

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





Approvals
UL E22575; CSA LR15734
Technical data of approved types on request

Contact Data			
	(NO-DM); 1-3 F	orm A (NO); 1	-4 Form C (CO)
Rated voltage		240VAC	<u> </u>
Rated current		10A	
Contact material	Ag	AgCdO	AgSnOlnO
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 ratio	ngs	
Type	Load	Cycles
UL 508		•
Ag, 1, 2 and 3	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	
	1/3HP, 240VAC	

0/1, 20100		
1/6HP, 120VAC		
2.5A, 120VAC, tungsten		
1/3HP. 240VAC		
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54 240\/AC		
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nd 3 pole		
10A, 240VAC		
10A, 32VDC		
5FLA, 15LRA, 250VAC		
1/3HP. 120VAC		
5A, 120VAC, tungsten		
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1/2HP, 600VAC		
1HP, 480 VAC, 3 phase		
10A, 240VAC		
5A. 120VAC, tungsten		
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		00.403
5FLA, 15LRA, 250 VAC		30x10 ³
	1/6HP, 120VAC 2.5A, 120VAC, tungsten 1/3HP, 240VAC 0.5A, 120VDC 5FLA, 15LRA, 250VAC 5A, 240VAC 2.5A, 120VAC, tungsten 0.5A, 120VDC 1/6HP, 120VAC 1/3HP, 240VAC 10A, 32VDC 5FLA, 15LRA, 250VAC 1/3HP, 120VAC 10A, 32VDC 5FLA, 15LRA, 250VAC 1/3HP, 120VAC 1/3HP, 120VAC 1/3HP, 120VAC 5A, 120VAC, tungsten 1/2HP, 250VAC 0.5A, 125VDC 10FLA, 40LRA, 125VAC 3A, 600VAC 1/2HP, 480VAC 1/2HP, 480VAC, 3 phase 10A, 240VAC 5A, 120VAC, tungsten 0.5A, 120VDC 10A, 28VDC, resistive 10FLA, 30LRA, 125VAC 5FLA, 15LRA, 250 VAC	1/6HP, 120VAC 2.5A, 120VAC, tungsten 1/3HP, 240VAC 0.5A, 120VDC 5FLA, 15LRA, 250VAC 5A, 240VAC 2.5A, 120VAC, tungsten 0.5A, 120VDC 1/6HP, 120VAC 1/3HP, 240VAC 1/3HP, 240VAC 10A, 32VDC 5FLA, 15LRA, 250VAC 1/3HP, 120VAC 1/3HP, 120VAC 5A, 120VAC, tungsten 1/2HP, 250VAC 0.5A, 125VDC 10FLA, 40LRA, 125VAC 3A, 600VAC 1/2HP, 480VAC 1/2HP, 480VAC 1/2HP, 480VAC 1/2HP, 480VAC 1A, 240VAC 5A, 120VAC, tungsten 1/2HP, 480VAC 1/2HP, 480VAC 1/2HP, 600VAC 1HP, 480 VAC, 3 phase







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

AgSnOlnO

10A, 277VAC, pf = 0.8 100x10³ Mechanical endurance 10x10⁶ ops.

Coil Da	ıta			
Coil volta	ige range		5 to 110VDC	
			6 to 240VAC	
Coil insul	ation system ac	cording UL	Class B	
Coil vers	sions, DC coil			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VDC	VDC	Ω±10%	W
1, 2 and	l 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.

0011 101010110,710 0011	Coil	versions,	AC	coil
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Con vers	Sions, AC Con			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VAC	VAC	Ω±15%	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
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All figures are given for coil without preenergization, at ambient temperature +23°C.

125VA, 250 VAC

RT0 - open relay; RTI - dust protected Quick connects (QC), .187, .205 or .250;

PCB-THT

17 lbs for 3s

25 lbs for 3s

85g

tray/25 pcs., box/150pcs.



KUP Series Panel Plug-in Relay (Continued)

Other Data (continued)

Terminal retention, push force

QC .187, QC .250, PCB

IEC 61810

Terminal type

QC .205

Packaging/unit

Weight

Category of environmental protection

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

Ambient temperature

DC coil Enclosed relays, 4 pole: -45°C to 50°C

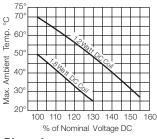
Enclosed relays, 1-3 pole: -45°C to 70°C Open relays: 15°C higher maximum

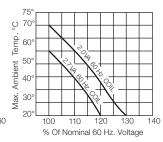
AC coil Enclosed relays, 3 and 4 pole: -45°C to +45°C

Enclosed relays, 1 and 2 pole: -45°C to +55°C

Open relays: 15°C higher maximum

Maximum allowable ambient temperature vs voltage (KUP enlcosed)





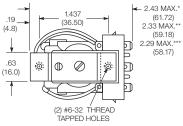
www.te.com/customersupport/rohssupportcenter

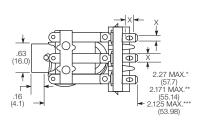
Accessories	
For details see datasheet	Sockets and Accessories, KUP Relays

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)

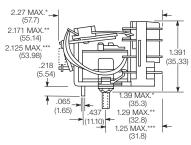
Dimensions

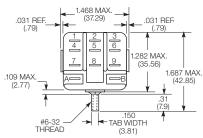
KU bracket type





KU stud type





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.

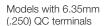
1.282" (32.56mm) for #6-32 tapped core with .125" (3.18mm) or .218" (5.54mm) locating tab.

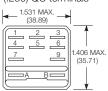
2.046" (51.97mm) for relay with printed circuit terminals.

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.

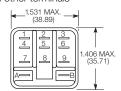
- *Dimensions with .250" (6.35mm) terminals.
- ** Dimensions with .110" (2.79mm) or .205" (5.21mm) terminals.
 *** Dimensions with .187" (4.75mm) terminals.

Relay front diagrams





1-3 pole models with all other terminals



4 pole models

