



#### Features

- AC coils: 6-240VAC, 50/60 Hz. DC: 6-110VDC.
- Contact arrangement up to 4PDT.
- Wide selection of termination and mounting styles.
- PC terminals available.
- Push to test button and indicator lamps.
- KUEP incorporates a blow out magnet for high voltage DC switching.
- KUIP/KUGP are VDE approved.
- Complete line of sockets and DIN rail.
- Class B coil insulation.

#### Contact Data @ 25°C

Arrangements: See respective ordering information table. Materials: Fine silver (5 amp) silver-cadmium oxide (10 amp).

Gold flash available as standard.

Gold diffused and gold alloy on special order.

Expected Mechanical Life:

#### **Contact Ratings**

Material	Arrangement	UL/CSA Ratings	Expected Life
Fine Silver	All	5 amps @ 28VDC or 240VAC 80% PF, 2.5 amp tungsten @120VAC, 1/2 amp @ 120VDC. 1/6 HP @120VAC, 1/3 HP @ 240VAC, 5 FLA, 15 LRA @ 250VAC (FLA covered by 30,000 operations).	100,000
Silver- Cadmium Oxide	1-2 Pole KUP KUIP KUGP KUEP All KUMP	10 amps @ 28VDC or 240VAC, 80% PF, 5 amp tungsten @ 120VAC, 3A 600VAC, 1/2 amp @ 120VDC. 1/3 HP @ 120VAC, 1/2 HP @ 240, 480, and 600VAC, 10 FLA 30 LRA @ 120VAC, 5 FLA, 15 LRA @ 250VAC.(FLA ratings covered by 30,000 operations)	100,000
	KUMP	15 amp @ 277VAC, 80% PF KUM KUMP	100,000
	3 Pole KUP KUIP 4 Pole	10 amp @ 28VDC or 120VAC, 80% PF, 6 2/3 amp @ 240VAC, 80% PF 10 amp per pole not to exceed	100,000
		30 amp total @ 28VDC, 120VAC, 80% PF, 6 2/3 amp @ 240VAC, 80% PF	100,000
	KUEP SPST-NO KUEP 2PST-NO KUEP	10 amp @ 150VDC 5 amp @ 150VDC	
	2PDT ngs apply KUEP.)	3 amp @ 150VDC	100,000

(All other AC ratings apply KUEP.)

#### **Initial Dielectric Strength**

Between Open Contacts: 1,200V rms; KUGP, 3,500V rms. Between Adjacent Contacts: 2,200V rms. Between Contacts and Coil: 2,200V rms; KUGP, KUIP, 3,750V rms.

# $KU\xspace$ series

#### KUP Enclosed Relay KUIP VDE 8mm Coil to Contacts KUGP VDE 8mm 3mm Gap Coil to Contacts KUEP 10 Amp 150VDC Load Switching KUMP 15 Amp 277VAC

- **A** File E22575
- File LR15734
- ↔ 0435 Registration 1792 (KUIP)
- ▲ 0435 Registration 1792 (KUGP)

License 81.12102.01

#### Coil Data @ 25°C

Voltage: 6 to 110VDC and 6 to 240VAC.

#### Nominal Coil Power:

DC Coils: 1.2 Watts - KUP, KUIP, KUMP, 1 - 3 pole; KUEP, 1 pole.

- DC Coils: 1.8 Watts KUP, 4 pole; KUEP, 2 pole; KUGP.
- AC Coils: 2.0VA KUP, KUIP, 1 2 pole; KUEP, 1 pole.
- AC Coils: 2.7VA KUP, KUIP, 3 pole; KUEP, 2 pole; KUGP, KUMP.

#### Coil Data

DC Volts	1.2 Wa	att	1.8 V	/att
Nominal	DC Ohms ± 10%	Nom. I ma	DC Ohms ± 10%	Nom. I ma
5	21	238	14	360
6	32.1	187	20	300
12	120	100	80	150
24	472	51	320	75
48	1,800	26.7	1,260	38
110	10,000	11	6,720	16
AC Volts	2VA		2.7VA	
Nominal	DC Ohms ± 15%	Nom. I ma	DC Ohms ± 15%	Nom. I ma
6	6	335	4.2	460
12	24	168	18	230
24	85	84	72	115
120	2,250	17.5	1,700	24
240	9,110	8.75	7,200	12

#### Operate Data @ 25°C

#### Must Operate Voltage:

DC Coils: 75% of nominal voltage or less. AC Coils: 85% of nominal voltage or less. Operating Time (Excluding Bounce):

15 milliseconds, typical, at nominal voltage. Release Time (Excluding Bounce):

10 milliseconds, typical, at nominal voltage.

#### **Environmental Data**

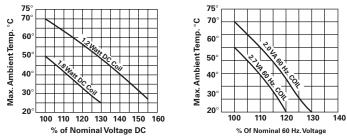
#### Temperature Range:

Operating: Enclosed Relays: -45°C to maximum listed in table below. Open Relays: Add 15°C to maximum listed.

Max C°	+45°C	+50°C	+55°C	+70°C	+75°C	+80°C	+95°C
KUP	AC	DC	AC	DC			
	3-4 pole	4 pole	1-2 pole	1-3 pole			
KUIP				AC		AC	DC
				3 pole		1-2 pole	1-3 pole
KUGP				AC	DC		
				2 pole	2 pole		
KUEP	AC	DC	AC	DC			
	2 pole	2 pole	1 pole	1 pole			
KUMP	AC		AC	DC			
	3 pole		1-2 pole	1-3 pole			

### **Environmental Data (Continued)**

Maximum Allowable Ambient Temperature vs. Voltage (KU enclosed)



#### **Mechanical Data**

Termination: Quick connect, solder and PC board. **Enclosure:** Clear polycarbonate dust cover. **Weight:** 3.0 oz. (85g) approximately.

rd	ering Inforr	nation						1			
			Тур	pical Part No.	► KU	-14	Α	1	5	F	-1
•	<b>Basic Series</b> KU = Basic o KUP = Basic				KU	P					
2.	<b>Contact Arra</b> 1 = 1A (SPST 2 = 1B (SPST 3 = 1X (SPST 4 = 1Y (SPST 5 = 1C (SPDT	-NO) 6 = -NC) 7 = -NO-DM) 8 = -NC-DB) 11 =	: 1Z (SPDT-NC-NO [DE 2A (DPST-NO) 2B (DPST-NC) 2C (DPDT) 3A (3PST-NO)	14 : 15 : 16 :	= 3B (3PST-NC = 3C (3PDT) = 4A (4PST-NO = 4B (4PST-NC = 4C (4PDT)	)					
3.	<b>Coil Input:</b> A = AC 50/60 D = DC	) Hz. DS = D	Diode Suppression (DC	C coil only)			_				
4.	Mountings:										
	Туре	KU	KUP (through 3 pol	es)	К	JP (4 pole mod	els)				
	Codes Available	1,2,3,4,5	1,2,3,4,5,6,7,8,9 A,B,C,D,E,F,G,H,T	-		1,3,5,7,9,A,C,E,	G				
5	1 = #6-32 stu (5.54mm) tab. 2 = 2-hole bra #6-32 tap .125" (3.18 locating t: 4 = #6-32 tap .218" (5.5 locating t: 5 = #6-32 tap no locatin	) locating 3 acket, 5 ped. 6 pped.core, 7 3mm) 8 ab. 9 pped core, 4 4mm) ab. * In pped core, 6	<ul> <li>with test button.</li> <li>with indicator lamp</li> <li>with test button &amp; i</li> <li>BRACKET MOUNT</li> <li>with test button.</li> <li>with indicator lamp</li> <li>with test button &amp; i</li> <li>STUD ON END OF</li> <li>ndicator lamps are available</li> <li>24VAC and DC, 110VDC ar</li> <li>240VAC coils are UL rec</li> </ul>	indicator lamp. CASE; .* indicator lamp. PLAIN CASE.	* D = with te E = PLAIN F = with te G = with ir * H = with te T = TOP F	dicator lamp.* est button & indi CASE, TAPPED est button. dicator lamp.*	CORE, LOCA	ATING TAB;			
J.		& 2 Pole Models		4 Pole Mod	dels						
	Codes Available	1,2,3,5, 6,7,J,K	1,2,3, 5,6,7	1**,3,4, 5**,7,9	term	ble KUP with .18 inals will not plu quick connect s	ig into socke	ts. Must use .	110" (2.79		
	2 = .205" (5.2 3 = .047" (1.1 4 = .110" (2.7 5 = .187" (4.7 cadmium 6 = .205" (5.2	21mm) quick conr 9mm) printed circ 9mm) quick conn 5mm) quick conr 1 oxide, 10 amps.	nect/solder; silver, 5 ar nect/solder; silver, 5 an suit; silver, 5 amps. ect/solder; silver, 5 ar nect/solder; silver- nect/solder; silver-	mps.	7 = .047" (1.1 oxide, 10 9 = 4 pole K solder; s J = .250" (6.3	9mm) printed ci amps. J, KUP: .110" (2. ilver-cadmium ox 5mm) quick con 5mm) quick cor	rcuit; silver-c 79mm) quick kide, 10 amps nect; silver, {	admium connect/ s. 5 amps.	Ū		
5A.		d Contact Option	<b>n:</b> silver and silver-cadmi	um oxide cont	acts						
		yora naoning i01 3									
6.	Coil Voltage										]

#### Stock Items – The following items are normally maintained in stock for immediate delivery.

KUP-5A15-24	KUP-11A15-12	KUP-11D15-5	KUP-11D55-110	KUP-14A55-24	KUP-14D25-24
KUP-5A15-120	KUP-11A15-24	KUP-11D15-12	KUP-14A11-120	KUP-14A55-120	KUP-14D35-24
KUP-5A15-240	KUP-11A15-120	KUP-11D15-24	KUP-14A15-12	KUP-14A55-240	KUP-14D55-12
KUP-5A55-120	KUP-11A15-240	KUP-11D15-110	KUP-14A15-24	KUP-14D11-24	KUP-14D55-24
KUP-5D15-12	KUP-11A35-120	KUP-11D35-24	KUP-14A15-120	KUP-14D15-6	KUP-17A19-120
KUP-5D15-24	KUP-11A55-24	KUP-11D55-6	KUP-14A15-240	KUP-14D15-12	KUP-17A55-24
KUP-5D55-12	KUP-11A55-120	KUP-11D55-12	KUP-14A25-120	KUP-14D15-24	KUP-17D19-24
KUP-5D55-24	KUP-11AT5-120	KUP-11D55-24	KUP-14A35-120	KUP-14D15-48	KUP-17D55-24
KUP-11A11-120	KUP-11D11-24	KUP-11D55-48	KUP-14A45-120	KUP-14D15-110	

# Ordering Information

'DI	E Approved Design	Typical Part No. 🕨	KUIP	-11	Α	1	5	-120
1.	Basic Series & Type: KUIP = Enclosed relay designed for General V KUGP = Enclosed relay with 3mm open conta		KUGP					
2.	Contact Arrangement: 1 = 1 Form A (SPST-NO) 2 = 1 Form B (SPST-NC) 3 = 1 Form X (SPST-NO-DM) 4 = 1 Form Y (SPST-NC-DB) 5 = 1 Form C (SPDT)* 6 = 1 Form Z (SPDT-NC-NO [DB-DM])	7 = 2 Form A (DPST-NC 8 = 2 Form B (DPST-NC 11 = 2 Form C (DPDT)* 12 = 3 Form A (3PST-NC 13 = 3 Form B (3PST-NC 14 = 3 Form C (3PDT)*	c) ))	-				
3.	<b>Coil Input:</b> A = AC, 50/60 Hz.* D = DC*				_			
4.	Mountings: 1 = PLAIN CASE, SOCKET MOUNT.* 5 = BRACKET MOUNT CASE.*	T = TOP FLANGE CASE	*					
5.	<b>Terminal &amp; Contact Material:</b> 1 = .187" (4.75mm) quick connect/solder; silve 3 = .047" (1.19mm) printed circuit board; silver		75mm) quick connec 9mm) printed circui				_	
6.	Coil Voltage: To 240VAC, 50/60 Hz. or 110VDC. (For 277VA * Options included in VDE file.	C, consult factory.)*	See coi	il data table	es.			-

#### Stock Items – The following items are normally maintained in stock for immediate delivery.

 KUGP-7D55-24
 KUIP-14A15-120

 KUIP-5A55-120
 KUIP-14D15-12

 KUIP-11D55-12
 KUIP-14D15-24

 KUIP-11D55-24
 KUIP-14D15-24

#### **Ordering Information**

Higl	n Voltage D	C Switching	Typical Part No. ►	KUE	-3	Α	1	5	-120
1.		n relay with m	nagnetic blow-outs. rith magnetic blow-outs.	KUEP					
2.	<b>Contact Ar</b> 3 = 1X (SPS		7 = 2A (DPST-NO) 11 = 2C	(DPDT)	1				
3.	<b>Coil Input:</b> $A = AC 50/6$	60 Hz. D	= DC			_			
4.	Mountings	:							
[	Туре	KUE	KUE	EP					
	OPEN STYL 1 = #6-32 s (5.54mr tab. 2 = 2-hole b #6-32 ta .125" (3. locating 4 = #6-32 ta .218" (5. locating 5 = #6-32 ta no locat	tud, .218" n) locating rracket, pped. upped core, 18mm) tab. 54mm) tab. 54mm) tab. upped core,	3 = with indicator lamp.* ( 5 = BRACKET MOUNT CASE; 7 = with indicator lamp.* (		mp.* NPPED COR mp.* ASE. oils:				
5.	5 = .187" (4. cadmiu 6 = .205" (5	m-oxide.		= .047' (1.19mm) pri	inted circuit	; silver-cadmiu	ım-oxide.		
6.			110VDC. (For 277VAC, consult factory.)						

# Stock Items – The following items are normally maintained in stock for immediate delivery.KUEP-3A15-120KUEP-3D15-110KUEP-3A15-120KUEP-3D15-110

# Ordering Information

	Amp Switching		т	pical Part No.		KUM	-14	Α	1	8	-12
1.	<b>Basic Series &amp; Type:</b> KUM = 15 amp open rel KUMP = 15 amp enclose					KUMP					
2.	Contact Arrangement: 1 = 1A (SPST-NO) 2 = 1B (SPST-NC) 3 = 1X (SPST-NC-DM) 4 = 1Y (SPST-NC-DB) 5 = 1C (SPDT) 6 = 1Z (SPDT-NC-NO [I 7 = 2A (DPST-NO) 8 = 2B (DPST-NC) 11 = 2C (DPDT) 12 = 3A (3PST-NO) 13 = 3B (3PST-NC) 14 = 3C (3PDT)	)B-DM])					-				
3.	<b>Coil Input:</b> A = AC, 50/60 Hz.	) = DC						-			
4.	Mountings:								-		
	Type KUM				KUMP						
	OPEN STYLE 1 = #6-32 stud, .218" (5.54mm) locating tab. 2 = 2-hole bracket, #6-32 tapped. 3 = #6-32 tapped core, .125" (3.18mm) locating tab. 4 = #6-32 tapped core, .218" (5.54mm) locating tab. 5 = #6-32 tapped core, no locating tab.	2 = 1 3 = 1 4 = 1 5 = 1 6 = 1 7 = 1 9 = 5 *Ind 6-24	PLAIN CASE; with test button. with indicator lam with test button & BRACKET MOUN with test button. with indicator lam with test button & STUD ON END O licator lamps are a 4VAC and DC, 110 -240VAC coils are	k indicator lamp.* IT CASE; hp.* k indicator lamp.* F PLAIN CASE. available on mode IVDC and 120-240	B = W $C = W$ $D = W$ $E = PI$ $F = W$ $G = W$ $H = W$ $T = TC$	LAIN CASE, TAI ith test button. /ith indicator lar /ith test button DP FLANGE CA	np.* & indicator la PPED CORE, np.* & indicator la SE. bils:	mp.* LOCATING			
5.	Terminal & Contact Ma										
+	Type 1 & 2 Pole N	lodels	3 Pole Models								
	Codes 6,8,9,G Available		6,8,9								
	6 = .205" (5.21mm) qui 8 = .187" (4.75mm) qui 9 = .047" (1.19mm) prin G = .250" (6.35mm) qui	ck conne ted circu	ct/solder; silver-ca it; silver-cadmium	admium-oxide. n-oxide.	ilabla on						

#### Stock Items – The following items are normally maintained in stock for immediate delivery.

	<b>o</b> ,		
KUMP-11A18-24	KUMP-11D18-12	KUMP-14A18-24	KUMP-14D18-24
KUMP-11A18-120	KUMP-11D18-24	KUMP-14A18-120	
KUMP-11A18-240	KUMP-11D18-110	KUMP-14D18-12	

#### **Open Relays** Bracket Type

Ð:

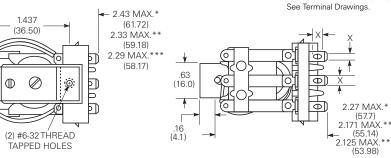
.19

(4.8)

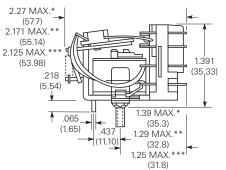
.63

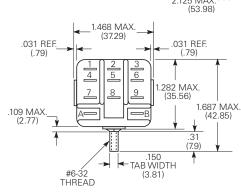
(16.0)

# Potter & Brumfield<sup>®</sup> Relays



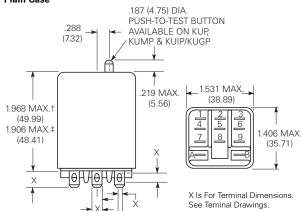
#### Stud Type



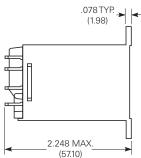


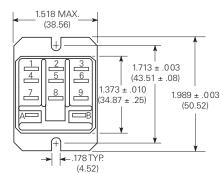
X Is For Terminal Dimensions



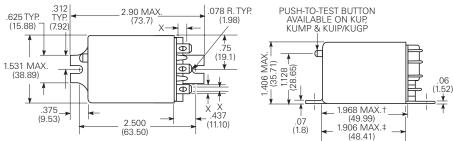


#### **Top Flange Case**





#### **Bracket Mount Case**



#### Seated Heights For Open Relays

1.391" (35.33mm) for #6-32 stud with .218" (5.54mm) locating tab.

1.52" (38.6mm) for bracket with 2-#6 32 tapped holes.

1.282" (32.56mm) for #6-32 tapped core with .125" (3.18mm) or .218" (5.54mm) locating tab.

2.046" (51.97mm) for relay with printed circuit terminals.

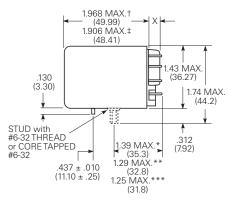
STUD TYPE also available with .125" (3.18mm) tab, as well as without stud and locating tab. Models without stud have core tapped #6-32 THREAD, .25" (6.4mm) minimum depth.

\*Dimensions with .250" (6.35mm) terminals.

\*\*Dimensions with .110" (2.79mm) or .205"(5.21mm) terminals.

\*\*\*Dimensions with .187" (4.75mm) terminals.

#### **Core and Stud Mount Cases**



†Dimensions with .250" (6.35mm) terminals

‡Dimensions with .110" (2.79mm), .187" (4.75mm and .205" 5.21mm) terminals.

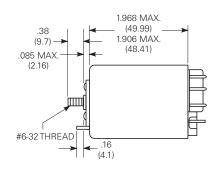
\*Dimensions with .250" (6.35mm) terminals.

\*\*Dimensions with .110" (2.79mm) or .205" (5.21mm) terminals

\*\*\*Dimensions with .187" (4.75mm) terminals.

#### Stud on End Case

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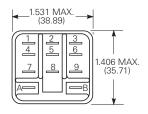
## Potter & Brumfield<sup>®</sup> Relays

.305

(7.75)

#### **Outline Dimensions (Continued) Relay Front Diagrams**

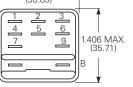
#### 1-3 Pole Relays



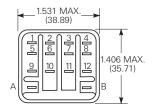


.250" (6.35mm) Terminals

**Relays With** 

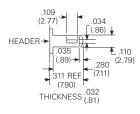


#### 4 Pole Relays

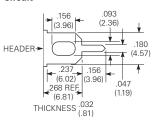


### **Terminal Dimensions**

.110" (2.79mm) Quick ConnectQuick Connect



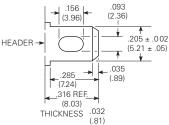
Printed Circuit





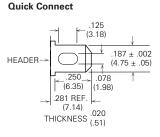
.205" (5.21mm)

.187" (4.75mm)



.035 (.89).070 DIA. (1.78) .250 ± .003 (6.35 ± .08) ⊕ HEADER-.134 (3.40).312 (7.92) .358 REF. (9.09) . THICKNESS .032 (0.81)

.250" (6.35mm)



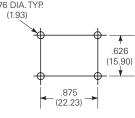
Note: All drawings shown oversize.

Wiring Diagra	ms				
*1 Form X	1 Form C	*2 Form A	*2 Form C	3 Form C	4 Form C
	2 5 7	$+\frac{4}{2}$ $+\frac{6}{2}$ $+\frac{6}{2}$			$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

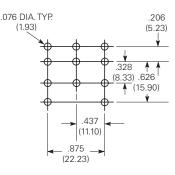
\*Recommended Load Polarity for Optimum Arc Suppression.

### PC Board Layouts (Bottom Views)

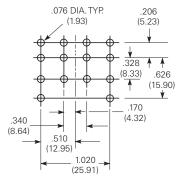




#### **3 Pole Models**



#### **4 Pole Models**



#### Sockets For KU Series Relays Through 3 Poles

#### Socket Selection Table

Stock items are boldfaced.

For KUP, KUEP, KUGP, KUIP, and KUMP relays, through 3 poles, with .187" (4.75mm) quick connect termination.

Socket	Socket Termination	Hold-Down Spring
27E043	Solder eyelet	20C228 or 20C254*
27E046	PC board, .144" (3.66mm) terminals	20C228 or 20C254
27E067	.187" (4.75mm) quick connect	20C228 or 20C254
27E121	Screw terminals	20C314 (2 per socket required)
27E305	PC board, .184" (4.67mm) terminals	20C228 or 20C254
27E310	PC board, .247" (6.27mm) terminals	20C228 or 20C254
27E396	.187" (4.75mm) quick connect*	20C254
27E397	Wire wrap*	20C254
27E400	Solder eyelet**	20C254
27E452	Wire wrap	20C228 or 20C254
27E893	Screw terminals†	20C318

20C228 held in place by socket hold-down screw where as 20C254 snaps onto socket.

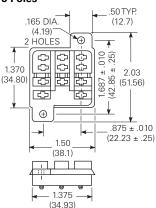
\*\* Snap-in mounting † DIN rail mounting

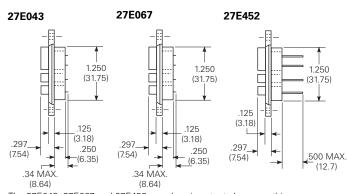
#### Hard Mount Sockets For Relays Through 3 Poles

Nylon sockets with .187" (4.75mm) quick connect, solder, printed circuit, wire wrap or no terminals are available for KUEP, KUGP, KUIP, KUMP, and KUP relays, through 3 poles, with .187" (4.75mm) quick connect terminals. All are rated 15 amps and UL recognized, File E59244 and CSA certified File LR15734 (except 27E452, 10 amps).

27E043-with solder eyelet terminals. 27E067-with .187" (4.75mm) guick connect terminals.

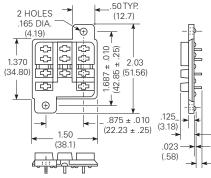
27E452-with .032" (.81mm) x .062" (1.57mm) x .725" (18.42mm) terminals for wire wrapping. Use 20 to 26 guage wire depending on type of wrapping system.



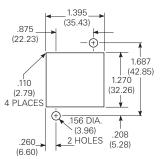


The 27E043, 27E067 and 27E452 use chassis cutout shown on this page.

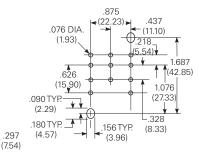
#### 27E046, 27E305, 27E310 **Socket With Printed Circuit Terminals**



#### **Recommended Chassis Cutout** For Hard Mount Sockets



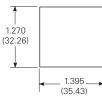
#### Suggested Socket PC Board Layout



27E046 HAS TERMINALS .144" (3.66 mm) LONG. 27E305 HAS TERMINALS .184" (4.67 mm) LONG. 27E310 HAS TERMINALS .247" (6.27 mm) LONG.

.297

#### **Recommeded Chassis Cutout** For Snap-In Sockets

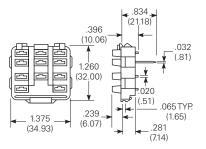


Recommended chassis thickness .031" (.79mm) to .062" (1.57mm).

#### **Snap-In Sockets For Relays Through 3 Poles**

Nylon snap-in sockets with .187" (4.75mm) quick connect, solder, or wire wrap terminals are available for KUEP, KUGP, KUIP, KUMP, and KUP relays, through 3 poles, with .187" (4.75mm) quick connect terminals. Snap-in sockets reduce labor by eliminating time consuming screw or rivet mounting. Preassembled wiring harnesses may also be used as the sockets are designed to snap into the chassis from either front or back. All are rated 15 amps and UL recognized, File E59244. The 27E396, 27E397 and 27E400 use chassis cutout shown on this page.

27E396-with .187" (4.75mm) quick connect terminals. 27E397-with .062" (1.57mm) x .032" (.81mm) terminals for wire wrapping. Use 20 to 26 guage wire depending on type of wrapping system. 27E400-with solder eyelet terminals.



#### Sockets For KU Series Relays Through 3 Poles (continued)

#### 27F121

#### Screw Terminal Socket

The 27E121 socket offers screw termination for KUEP, KUGP, KUIP, KUL, KUMP and KUP relays, through 3 poles, with .187" (4.75mm) quick connect terminals. This socket stacks on 1.700" (43.18mm) centers. When surface mounting, two #6-32 screws of suitable length are required. When track mounting, two 24A071 retainer clips (not shown) are required. The 27E121 is rated 15 amps and is UL recognized, File E59244, CSA certified, File LR15734.

#### 27E893

#### Screw Terminal, Din Rail Snap-Mount Socket

(use with mounting track 24A110)

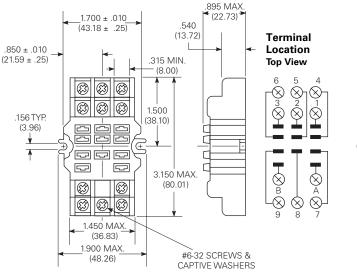
1.417

(35.99)

The 27E893 DIN rail, snap-mount socket offers screw termination for KUEP, KUGP, KUIP, KUL, KUMP and KUP relays, through 3 poles, with .187" (4.75mm) guick connect terminals. This socket is constructed with a spring-loaded latch which allows it to be quickly snapped onto or removed from a "top hat" style mounting track. No special tools or extra hardware is required for installation. The 27E893 is UL rated 15 amps, 94V-0, File E59244 and CSA rated 10 amps, File LR15734. Two 20C317 hold-down spring anchor clips are packaged with each socket.

.984

(24.99)



#### .571 .315 (14.50) Terminal (8.00) Location Top View 않 $\propto$ (× 165 TYP. (4.19) 2 992 2.205 (76.00)(56.01) Γ × B (3) 63 $\otimes$ $\otimes$ 8 9 .079 M3-5 SCREWS 1.457 .709 (2.01) 8 → (18.01) (37.01)CAPTIVE WASHERS 1693 (43.00)

#### Sockets For KU Series 4 Pole Relays **Socket Selection Table**

Stock items are boldfaced.

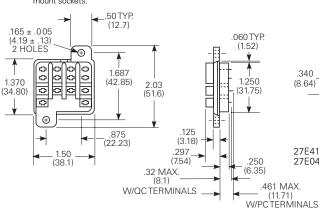
For 4 pole KUP relays with .110" (2.79mm) quick connect termination.

Socket	Socket Termianation	Hold-Down Spring
27E415	.187" (4.75mm) quick connect	20C228 or 20C254
27E419	PC board	20C228 or 20C254
27E867*	Screw terminals	20C254
* Use 40G432 insulat	or pad or customer supplied alternative. (See page 10)	0.)

#### Hard Mount Sockets For 4 Pole Relays

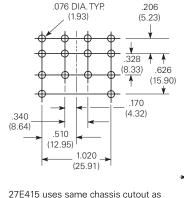
27E415-with .187" (4.75mm) guick connect/solder terminals. 27E419-with printed circuit terminals. See PC board layout at right.

Note: Only 4 pole KUP relays with .110" (2.79mm) quick connect terminals can be used with 4 pole hard mount sockets



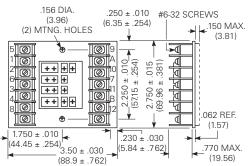
Suggested Socket PC Board Layout

27E043



**Screw Terminal Socket For 4 Pole Relays** 

27E867 offers screw termination for 4 pole KUP relays with .110" (2.79mm) guick connect/socket mount terminals. Rated 10 amps and is UL recognized, File E59244.



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