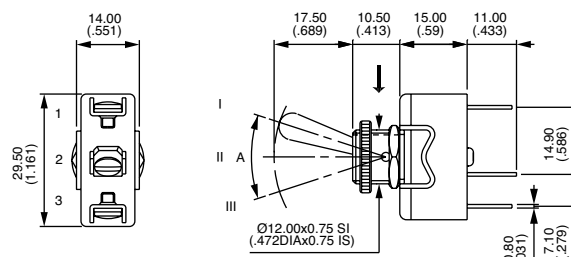
INSULATED LEVER - SINGLE POLE



Solder lug	Screw	A	III 2-1	II	I 2-3
631NH/2	631NH	28° ON	-	OFF	
635NH/2	635NH	24° MOM	-	ON	
636NH/2	636NH	28° ON	-	ON	
637NH/2	637NH	33° MOM	OFF	MOM	
638NH/2	638NH	33° ON	OFF	MOM	
639NH/2	639NH	33° ON	OFF	ON	

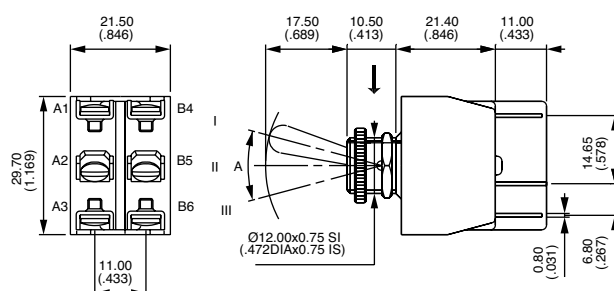
→ KEYWAY

A = Angle of throw



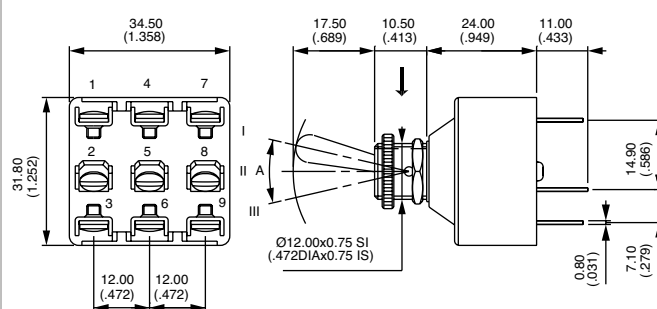
Angle of throw with K sealing option :
functions 1, 5, 6, 7 : 26° - functions 8, 9 : 32°

→ KEYWAY

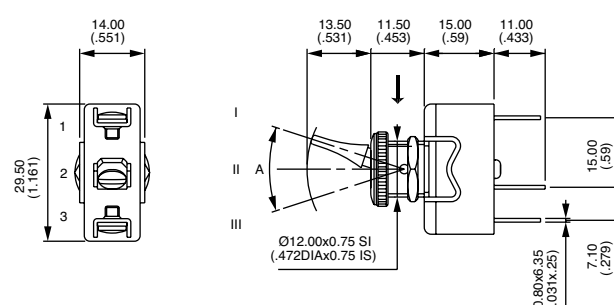


* Function 4 : SP in DP case - see "Technical information" on website

→ KEYWAY



→ KEYWAY



600H-600NH series

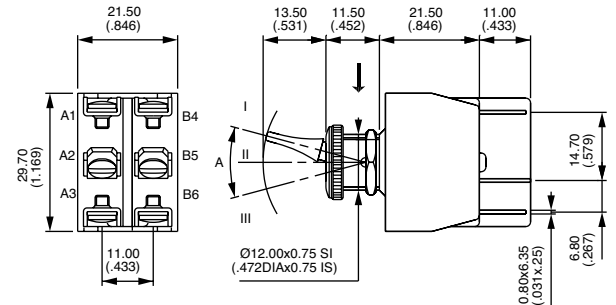
Toggle switches • high amperage

INSULATED LEVER - DOUBLE POLE



Solder lug	Screw	A	III	II	I
			2-1		2-3
			5-4		5-6
641NH/2	641NH	26° ON	-	OFF	
644NH/2	644NH*	30° ON	ON	ON	
644NH/2-1R	644NH-1R*	26° ON	ON	MOM	
644NH/2-2R	644NH-2R*	26° MOM	ON	MOM	
645NH/2	645NH	26° MOM	-	ON	
646NH/2	646NH	26° ON	-	ON	
647NH/2	647NH	26° MOM	OFF	MOM	
648NH/2	648NH	30° ON	OFF	MOM	
649NH/2	649NH	30° ON	OFF	ON	

→ KEYWAY



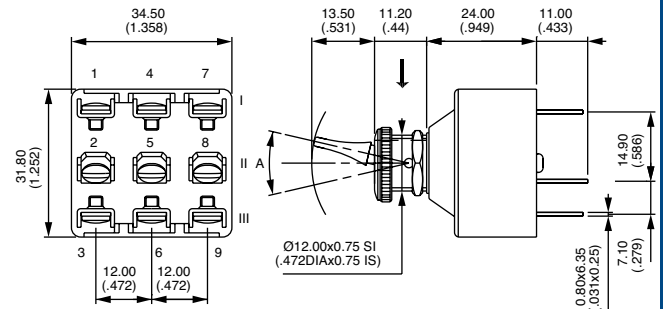
* Function 4 : SP in DP case - see "Technical information" on website

INSULATED LEVER - THREE POLE



Solder lug	Screw	A	III	II	I
			2-1		2-3
			5-4		5-6
			8-7		8-9
651NH/2	651NH	24° ON	-	OFF	
655NH/2	655NH	15° MOM	-	ON	
656NH/2	656NH	24° ON	-	ON	
657NH/2	657NH	24° MOM	OFF	MOM	
658NH/2	658NH	24° ON	OFF	MOM	
659NH/2	659NH	28° ON	OFF	ON	

→ KEYWAY

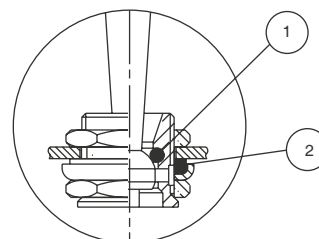


All models also available with normalized quick-connect terminals H/3 or NH/3.

OPTIONS

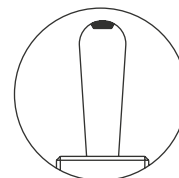
For 600H series only

- T Tropicalized diallylphthalate case (-40 °C to +85 °C) (-40 °F to +185 °F)
- K 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) and locking ring U12.
- GK Option G + front panel sealing by O-ring and sealing washer (as described in option K)
- G-038 Option G + fluorescent tip on lever. White fluorescent tip becomes luminous when submitted to ultra violet rays.



K

- ① O-ring
- ② Sealing washer

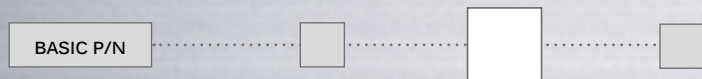


G-038

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LOCKING LEVERS

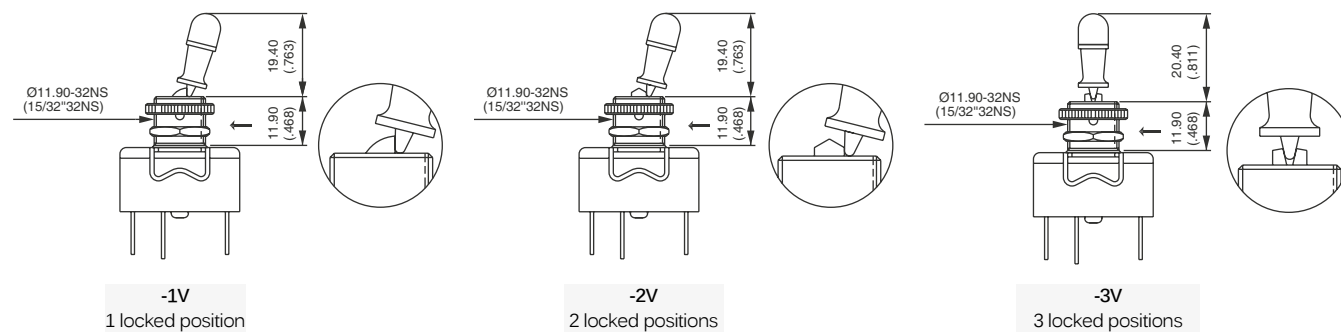


For 600H series only

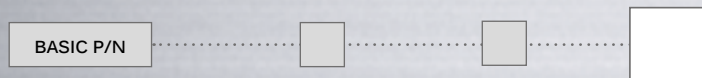
For 1 and 2 pole models.

For 3-pole models, refer to 6000 series.

→ KEYWAY



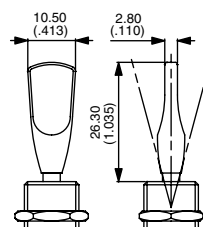
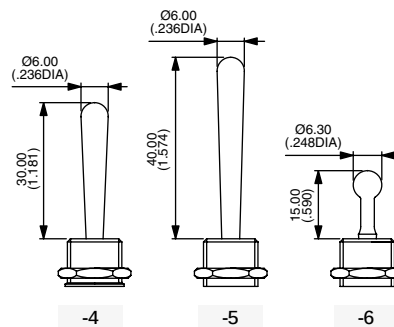
ACTUATOR OPTIONS



For 600H series only

For 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)
- X2595 Ergonomic flat plastic actuator



X2595