

Accessories (Order Separately)

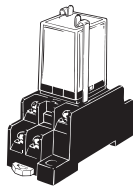
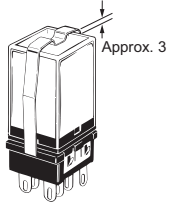
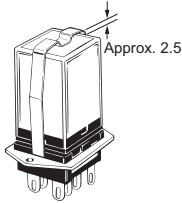
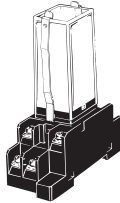

Connection Sockets

| Connecting method | Mounting method | Number of poles | Model |
|--|--------------------------------|------------------|-------------|
| Front-mounting Sockets (PTF□-□-PU, PTF□A) | Track or screw mounting | 1 or 2 | PTF-08-PU |
| | | | PTF-08-PU-L |
| | | | PTF08A |
| | | 3 | PTF08A-E *1 |
| | | | PTF11A |
| | | | PTF-14-PU-L |
| 4 | PTF14A | | |
| | PTF14A-E *1 | | |
| | Back-mounting Sockets (PT□) | Solder terminals | 1 or 2 |
| 3 | | | PT11 *2 |
| 4 | | | PT14 *2 |
| Wrapping terminals | | 1 or 2 | PT08QN |
| | | 3 | PT11QN |
| | | 4 | PT14QN |
| Relays with PCB Terminals | | 1 or 2 | PT08-0 |
| | | 3 | PT11-0 |
| | | 4 | PT14-0 |

*1. The PTF□A-E Relays have finger protection. Round terminals cannot be used. Use forked terminals.

*2. When ordering PT08, PT11, or PT14 sockets, please note that the minimum order quantity is 10 and orders are accepted in multiples of the minimum order.

Relay Hold-down Clips

| Application Item | Used with Socket | | Used with Socket mounting plate | For models with built-in CR circuits | |
|----------------------------|---|---|---|---|---|
| Appearance |  |  Approx. 3 |  Approx. 2.5 |  |  |
| Model | PYC-A1 | PYC-P | PYC-S | Y92H-3 | PYC-1 |
| Minimum order (quantity) * | 100 | 100 | 10 | 10 | 10 |

* Orders are accepted in multiples of the minimum order.

Socket Mounting Plates

| Applicable sockets | Number of sockets | Model |
|--------------------|-------------------|-----------|
| PT08 PT08QN | 1 | PYP-1 *1 |
| | 18 | PYP-18 *2 |
| | 36 | PYP-36 *2 |
| PT11 PT11QN | 1 | PTP-1-3 |
| | 12 | PTP-12 |
| PT14 PT14QN | 1 | PTP-1 |
| | 10 | PTP-10 |

*1. When ordering PYP-1, please note that the minimum order quantity is 10 and orders are accepted in multiples of the minimum order.

*2. PYP-18 and PYP-36 can be cut to any required length.

Ratings and Specifications

Ratings

Standard Models with Built-in Operation Indicators

Operating Coil, Single-pole and Double-pole Models

| Item | Rated voltage (V) | Rated current (mA) | | Coil resistance (Ω) | Coil inductance (H) | | Must-operate voltage (V) | Must-release voltage (V) | Maximum voltage (V) | Power consumption (VA, W) |
|------|-------------------|--------------------|---------|---------------------|---------------------|-------------|--------------------------|--------------------------|-----------------------|-------------------------------|
| | | 50 Hz | 60Hz | | Armature OFF | Armature ON | | | | |
| AC | 12 | 106.5 | 91 | 46 | 0.17 | 0.33 | 80% max.*1 | 30% min.*2 | 110% of rated voltage | Approx. 1.0 to 1.2 (at 60 Hz) |
| | 24 | 53.8 | 46 | 180 | 0.69 | 1.3 | | | | |
| | 50 | 25.7 | 22 | 788 | 3.22 | 5.66 | | | | |
| | 100/110 | 11.7/12.9 | 10/11 | 3,750 | 14.54 | 24.6 | | | | Approx. 0.9 to 1.1 (at 60 Hz) |
| | 110/120 | 9.9/10.8 | 8.4/9.2 | 4,430 | 19.2 | 32.1 | | | | |
| | 200/220 | 6.2/6.8 | 5.3/5.8 | 12,950 | 54.75 | 94.07 | | | | |
| | 220/240 | 4.8/5.3 | 4.2/4.6 | 18,790 | 83.5 | 136.4 | | | | |
| DC | 6 | 150 | | 40 | 0.16 | 0.33 | 80% max.*1 | 10% min.*2 | 110% of rated voltage | Approx. 0.9 |
| | 12 | 75 | | 160 | 0.73 | 1.37 | | | | |
| | 24 | 36.9 | | 650 | 3.2 | 5.72 | | | | |
| | 48 | 18.5 | | 2,600 | 10.6 | 21.0 | | | | |
| | 100/110 | 9.1/10 | | 11,000 | 45.6 | 86.2 | | | | |

3 poles

| Item | Rated voltage (V) | Rated current (mA) | | Coil resistance (Ω) | Coil inductance (H) | | Must-operate voltage (V) | Must-release voltage (V) | Maximum voltage (V) | Power consumption (VA, W) |
|------|-------------------|--------------------|-----------|---------------------|---------------------|-------------|--------------------------|--------------------------|-----------------------|-------------------------------|
| | | 50 Hz | 60Hz | | Armature OFF | Armature ON | | | | |
| AC | 12 | 159 | 134 | 24 | 0.12 | 0.21 | 80% max.*1 | 30% min.*2 | 110% of rated voltage | Approx. 1.6 to 2.0 (at 60 Hz) |
| | 24 | 80 | 67 | 100 | 0.44 | 0.79 | | | | |
| | 100/110 | 14.1/16 | 12.4/13.7 | 2,300 | 10.5 | 18.5 | | | | |
| | 200/220 | 9.0/10.0 | 7.7/8.5 | 8,650 | 34.8 | 59.5 | | | | |
| DC | 12 | 112 | | 107 | 0.45 | 0.98 | 80% max.*1 | 10% min.*2 | 110% of rated voltage | Approx. 1.4 |
| | 24 | 58.6 | | 410 | 1.89 | 3.87 | | | | |
| | 48 | 28.2 | | 1,700 | 8.53 | 13.9 | | | | |
| | 100/110 | 12.7/13 | | 8,500 | 29.6 | 54.3 | | | | |

4 poles

| Item | Rated voltage (V) | Rated current (mA) | | Coil resistance (Ω) | Coil inductance (H) | | Must-operate voltage (V) | Must-release voltage (V) | Maximum voltage (V) | Power consumption (VA, W) |
|------|-------------------|--------------------|----------|---------------------|---------------------|-------------|--------------------------|--------------------------|-----------------------|--------------------------------|
| | | 50 Hz | 60Hz | | Armature OFF | Armature ON | | | | |
| AC | 12 | 199 | 170 | 20 | 0.1 | 0.17 | 80% max.*1 | 30% min.*2 | 110% of rated voltage | Approx. 1.95 to 2.5 (at 60 Hz) |
| | 24 | 93.6 | 80 | 78 | 0.38 | 0.67 | | | | |
| | 100/110 | 22.5/25.5 | 19/21.8 | 1,800 | 10.5 | 17.3 | | | | |
| | 200/220 | 11.5/13.1 | 9.8/11.2 | 6,700 | 33.1 | 57.9 | | | | |
| DC | 12 | 120 | | 100 | 0.39 | 0.84 | 80% max.*1 | 10% min.*2 | 110% of rated voltage | Approx. 1.5 |
| | 24 | 69 | | 350 | 1.41 | 2.91 | | | | |
| | 48 | 30 | | 1,600 | 6.39 | 13.6 | | | | |
| | 100/110 | 15/15.9 | | 6,900 | 32.0 | 63.7 | | | | |

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/–20% for the AC rated current and ±15% for the DC coil resistance.

2. The AC coil resistance and inductance values are reference values only. (at 60 Hz).

3. Operating characteristics were measured at a coil temperature of 23°C.

4. The maximum voltage capacity was measured at an ambient temperature of 23°C.

*1. There is variation between products, but actual values are 80% max.

To ensure operation, apply at least 80% of the rated value (at a coil temperature of +23° C).

*2. The actual values are 30% min. for AC and 10% min. for DC. To ensure release, use a value that is lower than the specified value.