

Miniature Power Relays MY(S)

Our Best Selling 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.
- Easy circuit checking on models with latching levers.



Refer to the Common Relay Precautions and Safety Precautions on page 34.

The compliant standards depend on the model.
For details, refer to information provided for individual models.

Model Number Structure

Classification	Structure Number of poles	Relays with Plug-in Terminals			PCB terminals	Case-surface mounting
		With operation indicator	Without operation indicator	With latching lever		
Standard models (compliant with Electrical Appliances and Material Safety Act)	2	MY2N(S)		MY2IN(S)	MY2-02	MY2F
	Bifurcated	MY2ZN				
	3	MY3N			MY3-02	MY3F
	4	MY4N(S)		MY4IN(S)	MY4-02	MY4F
Reverse coil polarity	Bifurcated	MY4ZN(S)		MY4ZIN(S)	MY4Z-02	MY4ZF
	2	MY2N1(S)		MY2IN1(S)		
		MY2N1-D2(S)		MY2IN1-D2(S)		
	4	MY4N1(S)		MY4IN1(S)		
Models with diode for coil surge absorption (DC coil specification only)		MY4N1-D2(S)		MY4IN1-D2(S)		
	Bifurcated	MY4ZN1(S)		MY4ZIN1(S)		
		MY4ZN1-D2(S)		MY4ZIN1-D2(S)		
Models with CR circuit for coil surge absorption (AC coil specification only)	2	MY2N-D2(S)		MY2IN-D2(S)	---	---
	Bifurcated	MY2ZN-D2				
	3	MY3N-D2				
	4	MY4N-D2(S)		MY4IN-D2(S)		
Models with high contact reliability	Bifurcated	MY4ZN-D2(S)		MY4ZIN-D2(S)		
Plastic sealed models	2	MY2N-CR(S)		MY2IN-CR(S)	---	
	4	MY4N-CR(S)		MY4IN-CR(S)		
	Bifurcated	MY4ZN-CR(S)		MY4ZIN-CR(S)		
Latching models (coil latching)	4		MY4Z-CBG			
Hermetic models	4	MYQ4N			MYQ4-02	
	Bifurcated				MYQ4Z-02	
Plastic sealed models	2		MY2K		MY2K-02	
Latching models (coil latching)	4		MY4H		MY4H-0	
	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. 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.
3. 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 27 in *Options* for information on the possible combinations of Models with Plug-in Terminals and Sockets.

Specifications

Coil Ratings

Rated voltage		Rated current		Coil resistance	Coil inductance (reference value)		Must operate voltage	Must release voltage	Max. voltage	Power consumption (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				
	48/50 V	24.7/25.7 mA	21.1/22.0 mA	788 Ω	3.22 H	5.66 H				0.9 to 1.1 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				
	220/240 V	4.8/5.3 mA	4.2/4.6 mA	18,790 Ω	83.50 H	136.4 H				
DC	6 V	151 mA		39.8 Ω	0.17 H	0.33 H	80% max.	10% min.	110%	0.9 W
	12 V	75 mA		160 Ω	0.73 H	1.37 H				
	24 V	37.7 mA		636 Ω	3.20 H	5.72 H				
	48 V	18.8 mA		2,560 Ω	10.60 H	21.0 H				
	100/110 V	9.0/9.9 mA		11,100 Ω	45.60 H	86.2 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 temperature 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.