

**R10 Series Panel Plug-in Relay (Continued)**

**Coil versions, DC coil (continued)**

| Coil code                                             | Maximum coil current mADC | Operate current mADC | Coil resistance $\Omega \pm 10\%$ | Pick-up coil power mW |
|-------------------------------------------------------|---------------------------|----------------------|-----------------------------------|-----------------------|
| J - sensitive DC current adjustment – R10S types only |                           |                      |                                   |                       |
| 2 pole                                                |                           |                      |                                   |                       |
| J500 <sup>1)</sup>                                    | –                         | 6.3                  | 500                               | 20                    |
| J1.0K                                                 | –                         | 4.5                  | 1000                              | 20                    |
| J2.5K <sup>2)</sup>                                   | –                         | 2.9                  | 2500                              | 25                    |
| J5.0K                                                 | –                         | 2                    | 5000                              | 20                    |
| J10.0K <sup>3)</sup>                                  | –                         | 1.4                  | 10000                             | 20                    |
| J16.0K                                                | –                         | 1.2                  | 16000                             | 25                    |
| J30.0K                                                | –                         | 0.8                  | 30000                             | 20                    |
| 4 pole                                                |                           |                      |                                   |                       |
| J500                                                  | –                         | 9                    | 500                               | 45                    |
| J1.0K                                                 | –                         | 6.5                  | 1000                              | 45                    |
| J2.5K <sup>2)</sup>                                   | –                         | 4.1                  | 2500                              | 45                    |
| J5.0K <sup>3)</sup>                                   | –                         | 2.9                  | 5000                              | 45                    |
| J10.0K                                                | –                         | 2                    | 10000                             | 40                    |
| J16.0K                                                | –                         | 1.4                  | 16000                             | 35                    |
| J30.0K                                                | –                         | 1.2                  | 30000                             | 45                    |

1) Suggested for 5VDC operation  
2) Suggested for 12VDC operation  
3) Suggested for 24VDC operation

**JJ - ultrasensitive DC current adjustment**

|         |      |      |       |    |
|---------|------|------|-------|----|
| 1 pole  |      |      |       |    |
| JJ1.0K  | 45   | 4.5  | 1000  | 20 |
| JJ2.5K  | 28   | 2.9  | 2500  | 25 |
| JJ5.0K  | 20   | 2.1  | 5000  | 25 |
| JJ10.0K | 14   | 1.5  | 10000 | 25 |
| JJ15.0K | 11.5 | 1.2  | 15000 | 25 |
| JJ30.0K | 8.3  | 0.85 | 30000 | 25 |
| 2 pole  |      |      |       |    |
| JJ1.0K  | 45   | 6.5  | 1000  | 45 |
| JJ2.5K  | 28   | 4.1  | 2500  | 45 |
| JJ5.0K  | 20   | 2.9  | 5000  | 45 |
| JJ10.0K | 14   | 2    | 10000 | 40 |
| JJ15.0K | 11.5 | 1.7  | 15000 | 45 |
| JJ30.0K | 8.3  | 1.2  | 30000 | 45 |
| 4 pole  |      |      |       |    |
| JJ1.0K  | 45   | 9    | 1000  | 85 |
| JJ2.5K  | 28   | 5.8  | 2500  | 85 |
| JJ5.0K  | 20   | 4.1  | 5000  | 85 |
| JJ10.0K | 14   | 3    | 10000 | 90 |
| JJ15.0K | 11.5 | 2.4  | 15000 | 85 |
| JJ30.0K | 8.3  | 1.7  | 30000 | 90 |

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

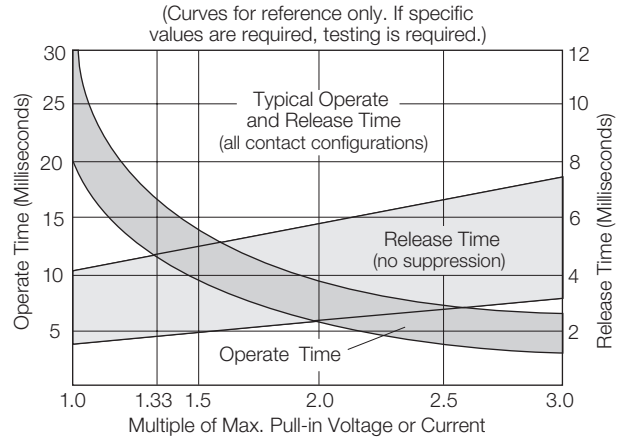
**Coil versions, AC coil (dual coil diode rectified construction)**

| Coil code    | Rated voltage VAC | Operate voltage VAC | Coil resistance $\Omega \pm 20\%$ |
|--------------|-------------------|---------------------|-----------------------------------|
| Standard AC  |                   |                     |                                   |
| 2 and 4 pole |                   |                     |                                   |
| 6V           | 6                 | 5                   | 25                                |
| 12V          | 12                | 9                   | 120                               |
| 24V          | 24                | 18                  | 500                               |
| 48V          | 48                | 36                  | 2000                              |
| 115V         | 115               | 86                  | 9000                              |
| 6 and 8 pole |                   |                     |                                   |
| 6V           | 6                 | 5                   | 15                                |
| 12V          | 12                | 9                   | 90                                |
| 24V          | 24                | 18                  | 350                               |
| 48V          | 48                | 36                  | 1400                              |
| 115V         | 115               | 86                  | 7500                              |

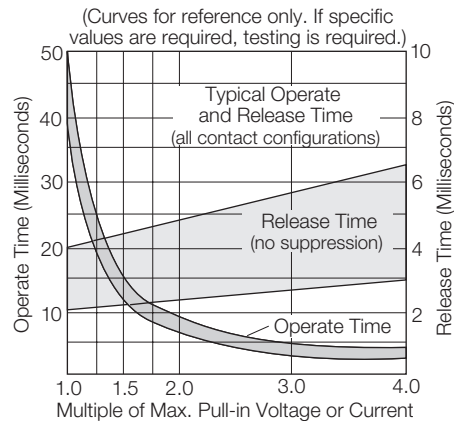
All figures are given for coil without preenergization, at ambient temperature +23°C.

**Operative Range**

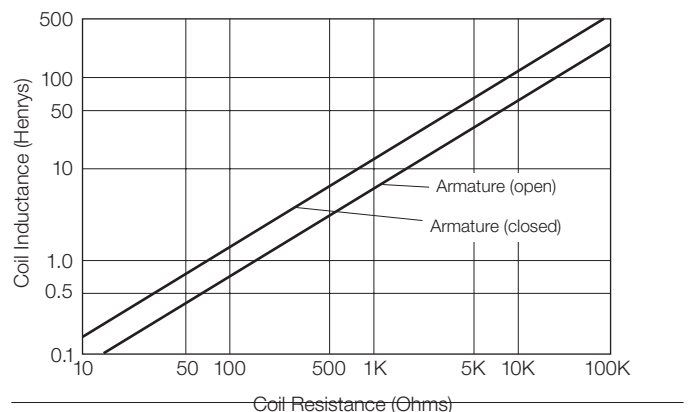
R10 Relays (DC Only) Typical Ranges of Operations @ 25°C



R10 Ultra-Sensitive "SS" and "JJ" Typical Ranges of Operation @ 25°C



**Typical Coil Inductance**



## R10 Series Panel Plug-in Relay (Continued)

### Insulation Data

|                               |                      |
|-------------------------------|----------------------|
| Initial dielectric strength   |                      |
| between open contacts         | 500V <sub>rms</sub>  |
| between contact and coil      | 1000V <sub>rms</sub> |
| between adjacent contacts     | 1000V <sub>rms</sub> |
| Initial insulation resistance |                      |
| between insulated elements    | 10GΩ, 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](http://www.te.com/customer-support/rohssupportcenter)

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| Ambient temperature                  | -55°C to 75°C                               |
| Category of environmental protection |                                             |
| IEC 61810                            | RTI - dust protected and RTIII - wash tight |

### Other Data (continued)

|                |                                                                 |
|----------------|-----------------------------------------------------------------|
| Terminal type  | Solder/plug-in terminals, PCB-THT, 8- or 11-PIN octal type plug |
| Weight         | 23 to 40g                                                       |
| Packaging/unit | tray/50 pcs., box/350pcs.                                       |

### Accessories

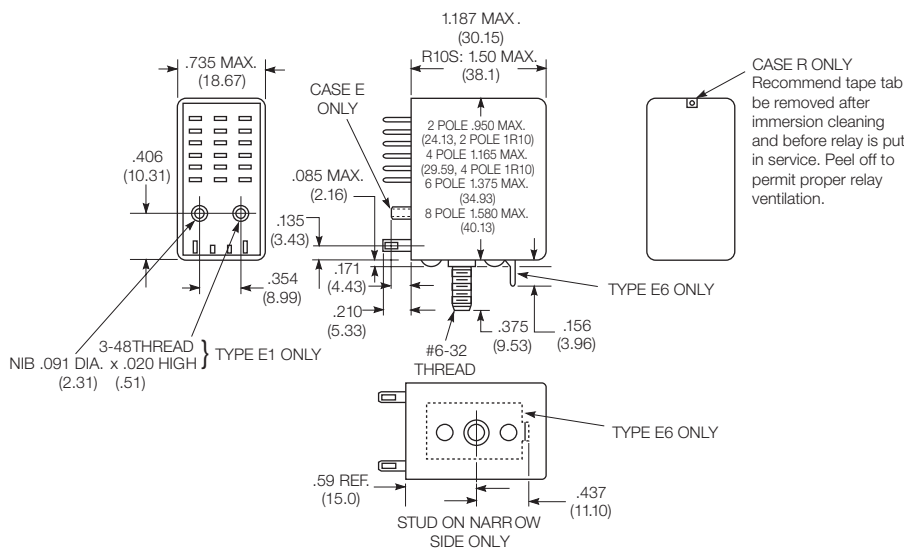
|                           |                                     |
|---------------------------|-------------------------------------|
| For details see datasheet | Sockets and Accessories, R10 Relays |
|---------------------------|-------------------------------------|

Product Code Description

Many versions of sockets and clips available.

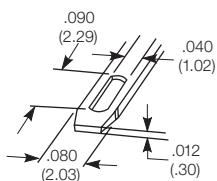
**NOTE:** Relays with contact current <50mA are not recommended for use in sockets.

### Dimensions

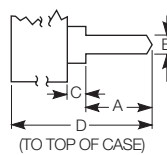


### Terminal dimensions

Solder terminal dimensions

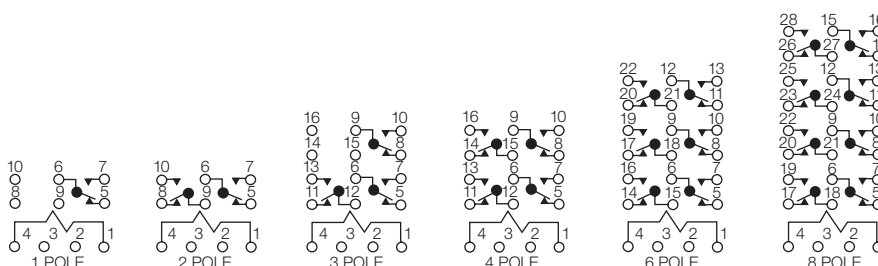


Printed circuit terminal dimensions



|           | A    | B    | C    | D     | Arrang.   |
|-----------|------|------|------|-------|-----------|
| Type 2    | .131 | .050 | .064 | 1.251 | Inline    |
| Type 7    | .131 | .040 | .013 | 1.20  | Inline    |
| Type 9    | .170 | .040 | .000 | 1.187 | Staggered |
| Thickness | .012 | .012 | .012 | .013  | —         |

### Terminal assignment



R10 - AC Coil Diagram

