

# **KUP-11D15-5** Product Details



KUP-11D15-5

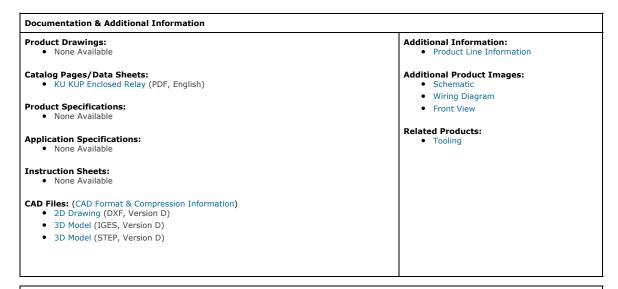
TE Internal Number: 4-1393117-8 Active

### **Industrial Relays (General Purpose)**

Converted to EU RoHS but not ELV Compliant (Statement of Compliance)

### Product Highlights:

- KUP Series
  - Contact Current Class = 5A to 10A Class, Less Than 16A
  - Contact Rated Current = 10 A
  - Terminal Type = Quick Connect, Solder
  - Contact Arrangement = 2 Form C (CO)



# Product Features (Please use the Product Drawing for all design activity)

## Product Type Features:

- Series = KUP
- Terminal Type = Quick Connect, Solder

### **Electrical Characteristics:**

- Contact Current Class = 5A to 10A Class, Less Than 16A
- Contact Rated Current (A) = 10
- Contact Limiting Continuous Current (A) = 10
- Contact Limiting Making Current (A) = 10
- Contact Limiting Breaking Current (A) = 10
- Insulation Initial Dielectric Between Coil/Contact Class =
- 1500V to 2500VA Class
  Insulation Initial Dielectric Between Open Contacts (V rms) = 1200
- Insulation Initial Dielectric Between Contacts and Coil (V rms) = 2200
- Contact Rated Voltage (VAC) = 240
- Contact Limiting Short-Time Current (A) = 10
- Contact Switching Recommended Load, Min. = 300mA at 12V
- Coil Rated Voltage (VDC) = 5
- Coil Resistance (Ω) = 21
- Coil Rated Power, DC (mW) = 1200
- Coil Rated Power Class = 1W to 1.5W Class
- Insulation Initial Dielectric Between Adjacent Contacts (V
- rms) = 2200
  Insulation Initial Insulation Resistance (MΩ) = 100000

## Dimensions:

- Mechanical Length Class = 35mm to 40mm Class
- Length (mm [in]) = 38.90 [1.550]
- Mechanical Width Class = 30mm to 40mm Class
- Width (mm [in]) = 35.70 [1.405]
- Mechanical Height Class = 40mm to 50mm Class
- Height (mm [in]) = 50.00 [1.970]

#### **Body Features:**

- Mount Type = Socket
- Weight (g [oz]) = 85.00 [2.988]
- Contact Features:
  - Contact Material = AgCdO
  - Contact Number of Poles = 2

#### **Configuration Features:**

- Contact Arrangement = 2 Form C (CO)
- Coil Magnetic System = Monostable, DC
- Coil Special Features = UL Coil Insulation Class B

#### Industry Standards:

- RoHS/ELV Compliance = RoHS/Not ELV Compliant
- Lead Free Solder Processes = Not relevant for lead free
- process

   RoHS/ELV Compliance History = Converted to comply with RoHS not ELV directives
- Approved/Registered Standards = UL, CSA

#### Environmental:

- Environmental Category of Protection = RTI
- Environmental Ambient Temperature, Max. (°C [°F]) = 70 [158]
- Environmental Ambient Temperature Class = 50°C to 70°C Class

#### Packaging Features:

Packaging Method = Tray

### Other:

- Brand = Potter & Brumfield
- Accessories/Socket Type = DIN-rail Socket, PCB Socket, Snapin Socket, Track mount Socket, Chassis mount Socket



# **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 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

Туре	Load	Cycles
UL 508		
Ag, 1, 2 and	d 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		
0.	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 p	pole	
	10A, 240VAC	
	5A, 120VAC, tungsten	
	0.5A, 120VDC	
	10A, 28VDC, resistive	
	10FLA, 30LRA, 125VAC	
	5FLA, 15LRA, 250 VAC	30x10 <sup>4</sup>
	125VA, 250 VAC	





AgCaO, 4 pole (continued)		
1/3HP, 120VAC		
1/2HP, 250VAC		
Total load not to exceed 30 A, 28 VDC, 12	0 VAC and 20 A, 250 \	/AC
AgSnOlnO		
10A, 277VAC, pf = 0.8		100x10 <sup>3</sup>
Mechanical endurance	10x10 <sup>6</sup> ops.	
Coil Data		

Coil volta	ige range		5 to 110VDC	
			6 to 240VAC	
Coil insulation system according 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 a	are given for coil wit	hout preenergization	at ambient temperatur	re +23°C

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

## Coil versions, AC coil

	,			
Coil	Rated	Operate	Coil	Rated coil
code	voltage	voltage	resistance	power
	VAC	VAC $\Omega \pm 15\%$		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	2 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.

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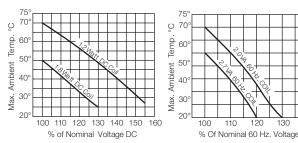


1200V <sub>rms</sub>
2200V <sub>rms</sub>
2200V <sub>rms</sub>
100MΩ, 500VDC

## **Other Data**

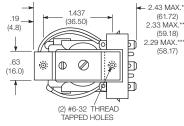
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter Ambient temperature DC coil Enclosed relays, 4 pole: -45°C to 50°C Enclosed relays, 1-3 pole: -45°C to 70°C

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 enlcosed)



### Dimensions





# .63 (16.0) 2.27 MAX. 4 (57.7) 2.171 MAX.\*\* .16 (4.1) (55.14) 2.125 MAX.\*\* (53.98)

6

9

031 BEE (.79)

(70

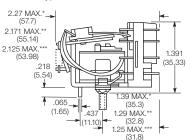
1.687 MAX. (42.85)

1.282 MAX.

(35.56)

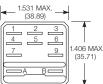
140

# KU stud type



# **Relay front diagrams**





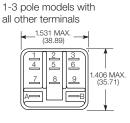
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TAB WIDTH (3.81) #6-32 THREAD

031 BEE

.109 MAX (2.77) 1



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Category of environmental prote	ection
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
Draduat Cada Dagarintian	

Description
DIN socket (use 20C318 clip)
Track mount socket (use 20C314 clips)
Chassis mount/solder eyelet socket (use 20C254 clip)
Chassis mount/PCB socket (use 20C254 clip)
Chassis mount/quick connect socket (use 20C254 clip)
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.

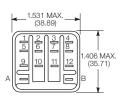
2.046" (51.97mm) for relay with printed circuit terminals.

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.

4 pole models



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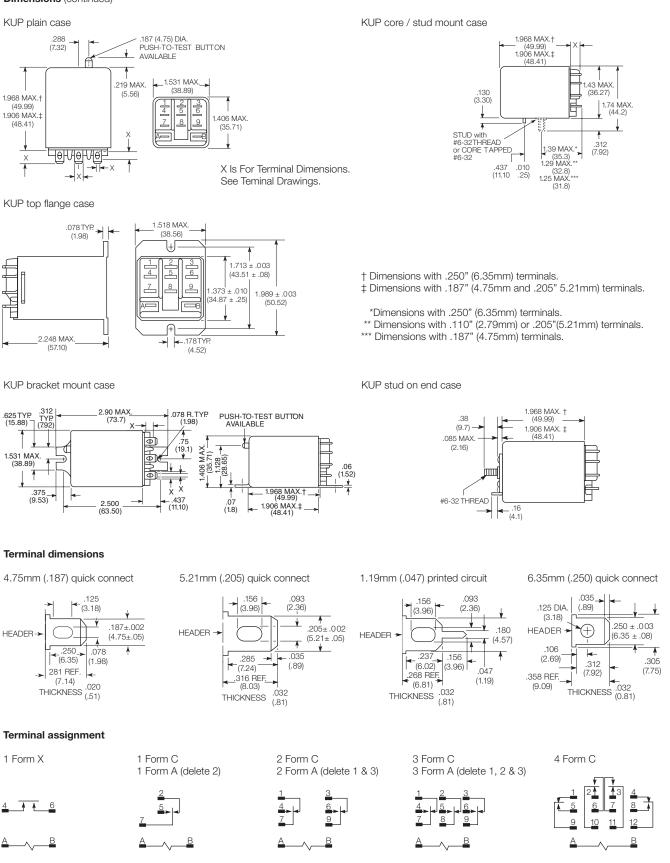
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## Dimensions (continued)



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	3 pole version	4 pole version	
	(Omit unnecessry holes for form A and 2 pole types)		
, .076 DIA. TYP. (1.93) 	076 DIA. TYP. 206 (5.23) (1.93) (5.2	.340	
	(22.23) →	$(\overset{,,,,,,,,}{(8.64)} \xrightarrow{,,,,,,}_{(12.95)} \overset{,,,}{(4.32)}$	
oduct code structure		Typical product code KUP -14 A 1 5	-1:
<b>KU</b> Open style relay	KUP Enclo	osed relay	
1         1 form A (1 NO)           7         2 form A (2 NO)           14         3 form C (3 CO)	<ul> <li>3 1 form X (1 NO-DM)</li> <li>11 2 form C (2 CO)</li> <li>17 4 form C (4 CO)</li> </ul>	5 1 form C (1 CO) 12 3 form A (3 NO)	
A AC, 50/60Hz	D DC		
<ul> <li>3 Socket mount (plain) c</li> <li>4 Socket mount (plain) c</li> <li>5 Bracket mount case</li> <li>A Plain case with #6-32 s</li> </ul>	ase with push-to-test button 1) ase with indicator lamp 2) ase with indicator lamp and push-to-		
<ul> <li>T Top flange case 1)</li> <li>1) Not available with four person 2) Indicator lamps are available</li> </ul>		). ils: 6-24VAC and VDC, 110VDC and 120-240VAC.	
<ul> <li>T Top flange case 1)</li> <li>1) Not available with four period</li> <li>2) Indicator lamps are availed</li> <li>Only models with 120-2</li> <li>Indicator lamps are availed</li> <li>Transl and contact material</li> </ul>	ole models (Contact arrangement 17 able on models with the following coi 40VAC coils are UL recognized.	). ils: 6-24VAC and VDC, 110VDC and 120-240VAC.	
<ul> <li>T Top flange case 1)</li> <li>1) Not available with four pressure avail Only models with 120-2.</li> <li>rminal and contact material</li> <li>1 and 2 pole models</li> <li>1 4.75mm (.187in) quick</li> <li>5 4.75mm (.187in) quick</li> <li>J 6.35mm (.250in) quick</li> <li>P 4.75mm (.187in) quick</li> <li>W 6.35mm (.250in) quick</li> <li>3 pole models</li> </ul>	able on models with the following coi 40VAC coils are UL recognized.	<ul> <li>ils: 6-24VAC and VDC, 110VDC and 120-240VAC.</li> <li>3 1.19mm (.047in) PCB; Ag, 5A</li> <li>7 1.19mm (.047in) PCB; AgCdO, 10A</li> <li>K 6.35mm (.250in) quick connect/solder; AgCdO, 10A</li> <li>S 1.19mm (.047in) PCB, AgSnOlnO; 10A</li> </ul>	
<ul> <li>T Top flange case 1)</li> <li>1) Not available with four present the second s</li></ul>	able on models with the following coi 40VAC coils are UL recognized. connect/solder; Ag, 5A connect/solder; AgCdO, 10A connect/solder; AgSnOlnO, 10A connect/solder; AgSnOlnO, 10A connect/solder; AgSnOlnO, 10A connect/solder; AgSnOlnO, 10A connect/solder; AgSnOlnO, 10A	<ul> <li>3 1.19mm (.047in) PCB; Ag, 5A</li> <li>7 1.19mm (.047in) PCB; AgCdO, 10A</li> <li>K 6.35mm (.250in) quick connect/solder; AgCdO, 10A</li> <li>S 1.19mm (.047in) PCB; Ag, 5A</li> <li>7 1.19mm (.047in) PCB; Ag, 5A</li> <li>7 1.19mm (.047in) PCB; Ag, 5A</li> <li>7 1.19mm (.047in) PCB; AgCdO, 10A</li> <li>S 1.19mm (.047in) PCB; AgSnOlnO; 10A</li> </ul>	
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4

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Product Code		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			6-1393118-1
KUP-5A55-120			120VAC		Bracket mount case	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	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	0 10111 0, 0 00	AgCdO	12VAC			7-1393117-7
KUP-14A15-24		rigodo	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			1201/10		Socket mount w/ indicator lamp	8-1393117-7
KUP-14A35-240			240VAC	-	Booker mount w/ indicator lamp	8-1393117-9
KUP-14A35F-120		AgCdO w/ Au flash	120VAC			9-1393117-0
KUP-14A45-120		AgCdO	120140		Socket mount w/ test button, indicator lamp	9-1393117-4
KUP-14A55-24		Agouo	24VAC		Bracket mount case	1393118-2
KUP-14A55-120			120VAC		Diacket mount case	9-1393117-9
KUP-14A55-240			240VAC			1393118-3
KUP-14D11-24		٨a	240VAC 24VDC	-	Socket mount, plain case	1
KUP-14D11-24 KUP-14D15-6		Ag AgCdO	6VDC		Socket mount, plain case	1-1393118-0
		Agodo		-		1-1393118-8
KUP-14D15-12 KUP-14D15-24			12VDC 24VDC			1-1393118-3
				-		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			110 10 0	-	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		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

5