# New Latching Levers for Circuit Checking Added to Our Best-selling MY General-purpose Relays

- Now lead-free to protect the environment.
- VDE certification (Germany).
- Different colors of coil tape for AC and DC models to more easily distinguish them.
- MY(S) models with latching levers added for easier circuit checking.

⚠ Refer to the *Common Relay Precautions*.

## Model Number Structure

| Classification | Structure / Number of poles | Relays with Plug-in Terminals: With operation indicator | Relays with Plug-in Terminals: Without operation indicator | Relays with Plug-in Terminals: With latching lever | PCB terminals | Case-surface mounting |
|---|---|---|---|---|---|---|
| Standard models (compliant with Electrical Appliances and Material Safety Act) | 2 | MY2N* | MY2* | MY2IN(S)* | MY2-02 | MY2F |
| | 2 Bifurcated | MY2ZN | MY2Z | | | |
| | 3 | MY3N | MY3 | | MY3-02 | MY3F |
| | 4 | MY4N* | MY4* | MY4IN(S)* | MY4-02 | MY4F |
| | 4 Bifurcated | MY4ZN* | MY4Z* | MY4ZIN(S)* | MY4Z-02 | MY4ZF |
| Models with diode for coil surge absorption (DC coil specification only) | 2 | MY2N-D2* | MY2-D* | MY2IN-D2(S)* | --- | --- |
| | 2 Bifurcated | MY2ZN-D2 | MY2Z-D | | | |
| | 3 | MY3N-D2 | MY3-D | | | |
| | 4 | MY4N-D2* | MY4-D* | MY4IN-D2(S)* | | |
| | 4 Bifurcated | MY4ZN-D2* | MY4Z-D* | MY4ZIN-D2(S)* | | |
| Models with CR circuit for coil surge absorption (AC coil specification only) | 2 | MY2N-CR* | MY2-CR* | | --- | |
| | 4 | MY4N-CR* | MY4-CR* | MY4IN-CR(S)* | | |
| | 4 Bifurcated | MY4ZN-CR* | MY4Z-CR* | MY4ZIN-CR(S)* | | |
| Models with high contact reliability | 4 Bifurcated | --- | MY4Z-CBG | | | |
| Plastic sealed models | 4 | MYQ4N | MYQ4 | | MYQ4-02 | |
| | 4 Bifurcated | | MYQ4Z | | MYQ4Z-02 | |
| Latching models (coil latching) | 2 | | MY2K | | MY2K-02 | |
| Hermetic models | 4 | | MY4H | | MY4H-0 | |
| | 4 Bifurcated | | MY4ZH | | MY4ZH-0 | |

**Note:**
1. The models in this table are UL/CSA certified. This is indicated with a certification mark on the products. (This does not include models with high contact reliability or plastic sealed, latching, or hermetically sealed models.)
2. Models with an asterisk (*) next to them are new versions.
3. The standard models with plug-in terminals, models with coil surge absorption diodes, and models with coil surge absorption CR circuits were used in combination with the PYF-E and PYFS (2-pole and 4-pole) for the EC Declaration of Conformity. These products display the CE Marking.
4. Products cannot be manufactured for the cells with a diagonal line. Ask your OMRON representative for details on manufacturing products for cells containing "---" in the above table.

Refer to *Connection Socket and Mounting Bracket Selection Table on page 33* in *Options* for information on the possible combinations of Models with Plug-in Terminals and Sockets.

# Miniature Power Relays: MY2

Refer to the standards certifications and compliance section of your OMRON website for the latest information on certified models.

## Ordering Information

When your order, specify the rated voltage.

| Classification | Model | Rated voltage (V) | |
|---|---|---|---|
| | | Standard products | Made-to-order items |
| Standard models | MY2 | **12, 24, 100/110, or 200/220 VAC** | 110/120 or 220/240 VAC |
| | | **12, 24, 48, or 100/110 VDC** | |
| Models with built-in operation indicators | MY2N | **12, 24, 100/110, 110/120, 200/220, or 220/240 VAC** | |
| | | **12, 24, 48, or 100/110 VDC** | |
| Models with built-in diodes | MY2-D | **12, 24, or 100/110 VDC** | 48 VDC |
| Models with built-in diodes and operation indicators | MY2N-D2 | **12, 24, 48, or 100/110 VDC** | |
| Models with built-in CR circuits | MY2-CR | **100/110 or 200/220 VAC** | 110/120 or 220/240 VAC |
| Models with built-in CR circuits and operation indicators | MY2N-CR | **100/110 or 200/220 VAC** | 110/120 or 220/240 VAC |

**Note: 1.** Ask your OMRON representative for details on the time required to deliver made-to-order products.
**2.** Ask your OMRON representative for details on product specifications and the ability to manufacture products with voltages other than the above coil specifications.
**3.** The above models and specifications are new versions in the MY Series.
**4.** Except for MY2(N)-CR Relays with the above voltage specifications, all Relays have a height of 53 mm or less. If Mounting Brackets are required, refer to page 33 for selection information.

## Ratings and Specifications

### Ratings

#### Operating Coils (Standard 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 | 60 Hz | | 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 | | | | |
| | 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 | 12 | 72.7 | | 165 | 0.73 | 1.37 | | 10% min. *2 | | Approx. 0.9 |
| | 24 | 36.3 | | 662 | 3.2 | 5.72 | | | | |
| | 48 | 17.6 | | 2,725 | 10.6 | 21.0 | | | | |
| | 100/110 | 8.7/9.6 | | 11,440 | 45.6 | 86.2 | | | | |

**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.** There is variation between products, but actual values are 30% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value.

#### Contact Ratings

| Item \ Load | Resistive load | Inductive load (cos φ = 0.4, L/R = 7 ms) |
|---|---|---|
| **Rated load** | 5 A at 220 VAC<br>5 A at 24 VDC | 2 A at 220 VAC<br>2 A at 24 VDC |
| **Rated carry current** | 5 A | |
| **Maximum contact voltage** | 250 VAC, 125 VDC | |
| **Maximum contact current** | 5 A | |
| **Contact configuration** | DPDT | |
| **Contact structure** | Single | |
| **Contact materials** | Ag | |

| Item \ Type | Standard models | Model with built-in operation indicator, diode, or CR circuit |
|---|---|---|
| **Ambient operating temperature*1** | –55 to 70°C | –55 to 60°C*2 |
| **Ambient operating humidity** | 5% to 85% | |

***1.** With no icing or condensation.
***2.** This limitation is due to the diode junction temperature and elements used.