

SPECIFICATIONS

Electrical Ratings	5A @ 120VAC, 28VDC; 2A @ 250VAC See Contact Options
Electrical Life	30,000 cycles typical
Contact Resistance	< 20 mΩ max initial @ 2-4VDC, 100mA
Dielectric Strength	1500Vrms min
Insulation Resistance	> 100MΩ min
Operating Temperature	-40°C to 85°C
Storage Temperature	-40°C to 85°C

MATERIALS ←RoHS COMPLIANT

Actuator	Brass, Chrome Plated
Housing	4/6 Nylon, Glass Filled, Flame Retardant Heat Stabilized, UL94V-0
Support Bracket	Steel, Tin Plated
Contacts	Copper Alloy, Silver Plated
Terminals	Copper Alloy, Silver Plated



Process Sealed

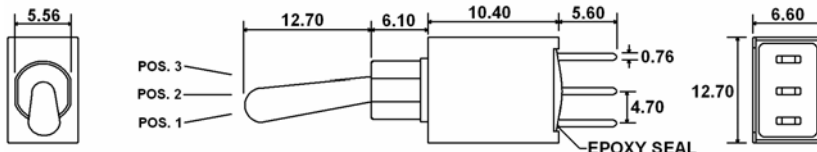
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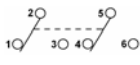
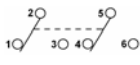
ORDERING INFORMATION

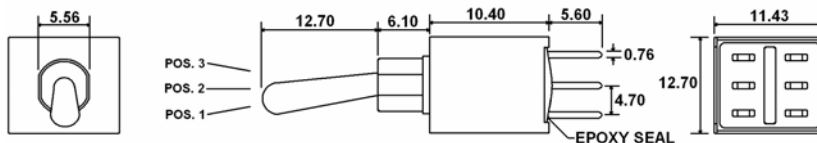
Series:	AST	1	1	T	N	H	Q
AST							
Number of Poles:							
1 = SPDT							
2 = DPDT							
3 = 3PDT							
Switch Function:							
1 = ON-NONE-ON							
2 = ON-NONE-(ON)							
3 = ON-OFF-ON							
4 = (ON)-OFF-(ON)							
5 = ON-OFF-(ON)							
6 = ON-ON-ON **Only in DPDT models							
Actuator:							
T = 7.62mm, Std							
S = 12.70mm, Std							
P1 = 7.62mm, Plastic, Anti-Static							
P2 = 12.70mm, Plastic, Anti-Static							
Bushing:							
E = 8.89mm, Threaded ¼-40 UNS-2A							
N = 6.10mm, Non-Threaded							
Terminals:							
B = Solder Lug							
C = PC Pin							
D = Quick Connect							
H = Horizontal Mount, Right Angle PC Pin; HS = Snap-in							
V = Vertical Mount, Right Angle PC Pin; VS = Snap-in							
S20 = PC Pin with Support Bracket; V20 = Snap-in Support Bracket							
S25 = PC Pin with Support Bracket; V25 = Snap-in Support Bracket							
Contacts:							
Q = Silver Plated							
R = Gold Plated							
G = Gold over Silver Plated							

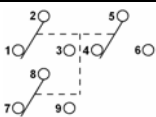
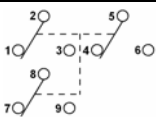
SWITCH FUNCTION

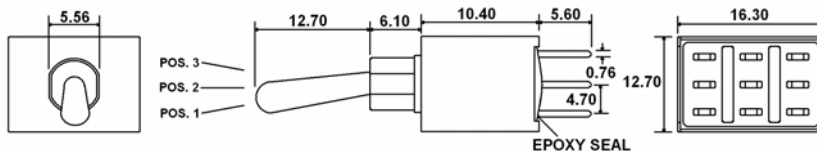
	Function	Toggle Position			
					
SPDT	1	ON	NONE	ON	
	2	ON	NONE	(ON)	
	3	ON	OFF	ON	
Terminals	4	(ON)	OFF	(ON)	
	5	ON	OFF	(ON)	
	Terminals	2-3	---	2-1	



	Function	Toggle Position			
					
DPDT	1	ON	NONE	ON	
	2	ON	NONE	(ON)	
	3	ON	OFF	ON	
	4	(ON)	OFF	(ON)	
	5	ON	OFF	(ON)	
Terminals	6	ON	ON	ON	
	Terminals	2-3 5-6	2-3 5-4	2-1 5-4	

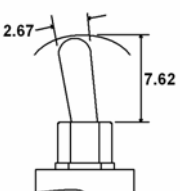
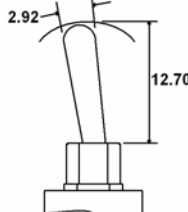
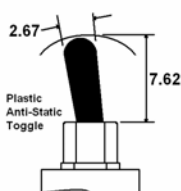
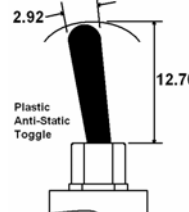


	Function	Toggle Position			
					
3PDT	1	ON	NONE	ON	
	2	ON	NONE	(ON)	
	3	ON	OFF	ON	
Terminals	4	(ON)	OFF	(ON)	
	5	ON	OFF	(ON)	
	Terminals	2-3 5-6 8-9	2-3 5-4 ---	2-1 5-4 8-7	

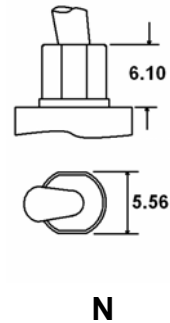
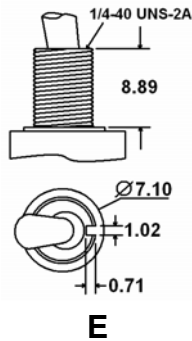


ACTUATOR OPTIONS

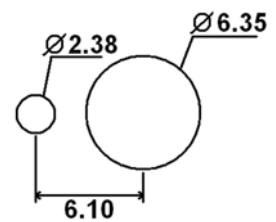
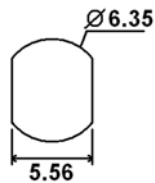
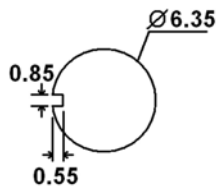
**** Actuator lengths shown with N bushing, subtract 2.15mm for E bushing**

 T	 S	 P1	 P2
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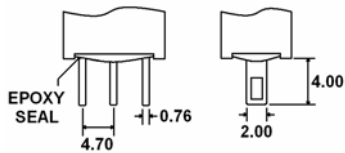
BUSHING OPTIONS



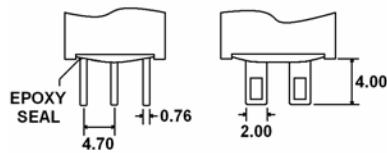
PANEL MOUNTING



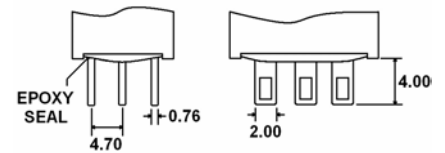
TERMINAL OPTIONS



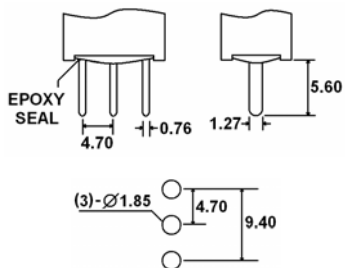
B (Single Pole)



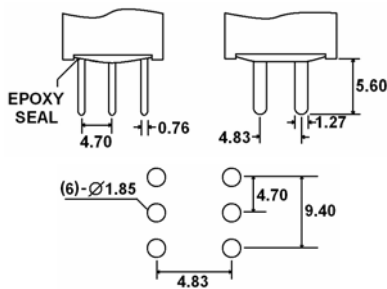
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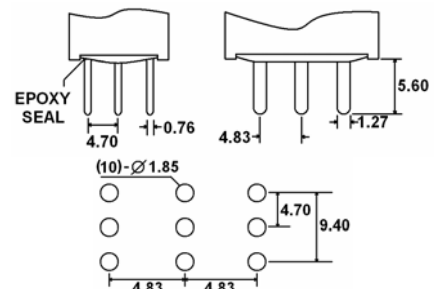
B (3 Pole)



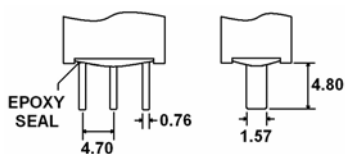
C (Single Pole)



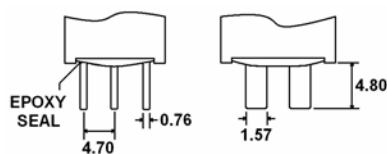
C (Double Pole)



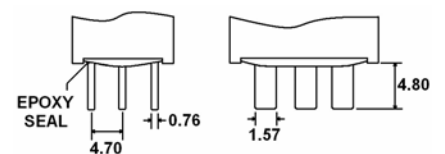
C (3 Pole)



D (Single Pole)

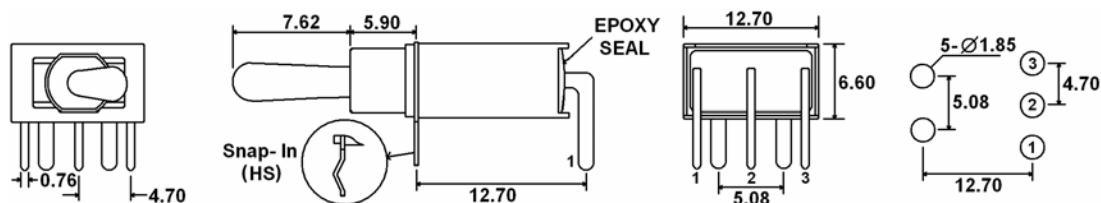


D (Double Pole)

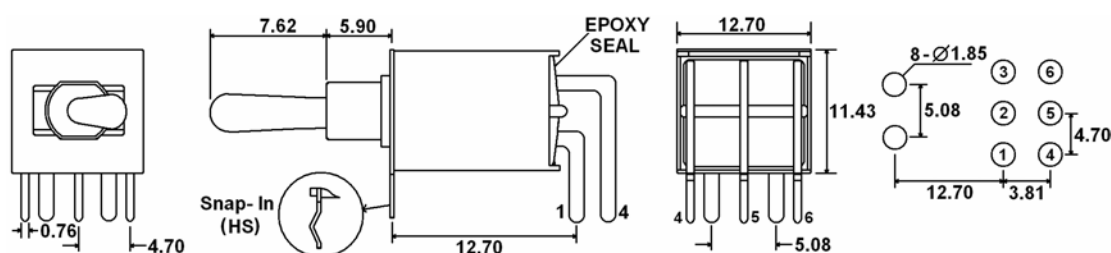


D (3 Pole)

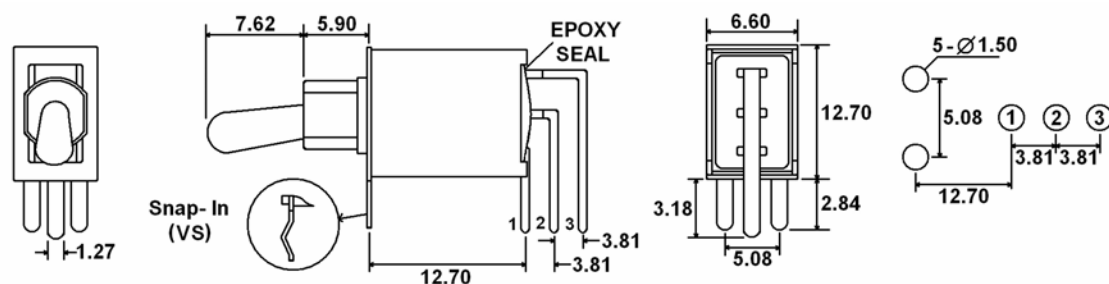
TERMINAL OPTIONS



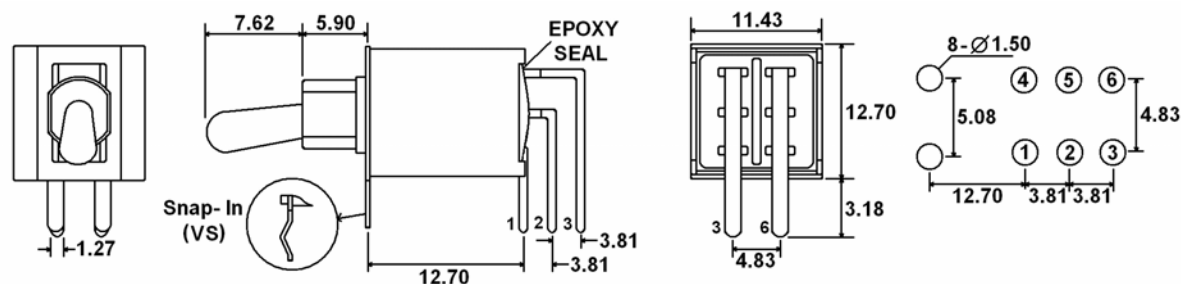
H (HS – Snap-in) = Horizontal Mount, Right Angle PC Pins (Single Pole)



H (HS – Snap-in) = Horizontal Mount, Right Angle PC Pins (Double Pole)

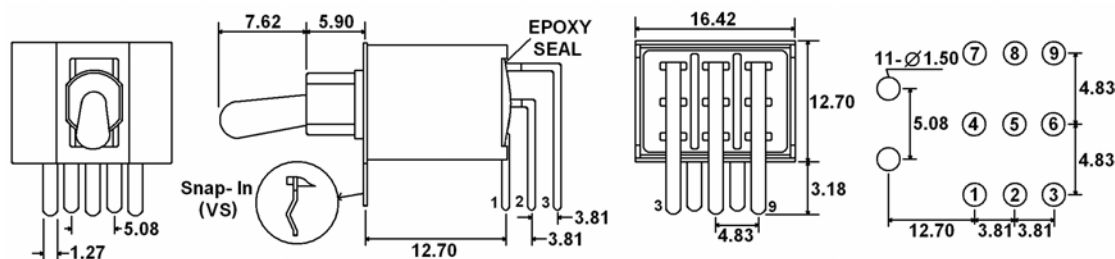


V (VS – Snap-in) = Vertical Mount, Right Angle PC Pins (Single Pole)

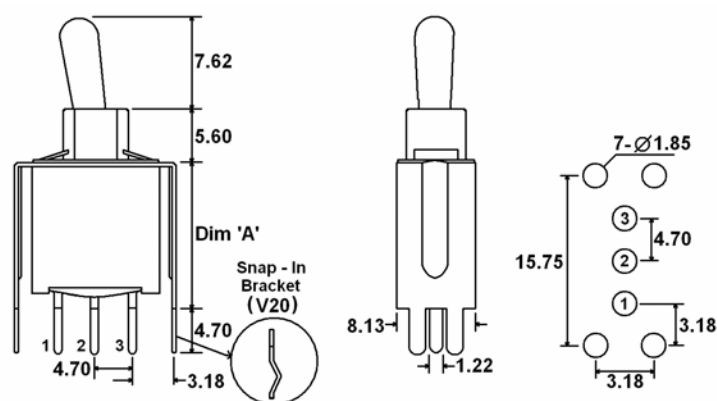


V (VS – Snap-in) = Vertical Mount, Right Angle PC Pins (Double Pole)

TERMINAL OPTIONS

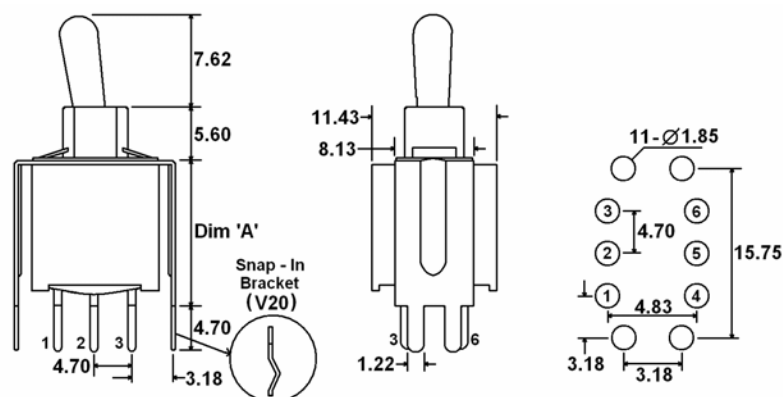


V (VS – Snap-in) = Vertical Mount, Right Angle PC Pins (Three Pole)



Terminal Option	"A" Dimension
S20-V20	11.68
S25-V25	16.00

S20/S25 (V20/V25 – Snap-in Bracket) = PC Pins with Support Bracket (Single Pole)



Terminal Option	"A" Dimension
S20-V20	11.68
S25-V25	16.00

S20/S25 (V20/V25 – Snap-in Bracket) = PC Pins with Support Bracket (Double Pole)

Technical drawings of the Snap-In Bracket (V20) showing front, side, and top views with dimensions.

Front View Dimensions:

- Overall height: 7.62
- Height of the main body: 5.60
- Width of the base: 4.70
- Width of the base segments: 1, 2, 3
- Width of the base segments: 3.18
- Width of the base segments: 4.70

Side View Dimensions:

- Overall height: 16.35
- Width of the base: 8.13
- Width of the base segments: 3, 9
- Width of the base segments: 1.22

Top View Dimensions:

- Overall width: 13 - $\varnothing 1.85$
- Overall height: 15.75
- Width of the base segments: 3.18
- Width of the base segments: 3.18
- Width of the base segments: 4.83
- Width of the base segments: 4.70
- Width of the base segments: 1, 2, 3, 4, 5, 6, 7, 8, 9

Detail View:

- Label: Snap-In Bracket (V20)
- Dimension: 4.70
- Dimension: 3.18

Terminal Option	"A" Dimension
S20-V20	11.68
S25-V25	16.00

CONTACT OPTIONS

Designator	Contact Material	Terminal Material	Electrical Ratings
Q	Silver Plating	Silver Plating	5A @ 120VAC, 28VDC; 2A @ 250VAC
R	Gold over Nickel Plating	Gold over Nickel Plating	.4 VA max @ 20VAC or VDC max
G	Gold over Silver Plating	Gold over Silver Plating	.4 VA max @ 20VAC or VDC max or 5A @ 120VAC, 28VDC; 2A @ 250VAC

The Hex Nut, Lock Washer, and Locking Ring are supplied standard with knurled bearings.					
9.00 1.57 1/4-40 UNS 7.92 Hex Nut	0.46 10.36 Lock Washer	0.75 1.65 11.90 Locking Ring	8.94 3.00 1/4-40 UNS 9.45 Dress Nut	8.00 1.50 1/4-40 UNS Knurled Nut	8.00 4.50 1/4-40 UNS Knurled Nut

****For use with E Bushing**