

General-purpose Relay

LY

A Miniature Power Relay





- Equipped with arc barrier.
- Withstand voltage: 2,000 V.



RC+Y LR

Ordering Information

■ Open Relays

| Type | Contact form | Plug-in/solder terminals  | Plug-in/solder terminals with indicator  | PCB terminals  | Upper-mounting Plug-in/solder terminals  |
|-------------------------------------|-------------------|---|--|--|--|
| Standard | SPDT | LY1 | LY1N | LY1-0 | LY1F |
| | DPDT | LY2 | LY2N | LY2-0 | LY2F |
| | DPDT (bifurcated) | LY2Z | LY2ZN | LY2Z-0 | LY2ZF |
| | 3PDT | LY3 | LY3N | LY3-0 | LY3F |
| | 4PDT | LY4 | LY4N | LY4-0 | LY4F |
| | 4PDT (bifurcated) | LY4Z | LY4ZN | LY4Z-0 | LY4ZF |
| With built-in diode (DC only) | SPDT | LY1-D | LY1N-D2 | — | — |
| | DPDT | LY1-D | LY2N-D2 | — | — |
| | DPDT (bifurcated) | LY2Z-D | LY2ZN-D2 | — | — |
| | 3PDT | LY3-D | — | — | — |
| | 4PDT | LY4-D | LY4N-D2 | — | — |
| | 4PDT (bifurcated) | LY4Z-D | — | — | — |
| With built-in CR (AC only) | SPDT | — | — | — | — |
| | DPDT | LY2-CR | LY2N-CR | — | — |
| | DPDT (bifurcated) | LY2Z-CR | LY2ZN-CR | — | — |
| With built-in varistor (AC only) | 3PDT | — | — | — | — |
| | 4PDT | LY4-Y-V | LY4N-V | — | — |
| | 4PDT (bifurcated) | — | — | — | — |

| Type | Contact form | Plug-in/solder terminals | Plug-in/solder terminals with indicator | PCB terminals | Upper-mounting Plug-in/solder terminals |
|------------------|-------------------|--------------------------|---|---------------|---|
| High-humidity | SPDT | LY1-TU | — | — | — |
| | DPDT | LY2-TU | — | — | — |
| | DPDT (bifurcated) | LY2Z-TU | — | — | — |
| | 3PDT | LY3-TU | — | — | — |
| | 4PDT | LY4-TU | — | — | — |
| | 4PDT (bifurcated) | LY4Z-TU | — | — | — |
| With test button | SPDT | — | — | — | — |
| | DPDT | LY2I2 | LY2I2N | — | — |
| | DPDT (bifurcated) | LY2ZI2 | LY2ZI2N | — | — |
| | 3PDT | LY3I2 | — | — | — |
| | 4PDT | LY4I2 | LY4I2N | — | — |
| | 4PDT (bifurcated) | LY4ZI2 | LY4ZI2 | — | — |

Note: 1. When ordering, add the rated coil voltage to the model number. Rated coil voltages are given in the coil ratings table.

Example: LY2, 6 VAC

Rated coil voltage

2. Relays with #187 quick connect terminals are also available with SPDT and DPDT contact. Ask you OMRON representative for details.
3. SEV models are standard relays only. Relays with built-in varistors have not met overseas standards.
4. VDE- or LR- qualifying relays must be specified when ordering.

■ Accessories (Order Separately)

Sockets

| Poles | Front-connecting socket | Back-connecting socket | | |
|--------|--------------------------|------------------------|--------------------|---------------|
| | DIN rail/screw terminals | Solder terminals | Wrapping terminals | PCB terminals |
| 1 or 2 | PTF08A-E, PTF08A | PT08 | PT08QN | PT08-0 |
| 3 | PTF11A | PT11 | PT11QN | PT11-0 |
| 4 | PTF14A-E, PTF14A | PT14 | PT14QN | PT14-0 |

Note: 1. For PTF08-E and PTF14A-E, see "Track Mounted Socket".

2. PTF□AY (-E) sockets have met UL and CSA standards: UL 508/CSA C22.2.

Mounting Plates for Sockets

| Socket model | For 1 socket | For 10 sockets | For 12 sockets | For 18 sockets |
|----------------|--------------|----------------|----------------|----------------|
| PT08 PT08QN | PYP-1 | — | — | PYP-18 |
| PT11 PT11QN | PTP-1-3 | — | PTP-12 | — |
| PT14 PT14QN | PTP-1 | PTP-10 | — | — |

Socket–Hold-down Clip Pairings

| Relay type | Poles | Front-connecting sockets | | Back-connecting sockets | |
|---|-------|--------------------------|------------|-------------------------|----------------------------|
| | | Socket model | Clip model | Socket model | Clip model |
| Standard, bifurcated contacts operation indicator, built-in diode, or high-humidity | 1, 2 | PTF08A-E, PTF08A | PYC-A1 | PT08(QN), PT08-0 | PYC-P |
| | 3 | PTF11A | | PT11(QN), PT11-0 | |
| | 4 | PTF14A-E, PTF14A | | PT14(QN), PT14-0 | |
| LY2N-D4 | 2 | PTF08A-E, PTF08A | Y92H-3 | PT08(QN), PT08-0 | PYC-1 |
| Test button | 1, 2 | PTF08A-E, PTF08A | PYC-A1 | PT08(QN), PT08-0 | PYC-P2 |
| | 3 | PTF11A | | PT11(QN), PT11-0 | PYC-P (PYC-P2 for LY31) |
| | 4 | PTF14A-E, PTF14A | | PT14(QN), PT14-0 | PYC-P2 |
| CR circuit | 1, 2 | PTF08A-E, PTF08A | Y92H-3 | PT08(QN), PT08-0 | PYC-1 |
| Built-in varister | 4 | PTF14A-E, PTF14A | PYC-A1 | PT14(QN), PT14-0 | PYC-P |

Specifications

■ Coil Ratings

Single- and Double-pole Relays

| | Rated voltage | Rated current | | Coil resistance | Inductance (reference value) | | Must operate voltage | Must release voltage | Max. voltage | Power consum. (approx.) |
|----|---------------|---------------|------------|-----------------|---------------------------------|----------|----------------------------|----------------------------|-----------------|-------------------------------|
| | | 50 Hz | 60 Hz | | Arm. OFF | Arm. ON | | | | |
| AC | 6 V | 214.1 mA | 183 mA | 12.2 Ω | 0.04 H | 0.08 H | 80% max. | 30% min. | 110% | 1.0 to 1.2 VA (60 Hz) |
| | 12 V | 106.5 mA | 91 mA | 46 Ω | 0.17 H | 0.33 H | | | | |
| | 24 V | 53.8 mA | 46 mA | 180 Ω | 0.69 H | 1.30 H | | | | |
| | 50 V | 25.7 mA | 22 mA | 788 Ω | 3.22 H | 5.66 H | | | | |
| | 100/110 V | 11.7/12.9 mA | 10/11 mA | 3,750 Ω | 14.54 H | 24.6 H | | | | 0.9 to 1 VA (60 Hz) |
| | 110/120 V | 9.9/10.8 mA | 8.4/9.2 mA | 4,430 Ω | 19.20 H | 32.1 H | | | | |
| | 200/220 V | 6.2/6.8 mA | 5.3/5.8 mA | 12,950 Ω | 54.75 H | 94.07 H | | | | |
| | 220/240 V | 4.8/5.3 mA | 4.2/4.6 mA | 18,790 Ω | 83.50 H | 136.40 H | | | | |
| DC | 6 V | 150 mA | | 40 Ω | 0.16 H | 0.33 H | 10% min. | | 0.9 W | |
| | 12 V | 75 mA | | 160 Ω | 0.73 H | 1.37 H | | | | |
| | 24 V | 36.9 mA | | 650 Ω | 3.20 H | 5.72 H | | | | |
| | 48 V | 18.5 mA | | 2,600 Ω | 10.6 H | 21.0 H | | | | |
| | 100/110 V | 9.1/10 mA | | 11,000 Ω | 45.6 H | 86.2 H | | | | |

Note: See notes on the bottom of next page.

Three-pole Relays

| Rated voltage | | Rated current | | Coil resistance | Inductance (reference value) | | Must operate voltage | Must release voltage | Max. voltage | Power consum. (approx) |
|---------------|-----------|---------------|--------------|-----------------|------------------------------|---------|----------------------|----------------------|--------------|------------------------|
| | | 50 Hz | 60 Hz | | Arm. OFF | Arm. ON | | | | |
| AC | 6 V | 310 mA | 270 mA | 6.7 Ω | 0.03 H | 0.05 H | 80% max. | 30% min. | 110% | 1.6 to 2.0 VA (60 Hz) |
| | 12 V | 159 mA | 134 mA | 24 Ω | 0.12 H | 0.21 H | | | | |
| | 24 V | 80 mA | 67 mA | 100 Ω | 0.44 H | 0.79 H | | | | |
| | 50 V | 38 mA | 33 mA | 410 Ω | 2.24 H | 3.87 H | | | | |
| | 100/110 V | 14.1/16 mA | 12.4/13.7 mA | 2,300 Ω | 10.5 H | 18.5 H | | | | |
| | 200/220 V | 9.0/10.0 mA | 7.7/8.5 mA | 8,650 Ω | 34.8 H | 59.5 H | | | | |
| DC | 6 V | 234 mA | | 25.7 Ω | 0.11 H | 0.21 H | 10% min. | | 1.4 W | |
| | 12 V | 112 mA | | 107 Ω | 0.45 H | 0.98 H | | | | |
| | 24 V | 58.6 mA | | 410 Ω | 1.89 H | 3.87 H | | | | |
| | 48 V | 28.2 mA | | 1,700 Ω | 8.53 H | 13.9 H | | | | |
| | 100/110 V | 12.7/13 mA | | 8,500 Ω | 29.6 H | 54.3 H | | | | |

Note: See notes under next table.

Four-pole Relays

| Rated voltage | | Rated current | | Coil resistance | Inductance (reference value) | | Must operate voltage | Must release voltage | Max. voltage | Power consum. (approx) |
|---------------|-----------|---------------|-------------|-----------------|------------------------------|---------|----------------------|----------------------|--------------|------------------------|
| | | 50 Hz | 60 Hz | | Arm. OFF | Arm. ON | | | | |
| AC | 6 V | 386 mA | 330 mA | 5 Ω | 0.02 H | 0.04 H | 80% max. | 30% min. | 110% | 1.95 to 2.5 VA (60 Hz) |
| | 12 V | 199 mA | 170 mA | 20 Ω | 0.10 H | 0.17 H | | | | |
| | 24 V | 93.6 mA | 80 mA | 78 Ω | 0.38 H | 0.67 H | | | | |
| | 50 V | 46.8 mA | 40 mA | 350 Ω | 1.74 H | 2.88 H | | | | |
| | 100/110 V | 22.5/25.5 mA | 19/21.8 mA | 1,600 Ω | 10.5 H | 17.3 H | | | | |
| | 200/220 V | 11.5/13.1 mA | 9.8/11.2 mA | 6,700 Ω | 33.1 H | 57.9 H | | | | |
| DC | 6 V | 240 mA | | 25 Ω | 0.09 H | 0.21 H | 10% min. | | 1.5 W | |
| | 12 V | 120 mA | | 100 Ω | 0.39 H | 0.84 H | | | | |
| | 24 V | 69 mA | | 350 Ω | 1.41 H | 2.91 H | | | | |
| | 48 V | 30 mA | | 1,600 Ω | 6.39 H | 13.6 H | | | | |
| | 100/110 V | 15/15.9 mA | | 6,900 Ω | 32 H | 63.7 H | | | | |

- Note:**
1. The rated current and coil resistance are measured at a coil temperature of 23 °C with tolerances of +15%/-20% for rated currents and ±15% for DC coil resistance.
 2. Performance characteristic data are measured at a coil temperatures of 23 °C.
 3. AC coil resistance and impedance are provided as reference values (at 60 Hz).
 4. Power consumption drop was measured for the above data. When driving transistors, check leakage current and connect a bleeder resistor if required.

■ Contact Ratings

| Relay | Single contact | | | | Bifurcated contacts | |
|-------------------------|--------------------------------------|---|--------------------------------------|---|--------------------------------------|---|
| | 1-pole | | 2-, 3- or 4-pole | | | |
| Load | Resistive load ($\cos\phi = 1$) | Inductive load ($\cos\phi=0.4$, L/R=7 ms) | Resistive load ($\cos\phi = 1$) | Inductive load ($\cos\phi=0.4$, L/R=7 ms) | Resistive load ($\cos\phi = 1$) | Inductive load ($\cos\phi=0.4$, L/R=7 ms) |
| Rated load | 100 VAC 15 A 24 VDC 15 A | 110 VAC 10 A 24 VDC 7 A | 110 VAC 10 A 24 VDC 10 A | 110 VAC 7.5 A 24 VDC 5 A | 110 VAC 5A 24 VDC 5 A | 110 VAC 4 A 24 VDC 4A |
| Rated carry current | 15 A | | 10 A | | 7 A | |
| Max. switching voltage | 250 VAC 125 VDC | | 250 VAC 125 VDC | | 250 VAC 125 VDC | |
| Max. switching current | 15 A | | 10 A | | 7 A | |
| Max. switching capacity | 1,700 VA 360 W | 1,100 VA 170 W | 1,100 VA 240 W | 825 VA 120 W | 550 VA 120 W | 440 VA 100 W |
| Min. permissible load* | 100 mA, 5 VDC | | 100 mA, 5 VDC | | 10 mA, 5 VDC | |

*Note: P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation, reference value

■ Characteristics

| Item | All but relays with bifurcated contacts | Relays with bifurcated contacts |
|--------------------------------|---|---------------------------------|
| Contact resistance | 50 mΩ max. | |
| Operate time | 25 ms max. | |
| Release time | 25 ms max. | |
| Max. operating frequency | Mechanical: 18,000 operations/hr Electrical: 1,800 operations/hr (under rated load) | |
| Insulation resistance | 100 MΩ min. (at 500 VDC) | |
| Dielectric withstand voltage | 1,000 VAC, 50/60 Hz for 1 min between contacts of same polarity 2,000 VAC, 50/60 Hz for 1 min between contacts of different polarity | |
| Vibration resistance | Destruction: 10 to 55 Hz, 1.0-mm double amplitude Malfunction: 10 to 55 Hz, 1.0-mm double amplitude | |
| Shock resistance | Destruction: 1,000 m/s ² (approx. 100G) Malfunction: 200 m/s ² (approx. 20G) | |
| Life expectancy | Mechanical: AC: 50,000,000 operations min. (at 18,000 operations/hr) DC: 1,00,000,000 operations min. (at 18,000 operations/hr) Electrical: Single-, three-, and four-pole: 200,000 operations min. (at 1,800 operations/hr under rated load) Double-pole: 500,000 operations min. (at 1,800 operations/hr under rated load) | |
| Ambient operating temperature* | Single- and double-pole standard, bifurcated-contact, test-button, and high-humidity relays: -25°C to 55°C (with no icing) (-25°C to 70°C if carry current is 4 A or less) All other relays: -25°C to 40°C (with no icing) (-25°C to 55°C if carry current is 4 A or less) | |
| Ambient operating humidity | 35% to 85% (35% to 90% for high-humidity relays) | |
| Weight | Single- and double-pole: approx. 40 g, three-pole: approx. 50 g, four-pole: approx. 70 g | |

Note: 1. The values given above are initial values.

*2. The upper limit of 40°C for some relays is because of the relationship between diode junction temperature and the element used.

■ Life Expectancies Under Real Loads (reference only)

LY1

| Rated voltage | Load type | Conditions | Operating frequency | Electrical life |
|---------------|---------------------------|--|---------------------------|----------------------|
| 100 VAC | AC motor | 400 W, 100 VAC single-phase with 35-A inrush current, 7-A current flow | ON for 10 s, OFF for 50 s | 50,000 operations |
| | AC lamp | 300 W, 100 VAC with 51-A inrush current, 3-A current flow | ON for 5 s, OFF for 55 s | 100,000 operations |
| | | 500 W, 100 VAC with 78-A inrush current, 5-A current flow | | 25,000 operations |
| | Capacitor (2,000 μ F) | 24 VDC with 50-A inrush current, 1-A current flow | ON for 1 s, OFF for 6 s | 100,000 operations |
| | AC solenoid | 50 VA with 2.5-A inrush current, 0.25-A current flow | ON for 1 s, OFF for 2 s | 1,500,000 operations |
| | | 100 VA with 5-A inrush current, 0.5-A current flow | | 800,000 operations |

LY2

| Rated voltage | Load type | Conditions | Operating frequency | Electrical life |
|---------------|---------------------------|--|---------------------------|----------------------|
| 100 VAC | AC motor | 400 W, 100 VAC single-phase with 25-A inrush current, 5-A current flow | ON for 10 s, OFF for 50 s | 200,000 operations |
| | AC lamp | 300 W, 100 VAC with 51-A inrush current, 3-A current flow | ON for 5 s, OFF for 55 s | 80,000 operations |
| | Capacitor (2,000 μ F) | 24 VDC with 50-A inrush current, 1-A current flow | ON for 1 s, OFF for 15 s | 10,000 operations |
| | | 24 VDC with 20-A inrush current, 1-A current flow | | 150,000 operations |
| | AC solenoid | 50 VA with 2.5-A inrush current, 0.25-A current flow | ON for 1 s, OFF for 2 s | 1,000,000 operations |
| | | 100 VA with 5-A inrush current, 0.5-A current flow | | 500,000 operations |

LY4

| Rated voltage | Load type | Conditions | Operating frequency | Electrical life |
|---------------|---------------------------|--|---------------------------|----------------------|
| 100 VAC | AC motor | 200 W, 200 VAC triple-phase with 5-A inrush current, 5-A current flow | ON for 10 s, OFF for 50 s | 500,000 operations |
| | | 750 W, 200 VAC triple-phase with 18-A inrush current, 3.5-A current flow | | 70,000 operations |
| | AC lamp | 300 W, 100 VAC with 51-A inrush current, 3-A current flow | ON for 5 s, OFF for 55 s | 50,000 operations |
| | Capacitor (2,000 μ F) | 24 VDC with 50-A inrush current, 1-A current flow | ON for 1 s, OFF for 15 s | 5,000 operations |
| | | 24 VDC with 20-A inrush current, 1-A current flow | ON for 1 s, OFF for 2 s | 200,000 operations |
| | AC solenoid | 50 VA with 2.5-A inrush current, 0.25-A current flow | ON for 1 s, OFF for 2 s | 1,000,000 operations |
| | | 100 VA with 5-A inrush current, 0.5-A current flow | | 500,000 operations |

■ Approved by Standards

UL 508 Recognitions (File No. 41643)

| No. of poles | Coil ratings | Contact ratings |
|--------------|------------------------------|---|
| 1 | 6 to 240 VAC 6 to 120 VDC | 15 A, 28 VDC (resistive load) 15 A, 240 VAC (inductive load) TV-5 120 VAC 1/2 IP 120 VACHP rated |
| 2 | | 13 A, 120 VAC (resistive load) 10 A, 28 VDC (inductive load) 12 A 240 VAC (inductive load) TV-3 120 VAC 1/2 IP 120 VAC HP rated |
| 3 and 4 | | 10 A, 28 VDC (resistive load) 10 A, 240 VAC (inductive load) 1/3 IP 240 VAC HP rated |

CSA 22.2 No. 0 and No.14 Listings (File No. LR31928)

| No. of poles | Coil ratings | Contact ratings |
|--------------|------------------------------|--|
| 1 | 240 VAC max. 120 VDC max. | 15 A, 28 VDC (resistive load) 15 A, 120 VAC (inductive load) 10 A, 240 VAC (inductive load) TV-5 120 VAC |
| 2 | 6 to 240 VAC 6 to 120 VDC | 13 A, 28 VDC (resistive load) 12 A, 120 VAC (inductive load) 10 A, 240 VAC (inductive load) 1/3 IP 120 VAC HP rated |
| | 240 VAC max. 120 VDC max. | TV-31 20 VAC |
| 3 and 4 | 6 to 240 VAC 6 to 120 VDC | 10 A, 28 VDC (resistive load) 10 A, 240 VAC (inductive load) |

SEV Listings (File No. D3,31/137)

| No. of poles | Coil ratings | Contact ratings |
|--------------|------------------------------|-------------------------------|
| 1 | 6 to 110 VDC 2 to 240 VAC | 15 A, 24 VDC 15 A, 220 VAC |
| 2 to 4 | 6 to 110 VDC 6 to 240 VDC | 10 A, 24 VDC 10 A, 220 VAC |

VDE Recognitions (No. 9903UG and 9947UG)

| No. of poles | Coil ratings | Contact ratings |
|--------------|---|--|
| 1 | 6, 12, 24, 50, 110, 220 VAC 6, 12, 24, 48, 110 VDC | 10 A, 220 VAC (resistive load) 7 A, 220 VAC (inductive load) 10 A, 28 VDC (resistive load) 7 A, 28 VDC (inductive load) |
| 2, 3 and 4 | | 7 A, 220 VAC (resistive load) 4 A, 220 VAC (inductive load) 7 A, 28 VDC (resistive load) 7 A, 28 VDC (inductive load) |

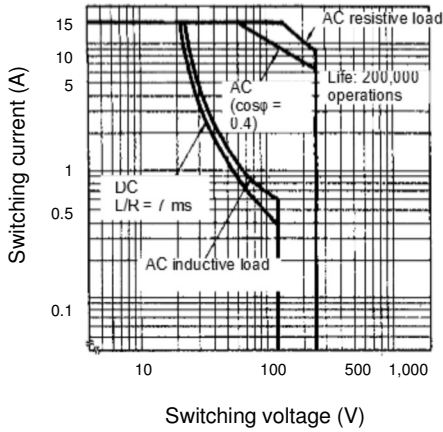
LR Recognitions (No. 562K0B-204523)

| No. of poles | Coil ratings | Contact ratings |
|--------------|--------------|---------------------------------|
| 2 | 6 to 240 VAC | 7.5 A, 230 VAC (inductive load) |
| 4 | 6 to 110 VDC | 5 A, 24 VDC (inductive load) |

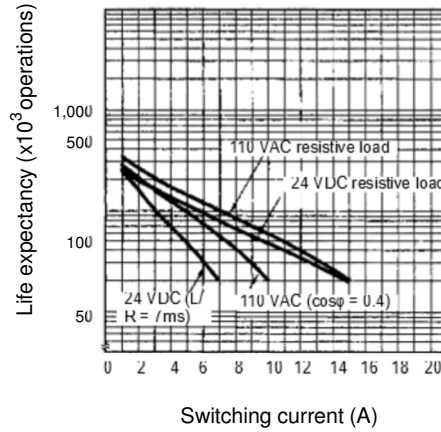
Engineering Data

LY1

Maximum Switching Capacity

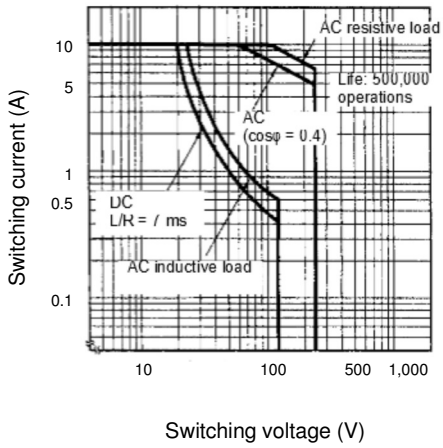


Life Expectancy

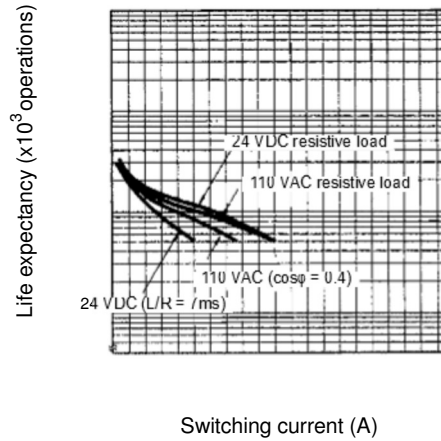


LY2

Maximum Switching Capacity

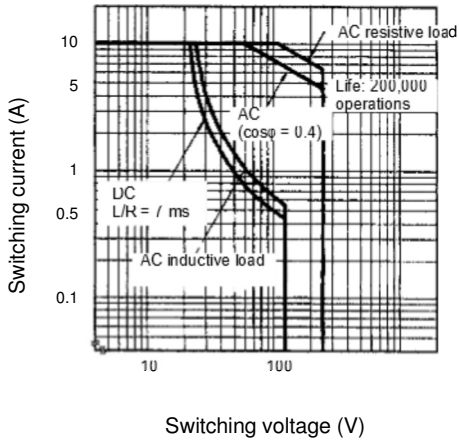


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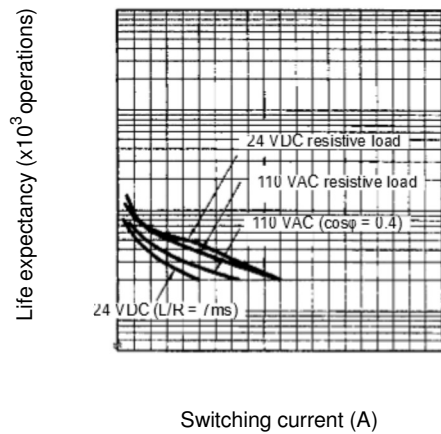


LY3 and LY4

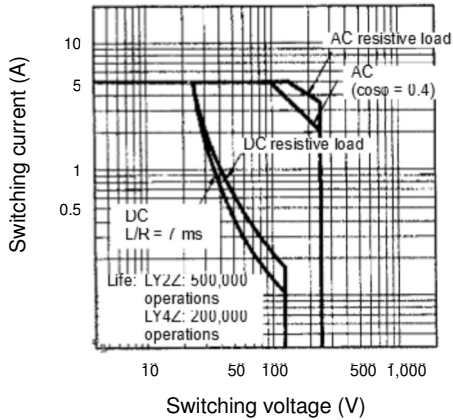
Maximum Switching Capacity



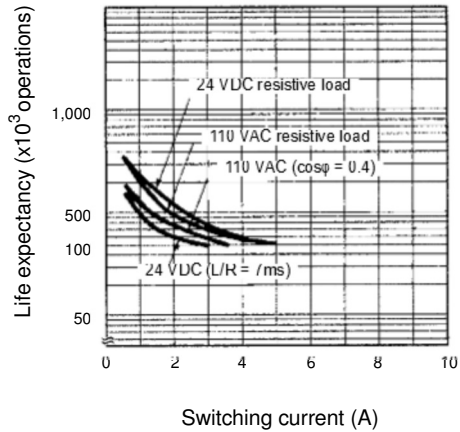
Life Expectancy



LY2Z and LY4Z
Maximum Switching Capacity



LY2Z
Life Expectancy

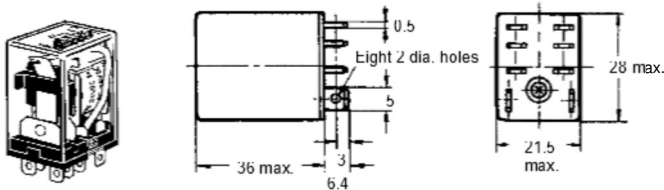


Dimensions

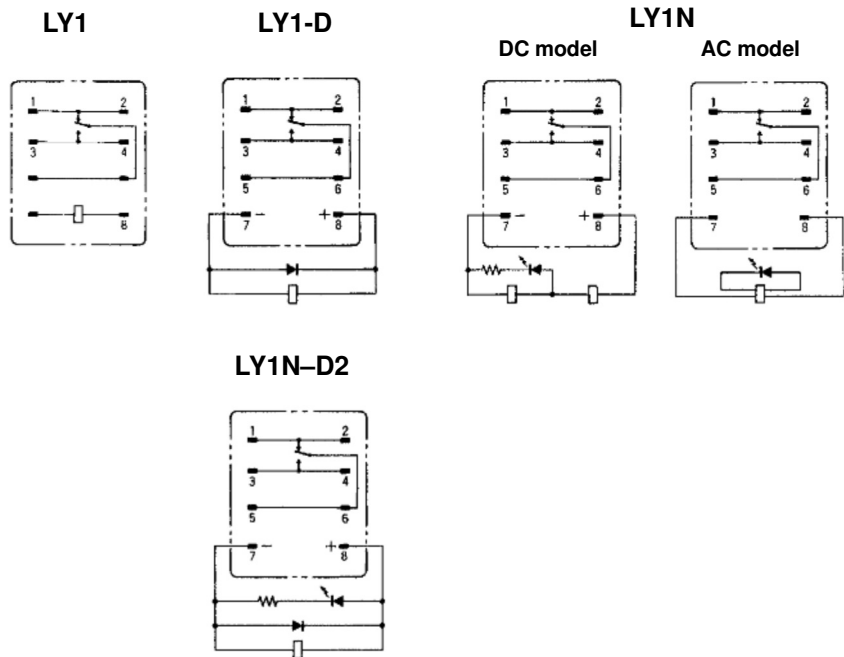
Note: All units are in millimeters unless otherwise indicated.

■ **Relays with Solder/Plug-in Terminals**

- LY1
- LY1N (-D2)
- LY1-D
- LY1-TU

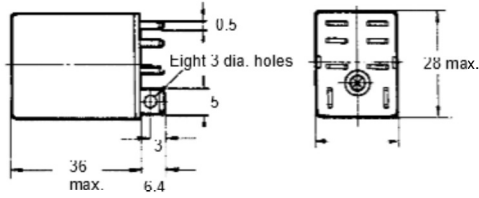
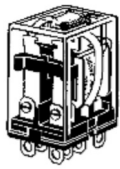


Terminal arrangement/internal connections (bottom view)



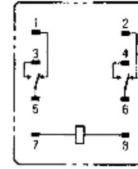
Note: The DC model has polarity.

- LY2
- LY2Z
- LY2N
- LY2ZN
- LY2-TU
- LY2-TU
- LY2Z-TU
- LY2-D
- LY2Z-D
- LY2N-D4
- LY2N-D2
- LY2N-D2
- LY2ZN-D2

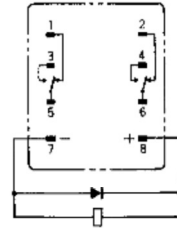


Terminal arrangement/internal connections (bottom view)

LY2(Z)

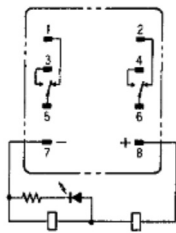


LY2(Z)-D

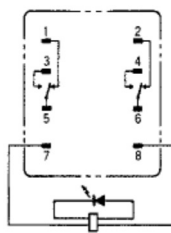


LY2(Z)N

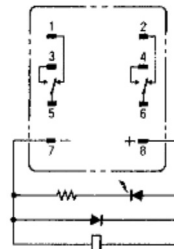
DC model



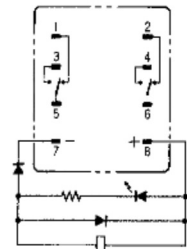
AC model



LY2(Z)N-D2

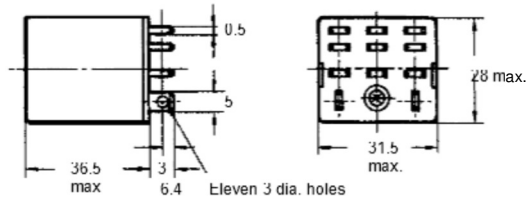
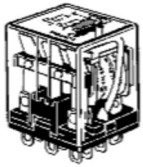


LY2N-D4



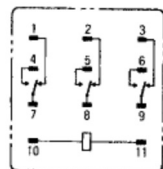
Note: The DC model has polarity.

- LY3
- LY3N
- LY3-D
- LY3-TU

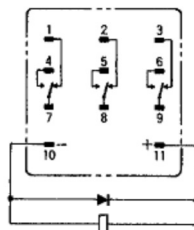


Terminal arrangement/internal connections (bottom view)

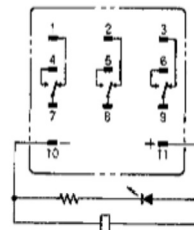
LY3



LY3-D

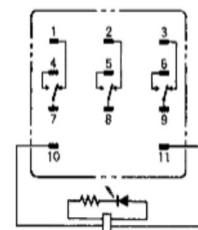


DC model



LY3N

AC model

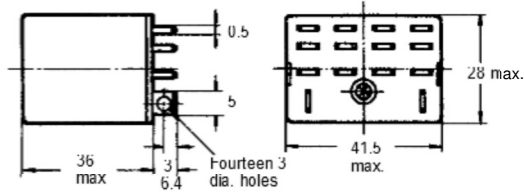


Note: The DC model has polarity.

LY4
LY4Z
LY4-D
LY4N-D

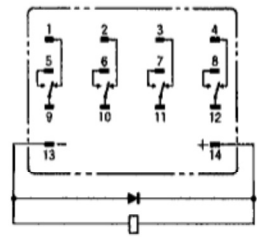
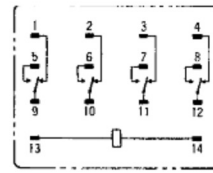
LY4N
LY4-V
LY4N-V

Terminal arrangement/internal connections
(bottom view)



LY4(Z)

LY4(Z)-D



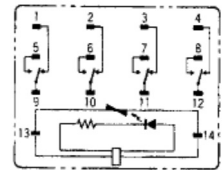
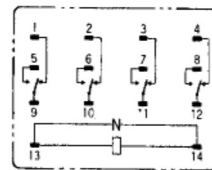
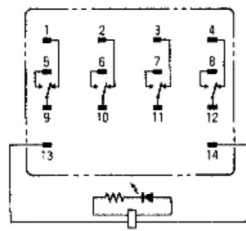
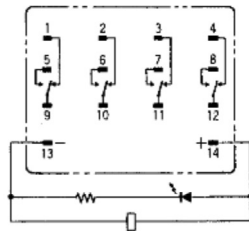
DC model

LY(Z)N

AC model

LY4-V

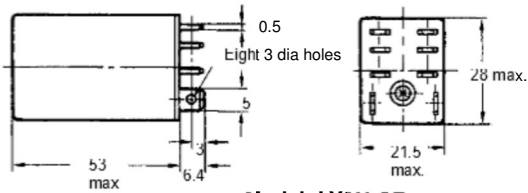
LY4N-V



Note: The DC model has polarity.

LY2-CR
LY2Z-CR
LY2N-CR
LY2ZN-CR

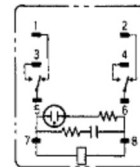
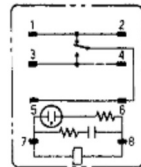
Terminal arrangement/internal connections
(bottom view)



Model: LY2N-CR

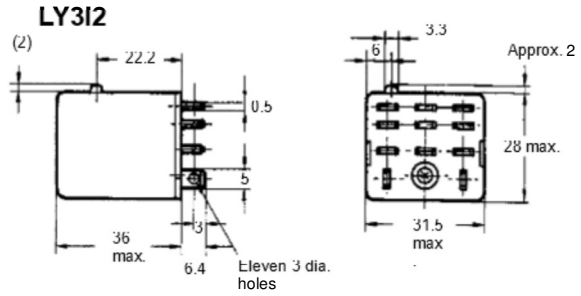
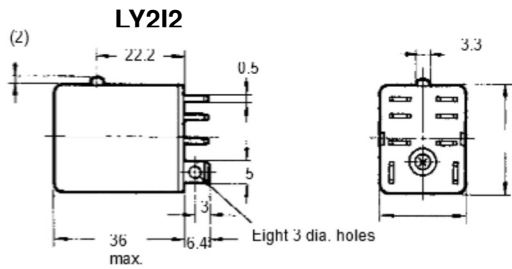
LY2(Z)-CR

LY2(Z)N-CR

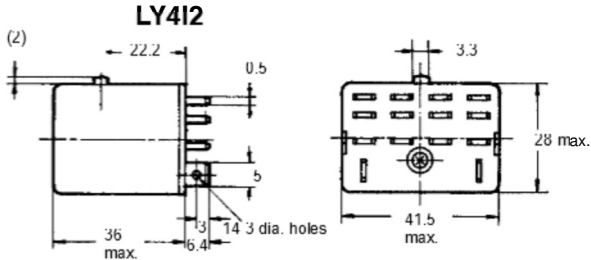


CR element
C: 0.033 μF
R: 120 Ω

LY□(Z)I2(N)



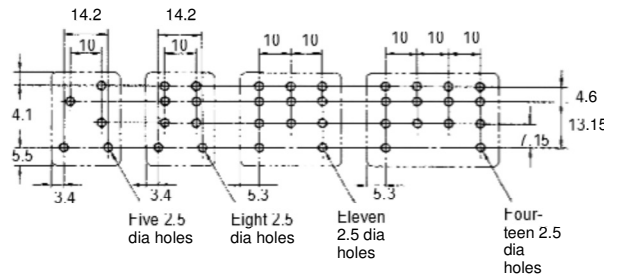
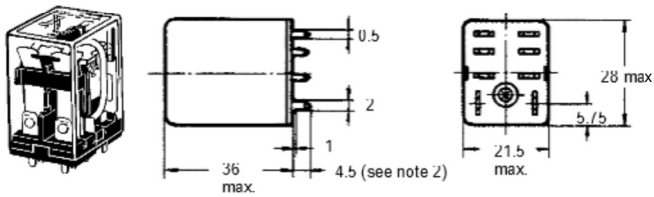
Note: The above dimensions are for the LY212 model.



■ Relays with PCB Terminals

LY1-0 LY3-0
LY2-0 LY4-0

PC board holes (bottom view)



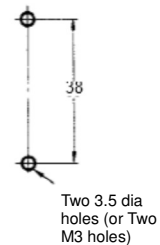
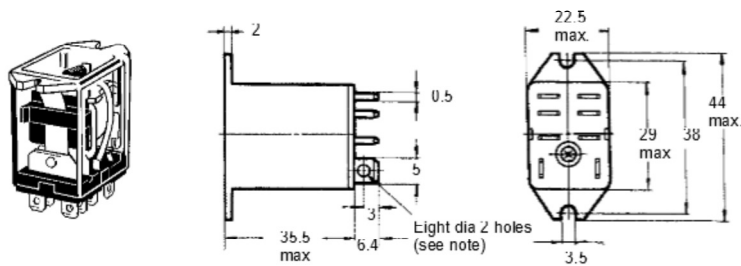
Note: 1. The above model is the LY2-0.
2. This figure is 6.4 for the LY1-0

Note: 1. The tolerance for the above figures is 0.1 mm.
2. Besides the terminals, some part of the LY1-0 carries current. Due attention should be paid when mounting the LY1-0 to a double-sided PC board.

■ Upper-mounting Relays

LY1F
LY2F

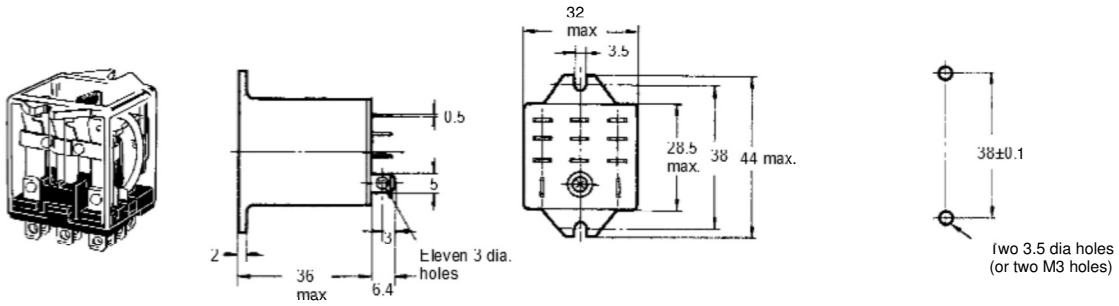
Mounting holes



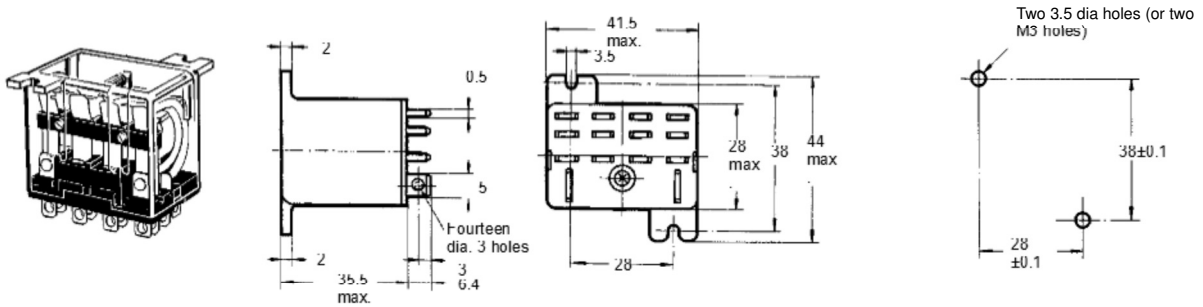
Note: 1. Eight 3 dia. holes should apply to the LY2F model.

Note: 1. The tolerance for the above figures is 0.1 mm.

LY3F



LY4F

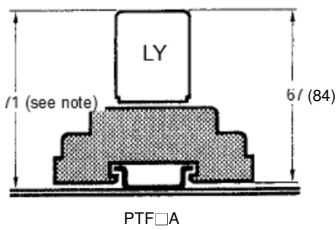


Mounting holes

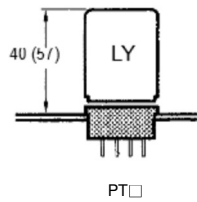
■ Mounting Height with Socket

The following socket heights should be maintained.

Front connecting



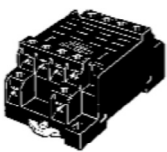
Back connecting



- Note:**
1. The PTF□A can be rail-mounted or screw-mounted.
 2. For the LY□-CR (CR circuit built-in type) model, this figure should be 88.

■ Sockets

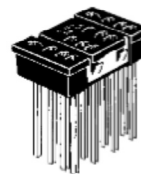
PTF14A-E



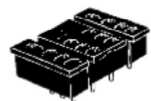
PT14



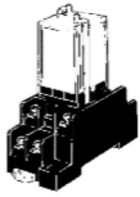

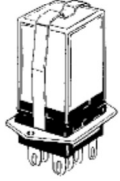

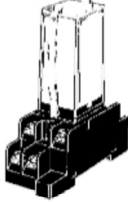

PT14QN



PT14-0



■ Hold-down Clips

| Used with socket | | Used with socket mounting plate | For test button built-in type relay | For CR circuit built-in relay | |
|---|---|---|---|---|---|
| PYC-A1 | PYC-P | PYC-S | PYC-P2 | Y92H-3 | PYC-1 |
|  |  |  |  |  |  |

Precautions**■ Connections**

Do not reverse polarity when connecting DC-operated relays with built-in diodes or indicators.