

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	Keyway		Code	Type	Code	Finish	Code	Type	Code	Type	Code	Type	Code	Type	Code
A	SPDT	1			POS. "C"	Lever Lock K Bushing Only	K1	Bright Chrome 14	1	Splashproof Lever 3 & Bushing Seal	CW	Right Angle PC 11	A	Gold/Nickel/Brass	B	Epoxy Sealed Terminals	P
	DPDT	2	ON	OFF	ON	.840 Bat	L0	Stain Chrome	2	Splashproof 3	CX	Vertical PC .100 Spacing	AV	Gold/Nickel/Silver	G	Anti-Rotation	
	3PDT	3	ON	NONE	ON	.640 Bat	L1	Black 1	3	Lever Seal Only	D	Vertical PC .150 Spacing	AV2	Coin Silver	Q	Anti-Jam	
	4PDT	4	ON	NONE	ON*	Long Mod Cap	L3	Black Nylon 8	4	.280 Threaded 2	D9	Printed Circuit Terminals	C		L	Bushing 4	
						Short Mod Cap	L4	Red Nylon 8	5	.280 Smooth 2	H	Right Angle 9 Same Throw	R		M		
						.200 Bat	P1	With Shoulder	K	Right Angle 9 Opposite Throw							
						.840 Flat	P3	Locking K1 Lever Only	T	PC & Support 6							
						.450 Flat	P4	15/32 Dia. 12	TW	PC & Support 6							
						.250 Flat	S	Splashproof Lever 12 15/32 & Panel Seal	TX	PC & Support 6							
						.410 Bat	T	15/32 Splashproof 12 Lever Seal Only	Y	PC & Support 6							
						.468 Large 15	T1	.350 Threaded	Y5	.750 Wire Wrap							
						.687 Large 13	T	.437 Threaded (With P3 Only)	Y9	.964 Wire Wrap							
	NONE	ON	ON		.425 Wire Wrap												
	ON*	ON	ON*		1.062 Wire Wrap												
	NONE	ON	ON		Solder Lugs												
					Quick Connect												

*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

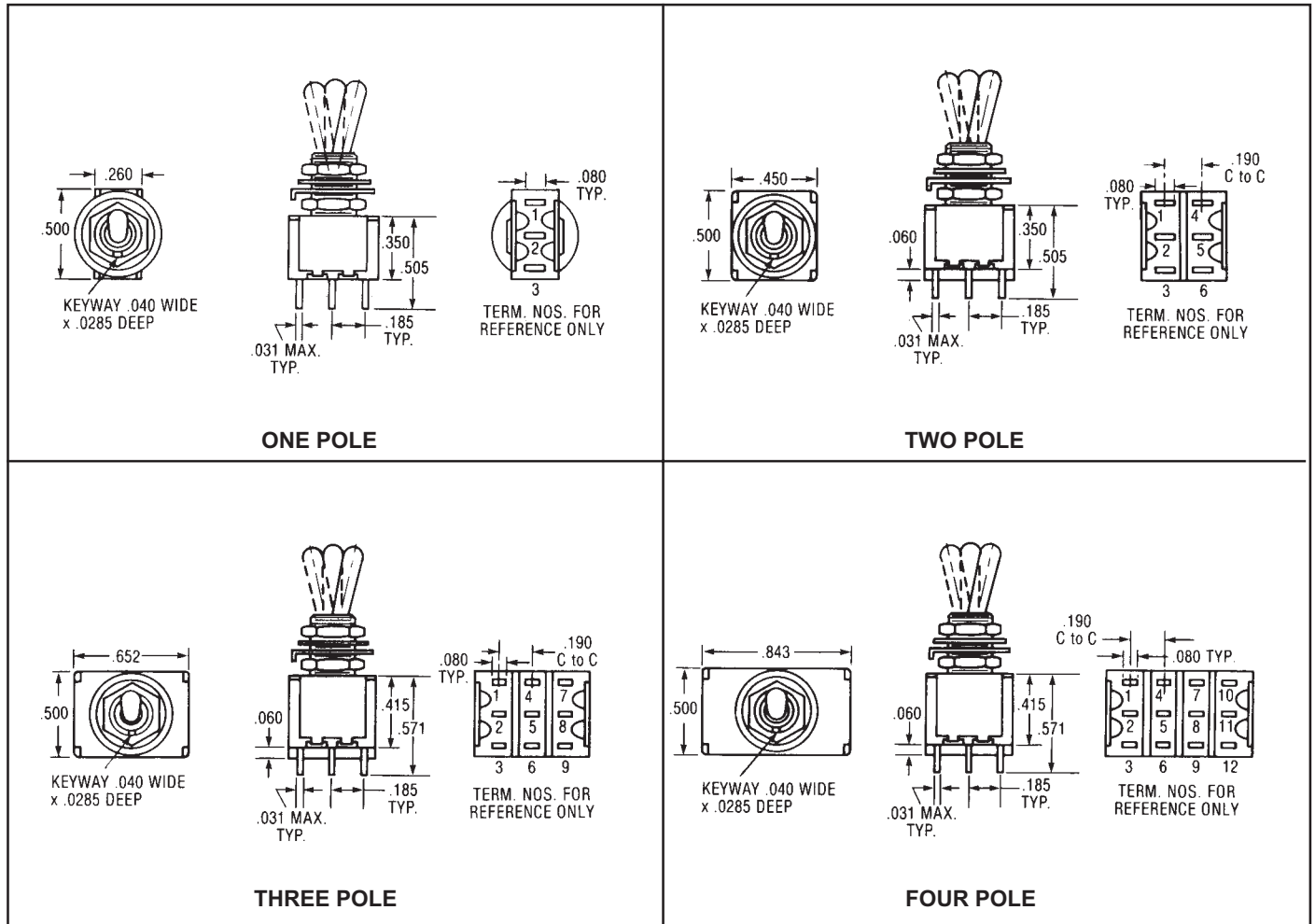
Letter Codes B, G — Gold flash/nickel/brass

Letter Code Q — Silver plated brass.

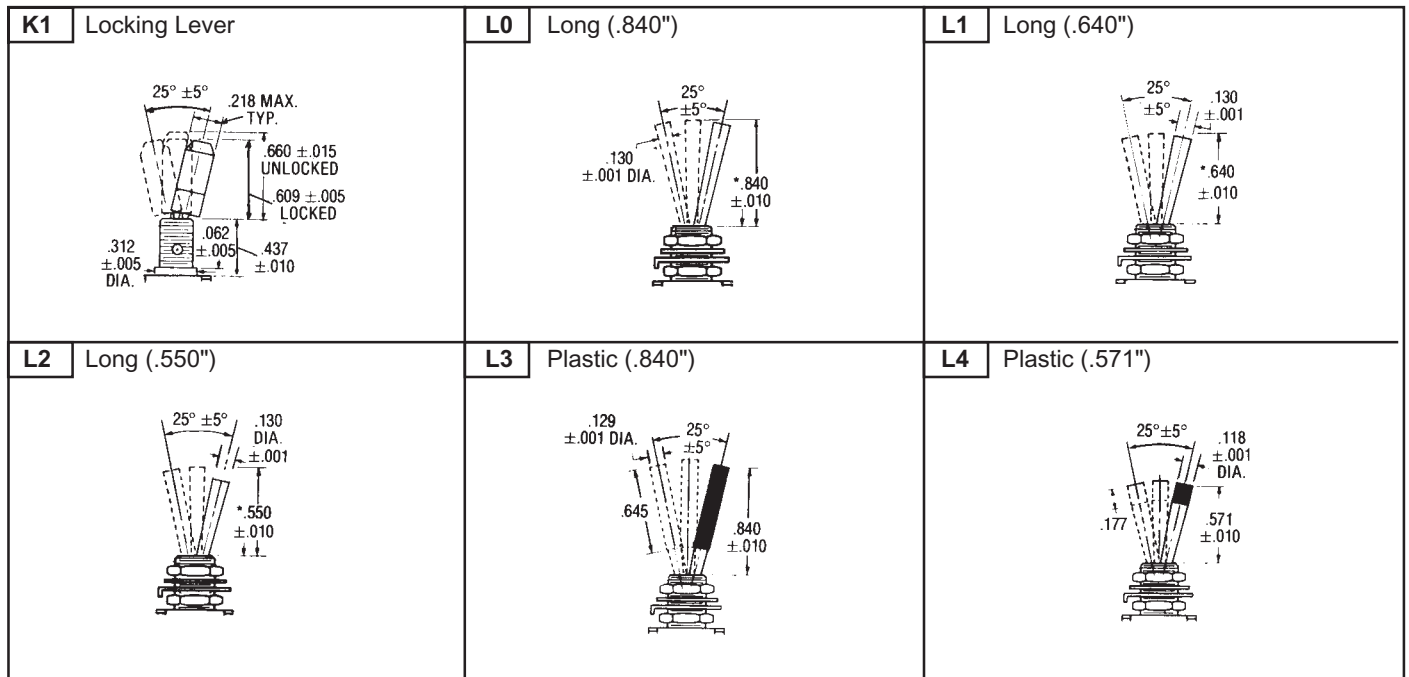
Hardware — See page 55-57.

Toggle Switches — Base Dimensions and Lever Options

APPROXIMATE BASE DIMENSIONS



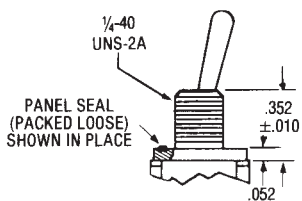
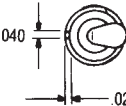
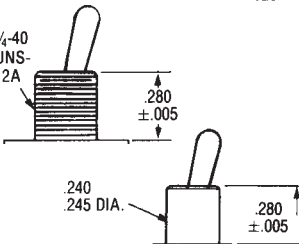
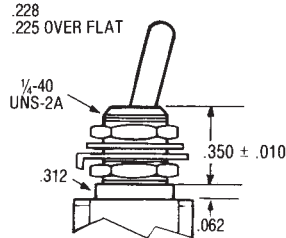
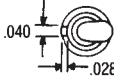
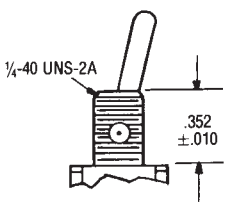
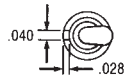
TOGGLE LEVER OPTIONS



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.

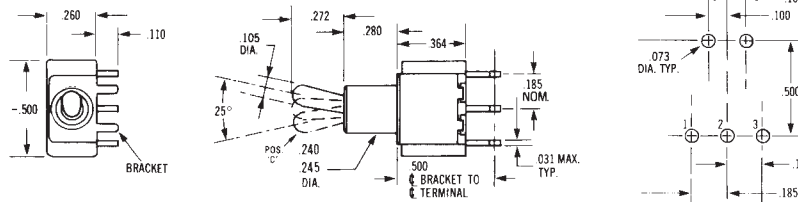
Note: For hardware refer to pages 55-57.

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

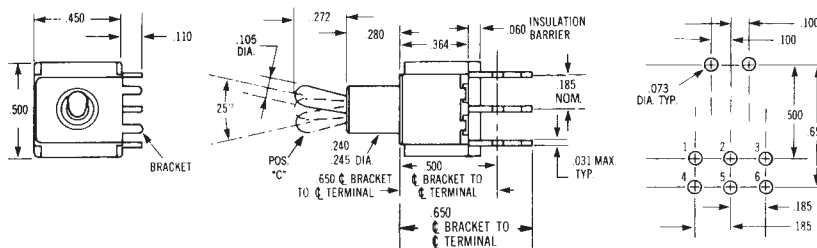
TERMINATION/MOUNTING OPTIONS

A



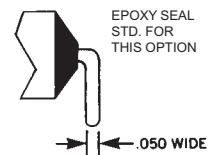
One Pole

A

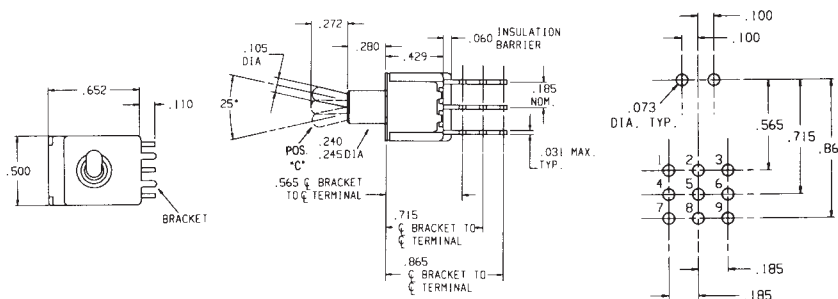


Two Pole

Right Angle P.C. Terminal

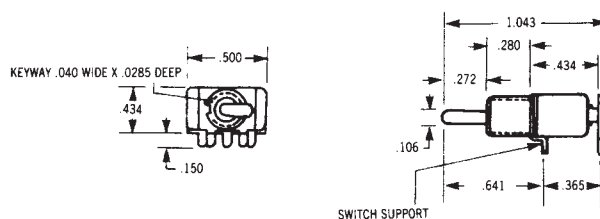


A

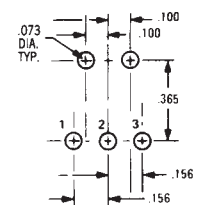


Three Pole

R

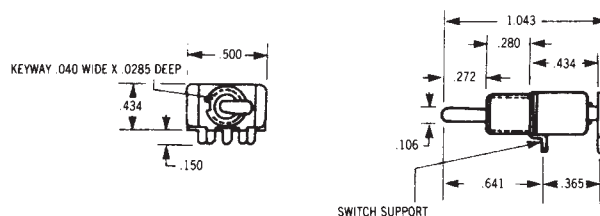


Contacts
Make on
Opposite Side
Toggle
Thrown

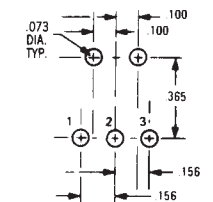


One Pole

R2



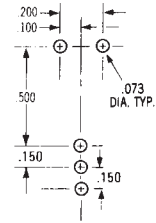
Contacts
Make on
Opposite Side
Toggle
Thrown



One Pole

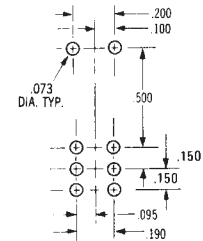
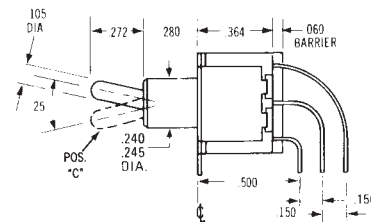
Termination/Mounting Options

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



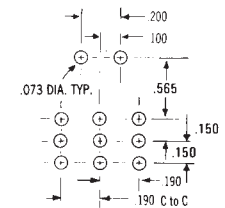
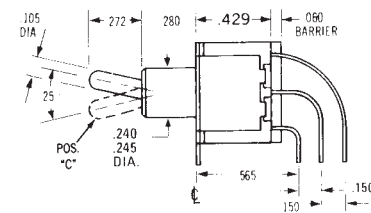
ONE POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

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



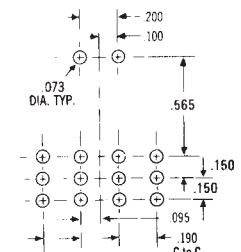
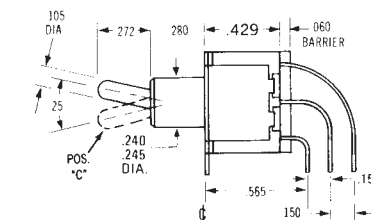
TWO POLE Epoxy sealed P.C. terminals are supplied as standard for these options.

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.

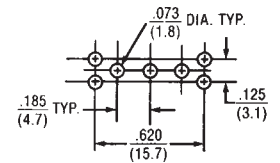
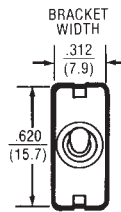
V30



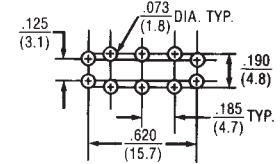
ONE POLE



TWO POLE



1 Pole P.C. Mounting



2 Pole P.C. Mounting

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

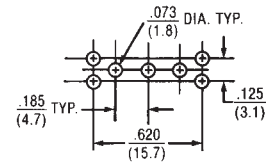
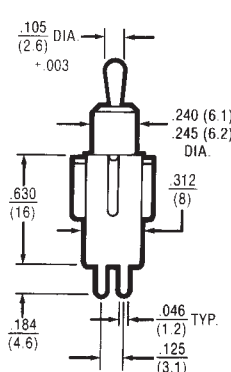
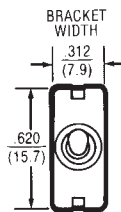
V40



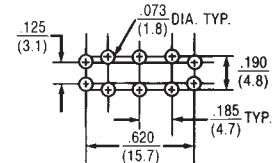
ONE POLE



TWO POLE



1 Pole P.C. Mounting



2 Pole P.C. Mounting

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

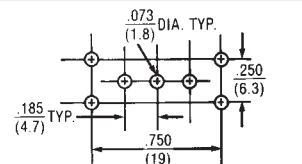
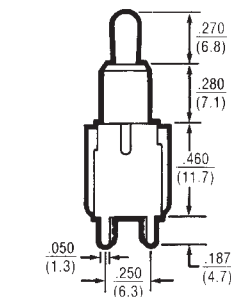
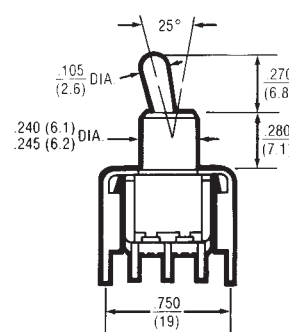
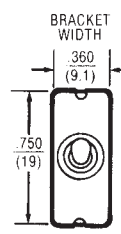
V60



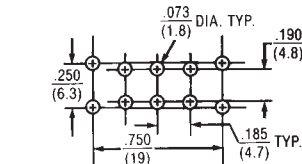
ONE POLE



TWO POLE



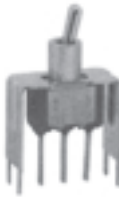
1 Pole P.C. Mounting



2 Pole P.C. Mounting

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

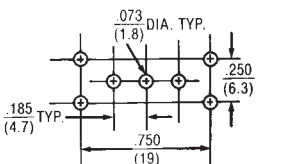
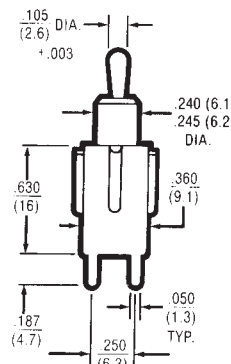
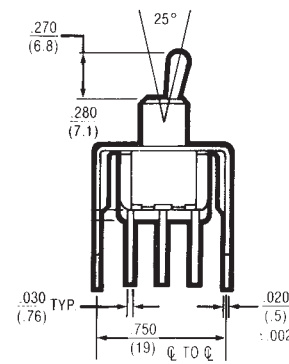
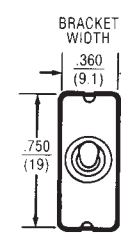
V70



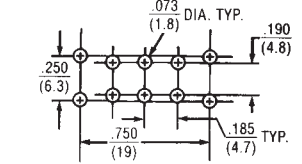
ONE POLE



TWO POLE



1 Pole P.C. Mounting



2 Pole P.C. Mounting

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