

KUMP Series Panel Plug-in Relay

- 15 amp rating
- Contact arrangements 1-3 Form A, 1-3 Form B, 1-3 Form C, 1 Form X, 1 Form Y, 1 Form Z
- Open or enclosed
- Plain or bracket mount dust covers
- Optional indicator lamp and push-to-test button
- Several termination and mounting styles

Typical applications
Hospital beds, semiconductor wafer equipment, boom/bucket lifts



Approvals

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

Contact Data

| | | |
|-------------------------------|---|---------------|
| Contact arrangement | 1, 2 and 3 Form A (NO); 1, 2 and 3 Form B (NC); 1, 2 and 3 Form C (CO); 1 Form X (NO-DM); 1 Form Y (NC-DB); 1 Form Z (CO-DB-DM) | |
| Rated voltage | 277VAC | |
| Rated current | 15A | |
| Contact material | AgCdO | AgSnInO |
| Min. recommended contact load | 300mA, 12VDC | 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 |
|----------------------|-----------------------|-------------------------|
| UL 508 AgCdO | 15A, 277VAC | |
| | 1/2HP, 120VAC | |
| | 10A, 240VAC | |
| | 10A, 32VDC | |
| | 5FLA, 15LRA, 250VAC | |
| | 5A, 120VAC, tungsten | |
| | 0.5A, 250VAC | |
| | 0.5A, 125VDC | |
| | 10FLA, 40LRA, 125VAC | |
| | 3A, 600VAC | |
| AgSnInO | 1/2HP, 480VAC | |
| | 1/2HP, 600VAC | |
| | 1HP, 480VAC, 3 phase | |
| | 15A, 277VAC, pf = 0.8 | 15x10 ³ |
| | 10A, 277VAC, pf = 0.8 | 100x10 ³ |
| Mechanical endurance | | 10x10 ⁶ 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 Ω±10% | Rated coil power W |
|-----------|-------------------|---------------------|-----------------------|--------------------|
| 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 |

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 Ω±15% | Rated coil power VA |
|-----------|-------------------|---------------------|-----------------------|---------------------|
| 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 _{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/customer-support/rohssupportcenter

| | |
|--------------------------------------|--|
| Ambient temperature | |
| DC coil | Enclosed relays: -45°C to 70°C Open relays: 15°C higher maximum |
| AC coil | Enclosed relays, 3 pole: -45°C to +45°C Enclosed relays, 1 and 2 pole: -45°C to +55°C Open relays: 15°C higher maximum |
| Category of environmental protection | IEC 61810 RT0 - open relay; RT1 - 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

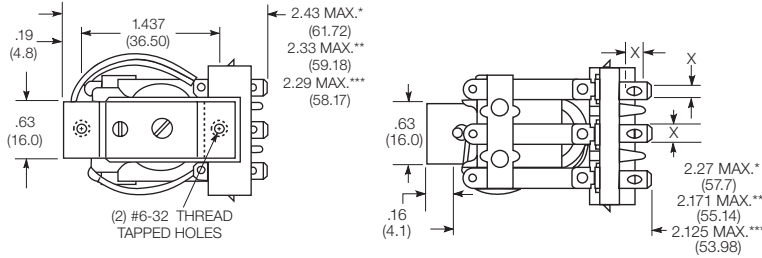
For details see datasheet Sockets and Accessories, KUP Relays

| 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) |

KUMP Series Panel Plug-in Relay (Continued)

Dimensions

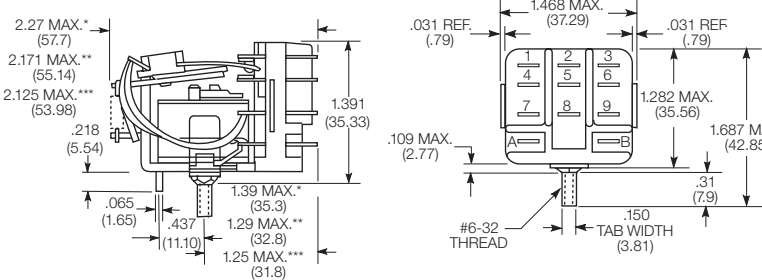
KUM bracket type



Seated Heights For KUM (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.

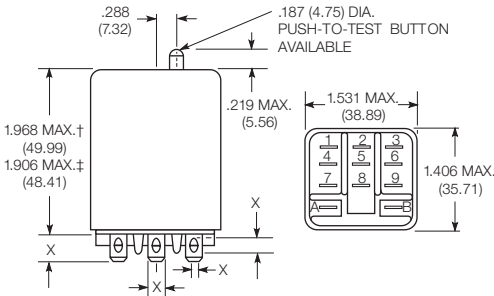
KUM stud type



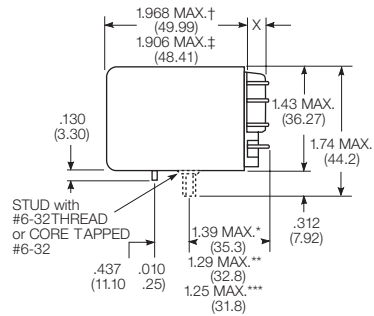
STUD TYPE also available with .125" (3.18mm) tab, as well as without stud and locating tab. Models without stud have core tapped #6-32 THREAD, .25" (6.4mm) minimum depth.

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

KUMP plain case

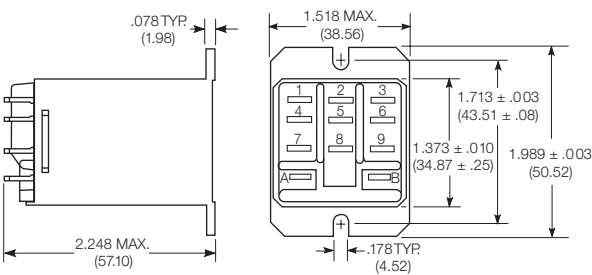


KUMP core / stud mount case



X Is For Terminal Dimensions. See Terminal Drawings.

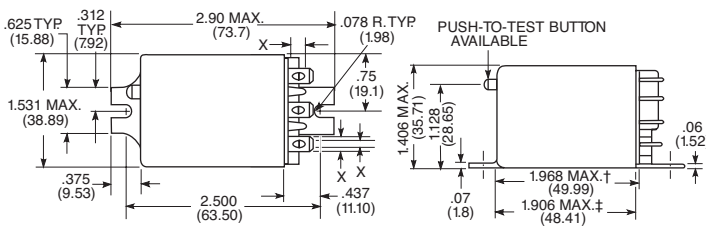
KUMP top flange case



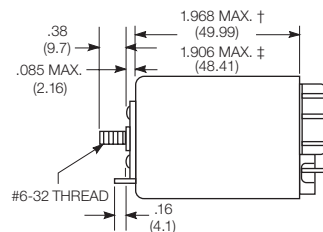
- † Dimensions with .250" (6.35mm) terminals.
- ‡ Dimensions with .187" (4.75mm) and .205" (5.21mm) terminals.

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

KUMP bracket mount case



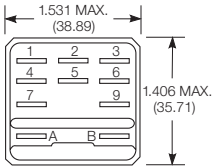
KUMP stud on end case



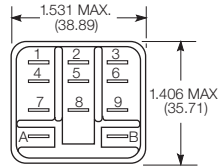
KUMP Series Panel Plug-in Relay (Continued)

Relay front diagrams

Models with 6.35mm (.250) QC terminals

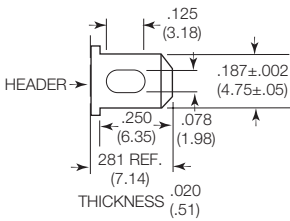


Models with all other terminals

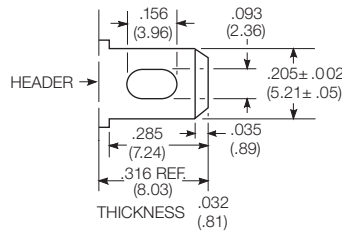


Terminal dimensions

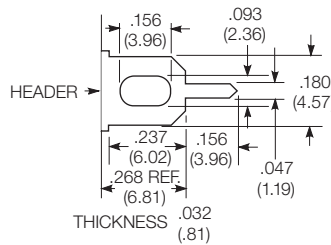
4.75mm (.187) quick connect



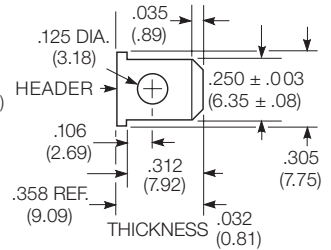
5.21mm (.205) quick connect



1.19mm (.047) printed circuit

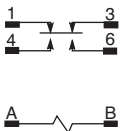


6.35mm (.250) quick connect

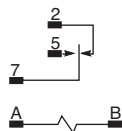


Terminal assignment

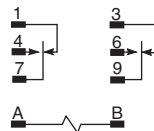
1 Form Z
1 Form X (delete 1 & 3)
1 Form Y (delete 4 & 6)



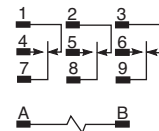
1 Form C
1 Form A (delete 2)
1 Form B (delete 5)



2 Form C
2 Form A (delete 1 & 3)
2 Form B (delete 4 & 6)



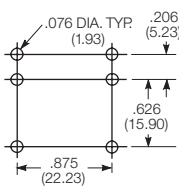
3 Form C
3 Form A (delete 1, 2 & 3)
3 Form B (delete 4, 5 & 6)



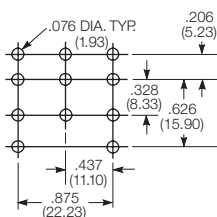
PCB layout

Bottom view on solder pins

1 form Z version
(Omit unnecessary holes for form X and Y types)



3 pole version
(Omit unnecessary holes for form A and 2 pole types)



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