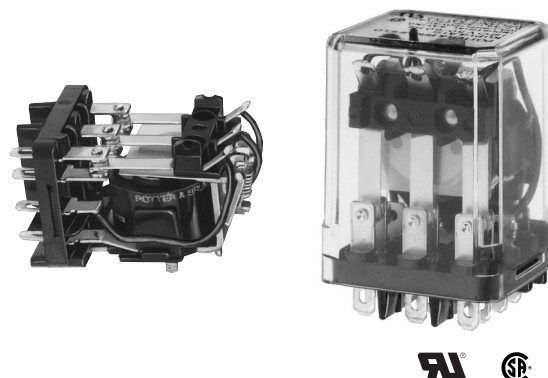


KUP Series Panel Plug-in Relay

- 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

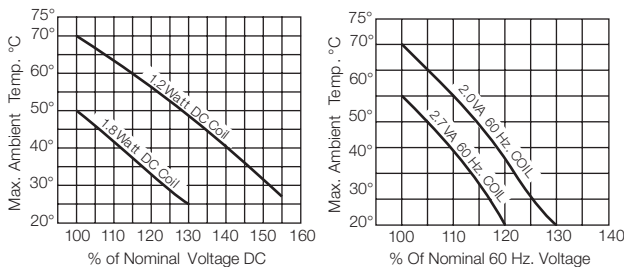
Other Data

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

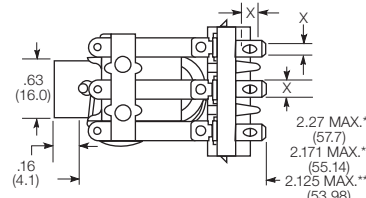
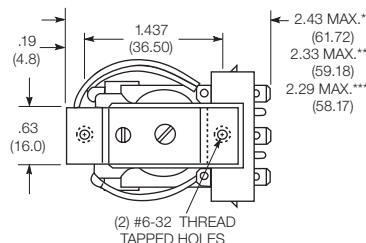
DC coil	Enclosed relays, 4 pole: -45°C to 50°C
	Enclosed relays, 1-3 pole: -45°C to 70°C
	Open relays: 15°C higher maximum
AC coil	Enclosed relays, 3 and 4 pole: -45°C to +45°C
	Enclosed relays, 1 and 2 pole: -45°C to +55°C
	Open relays: 15°C higher maximum

Maximum allowable ambient temperature vs voltage (KUP enclosed)

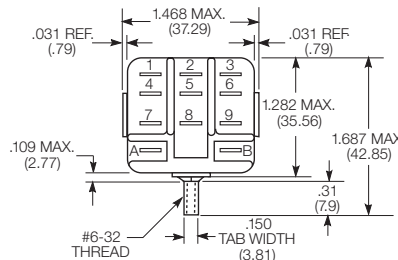
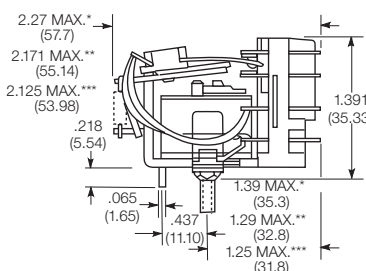


Dimensions

KU bracket type



KU stud type



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.

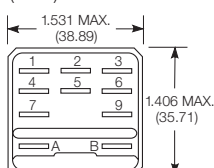
2.046" (51.97mm) for relay with printed circuit terminals.

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.

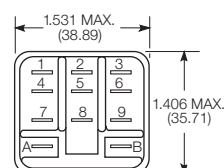
*Dimensions with .250" (6.35mm) terminals.
** Dimensions with .110" (2.79mm) or .205" (5.21mm) terminals.
*** Dimensions with .187" (4.75mm) terminals.

Relay front diagrams

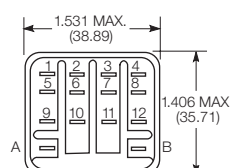
Models with 6.35mm (.250) QC terminals



1-3 pole models with all other terminals



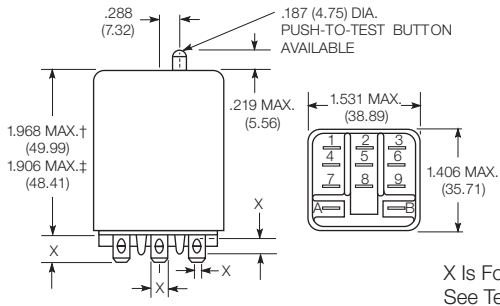
4 pole models



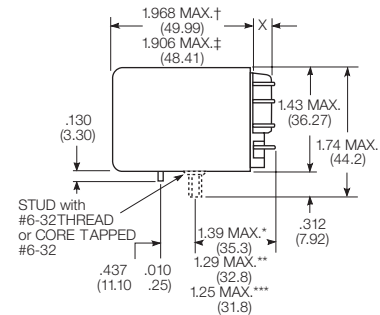
KUP Series Panel Plug-in Relay (Continued)

Dimensions (continued)

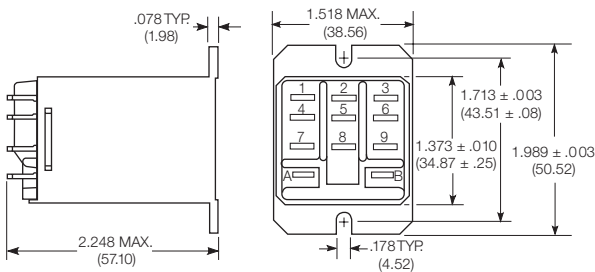
KUP plain case



KUP core / stud mount case



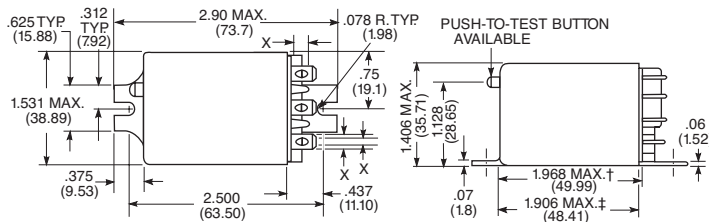
KUP top flange case



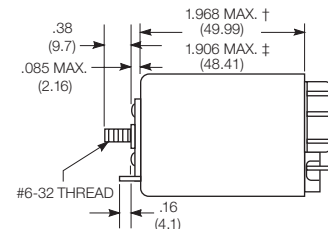
† Dimensions with .250" (6.35mm) terminals.
‡ Dimensions with .187" (4.75mm) and .205" (5.21mm) terminals.

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

KUP bracket mount case

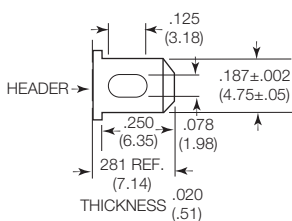


KUP stud on end case

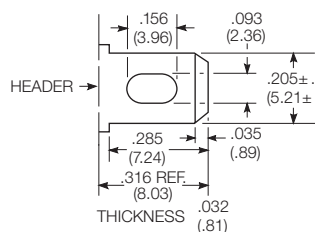


Terminal dimensions

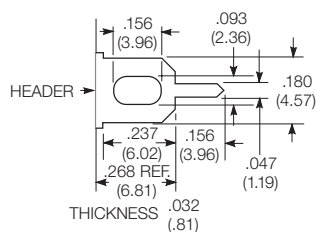
4.75mm (.187) quick connect



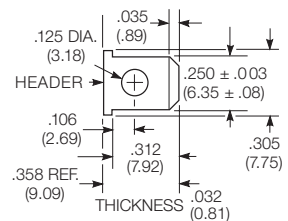
5.21mm (.205) quick connect



1.19mm (.047) printed circuit

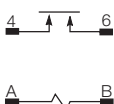


6.35mm (.250) quick connect



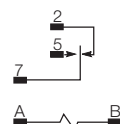
Terminal assignment

1 Form X



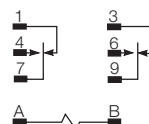
1 Form C

1 Form A (delete 2)



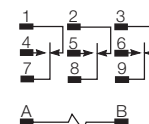
2 Form C

2 Form A (delete 1 & 3)

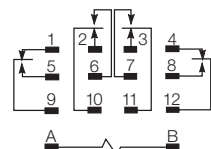


3 Form C

3 Form A (delete 1, 2 & 3)



4 Form C

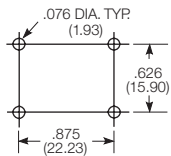


KUP Series Panel Plug-in Relay (Continued)

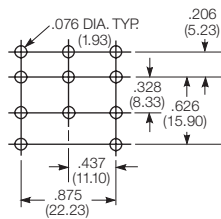
PCB layout

Bottom view on solder pins

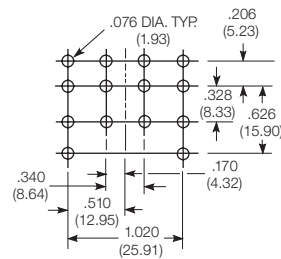
1 form X version



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	2 form C, 2 CO	Ag	12VDC		Bracket mount case	7-1393118-0
KUP-5D55-24			24VDC			7-1393118-1
KUP-11A11-120			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			4-1393117-2
KUP-11D15-5			AgCdO		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			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		Socket mount, plain case	5-1393117-5
KUP-14A11-120			Ag			7-1393117-3
KUP-14A15-12			AgCdO			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						8-1393117-7
KUP-14A35-240			240VAC		Socket mount w/ indicator lamp	8-1393117-9
KUP-14A35F-120			AgCdO w/ Au flash			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		Bracket mount case	9-1393117-9
KUP-14A55-240			240VAC			1393118-3
KUP-14D11-24			Ag		Socket mount, plain case	1-1393118-0
KUP-14D15-6			AgCdO			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						2-1393118-7
KUP-14D35-110			110VDC		Socket mount w/ indicator lamp	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			120VAC			4-1393118-2
KUP-17A55-24	4 form C, 4 CO		24VAC	2.79mm (.110in) QC	Socket mount, plain case	4-1393118-6
KUP-17D19-24			24VDC			5-1393118-0
KUP-17D55-24			24VDC		Bracket mount case	5-1393118-3

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

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JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели,
кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).



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