

KUP Series Panel Plug-in Relay

- AC coils: 5-240VAC, 50/60 Hz.; DC coils 6-110VDC
- Contact arrangements of 1 form X, 1-3 form A and 1-4 form C
- Wide selection of termination and mounting styles
- PC terminals available
- Push-to-test button and indicator lamp options
- Sockets available for panel, DIN rail or PCB mounting
- Class B coil insulation

Typical applications

Vending, commercial sewing, tool/die equipment, robotics, timers, welding, HVAC, medical, power generators



Approvals

UL E22575; CSA LR15734

Technical data of approved types on request

Contact Data

Contact arrangement	1 Form X (NO-DM); 1-3 Form A (NO); 1-4 Form C (CO)		
Rated voltage	240VAC		
Rated current	10A		
Contact material	Ag	AgCdO	AgSnInO
Min. recommended contact load	100mA, 12VDC	300mA, 12VDC	300mA, 12VDC
Frequency of operation	360 ops./hr	360 ops./hr	360 ops./hr
Operate/releases time max.	15/10ms		
Bounce time max.	17ms		

Contact ratings

Type	Load	Cycles
UL 508		
Ag, 1, 2 and 3 pole		
	5A, 240VAC	
	5A, 28VDC	
	1/6HP, 120VAC	
	2.5A, 120VAC, tungsten	
	1/3HP, 240VAC	
	0.5A, 120VDC	
	5FLA, 15LRA, 250VAC	
Ag, 4 pole		
	5A, 240VAC	
	2.5A, 120VAC, tungsten	
	0.5A, 120VDC	
	1/6HP, 120VAC	
	1/3HP, 240VAC	
AgCdO, 1, 2 and 3 pole		
	10A, 240VAC	
	10A, 32VDC	
	5FLA, 15LRA, 250VAC	
	1/3HP, 120VAC	
	5A, 120VAC, tungsten	
	1/2HP, 250VAC	
	0.5A, 125VDC	
	10FLA, 40LRA, 125VAC	
	3A, 600VAC	
	1/2HP, 480VAC	
	1/2HP, 600VAC	
	1HP, 480 VAC, 3 phase	
AgCdO, 4 pole		
	10A, 240VAC	
	5A, 120VAC, tungsten	
	0.5A, 120VDC	
	10A, 28VDC, resistive	
	10FLA, 30LRA, 125VAC	
	5FLA, 15LRA, 250 VAC	30x10 ³
	125VA, 250 VAC	

AgCdO, 4 pole (continued)

1/3HP, 120VAC

1/2HP, 250VAC

Total load not to exceed 30 A, 28 VDC, 120 VAC and 20 A, 250 VAC

AgSnInO

10A, 277VAC, pf = 0.8

100x10³

Mechanical endurance 10x10⁶ ops.

Coil Data

Coil voltage range	5 to 110VDC
	6 to 240VAC

Coil insulation system according UL Class B

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power W
1, 2 and 3 pole				
5	5	3.75	21	1.2
6	6	4.5	32.1	1.125
12	12	9.0	120	1.2
24	24	18.0	472	1.25
48	48	36.0	1800	1.3
110	110	82.5	10000	1.25
4 pole				
5	5	3.75	14	1.8
6	6	4.5	20	1.8
12	12	9.0	80	1.8
24	24	18.0	320	1.8
48	48	36.0	1250	1.85
110	110	82.5	6720	1.8

All figures are given for coil without preenergization, at ambient temperature +23°C.

Coil versions, AC coil

Coil code	Rated voltage VAC	Operate voltage VAC	Coil resistance $\Omega \pm 15\%$	Rated coil power VA
1 and 2 pole				
6	6	5.1	6	2.0
12	12	10.2	24	2.0
24	24	20.4	85	2.0
120	120	102.0	2250	2.1
240	240	204.0	9110	2.1
3 and 4 pole				
6	6	5.1	4.2	2.8
12	12	10.2	18	2.8
24	24	20.4	72	2.8
120	120	102.0	1700	2.9
240	240	204.0	7200	2.9

All figures are given for coil without preenergization, at ambient temperature +23°C.

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

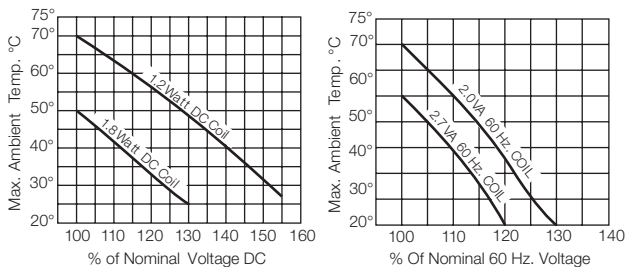
Other Data

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)

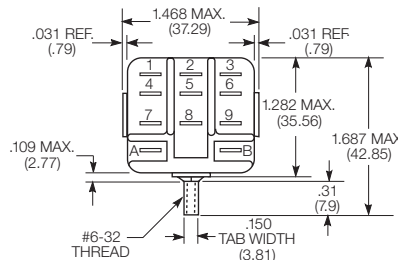


Dimensions

KU bracket type



KU stud type

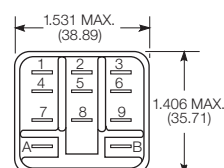


Relay front diagrams

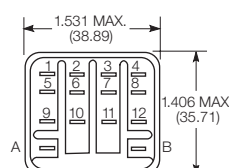
Models with 6.35mm (.250) QC terminals



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.

KUP Series Panel Plug-in Relay (Continued)

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

KUP Series Panel Plug-in Relay (Continued)

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			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	2 form C, 2 CO	Ag	120VAC		Socket mount, plain case	1-1393117-7		
KUP-11A15-12			AgCdO			12VDC	1-1393117-8	
KUP-11A15-24		24VAC			2-1393117-1			
KUP-11A15-120		120VAC	1-1393117-9					
KUP-11A15-240		240VAC	2-1393117-2					
KUP-11A35-120		120VAC	Socket mount case w/ indicator lamp		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					AgCdO	5VDC	4-1393117-8	
KUP-11D15-12		12VDC	4-1393117-4					
KUP-11D15-24		24VDC	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
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	9-1393117-0				
KUP-14A45-120	AgCdO			Socket mount w/ test button, indicator lamp	9-1393117-4			
KUP-14A55-24			24VAC				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
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						2-1393118-9	
KUP-14D45-110	AgCdO				Socket mount w/ test button, indicator lamp		3-1393118-1	
KUP-14D55-12			12VDC					3-1393118-7
KUP-14D55-24			24VDC		Bracket mount case		3-1393118-8	
KUP-17A19-120	4 form C, 4 CO				2.79mm (.110in) QC		Socket mount, plain case	4-1393118-2
KUP-17A55-24							24VAC	Bracket mount case
KUP-17D19-24			24VDC			Socket mount, plain case	5-1393118-0	
KUP-17D55-24			24VDC			Bracket mount case	5-1393118-3	

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