

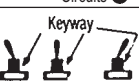
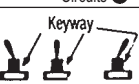
Ordering Table — Standard Toggle Switches

HOW TO ORDER YOUR DESIGN (Bold Face Type indicates items normally in Distributor Stock)

Following the table from left to right, the designer is able to specify the options wanted. The options are described and illustrated on pages 24-31. Refer to page 57 for mounting hardware.

To determine a part number select the options desired and fill in the boxes in the selection guides illustrated below.

Toggle Switch Selection Guide

Toggle Switch Series	Poles and Throw		Circuit		Lever Options		Lever Finish	Bushing Options		Terminal Type		Contact Material		Other																		
Series	Poles and Throw		Circuits 10				Lever Options and Finishes				Bushing Options		Terminal Options 7		Contact Material		Other Option															
	No.	Code			Code	Type	Code	Finish	Code	Type	Code	Type	Code	Type	Code	Type	Code															
A	SPDT	1		POS. "C"	21	Lever Lock K Bushing Only	K1	Bright Chrome 14	1	Splashproof Lever 3 & Bushing Seal	CW	Right Angle PC 1	A	Gold/Nickel/Brass	B	Epoxy Sealed 7	P															
	DPDT	2		ON		OFF	ON	.840 Bat	L0	Stain Chrome	2	Splashproof 3	CX	Vertical PC .100 Spacing	AV	Gold/Nickel/Silver		G	Terminals													
	3PDT	3		ON		NONE	ON	.640 Bat	L1	Black 1	3	Lever Seal Only	D	Vertical PC .150 Spacing	AV2	Coin Silver		Q	Anti-Rotation													
	4PDT	4		ON		NONE	ON*	Long Mod Cap	L3	Black Nylon 8	4	.280 Threaded 2	D9	Printed Circuit Terminals	C	15		M	L													
																				ON*	OFF	ON*	.550 Bat	L2	White Nylon 8	6	.350 Flatted With Shoulder	H	Right Angle 9 Same Throw	R		
																				ON	OFF	ON*	.450 Flat	P1	Locking K1 Lever Only	K	Right Angle 9 Opposite Throw	R2				
																				ON	ON	ON	.250 Flat	P4	15/32 Dia. 12	T	PC & Support 6	V30				
																				ON	ON	ON*	.410 Bat	S	Splashproof Lever 12 15/32 & Panel Seal	TW	PC & Support 6	V40				
																				NONE	ON	ON*	.250 Flat	T1	15/32 Splashproof 12 Lever Seal Only	TX	PC & Support 6	V60				
																				ON*	ON	ON*	.410 Bat	T	.350 Threaded	Y	PC & Support 6	V70				
																				NONE	ON	ON	.468 Large 15		.437 Threaded (With P3 Only)	Y5	.750 Wire Wrap	W				
																							.687 Large 13		.350 Smooth	Y9	.964 Wire Wrap	W1				
										.425 Wire Wrap	W3																					
										1.062 Wire Wrap	W4																					
										Solder Lugs	Z																					
								Quick Connect	Z3																							

*Momentary Contact

1 Available on S, M and P3 only.

2 Add .070 to lever length when using these bushings.

3 Available with S, M, L0, L1, L2, L3, L4 lever options. Consult factory for availability.

4 Standard on P1, P3, P4 and K1 lever options. Available on all other levers except T & T1.

5 These circuits are NOT available with the following 3 and 4 pole options: A, AV, AV2, V30, V40, V60 and V70.

6 1 and 2 pole only.

7 Epoxy seal standard on all terminal options.

EXAMPLES:

A232L01YW1B = DPDT toggle switch with an ON-ON-ON circuit, .840" long lever in a bright chrome finish, .350 threaded bushing, .964" long wire wrap terminals, gold/brass contacts and epoxy sealed terminals.

SPECIFICATIONS:

Contact Ratings —

Letter codes G and Q — 6 amp at 125 VAC, 3 amp @ 250 VAC (U.L. recognized, CSA certified) or 6 amp at 28 VDC resistive.

Letter codes B and G — 0.5. volt-amp (VA) maximum @ 28 V maximum (AC or DC).

Life Under Load — 60,000 make-and-break cycles — resistive load only.

Initial Contact Resistance — 10 milliohms maximum 3 VDC, 100 ma for both silver and gold plated contacts.

Insulation Resistance — 1 & 2 pole —1,000 megohms, min.
3 & 4 pole —1,000 megohms, min.

Dielectric Strength — 1,000 volts rms at sea level.

Bushing Strength — 12 pound-inches without physical damage to switch.

Weight (including hardware) — SP 0.19 oz.; DP 0.23 oz.; 3-pole 0.28 oz.; 4-pole 0.32 oz.

MATERIALS:

Base (body) — 1- and 2-pole —Diallyl Phthalate (DAP).
3- and 4-pole — high strength phenolic.

Lever (toggle) — Brass, chrome plated.

Flat Lever — Brass, satin chrome finish.

Locking lever cap — Anodized aluminum.

Bushing — Brass, nickel plated.

Clamp (frame) — Stainless steel.

Support brackets — Steel, tin plated.

Switching Contacts and Rockers —

Letter Code B — gold/nickel/brass

Letter Code G — gold/nickel/silver

Letter Code Q — Coin silver

Center Terminal

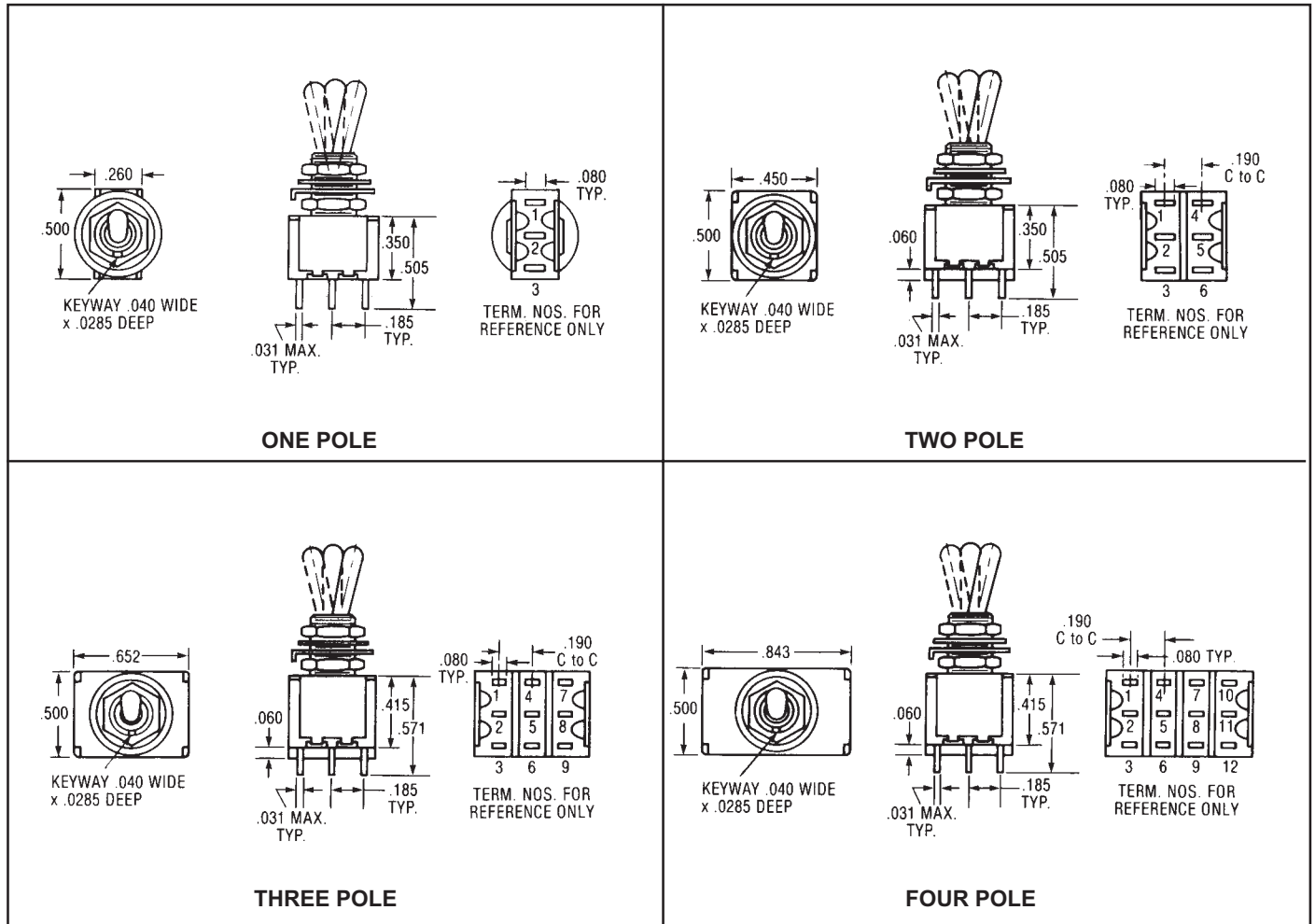
Letter Codes B, G — Gold flash/nickel/brass

Letter Code Q — Silver plated brass.

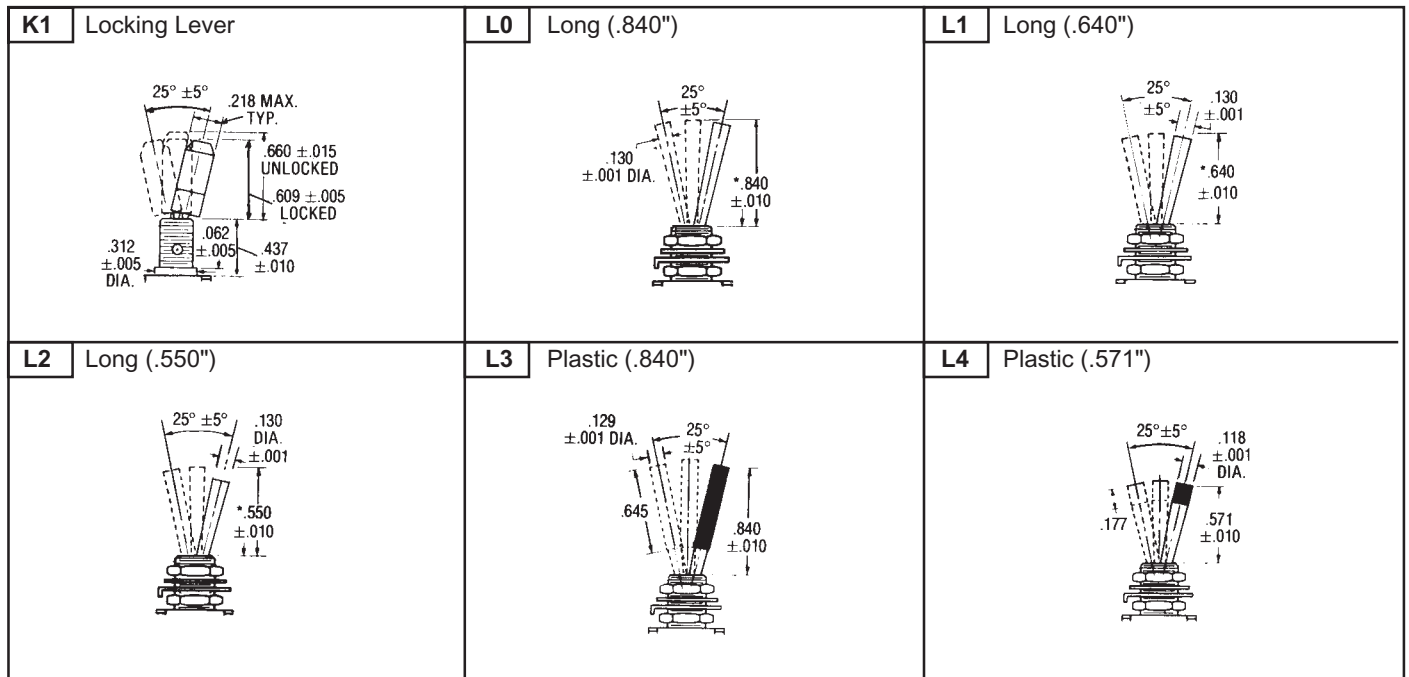
Hardware — See page 55-57.

Toggle Switches — Base Dimensions and Lever Options

APPROXIMATE BASE DIMENSIONS



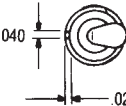
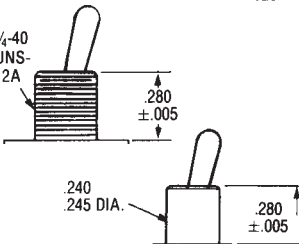
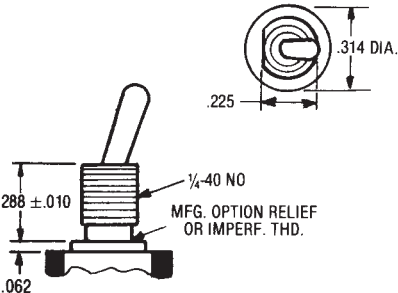
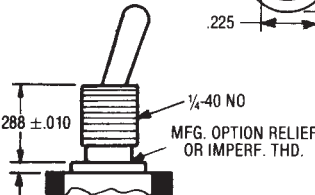
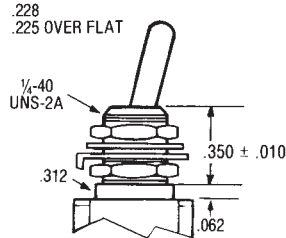
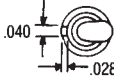
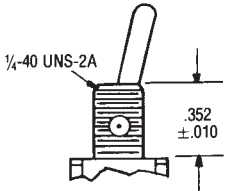
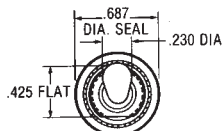
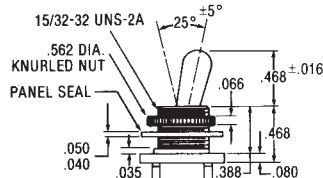
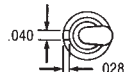
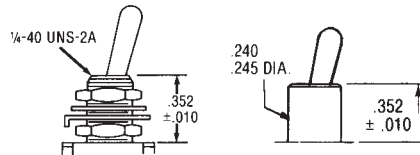
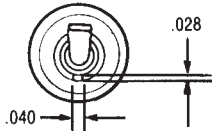
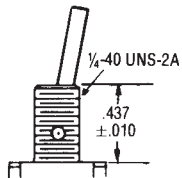
TOGGLE LEVER OPTIONS



Toggle Lever Options — Contd.

M Short (.200") 	P1 Flatted (.840") 	P3 Flatted (.448") 	P4 Flatted (.250")
S Std. Bat (.410") 	T Large Toggle 	T1 Large Toggle 	

BUSHING OPTIONS

CW	Splashproof Sealed Lever and Panel Seal	D D9	Threaded Smooth (No Keyway)
CW = Flatted bushing  		 	
H	High Torque Flatted with Shoulder	H3	High Torque
 			
P	Anti-Rotation		
		 	
TW	Splashproof Sealed Lever and Panel Seal	OX Y Y9	Threaded with Lever Seal Threaded Smooth (No Keyway)
 		 	
Y5	Long Bushing (.437")		
		 	

K Refer to K1 lever drawing for dimensions.

T&TX Refer to T or T1 lever drawing for dimensions.

Note: For hardware refer to pages 55-57.

Termination Options

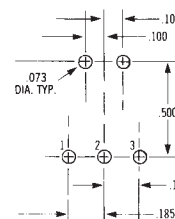
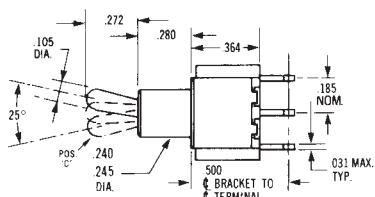
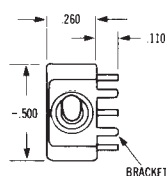
C Printed CIRCUIT	W Wire-Wrap	W1 Wire-Wrap	W3 Wire-Wrap	W4 Wire-Wrap	Z STANDARD	Z3 Quick CONNECT

NOTE: Wire-Wrap is a registered trademark of the Gardner-Denver Company.

Mating Receptacle from
AMP SPECIAL IND.,
P.O. Box 984, Paoli,
Pa. 19301 Amp P/N
single piece 61454
series, strip from 60900

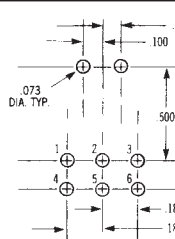
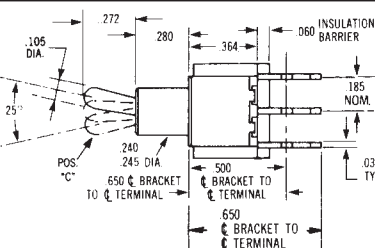
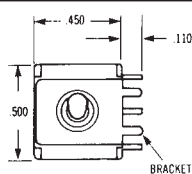
TERMINATION/MOUNTING OPTIONS

A



One Pole

A



Two Pole

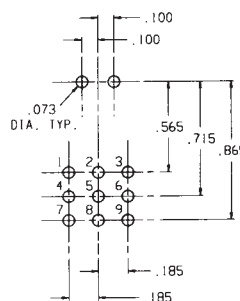
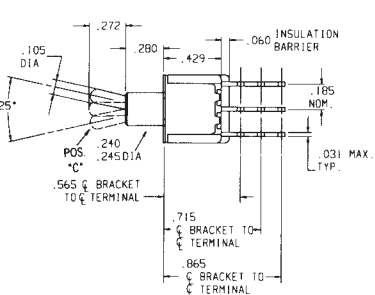
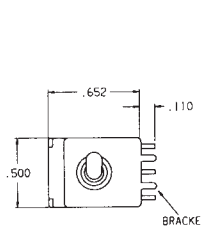
Right Angle P.C. Terminal



EPOXY SEAL
STD. FOR
THIS OPTION

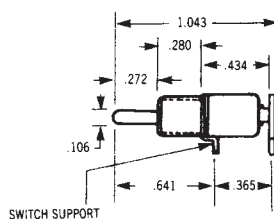
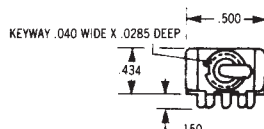


A

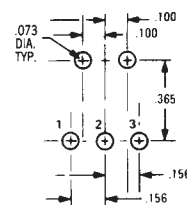


Three Pole

R

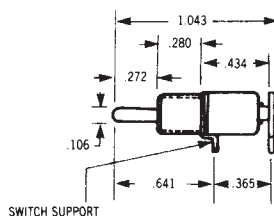
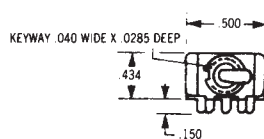


Contacts
Make on
Opposite Side
Toggle
Thrown

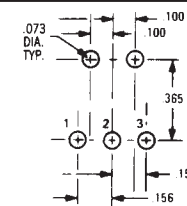


One Pole

R2



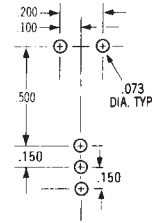
Contacts
Make on
Opposite Side
Toggle
Thrown



One Pole

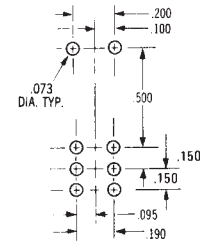
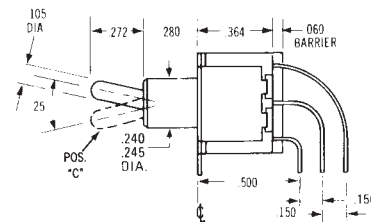
Termination/Mounting Options

AV1	w/.100" terminal spacing
AV2	w/.150" terminal spacing (pictured below)



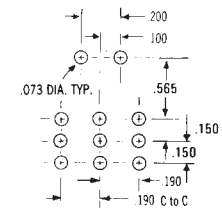
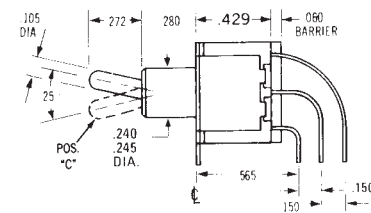
ONE POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

AV1	w/.100" terminal spacing
AV2	w/.150" terminal spacing (pictured below)



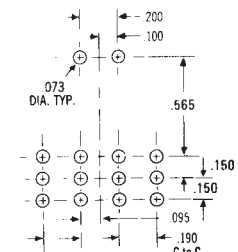
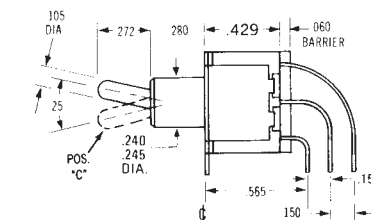
TWO POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

AV	w/.100" terminal spacing
AV2	w/.150" terminal spacing (pictured below)



THREE POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

AV	w/.100" terminal spacing
AV2	w/.150" terminal spacing (pictured below)



FOUR POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

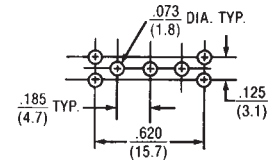
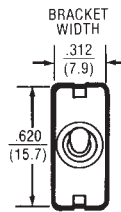
V30



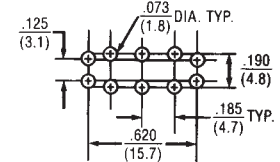
ONE POLE



TWO POLE



1 Pole P.C. Mounting



2 Pole P.C. Mounting

EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS

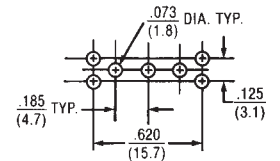
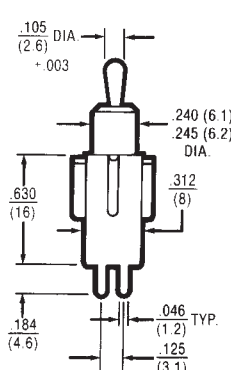
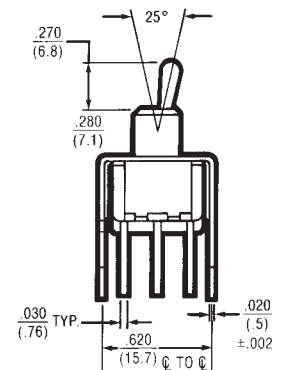
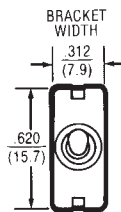
V40



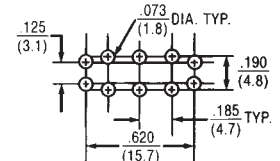
ONE POLE



TWO POLE



1 Pole P.C. Mounting



2 Pole P.C. Mounting

EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS

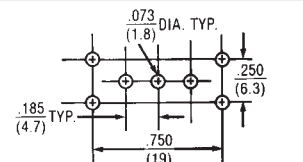
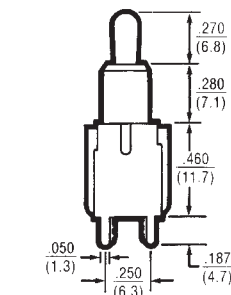
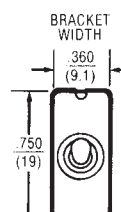
V60



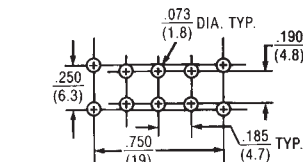
ONE POLE



TWO POLE



1 Pole P.C. Mounting



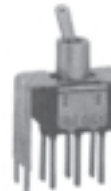
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EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS

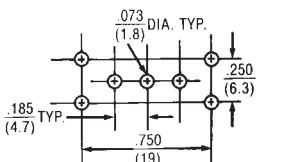
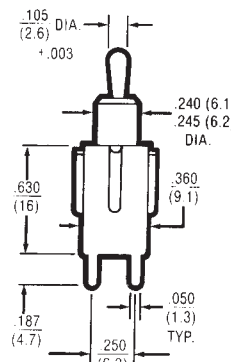
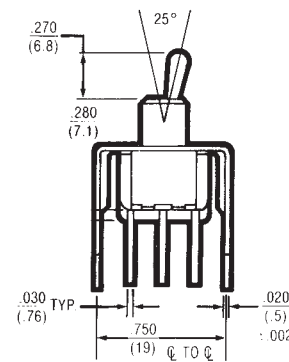
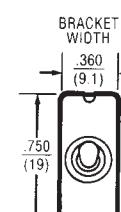
V70



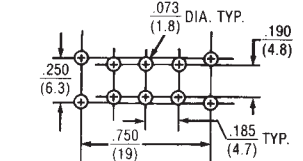
ONE POLE



TWO POLE



1 Pole P.C. Mounting



2 Pole P.C. Mounting

EPOXY SEALED P.C. TERMINALS ARE SUPPLIED AS STANDARD FOR THESE OPTIONS