

**KUEP Series Panel Plug-in Relay**

- 1 Form X, 2 Form A and 2 Form C contact arrangements
- 10 amp current rating
- Magnetic blow-out
- Various mounting options
- Indicator lamp available



Typical applications  
DC load switching in industrial controls

**Approvals**

UL E22575; CSA LR15734; CE (KUEP-11 only)  
Technical data of approved types on request

**Contact Data**

|                               |  |               |
|-------------------------------|--|---------------|
| Contact arrangement           | 1 form X (NO-DM), 2 form A (NO), 2 form C (CO) |               |
| Rated voltage                 | 150VDC   |               |
| Rated current                 | 10A  |               |
| Contact material              | AgCdO  | AgSnOInO      |
| Min. recommended contact load | 300mA, 12VDC                                   |               |
| Frequency of operation        | 360 ops./hour                                  | 360 ops./hour |
| Operate/releases time max.    | 15/10ms  |               |
| Bounce time max.              | 17ms   |               |

**Contact ratings**

| Type                     | Load                      | Cycles                  |
|--------------------------|---------------------------|-------------------------|
| <b>UL 508</b>            |                           |                         |
| KUEP, 1 form X, AgCdO    | 10A, 150VDC               | 100x10 <sup>3</sup>     |
|                          | 1A, 300VDC                | 100x10 <sup>3</sup>     |
|                          | 2.5 A, 170 VDC, resistive | 100x10 <sup>3</sup>     |
|                          | KUEP, 2 form A, AgCdO     |                         |
| KUEP, 2 form A, AgCdO    | 5 A, 150 VDC              |                         |
|                          | 2.5 A, 170 VDC, resistive | 100x10 <sup>3</sup>     |
| KUEP, 2 form C, AgCdO    | 3 A, 150 VDC              |                         |
|                          | 2.5 A, 170 VDC, resistive | 100x10 <sup>3</sup>     |
|                          | 10 A, 240 VAC             |                         |
|                          | 10 A, 32 VDC              |                         |
|                          | 5 FLA, 15 LRA, 250 VAC    |                         |
|                          | 1/3 HP, 120 VAC           |                         |
|                          | 5 A, 120 VAC, tungsten    |                         |
|                          | 1/2 HP, 250 VAC           |                         |
|                          | 10 FLA, 40 LRA, 125 VAC   |                         |
|                          | 3 A, 600 VAC              |                         |
|                          | 1/2 HP, 480 VAC           |                         |
| 1/2 HP, 600 VAC          |                           |                         |
| 1 HP, 480 VAC, 3 phase   |                           |                         |
| KUEP, 1 form X, AgSnOInO | 10A, 150VDC, resistive    | 30x10 <sup>3</sup>      |
|                          | KUEP, 2 form A, AgSnOInO  |                         |
| KUEP, 2 form A, AgSnOInO | 5 A, 150 VDC, resistive   | 100x10 <sup>3</sup>     |
|                          | KUEP, 2 form C, AgSnOInO  |                         |
| KUEP, 2 form C, AgSnOInO | 3 A, 150 VDC, resistive   | 100x10 <sup>3</sup>     |
|                          | Mechanical endurance      | 10x10 <sup>6</sup> ops. |

**Coil Data**

|                                     |                            |
|-------------------------------------|----------------------------|
| Coil voltage range                  | 5 to 125VDC<br>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 |
|--------------------------|-------------------|---------------------|-----------------------------------|--------------------|
| <b>One pole versions</b> |                   |                     |                                   |                    |
| 5                        | 5                 | 3.75                | 21                                | 1.2                |
| 6                        | 6                 | 4.5                 | 32                                | 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               |
| 125                      | 125               | 93.75               | 13000                             | 1.2                |
| <b>Two pole versions</b> |                   |                     |                                   |                    |
| 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                |
| 125                      | 125               | 93.75               | 8680                              | 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 |
|--------------------------|-------------------|---------------------|-----------------------------------|---------------------|
| <b>One pole versions</b> |                   |                     |                                   |                     |
| 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                 |
| <b>Two pole versions</b> |                   |                     |                                   |                     |
| 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.

**Insulation Data**

|                               |                      |
|-------------------------------|----------------------|
| Initial dielectric strength   |                      |
| between open contacts         | 1200V <sub>rms</sub> |
| between contact and coil      | 2200V <sub>rms</sub> |
| between adjacent contacts     | 2200V <sub>rms</sub> |
| Initial insulation resistance |                      |
| between insulated elements    | 100M $\Omega$        |

**KUEP Series Panel Plug-in Relay (Continued)**

**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](http://www.te.com/customersupport/rohssupportcenter)

|                                      |  |
|--------------------------------------|--|
| Ambient temperature                  |  |
| DC coil                              | -45°C to 70°C                                  |
| AC coil                              | 1 pole: -45°C to 55°C<br>2 pole: -45°C to 45°C |
| Category of environmental protection |  |
| IEC 61810                            | RT1 - dust protected                           |
| Vibration resistance (functional)    | .065" double amplitude, 10-55Hz                |
| Shock resistance (functional)        | 15g, 11ms (non-operating)                      |
| Terminal type                        |  |
|                                      | Quick connects (QC), .187 or .205 PCB-THT      |
| Terminal retention, push force       |  |
| QC .205                              | 17 lbs for 3s                                  |
| QC .187                              | 25 lbs for 3s                                  |

**Other Data (Continued)**

|                |                           |
|----------------|---------------------------|
| Weight         | 85g                       |
| Packaging/unit | tray/25 pcs., box/150pcs. |

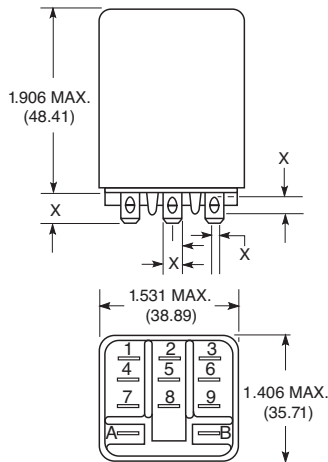
**Accessories**

For details see datasheet      Sockets and Accessories, KUP Relays

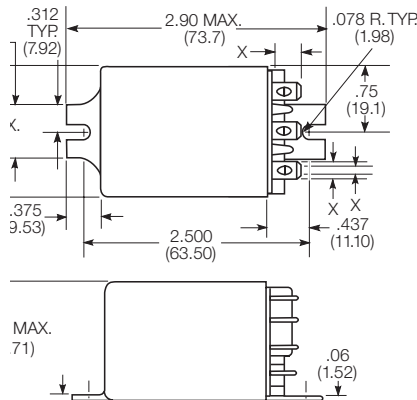
| Product Code | Description  |
|--------------|--|
| 27E893       | DIN socket (use 20C318 clip)                         |
| 27E121       | Track mount socket (use 20C314 clips)                |
| 27E043       | Chassis mount/solder eyelet socket (use 20C254 clip) |
| 27E046       | Chassis mount/PCB socket (use 20C254 clip)           |
| 27E067       | Chassis mount/quick connect socket (use 20C254 clip) |
| 27E396       | Snap-in/quick connect socket (use 20C254 clip)       |

**Dimensions**

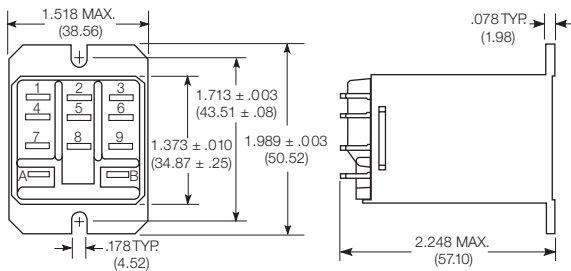
Plain case



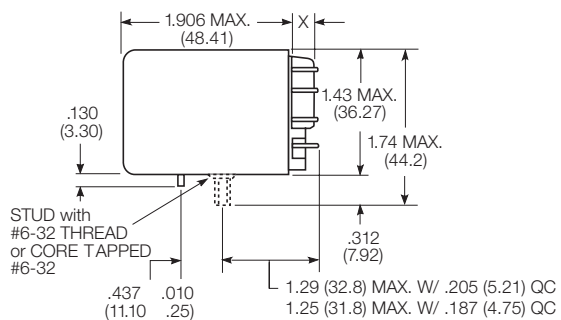
Bracket mount case



Top flange case



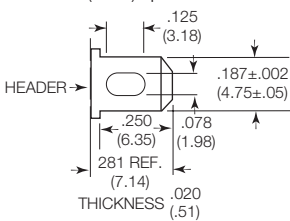
Core / stud mount case



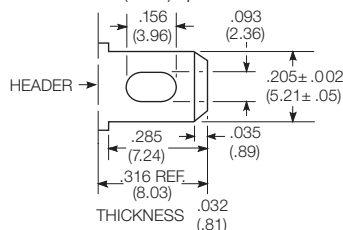
X Is For Terminal Dimensions. See Terminal Drawings.

**Terminal dimensions**

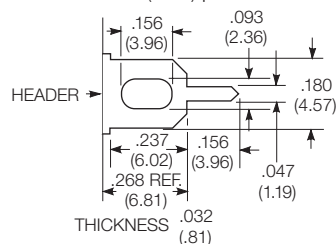
4.75mm (.187) quick connect



5.21mm (.205) quick connect



1.19mm (.047) printed circuit





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