

KUP Series Panel Plug-in Relay (Continued)

Insulation Data

Initial dielectric strength	
between open contacts	1200V _{rms}
between contact and coil	2200V _{rms}
between adjacent contacts	2200V _{rms}
Initial insulation resistance	
between insulated elements	100MΩ, 500VDC

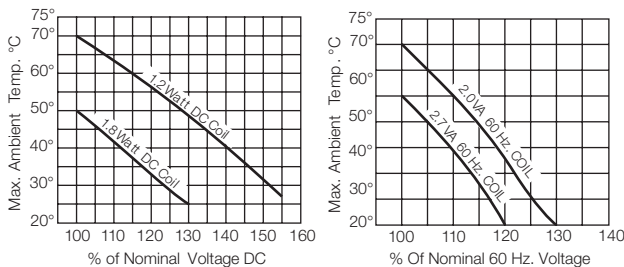
Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter.

Ambient temperature

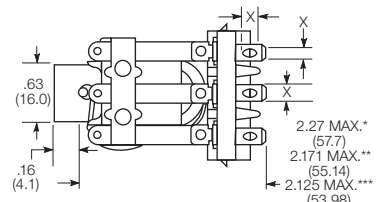
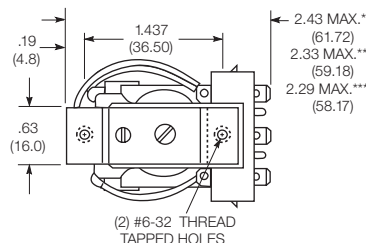
DC coil	Enclosed relays, 4 pole: -45°C to 50°C
	Enclosed relays, 1-3 pole: -45°C to 70°C
	Open relays: 15°C higher maximum
AC coil	Enclosed relays, 3 and 4 pole: -45°C to +45°C
	Enclosed relays, 1 and 2 pole: -45°C to +55°C
	Open relays: 15°C higher maximum

Maximum allowable ambient temperature vs voltage (KUP enclosed)

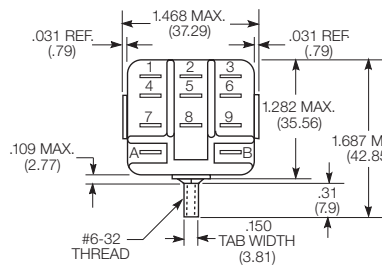
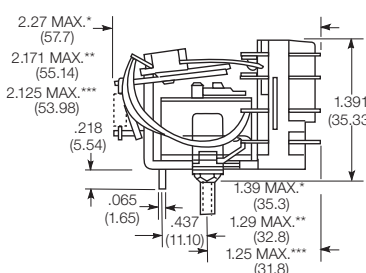


Dimensions

KU bracket type

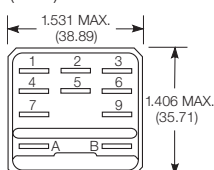


KU stud type

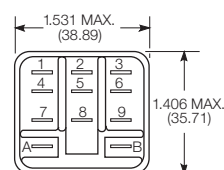


Relay front diagrams

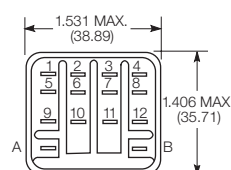
Models with 6.35mm (.250) QC terminals



1-3 pole models with all other terminals



4 pole models



Other Data (continued)

Category of environmental protection	IEC 61810	RT0 - open relay; RTI - dust protected
Terminal type	Quick connects (QC), .187, .205 or .250; PCB-THT	
Terminal retention, push force		
QC .205	17 lbs for 3s	
QC .187, QC .250, PCB	25 lbs for 3s	
Weight	85g	
Packaging/unit	tray/25 pcs., box/150pcs.	

Accessories

For details see datasheet	Sockets and Accessories, KUP Relays
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Product Code	Description
27E893	DIN socket (use 20C318 clip)
27E121	Track mount socket (use 20C314 clips)
27E043	Chassis mount/solder eyelet socket (use 20C254 clip)
27E046	Chassis mount/PCB socket (use 20C254 clip)
27E067	Chassis mount/quick connect socket (use 20C254 clip)
27E396	Snap-in/quick connect socket (use 20C254 clip)

Seated Heights For KU (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.

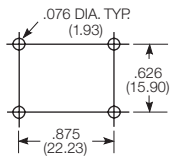
*Dimensions with .250" (6.35mm) terminals.
** Dimensions with .110" (2.79mm) or .205" (5.21mm) terminals.
*** Dimensions with .187" (4.75mm) terminals.

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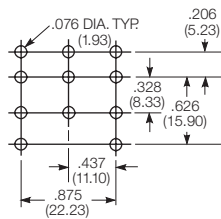
PCB layout

Bottom view on solder pins

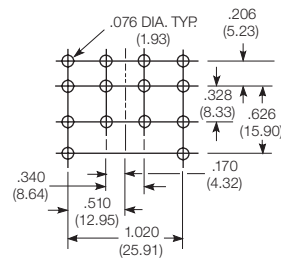
1 form X version



3 pole version
(Omit unnecessary holes for form A and 2 pole types)



4 pole version



Product code structure

Typical product code

KUP -14 A 1 5 -120

Type

KU Open style relay

KUP Enclosed relay

Contact arrangement

1	1 form A (1 NO)	3	1 form X (1 NO-DM)	5	1 form C (1 CO)
7	2 form A (2 NO)	11	2 form C (2 CO)	12	3 form A (3 NO)
14	3 form C (3 CO)	17	4 form C (4 CO)		

Coil Input

A	AC, 50/60Hz	D	DC
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Mounting and options

KU

- 1** #6-32 mounting stud, 5.54mm (.218in) locating tab
- 3** #6-32 tapped core, 3.18mm (.125in) locating tab
- 4** #6-32 tapped core, 5.54mm (.218in) locating tab
- 5** #6-32 tapped core, no locating tab

KUP

- 1** Socket mount (plain) case
 - 2** Socket mount (plain) case with push-to-test button 1)
 - 3** Socket mount (plain) case with indicator lamp 2)
 - 4** Socket mount (plain) case with indicator lamp and push-to-test button 1) 2)
 - 5** Bracket mount case
 - A** Plain case with #6-32 stud and locating tab
 - E** Plain case with #6-32 tapped core and locating tab
 - T** Top flange case 1)
- 1) Not available with four pole models (Contact arrangement 17).
2) Indicator lamps are available on models with the following coils: 6-24VAC and VDC, 110VDC and 120-240VAC.
Only models with 120-240VAC coils are UL recognized.

Terminal and contact material

1 and 2 pole models

1	4.75mm (.187in) quick connect/solder; Ag, 5A	3	1.19mm (.047in) PCB; Ag, 5A
5	4.75mm (.187in) quick connect/solder; AgCdO, 10A	7	1.19mm (.047in) PCB; AgCdO, 10A
J	6.35mm (.250in) quick connect/solder; Ag, 5A	K	6.35mm (.250in) quick connect/solder; AgCdO, 10A
P	4.75mm (.187in) quick connect/solder; AgSnInO, 10A	S	1.19mm (.047in) PCB, AgSnInO; 10A
W	6.35mm (.250in) quick connect/solder; AgSnInO, 10A		

3 pole models

1	4.75mm (.187in) quick connect/solder; Ag, 5A	3	1.19mm (.047in) PCB; Ag, 5A
5	4.75mm (.187in) quick connect/solder; AgCdO, 10A	7	1.19mm (.047in) PCB; AgCdO, 10A
P	4.75mm (.187in) quick connect/solder; AgSnInO, 10A	S	1.19mm (.047in) PCB, AgSnInO; 10A

4 pole models

1	4.75mm (.187in) quick connect/solder; Ag, 5A 3)	3	1.19mm (.047in) PCB; Ag, 5A
4	2.79mm (.110in) quick connect/solder; Ag, 5A	5	4.75mm (.187in) quick connect/solder; AgCdO, 10A 3)
7	1.19mm (.047in) PCB; AgCdO, 10A	9	2.79mm (.110in) quick connect/solder; AgCdO, 10A
P	4.75mm (.187in) quick connect/solder; AgSnInO, 10A 3)	S	1.19mm (.047in) PCB, AgSnInO; 10A
U	2.79mm (.110in) quick connect/solder; AgSnInO, 10A 2)		

3) 4 pole KUP with 4.75mm (.187in) terminals will not plug into sockets. Must use 2.79mm (.110) terminals for socket mounting.

Au flashed contact option

- Leave Blank** No Au flashing on contacts
- F** Optional Au flashing on contacts

Coil voltage

Coil code: please refer to coil versions table

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Product Code	Arrangement	Material	Coil	Terminals	Mounting	Part Number			
KUP-5A15-24	1 form C, 1 CO	AgCdO	24VAC	4.75mm (.187in) QC	Socket mount, plain case	6-1393118-0			
KUP-5A15-120			120VAC			5-1393119-9			
KUP-5A15-240			240VAC		Bracket mount case	6-1393118-1			
KUP-5A55-120			120VAC			6-1393118-3			
KUP-5D15-12			12VDC			Socket mount, plain case	6-1393118-6		
KUP-5D15-24			24VDC			6-1393118-7			
KUP-5D55-12			12VDC		Bracket mount case	7-1393118-0			
KUP-5D55-24			24VDC		7-1393118-1				
KUP-11A11-120			Ag		120VAC	Socket mount, plain case	1-1393117-7		
KUP-11A15-12					12VDC		1-1393117-8		
KUP-11A15-24					24VAC	Socket mount case w/ indicator lamp	2-1393117-1		
KUP-11A15-120					120VAC		1-1393117-9		
KUP-11A15-240					240VAC		2-1393117-2		
KUP-11A35-120					120VAC		2-1393117-5		
KUP-11A55-24			24VAC		Bracket mount case	3-1393117-0			
KUP-11A55-120			120VAC		2-1393117-9				
KUP-11AT5-120					Top flange case	1-1393117-4			
KUP-11D11-24		Ag	24VDC		Socket mount, plain case	4-1393117-2			
KUP-11D15-5			5VDC		Socket mount, plain case	4-1393117-8			
KUP-11D15-12			12VDC			4-1393117-4			
KUP-11D15-24			24VDC		Socket mount case w/ indicator lamp	4-1393117-5			
KUP-11D15-36			36VDC			4-1393117-6			
KUP-11D15-110			110VDC			4-1393117-3			
KUP-11D35-24			24VDC		Socket mount case w/ indicator lamp	5-1393117-3			
KUP-11D55-6			6VDC		Bracket mount case	6-1393117-0			
KUP-11D55-12			12VDC		5-1393117-6				
KUP-11D55-24			24VDC		5-1393117-8				
KUP-11D55-48			48VDC		5-1393117-9				
KUP-11D55-110			110VDC		5-1393117-5				
KUP-14A11-120	3 form C, 3 CO	Ag	120VAC		Socket mount, plain case	7-1393117-3			
KUP-14A15-12			AgCdO		12VAC	7-1393117-7			
KUP-14A15-24					24VAC	7-1393117-9			
KUP-14A15-120					120VAC	7-1393117-8			
KUP-14A15-240					240VAC	8-1393117-0			
KUP-14A25-120					120VAC	Socket mount w/ test button	8-1393117-3		
KUP-14A35-120					Socket mount w/ indicator lamp	8-1393117-7			
KUP-14A35-240			240VAC	8-1393117-9					
KUP-14A35F-120		AgCdO w/ Au flash	120VAC	Socket mount w/ test button, indicator lamp	9-1393117-0				
KUP-14A45-120			AgCdO		9-1393117-4				
KUP-14A55-24			24VAC	Bracket mount case	1393118-2				
KUP-14A55-120			120VAC	9-1393117-9					
KUP-14A55-240	240VAC		1393118-3						
KUP-14D11-24		Ag	24VDC		Socket mount, plain case	1-1393118-0			
KUP-14D15-6			AgCdO		6VDC	1-1393118-8			
KUP-14D15-12					12VDC	1-1393118-3			
KUP-14D15-24					24VDC	1-1393118-4			
KUP-14D15-48					48VDC	1-1393118-7			
KUP-14D15-110					110VDC	1-1393118-2			
KUP-14D25-24	24VDC	Socket mount w/ test button		2-1393118-3					
KUP-14D35-24					Socket mount w/ indicator lamp	2-1393118-7			
KUP-14D35-110			110VDC		2-1393118-6				
KUP-14D35F-110			AgCdO w/ Au flash			Socket mount w/ test button, indicator lamp	2-1393118-9		
KUP-14D45-110					AgCdO		3-1393118-1		
KUP-14D55-12					4 form C, 4 CO		12VDC	Bracket mount case	3-1393118-7
KUP-14D55-24							24VDC	3-1393118-8	
KUP-17A19-120	4 form C, 4 CO		120VAC	2.79mm (.110in) QC	Socket mount, plain case	4-1393118-2			
KUP-17A55-24			24VAC		Bracket mount case	4-1393118-6			
KUP-17D19-24			24VDC		Socket mount, plain case	5-1393118-0			
KUP-17D55-24			24VDC		Bracket mount case	5-1393118-3			