

## SPECIFICATIONS

- CONTACT RATING:** Dependent upon contact material.
- MECHANICAL LIFE:** 30,000 make-and-break cycles.
- CONTACT RESISTANCE:** 20mΩ max. initial @ 2-4VDC  
100mA for both silver and gold plated contacts.
- INSULATION RESISTANCE:** 1,000MΩ min.
- DIELECTRIC STRENGTH:** 1,000 V RMS@sea level.
- OPERATING TEMPERATURE:** -30°C to 85°C.

## MATERIALS

- CASE & BUSHING :** Glass filled nylon 6/6, flame retardant, heat stabilized (UL94V-0).
- ACTUATOR:** Nylon, black std. Internal O-ring seal standard with all actuators.
- SWITCH SUPPORT:** Brass or steel, tin plated.
- TERMINAL/CONTACT:** Silver or gold plated copper alloy. (See Page 79)

## HOW TO ORDER

MODEL NO.	ACTUATOR	FRAME COLOR	ACTUATOR COLOR	CAP MARKING	TERMINATIONS	TERMINAL MATERIAL	SEAL	ROHS SOLDERING																																																																																													
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ITEM NO	COLOR
1	White
2	Black (Std)
3	Red
4	Orange
5	Yellow
6	Green
7	Blue
8	Brown
9	Gray

## SWITCH FUNCTION

NO. POLES	UL/CSA MODEL NO.	MODEL NO.	SWITCH FUNCTION			CONNECTED TERMINALS / SCHEMATIC		
			POS.1	POS.2	POS.3	POS.1	POS.2	POS.3
SP	Q24A11	4AS1	ON	NONE	ON	2-3	N/A	2-1
	Q24A12	4AS2	ON	NONE	MOM			
	Q24A13	4AS3	ON	OFF	ON		OPEN	
	Q24A14	4AS4	MOM	OFF	MOM			
	Q24A15	4AS5	ON	OFF	MOM	OPEN	N/A	3-1
	Q24A16	4AS6	OFF	NONE	ON			
DP	Q24A21	4AD1	ON	NONE	ON	2-3,5-6	N/A	2-1,5-4
	Q24A22	4AD2	ON	NONE	MOM			
	Q24A23	4AD3	ON	OFF	ON		OPEN	
	Q24A26	4AD6	ON	ON	ON			

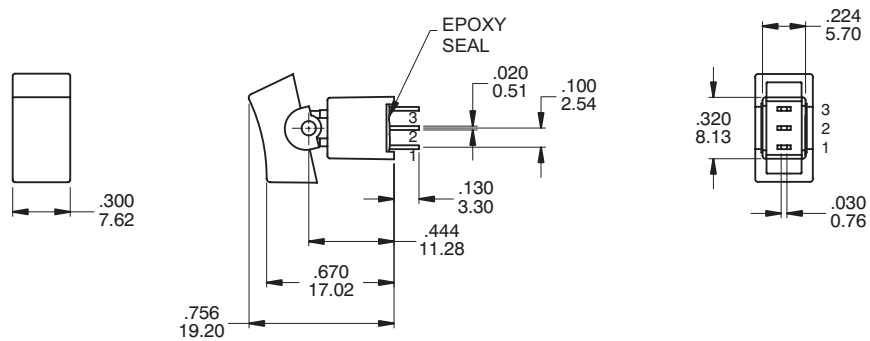
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## POLE OPTIONS



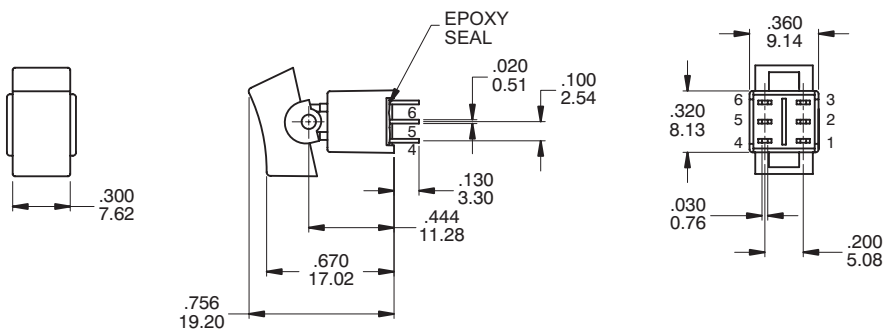
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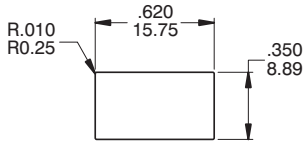
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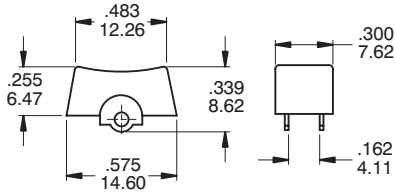


## ACTUATOR OPTIONS - PANEL MOUNT

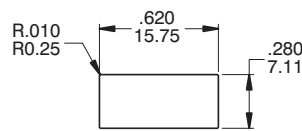
R1



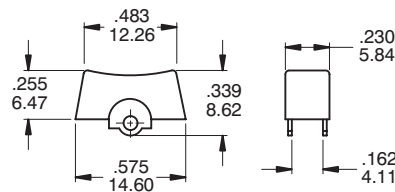
PANEL MOUNTING - R1



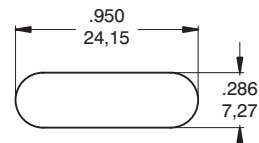
R2



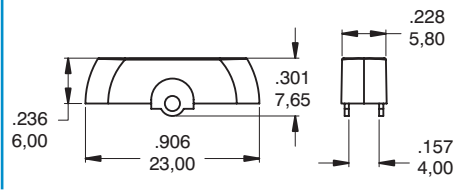
PANEL MOUNTING - R2



R4

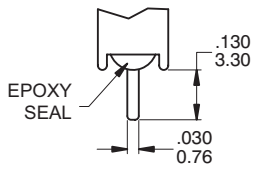


PANEL MOUNTING - R4

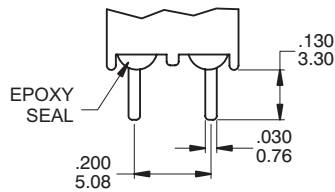


## TERMINATION OPTIONS

M2 P.C. MOUNT

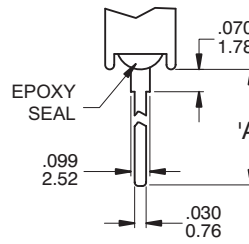


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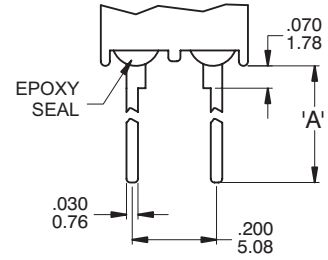


DP

M5 WIRE WEAP



SP



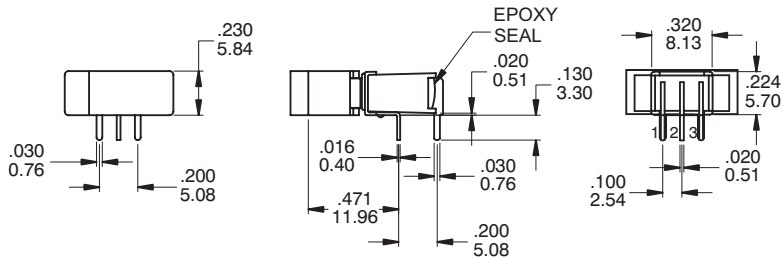
DP

### OTHER TERMINATION OPTIONS

- M6 RIGHT ANGLE P.C. MOUNT
- M7 RIGHT ANGLE P.C. MOUNT
- VS2 VERTICAL BRACKET P.C. MOUNT
- VS3 VERTICAL BRACKET P.C. MOUNT

OPTION CODE	DIM. 'A'
M5-1	.614 ( 15.60 )
M5-2	.236 ( 6.00 )

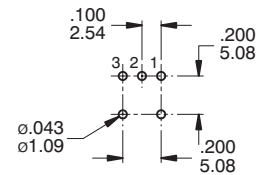
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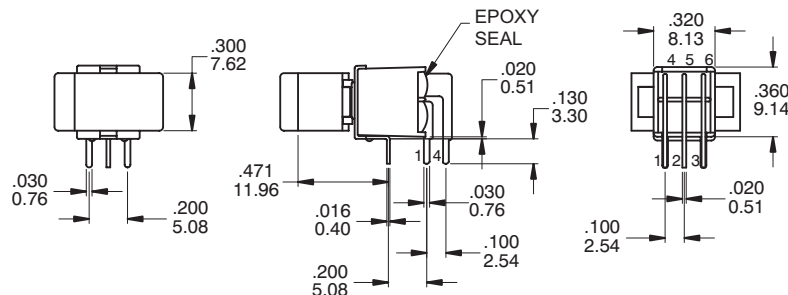
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P.C. MOUNTING



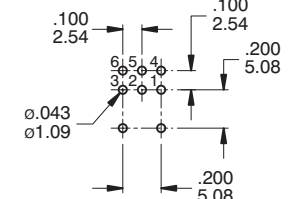
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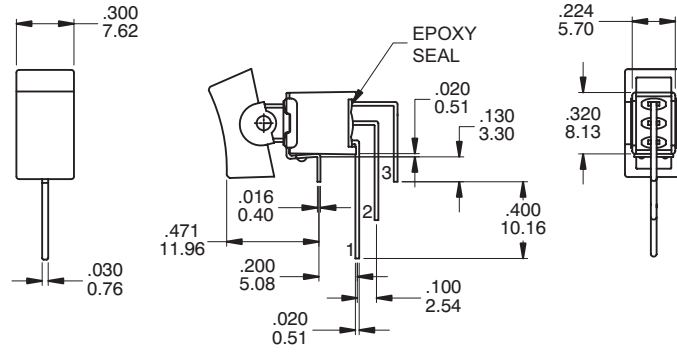
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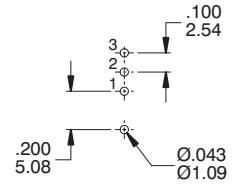
P.C. MOUNTING



M7



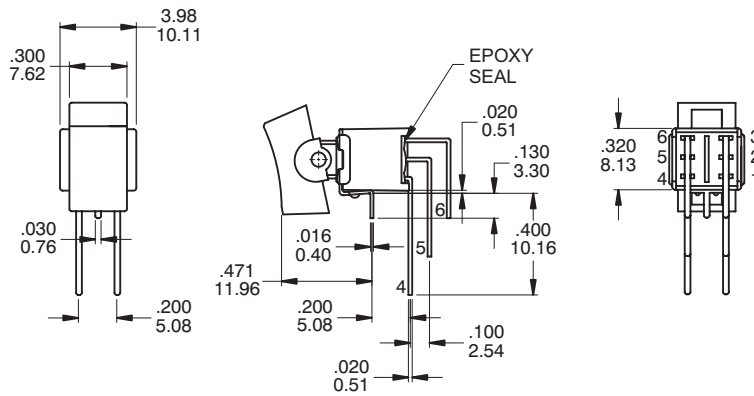
P.C. MOUNTING



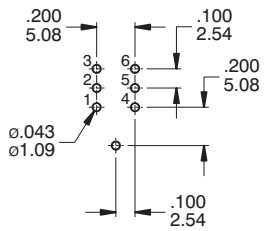
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M7



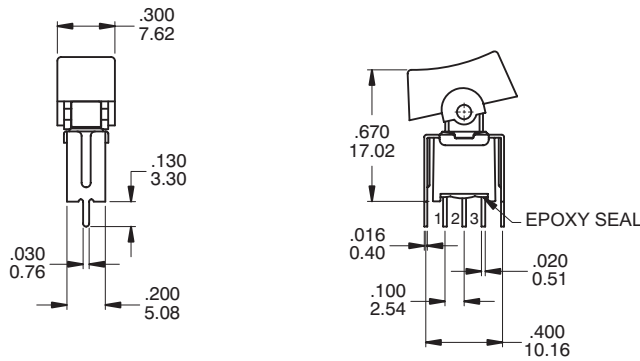
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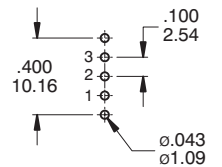
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VS2



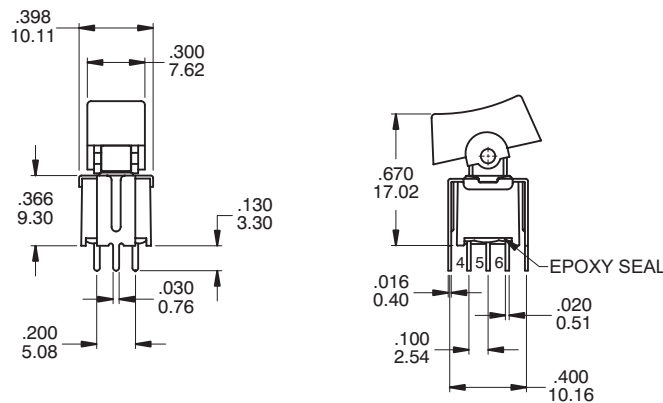
P.C. MOUNTING



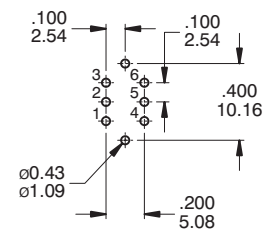
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Part No. Shown : 4AS1R12VS2RE

VS2



P.C. MOUNTING

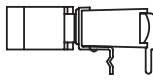
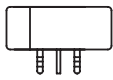


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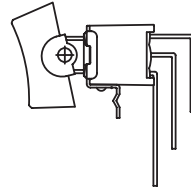
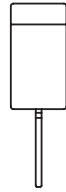
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## SNAP-IM TERMINATION OPTIONS

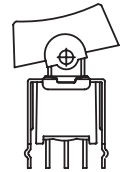
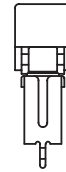
M6N



M7N



V2N



## CONTACT MATERIAL OPTIONS

	CONTACT MATERIAL	TERMINAL PLATING	RATINGS
Q	Silver	Q = Gold flash over silver	3 Amps with resistant load @ 120VAC or 28VDC 1 Amps with resistant load @ 250VA
S		S = Gold flash over silver,pure - tin	
C	Gold over Silver	C = Gold over silver	
K		K = Gold over silver,pure - tin	
R	Gold	R = Gold	0.4 Volt - Amps ( VA ) max. @ 20V max. ( AC or DC )
G		G = Gold,pure - tin	



IP 67  
ACCORDING TO  
EN 60529:1991+A1:2001  
IEC 60529:2001

### SOLDERING PROCESSES

**MANUAL SOLDERING :** Use soldering iron of 30 watts, controlled st 350°C approximately 5 seconds while applying solder.

**WAVE SOLDERING :** Recommended Soldering Temperature : 260 ± 5°C  
Duration of Solder Immersion : 5 ± 1 seconds  
(PCB is 1.6mm in thickness)

### SOLDERING : Vapor phase

#### Temperature Profile

Zone	Room Temperature	Time (Sec)
Pre-heat (A)	150°C	Min 120s
Soak (B)	180°C ~ 200°C	Min 150s
Peak (C)	200°C ~ 235°C	Min 30s
Peak (D)	235°C ~ 260°C	Min 40s
Peak (E)	260°C	Max 10s

