

## Miniature Power Relays

# MY Series

**Best-selling, general-purpose relays that can be selected based on operating environment and application**



- Wiring work can be shortened by as much as 60%\* compared to conventional screw terminal sockets by combining with push-in plus terminal sockets (PYF-□-PU) that feature light insertion force and strong pull-out strength to achieve less wiring work.
- In addition to our standard type (MY-GS-R), an abundant lineup of models including latching relays that retain contact operation status (MYK) and sealed relays suitable for environments where dust and corrosive gases are present (MYQ/MYH) are also available.
- Selection is possible to suit the application, such as models with operation indicators and models with latching levers (MY-GS-R).

\* When both push-in plus terminals and screw terminal sockets are combined with plug-in terminal types (according to actual OMRON measurements as of November 2015)

Refer to *Safety Precautions* on pages 62 to 63 and *Safety Precautions for All Relays*.



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

## Miniature Power Relay Types

MY-GS-R Miniature Power Relays .....	From page 4
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## Common Information

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Common Safety Precautions .....	From page 62

MY-GS-R

MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions

## Model List

### Selection

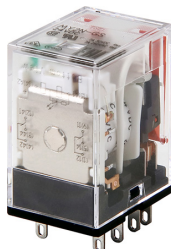
Use this as reference when selecting the model.

#### Firstly Choice!

This general-purpose model can be used for a wide range of applications

#### MY-GS-R

page 4



Choose this model if you want to properly control a microload!

MY□Z

Bifurcated contacts

MY□Z-CBG

Crossbar bifurcated contacts

page 13



Choose this model if you want to maintain the operation status of the contact!

MYK Latching Relays

page 32



Choose this model in an environment with a large amount of corrosive gases and dust!

MYQ Plastic Sealed Relays



MYH Hermetically Sealed Relays

page 37




INDUSTRIAL AUTOMATION


## Miniature Power Relays: MY

Classification		Number of poles	Contacts		Plug-in terminals			PCB terminals	Case-surface mounting
					Standard	With operation indicator	With latching lever		
Standard models		2	Single		MY2-GS-R	MY2N-GS-R	MY2IN-GS-R	MY2-02	MY2F
			Bifurcated		MY2Z	MY2ZN			
		3	Single		MY3	MY3N		MY3-02	MY3F
			Single		MY4-GS-R	MY4N-GS-R	MY4IN-GS-R	MY4-02	MY4F
		4	Bifurcated	Type 1	MY4Z(S)	MY4ZN(S)	MY4ZIN(S)	MY4Z-02	MY4ZF
				Type 2		MY4ZN1(S)	MY4ZIN1(S)		
		Crossbar bifurcated		MY4Z-CBG	MY4ZN-CBG				
Models with built-in diode for coil surge absorption	Type 1 	2	Single			MY2N-D2-GS-R	MY2IN-D2-GS-R		
			Bifurcated			MY2ZN-D2			
		3	Single			MY3N-D2			
	Type 2 	4	Single			MY4N-D2-GS-R	MY4IN-D2-GS-R		
			Bifurcated			MY4ZN-D2(S)	MY4ZIN-D2(S)		
		2	Single			MY2N1-D2(S)	MY2IN1-D2(S)		
	4	Single			MY4N1-D2(S)	MY4IN1-D2(S)			
		Bifurcated			MY4ZN1-D2(S)	MY4ZIN1-D2(S)			
Models with built-in CR circuit for coil surge absorption		2	Single			MY2N-CR-GS-R	MY2IN-CR-GS-R		
		4	Single			MY4N-CR-GS-R	MY4IN-CR-GS-R		
			Bifurcated			MY4ZN-CR(S)	MY4ZIN-CR(S)		

## Miniature Power Latching Relays (MYK)

Classification	Number of poles	Contacts	Plug-in terminals		PCB terminals
				With operation indicator	
Standard models	2	Single	MY2K		MY2K-02

## Miniature Power Sealed Relays (MYQ/MYH)

Classification	Number of poles	Contacts	Plug-in terminals		PCB terminals
				With operation indicator	
Plastic Sealed Relays	4	Single	MYQ4	MYQ4N	MYQ4-02
		Bifurcated	MYQ4Z		MYQ4Z-02
Hermetically Sealed Relays	4	Single	MY4H		MY4H-0
		Bifurcated	MY4ZH		MY4ZH-0

Refer to Front-connecting Sockets and Back-connecting Sockets in *Common Options (Order Separately)* on pages 43 and 45 for main unit and socket combinations.

# Miniature Power Relays

# MY-GS-R

MY-GS-R

MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions

## Mechanical Indicators Added as a Standard Feature to Our Best-selling MY General-purpose Relays



- A lineup of models with latching levers added for easier circuit checking.
- Reduces wiring work by 60% when combined with the PYF-PU Push-In Plus Socket (according to actual OMRON measurements).
- Relays with AC and DC coils have different colors of operating indicators (LEDs).
- Printing on the coil tape indicates the operating coil specification.
- Mechanical operation indicators are a standard feature on all models.
- UL, CSA, IEC (VDE certification), and CQC.

Refer to the **Common Relay Precautions**.

## Features

### Common to all specifications

- Mechanical indicators are a standard feature on all models so that you can easily check the contact status.
- The color of the LED shows whether the coil voltage is AC or DC.

Mechanical indicators  
(one on left and one on right)

Contacts ON (coil energized)

Contacts OFF (coil de-energized)

LED operation indicator  
Relay with AC coil: Red  
Relay with DC coil: Green



Relay with AC Coil (LED: Red)



Relay with AC Coil (LED: Red)



Relay with DC Coil (LED: Green)

## With latching lever

- Useful for the operation check of relay sequence circuits.
- The coil voltage AC/DC can be identified by the color of the latching lever (AC coil specification: red, DC coil specification: Blue).

### Latching lever operating method

	Normal State	Mode 1: Momentary State	Mode 2: Locked State
When seen from the top			
When seen from the side			
Operation Description	---	Slide the lever one step and press the yellow button with an insulated tool to operate the contacts.	If you slide the lever two steps, the contacts lock in the operation position.



## Model Number Structure

### Model Number Legend


MY  $\square$   $\square$   $\square$  -  $\square$   $\square$  - GS - R DC24

$\frac{1}{1}$     $\frac{2}{2}$     $\frac{3}{3}$    -    $\frac{4}{4}$    -   GS - R    $\frac{5}{5}$

- Number of Poles  
2: 2 poles  
4: 4 poles
- Latching Lever  
Blank: Without latching lever  
L: With latching lever
- LED Operation Indicator  
Blank: Built-in mechanical indicators  
N: LED operation indicator and built-in mechanical indicators
- Coil Surge Absorption  
Blank: Standard models  
D2: Models with built-in diodes  
CR: Models with built-in CR circuits
- Operating Coil Voltage  
Display Example: DC24

## List of Models

### Miniature Power Relays (MY-GS-R)

Category	Number of poles	Contact structure	Plug-in (octal pins) terminals		
				With operation indicator	
				With latching lever	
Standard models	2	Single	MY2-GS-R	MY2N-GS-R	MY2IN-GS-R
	4		MY4-GS-R	MY4N-GS-R	MY4IN-GS-R
Models with built-in diodes for coil surge absorption	2		---	MY2N-D2-GS-R	MY2IN-D2-GS-R
	4		---	MY4N-D2-GS-R	MY4IN-D2-GS-R
Models with built-in CR circuits for coil surge absorption	2		---	MY2N-CR-GS-R	MY2IN-CR-GS-R
	4		---	MY4N-CR-GS-R	MY4IN-CR-GS-R

INDUSTRIAL AUTOMATION

## Ordering Information

## Main unit

## Standard model without operation indicator

Number of poles	Model	Rated voltage (V)
2	MY2-GS-R	12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110 VDC
4	MY4-GS-R	12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110 VDC

## Standard model with operation indicator

Number of poles	Model	Rated voltage (V)
2	MY2N-GS-R	12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110, 220 VDC
4	MY4N-GS-R	12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110, 220 VDC

## Standard model with operation indicator and latching lever

Number of poles	Model	Rated voltage (V)
2	MY2IN-GS-R	12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110, 220 VDC
4	MY4IN-GS-R	12, 24, 48, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110, 220 VDC

## Models with built-in diodes for coil surge absorption with operation indicator

Number of poles	Model	Rated voltage (V)
2	MY2N-D2-GS-R	12, 24, 48, 100/110, 220 VDC
4	MY4N-D2-GS-R	12, 24, 48, 100/110, 220 VDC

## Models with built-in diodes for coil surge absorption with operation indicator and latching lever

Number of poles	Model	Rated voltage (V)
2	MY2IN-D2-GS-R	12, 24, 48, 100/110, 220 VDC
4	MY4IN-D2-GS-R	12, 24, 48, 100/110, 220 VDC

## Models with built-in CR circuits for coil surge absorption with operation indicator

Number of poles	Model	Rated voltage (V)
2	MY2N-CR-GS-R	100/110, 110/120, 200/220, 220/240 VAC
4	MY4N-CR-GS-R	100/110, 110/120, 200/220, 220/240 VAC

## Models with built-in CR circuits for coil surge absorption with operation indicator and latching lever

Number of poles	Model	Rated voltage (V)
2	MY2IN-CR-GS-R	100/110, 110/120, 200/220, 220/240 VAC
4	MY4IN-CR-GS-R	100/110, 110/120, 200/220, 220/240 VAC

## Ratings and Specifications

### Ratings

#### Main unit

#### Operating Coil

Item		Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Must-operate voltage	Must-release voltage	Maximum voltage	Power consumption (VA, W)	
Rated voltage		50 Hz	60 Hz		Armature OFF	Armature ON					Percentage of rated voltage
AC	12	106.5	91	46	0.17	0.33	80% max. *1	30% min. *2	110%	Approx. 0.9 to 1.3 (at 60 Hz)	
	24	53.8	46	180	0.69	1.3					
	48	25.7	21.1	788	3.22	5.66					
	100/110	11.7/12.9	10.0/11.0	3,750	14.54	24.6					
	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	5.2/6.2	4.3/5.0	15,920	83.5	136.4					
DC	6	146 (151)		41.0 (39.8)	0.17	0.33		10% min. *2			Approx. 0.9
	12	72.7 (75)		165 (160)	0.73	1.37					
	24	36.3 (37.7)		662 (636)	3.2	5.72					
	48	17.6 (18.8)		2,725 (2,560)	10.6	21.0					
	100/110	8.7 (9.0)/9.6 (9.9)		11,440 (11,100)	45.6	86.2					
	220	3.6		60,394	362.3	452.9					Approx. 0.8

**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 values in parentheses for the rated currents and coil voltages of DC coils are for models with LED operation indicators.

5. 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.

The Relay will operate if 80% or higher of the rated voltage is applied. However, to achieve the specified characteristics, apply the rated voltage to the coil.

\*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.

#### Contacts

	2 poles			4 poles		
	Resistive load		Inductive load (cos ϕ = 0.4, L/R = 7 ms)	Resistive load		Inductive load (cos ϕ = 0.4, L/R = 7 ms)
Contact configuration	DPDT			4PDT		
Contact structure	Single					
Contact material	Ag					
Rated load	10 A at 250 VAC 10 A at 30 VDC	5 A at 220 VAC 5 A at 24 VDC	2 A at 220 VAC 2 A at 24 VDC	6 A at 250 VAC 6 A at 30 VDC	3 A at 220 VAC 3 A at 24 VDC	0.8 A at 220 VAC 1.5 A at 24 VDC
Electrical endurance *1	100,000 operations	500,000 operations		30,000 operations	200,000 operations	
Rated carry current	10 A			6 A *2		
Maximum contact voltage	250 VAC, 220 VDC			250 VAC, 220 VDC		
Maximum contact current	10 A			6 A *2		
Maximum switching capacity	2,500 VA 300 W	1,750 VA 210 W	440 VA 48 W	1,500 VA 180 W	176 VA 36 W	
Minimum load (reference values) *3	1 mA at 5 VDC					

\*1. Rated load, switching frequency: 2,400 operations/h. Ambient temperature condition: 23°C. Duty ratio: 33%.

\*2. 4 poles of 6 A is for an ambient temperature of 50°C. At an ambient temperature of 70°C, the value is 3 A.

\*3. These values are guides for the switchable limits for minute load levels, such as in electronic circuits. Actual characteristics may be different. These values will depend on the switching frequency, atmosphere, and expected reliability level. Confirm applicability in the actual system under actual application conditions.

## Characteristics

### Main unit

		2 poles	4 poles
Contact resistance *1		100 mΩ max.	
Operation time *2		20 ms max.	
Release time *2		20 ms max.	
Maximum operating frequency	Mechanical	18,000 operations/h	
	Rated load	2,400 operations/h	
Insulation resistance *3		1,000 MΩ min.	
Dielectric strength	Between coil and contacts	2,000 VAC at 50/60 Hz for 1 min.	
	Between contacts of different polarity	2,000 VAC at 50/60 Hz for 1 min.	
	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min.	
Vibration resistance	Destruction	10 to 55 to 10 Hz, Double amplitude: 1.0 mm	
	Malfunction	10 to 55 to 10 Hz, Double amplitude: 1.0 mm	
Shock resistance	Destruction	1,000 m/s <sup>2</sup> (approx. 100 G)	
	Malfunction	200 m/s <sup>2</sup> (Approx. 20 G)	
Mechanical endurance		50,000,000 operations (switching frequency: 18,000 operations/h)	
Ambient operating temperature		Standard models: -55 to 70°C (with no icing or condensation) Models with LED operation indicators: -40 to 70°C (with no icing or condensation)	
Ambient humidity		5% to 85%	
Weight		Approx. 35 g	

**Note:** The above values are initial values.

\*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method.

\*2. Measurement conditions: With rated operating power applied, not including contact bounce time.

\*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.

## Certified Ratings for Models Certified for Safety Standards

The rated values for safety standard certification are not the same as individually defined performance values. Always check the specifications before use.

### Main unit

UL-certified Models: UL508

MY-GS	Number of poles	Coil ratings	Contact ratings	Certified number of operations
	2	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	5 A, 30 VDC (General Use) 10 A, 30 VDC Resistive Load 5 A, 250 VAC (General Use) 10 A, 250 VAC Resistive Load	6,000 operations
	4	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	3 A, 30 VDC (General Use) 6 A, 30 VDC Resistive Load 3 A, 250 VAC (General Use) 6 A, 250 VAC Resistive Load	6,000 operations

CSA-certified Models: CSA C22.2 No.14

MY-GS	Number of poles	Coil ratings	Contact ratings	Certified number of operations
	2	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	5 A, 30 VDC (General Use) 10 A, 30 VDC Resistive Load 5 A, 250 VAC (General Use) 10 A, 250 VAC Resistive Load	6,000 operations
	4	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	3 A, 30 VDC (General Use) 6 A, 30 VDC Resistive Load 3 A, 250 VAC (General Use) 6 A, 250 VAC Resistive Load	6,000 operations

VDE-certified Models: EN 61810-1

MY-GS	Number of poles	Coil ratings	Contact ratings	Certified number of operations
	2	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	10 A, 30 VDC (L/R = 0) 10 A, 250 VAC (cosφ = 1)	10,000 operations
	4	12 VAC, 24 VAC, 48 VAC, 100/110 VAC, 110/120 VAC, 200/220 VAC, or 220/240 VAC 6 VDC, 12 VDC, 24 VDC, 48 VDC, 100/110 VDC, or 220 VDC	6 A, 30 VDC (L/R = 0) 6 A, 250 VAC (cosφ = 1)	10,000 operations

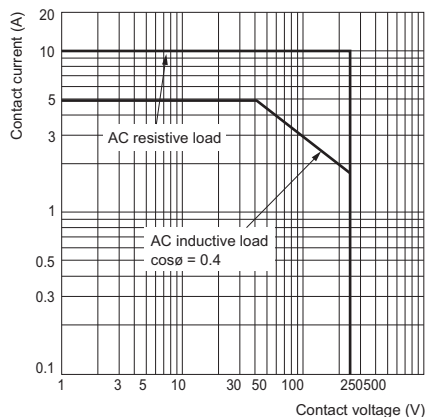
CQC-certified Models

Model	Standard number	Certification No.
MY-GS	GB/T 21711.1	CQC18002198531

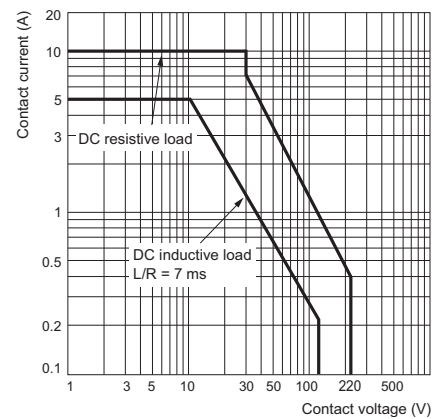
## Engineering Data (Reference Value)

## Maximum Switching Capacity

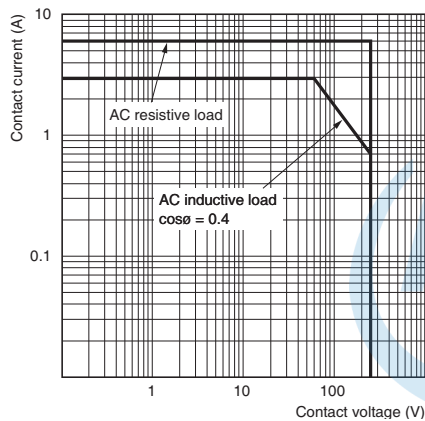
## MY2□□-□□-GS-R (AC load)



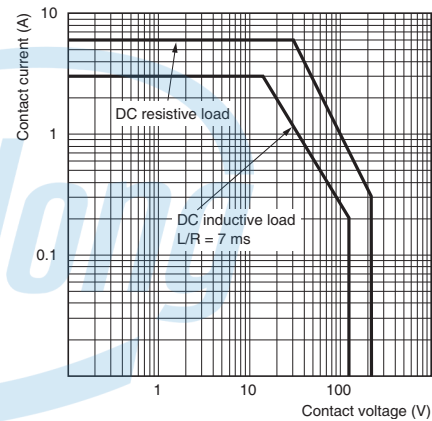
## MY2□□-□□-GS-R (DC load)



## MY4□□-□□-GS-R (AC load)



## MY4□□-□□-GS-R (DC load)



INDUSTRIAL AUTOMATION



MY-GS-R

MY(S)

MYK

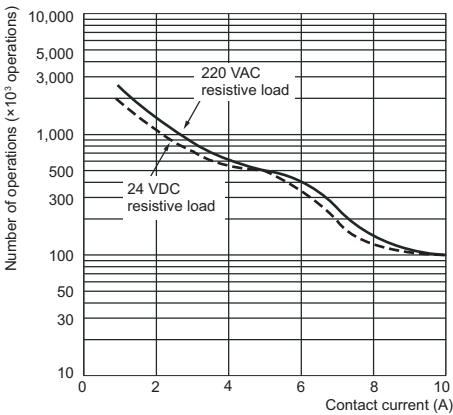
MYQ-MYH

Common Options (Order Separately)

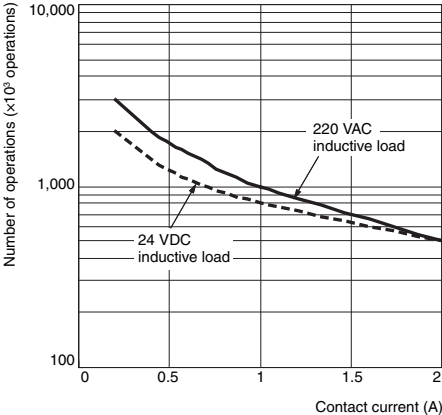
Common Precautions

Endurance Curve

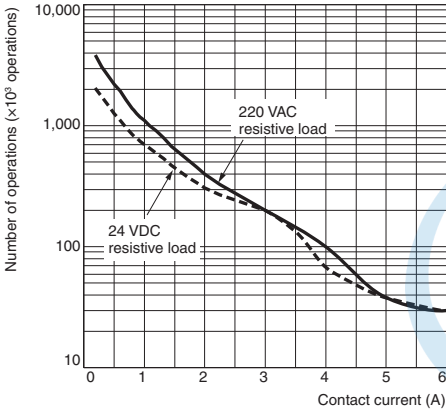
MY2□□-□□-GS-R (Resistive Load)



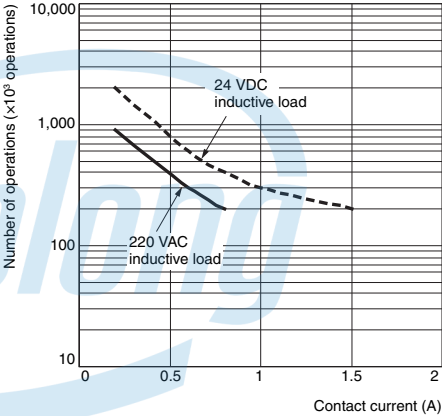
MY2□□-□□-GS-R (Inductive Load)



MY4□□-□□-GS-R (Resistive Load)



MY4□□-□□-GS-R (Inductive Load)

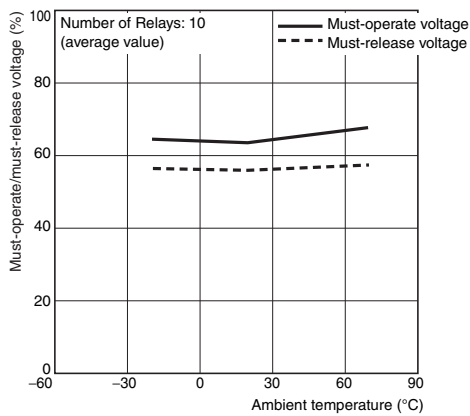


Note: 1. Number of operations: AC load, 50 Hz, 80%  
2. Switching condition: NO or NC

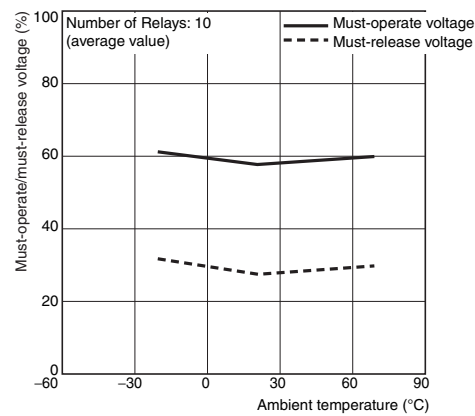
INDUSTRIAL AUTOMATION

## Ambient Temperature vs. Must-operate and Must-release Voltage

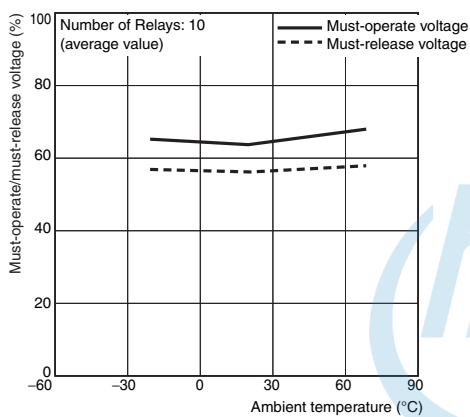
## MY2□□-□□-GS-R AC Models



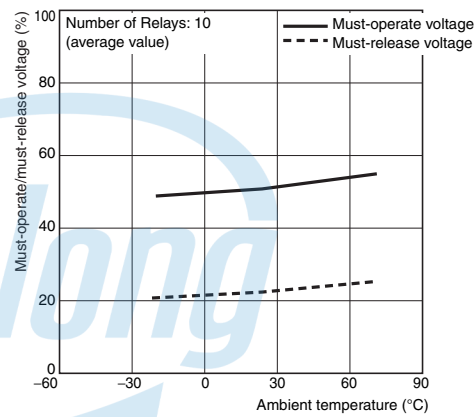
## MY2□□-□□-GS-R DC Models



## MY4□□-□□-GS-R AC Models

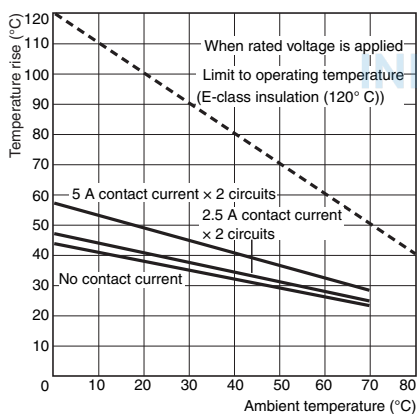


## MY4□□-□□-GS-R DC Models

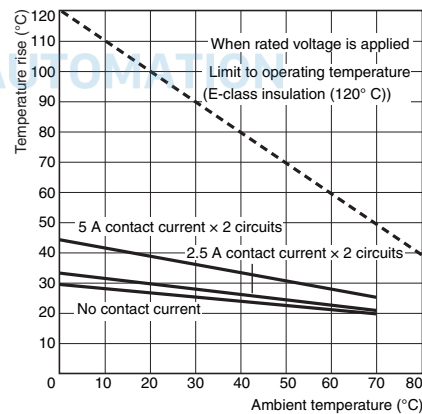


## Ambient Temperature vs. Coil Temperature Rise

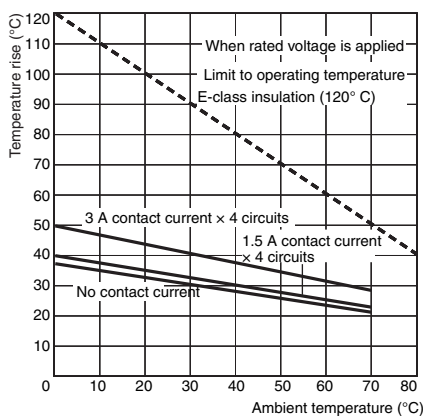
## MY2□□-□□-GS-R AC Models, 50 Hz



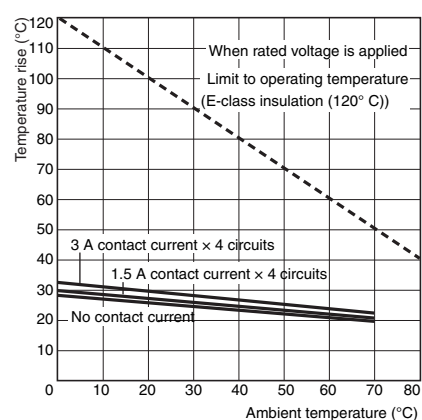
## MY2□□-□□-GS-R DC Models



## MY4□□-□□-GS-R AC Models, 50 Hz



## MY4□□-□□-GS-R DC Models

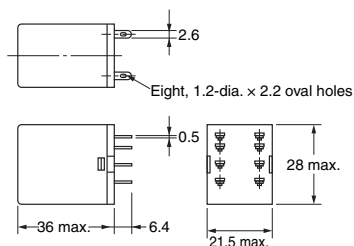


## Dimensions

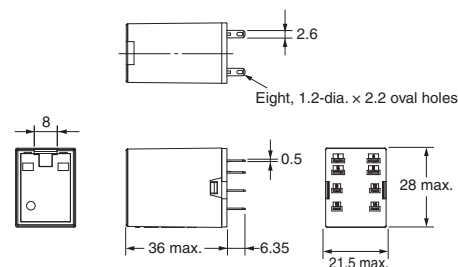
(Unit: mm)

## Relays

MY2-GS-R  
MY2N-GS-R  
MY2N-D2-GS-R  
MY2N-CR-GS-R



MY2IN-GS-R  
MY2IN-D2-GS-R  
MY2IN-CR-GS-R



Terminal Arrangement/Internal Connections (Bottom View)

MY2-GS-R	MY2□N-GS-R			MY2□N-D2-GS-R		MY2□N-CR-GS-R
Standard Models	AC Models	DC Models (except 220 VDC)	DC Models (for 220 VDC)	DC Models (except 220 VDC)	DC Models (for 220 VDC)	AC Models
(The coil has no polarity.)	(The coil has no polarity.)	(The coil has no polarity.)	(The coil has no polarity.)	(The coil has polarity.)	(The coil has polarity.)	(The coil has no polarity.)

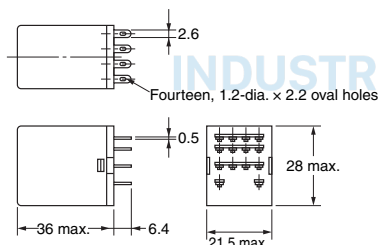
**Note:** 1. An AC model has coil disconnection self-diagnosis.

2. For models with built-in diodes for coil surge absorption, check the coil polarity when wiring and wire all connections correctly.

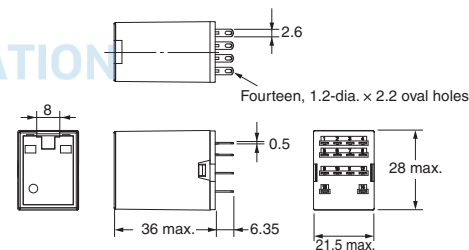
3. The indicator is red for AC and green for DC.

4. The LED operation indicators indicate the energization of the coil and do not necessarily represent contact operation.

MY4-GS-R  
MY4N-GS-R  
MY4N-D2-GS-R  
MY4N-CR-GS-R



MY4IN-GS-R  
MY4IN-D2-GS-R  
MY4IN-CR-GS-R



Terminal Arrangement/Internal Connections (Bottom View)

MY4-GS-R	MY4□N-GS-R			MY4□N-D2-GS-R		MY4□N-CR-GS-R
Standard Models	AC Models	DC Models (except 220 VDC)	DC Models (for 220 VDC)	DC Models (except 220 VDC)	DC Models (for 220 VDC)	DC Models
(The coil has no polarity.)	(The coil has no polarity.)	(The coil has no polarity.)	(The coil has no polarity.)	(The coil has polarity.)	(The coil has polarity.)	(The coil has no polarity.)

**Note:** 1. An AC model has coil disconnection self-diagnosis.

2. For models with built-in diodes for coil surge absorption, check the coil polarity when wiring and wire all connections correctly.

3. The indicator is red for AC and green for DC.

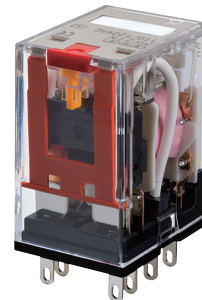
4. The LED operation indicators indicate the energization of the coil and do not necessarily represent contact operation.

## Best-selling, general-purpose relays

- AC/DC coil voltage specifications can now be more easily distinguished thanks to the use of color-coded coil tape and operation indicators (LED).
- Latching levers convenient for circuit checking and MY(S) models equipped with mechanical operation indicators and operation indicators for monitoring operation status are available.
- Contact materials and contact structures can be selected based on contact reliability and corrosion resistance.

\*Voltage is printed on white tape in the case of the Standard 3-pole model (MY3).

Refer to **Safety Precautions** on pages 62 to 63 and **Safety Precautions for All Relays**.



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

## Features

### 1. More easily distinguished AC/DC coil voltage specifications

- Distinguished using color-coded coil tape\*
- Distinguished using color-coded operation indicators (LED)

\* Voltage is printed on white tape in the case of the Standard 3-pole model (MY3).

Example: MY2



Coil tape  
Pink = AC voltage

Example: MY4



Coil tape  
Blue = DC voltage

Example: MY4



Operation indicator (LED)  
Red = AC voltage

Example: MY4



Operation indicator (LED)  
Green = DC voltage

### 2. Latching levers convenient for circuit checking and MY(S) models equipped with mechanical operation indicators and operation indicators for monitoring operation status are available.

- Latching lever operating procedure
- Mechanical operation indicator/LED operation indicator

Steady-state



Mode 1 (momentary)



Mode 2 (locked)



Sliding the lever to the first stage and pressing the yellow button using an insulated flat-blade screwdriver, etc., will operate the contacts.

Sliding the lever to the second stage will lock the contacts in the operating position.

Mechanical operation indicator (two locations on left and right)

LED operation indicator  
AC coil specification: Red  
DC coil specification: Green

AC coil specification (LED: Red)

### 3. Contact materials and contact structures can be selected based on contact reliability and corrosion resistance.

Contact reliability			Corrosion resistance	
	Contact structure		Contact material	Typical model
High ↑	Crossbar bifurcated contacts		Au cladding + AgPd	MY4Z-CBG
	Bifurcated contacts		Au cladding + Ag alloy Au plating + Ag alloy	MY4Z MY2Z
	Single contacts		Au cladding + Ag alloy	MY4
Low ↓			Ag alloy	MY2

## Model Number Structure

## Model Number Legend

## ● Plug-in Terminals

## Standard models

M Y



(Example: MY4ZIN(S))

(1)

(2)

(3)

## (1) Number of poles

- 2: 2-pole
- 3: 3-pole
- 4: 4-pole

## (2) Contacts

- None: Single
- Z: Bifurcated
- Z-CBG: Crossbar bifurcated

## (3) Options

- None, (S): None
- N, N(S): With operation indicator (A2/14: +)
- N1(S): With operation indicator (A1/13: +)
- IN(S): With operation indicator/latching lever (A2/14: +)
- IN1(S): With operation indicator/latching lever (A1/13: +)

## Models with built-in diode for coil surge absorption

M Y



(Example: MY4ZIN-D2(S))

(1)

(2)

## (1) Number of poles/contacts

- 2: 2-pole, single contacts
- 2Z: 2-pole, bifurcated contacts
- 3: 3-pole, single contacts
- 4: 4-pole, single contacts
- 4Z: 4-pole, bifurcated contacts

## (2) Options

- N-D2, N-D2(S): Built-in diode for coil surge absorption, with operation indicator (A2/14: +)
- N1-D2(S): Built-in diode for coil surge absorption, with operation indicator (A1/13: +)
- IN-D2(S): Built-in diode for coil surge absorption, with operation indicator/latching lever (A2/14: +)
- IN1-D2(S): Built-in diode for coil surge absorption, with operation indicator/latching lever (A1/13: +)

## Models with built-in CR circuit for coil surge absorption

M Y



(Example: MY4ZIN-CR(S))

(1)

(2)

## (1) Number of poles/contacts

- 2: 2-pole, single contacts
- 2Z: 2-pole, bifurcated contacts
- 4: 4-pole, single contacts
- 4Z: 4-pole, bifurcated contacts

## (2) Options

- N-CR, N-CR(S): Built-in CR circuit for coil surge absorption, with operation indicator
- IN-CR(S): Built-in CR circuit for coil surge absorption, with operation indicator/latching lever

## ● PCB terminals/case surface mounted

M Y



(Example: MY2-02)

(1)

(2)

## (1) Number of poles/contacts

- 2: 2-pole, single contacts
- 3: 3-pole, single contacts
- 4: 4-pole, single contacts
- 4Z: 4-pole, bifurcated contacts

## (2) Terminals

- 02: PCB terminals
- F: Case-surface mounting



## Ordering Information

When your order, specify the rated voltage.

## ● Plug-in Terminals

Without operation indicator

Classification	Number of poles	Contacts	Model	Rated voltage
Standard models	2	Single	MY2(S)	6, 12, 24, 48/50, 110/120, 220/240 VAC 6, 12, 24, 48, 100/110 VDC
		Bifurcated	MY2Z	12, 24, 110/120, 220/240 VAC 12, 24, 100/110 VDC
	3	Single	MY3	12, 24, 110/120, 220/240 VAC 12, 24, 48, 100/110 VDC
	4	Single	MY4(S)	6, 12, 24, 48/50, 110/120, 220/240 VAC 6, 12, 24, 48, 100/110 VDC
		Bifurcated	MY4Z(S)	6, 12, 24, 48/50, 110/120, 220/240 VAC 6, 12, 24, 48, 100/110 VDC
		Crossbar bifurcated	MY4Z-CBG	100/110, 110/120, 200/220 VAC 12, 24, 48, 100/110 VDC

With operation indicator

Classification	Number of poles	Contacts	Model	Rated voltage
Standard models	2	Single	MY2N(S)	6, 12, 24, 48/50, 110/120, 220/240 VAC
			Type 1	6, 12, 24, 48, 100/110 VDC
			Type 2	6, 12, 24, 48, 100/110 VDC
		Bifurcated	MY2ZN	110/120, 220/240 VAC 24 VDC
	3	Single	MY3N	24, 110/120, 220/240 VAC 12, 24, 48, 100/110 VDC
	4	Single	MY4N(S)	6, 12, 24, 48/50, 110/120, 220/240 VAC
			Type 1	6, 12, 24, 48, 100/110 VDC
			Type 2	6, 12, 24, 48, 100/110 VDC
		Bifurcated	MY4ZN(S)	6, 12, 24, 48/50, 110/120, 220/240 VAC
			Type 1	6, 12, 24, 48, 100/110 VDC
			Type 2	6, 12, 24, 48, 100/110 VDC
		Crossbar bifurcated	MY4ZN-CBG	100/110, 200/220 VAC 24 VDC
Models with built-in diode for coil surge absorption	2	Single	MY2N-D2(S)	6, 12, 24, 48, 100/110 VDC
		Bifurcated	MY2ZN-D2	24 VDC
	3	Single	MY3N-D2	12, 24, 48 VDC
	4	Single	MY4N-D2(S)	6, 12, 24, 48, 100/110 VDC
		Bifurcated	MY4ZN-D2(S)	6, 12, 24, 48, 100/110 VDC
Models with built-in CR circuit for coil surge absorption	2	Single	MY2N1-D2(S)	6, 12, 24, 48, 100/110 VDC
		Single	MY4N1-D2(S)	6, 12, 24, 48, 100/110 VDC
	4	Single	MY4N1-D2(S)	6, 12, 24, 48, 100/110 VDC
		Bifurcated	MY4ZN1-D2(S)	6, 12, 24, 48, 100/110 VDC
	2	Single	MY2N-CR(S)	110/120, 220/240 VAC
		Single	MY4N-CR(S)	110/120, 220/240 VAC
Models with built-in CR circuit for coil surge absorption	4	Bifurcated	MY4ZN-CR(S)	110/120, 220/240 VAC

MY-GS-R

MY(S)



MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions

## With operation indicator/latching lever

Classification		Number of poles	Contacts	Model	Rated voltage
Standard models	2	Single	Type 1	MY2IN(S)	6, 12, 24, 48/50, 110/120, 220/240 VAC
			Type 2	MY2IN1(S)	6, 12, 24, 48, 100/110 VDC
					6, 12, 24, 48, 100/110 VDC
	4	Single	Type 1	MY4IN(S)	6, 12, 24, 48/50, 110/120, 220/240 VAC
			Type 2	MY4IN1(S)	6, 12, 24, 48, 100/110 VDC
					6, 12, 24, 48, 100/110 VDC
		Bifurcated	Type 1	MY4ZIN(S)	6, 12, 24, 48/50, 110/120, 220/240 VAC
			Type 2	MY4ZIN1(S)	6, 12, 24, 48, 100/110 VDC
					6, 12, 24, 48, 100/110 VDC
Models with built-in diode for coil surge absorption	Type 1	2	Single	MY2IN-D2(S)	6, 12, 24, 48, 100/110 VDC
	Type 1 	4	Single	MY4IN-D2(S)	6, 12, 24, 48, 100/110 VDC
			Bifurcated	MY4ZIN-D2(S)	6, 12, 24, 48, 100/110 VDC
	Type 2	2	Single	MY2IN1-D2(S)	6, 12, 24, 48, 100/110 VDC
	Type 2 	4	Single	MY4IN1-D2(S)	6, 12, 24, 48, 100/110 VDC
			Bifurcated	MY4ZIN1-D2(S)	6, 12, 24, 48, 100/110 VDC
Models with built-in CR circuit for coil surge absorption		2	Single	MY2IN-CR(S)	110/120, 220/240 VAC
		4	Single	MY4IN-CR(S)	110/120, 220/240 VAC
			Bifurcated	MY4ZIN-CR(S)	110/120, 220/240 VAC

## ●PCB terminals

Classification		Number of poles	Contacts	Model	Rated voltage
Standard models (compliant with Electrical Appliances and Material Safety Act)	2	Single		MY2-02	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
					12, 24, 48, 100/110 VDC
	3	Single		MY3-02	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
					12, 24, 48, 100/110 VDC
	4	Single		MY4-02	12, 24, 100/110, 110/120, 200/220, 220/240 VAC
					12, 24, 48, 100/110 VDC
		Bifurcated		MY4Z-02	100/110, 110/120, 200/220 VAC
					12, 24, 48, 100/110 VDC

## ●Case-surface mounting

Classification		Number of poles	Contacts	Model	Rated voltage
Standard models (compliant with Electrical Appliances and Material Safety Act)	2	Single		MY2F	24, 100/110, 110/120, 200/220, 220/240 VAC
					12, 24, 48, 100/110 VDC
	3	Single		MY3F	24, 100/110, 200/220 VAC
					24, 100/110 VDC
	4	Single		MY4F	24, 100/110, 110/120, 200/220 VAC
					12, 24, 48, 100/110 VDC
		Bifurcated		MY4ZF	200/220 VAC
					12, 24 VDC

## Ratings and Specifications

### Ratings

#### Operating Coils

Terminal Type	Classification	Number of poles	Contacts	Without operation indicator	With operation indicator	With latching lever
Plug-in terminals	Standard models	2	Single	MY2(S)	MY2N(S), MY2N1(S)	MY2IN(S), MY2IN1(S)
		4	Single	MY4(S)	MY4N(S), MY4N1(S)	MY4IN(S), MY4IN1(S)
			Bifurcated	MY4Z(S)	MY4ZN(S), MY4ZN1(S)	MY4ZIN(S), MY4ZIN1(S)
	Models with built-in diode for coil surge absorption	2	Single		MY2N-D2(S), MY2N1-D2(S)	MY2IN-D2(S), MY2IN1-D2(S)
		4	Single		MY4N-D2(S), MY4N1-D2(S)	MY4IN-D2(S), MY4IN1-D2(S)
			Bifurcated		MY4ZN-D2(S), MY4ZN1-D2(S)	MY4ZIN-D2(S), MY4ZIN1-D2(S)
	Models with built-in CR circuit for coil surge absorption	2	Single		MY2N-CR(S)	MY2IN-CR(S)
		4	Single		MY4N-CR(S)	MY4IN-CR(S)
			Bifurcated		MY4ZN-CR(S)	MY4ZIN-CR(S)

Item		Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Must operate voltage (V)	Must release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)
Rated voltage (V)		50 Hz	60 Hz		Armature OFF	Armature ON				
AC	6	214.1	183	12.2	0.04	0.08	80% max.*1	30% min.*2	110% of rated voltage	Approx. 0.9 to 1.3 (at 60 Hz)
	12	106.5	91	46	0.17	0.33				
	24	53.8	46	180	0.69	1.30				
	48/50	24.7/25.7	21.1/22.0	788	3.22	5.66				
	110/120	9.9/10.8	8.4/9.2	4,430	19.20	32.1				
	220/240	4.8/5.3	4.2/4.6	18,790	83.50	136.4				
DC	6	151		39.8	0.17	0.33	10% min.*2	10% min.*2	110% of rated voltage	Approx. 0.9
	12	75		160	0.73	1.37				
	24	37.7		636	3.20	5.72				
	48	18.8		2,560	10.60	21.0				
	100/110	9.0/9.9		11,100	45.60	86.2				

- Note:**
- The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance.
  - The AC coil resistance and inductance values are reference values only (at 60 Hz).
  - Operating characteristics were measured at a coil temperature of 23°C.
  - The maximum voltage capacity was measured at an ambient temperature of 23°C.
  - Power consumption drop was measured for the above data. When driving transistors, check leakage current and connect a bleeder resistor if required.
- \*1. There is variation between products, but actual values are 80% maximum.  
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.

INDUSTRIAL AUTOMATION

Terminal Type	Classification	Number of poles	Contacts	Without operation indicator	With operation indicator
Plug-in terminals	Standard models	2	Bifurcated	MY2Z	MY2ZN
		3	Single	MY3	MY3N
		4	Crossbar bifurcated	MY4Z-CBG	MY4ZN-CBG
	Models with built-in diode for coil surge absorption	2	Bifurcated		MY2ZN-D2
		3	Single		MY3N-D2
PCB terminals	Standard models	2	Single	MY2-02	
		3	Single	MY3-02	
		4	Single	MY4-02	
			Bifurcated	MY4Z-02	
Case-surface mounting	Standard models	2	Single	MY2F	
		3	Single	MY3F	
		4	Single	MY4F	
			Bifurcated	MY4ZF	

Item	Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Must operate voltage (V)	Must release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)
	Rated voltage (V)	50 Hz	60 Hz	Armature OFF	Armature ON				
AC	12	106.5	91	46	0.17	0.33	30% min.*2	110% of rated voltage	Approx. 0.9 to 1.3 (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			
	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			
DC	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	80% max.*1	10% min.*2	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				

**Note:** 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and ±15% for 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% maximum.  
 To ensure operation, apply at least 80% of the rated value.

\*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.

INDUSTRIAL AUTOMATION

## Contact Ratings

Number of poles (contact configuration)  Contact structure  Load	2-pole (DPDT)				3-pole (3PDT)	
	Single		Bifurcated		Single	
	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)
Rated load	5 A at 250 VAC 5 A at 30 VDC	2 A at 250 VAC 2 A at 30 VDC	5 A at 220 VAC 5 A at 24 VDC	2 A at 220 VAC 2 A at 24 VDC	5 A at 220 VAC 5 A at 24 VDC	2 A at 220 VAC 2 A at 24 VDC
Rated carry current*1	10 A		5 A		5 A	
Maximum switching voltage	250 VAC, 125 VDC				250 VAC, 125 VDC	
Maximum switching current	10 A		5 A		5 A	
Maximum switching power	2,500 VA 300 W	500 VA 60 W	1,100 VA 120 W	440 VA 48 W	1,100 VA 120 W	440 VA 48 W
Contact material	Ag		Au plating + Ag		Ag	

Number of poles (contact configuration)  Contact structure  Load	4-pole (4PDT)					
	Single		Bifurcated		Crossbar bifurcated (CBG)	
	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)
Rated load	3 A at 250 VAC 3 A at 30 VDC	0.8 A at 250 VAC 1.5 A at 30 VDC	3 A at 250 VAC 3 A at 30 VDC	0.8 A at 250 VAC 1.5 A at 30 VDC	1 A at 220 VAC 1 A at 24 VDC	0.3 A at 220 VAC 0.5 A at 24 VDC
Rated carry current*1	5 A				1 A	
Maximum switching voltage	250 VAC, 125 VDC					
Maximum switching current	5 A				1 A	
Maximum switching power	1,250 VA 150 W	200 VA 45 W	1,250 VA 150 W	200 VA 45 W	220 VA 24 W	66 VA 12 W
Contact material	Au cladding + Ag alloy				Au cladding + AgPd	

\*1. If you use a Socket, do not exceed the rated carry current of the Socket.

INDUSTRIAL AUTOMATION



Characteristics

Number of poles (contact configuration)		2-pole (DPDT)		3-pole (3PDT)	4-pole (4PDT)		
Contact structure		Single	Bifurcated	Single	Single	Bifurcated	Crossbar bifurcated (CBG)
Contact resistance*1 *2		100 mΩ max.	50 mΩ max.	50 mΩ max.	100 mΩ max.	100 mΩ max.	100 mΩ max.
Operate time*3		20 ms max.					
Release time*3		20 ms max.					
Maximum switching frequency	Mechanical	18,000 operations/h					
	Rated load	1,800 operations/h					
Insulation resistance*4		100 MΩ min.					
Dielectric strength	Between coil and contacts	2,000 VAC, 50/60 Hz for 1 min					
	Between contacts of different polarity						
	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min					700 VAC at 50/60 Hz for 1 min
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)					
	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)					
Shock resistance	Destruction	1,000 m/s <sup>2</sup>					
	Malfunction	200 m/s <sup>2</sup>					
Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)	AC: 50,000,000 operations min. DC: 50,000,000 operations min. (switching frequency: 18,000 operations/h)	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)	AC: 20,000,000 operations min. DC: 20,000,000 operations min. (switching frequency: 18,000 operations/h)	AC: 50,000,000 operations min. DC: 50,000,000 operations min. (switching frequency: 18,000 operations/h)
	Electrical*5	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)	200,000 operations min. (rated load, switching frequency: 1,800 operations/h)	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)	200,000 operations min. (rated load, switching frequency: 1,800 operations/h)	100,000 operations min. (rated load, switching frequency: 1,800 operations/h)	50,000 operations min. (rated load, switching frequency: 1,800 operations/h)
Failure rate P value (reference value)*6		1 mA at 5 VDC	100 μA at 1 VDC	1 mA at 5 VDC	1 mA at 1 VDC	100 μA at 1 VDC	100 μA at 1 VDC
Weight		Approx. 35 g	Approx. 35 g	Approx. 35 g	Approx. 35 g	Approx. 35 g	Approx. 35 g

**Note:** The data shown above are initial values.

\*1. Models with latching lever are 100 mΩ maximum.

\*2. Measurement conditions: 1 A at 5 VDC using the voltage drop method.

\*3. Measurement conditions: With rated operating power applied, not including contact bounce.

\*4. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.

\*5. Ambient temperature condition: 23°C

\*6. This value was measured at a switching frequency of 120 operations per minute.

Number of poles (contact configuration)	2-pole (DPDT)				3-pole (3PDT)		4-pole (4PDT)			
Contact structure	Single		Bifurcated		Single		Single/bifurcated		Crossbar bifurcated (CBG)	
Operation indicator	Without operation indicator	With operation indicator	Without operation indicator	With operation indicator	Without operation indicator	With operation indicator	Without operation indicator	With operation indicator	Without operation indicator	With operation indicator
Ambient operating temperature*1	-55 to +70%		-55 to +70%	-55 to +60%*2	-55 to +70%	-55 to +60% *2	-55 to +70%		-55 to +70%	-55 to +60%
Ambient operating humidity	5 to 85%RH									

\*1. With no icing or condensation.

\*2. This limitation is due to the diode junction temperature and elements used.

**Certified Standards****●UL certification (File No. E41515)**

Model	Standard number	Category	Listed/ Recognized	Operating Coil ratings	No. of poles	Contact ratings	Certified number of operations
MY2□(S) MY2□-D2(S) MY2□-CR(S)	UL508	NRNT2	Recognition	6 to 240 VAC 6 to 125 VDC	2	10 A, 250 VAC (General Use) 10 A, 30 VDC (General Use) 7 A, 240 VAC (General Use) 7 A, 24 VDC (Resistive) 5 A, 240 VAC (General Use) 5 A, 250 VAC (Resistive) 5 A, 30 VDC (Resistive) 3 A, 265 VAC (Resistive)	6,000
						1/6 HP, 250 VAC 1/8 HP, 265 VAC 1/10 HP, 120 VAC	1,000
						B300 Pilot Duty (Same polarity)	6,000
MY2Z□ MY2-02 MY2F	UL508	NRNT2	Recognition	6 to 240 VAC 6 to 125 VDC	2	7 A, 240 VAC (General Use) 7 A, 24 VDC (Resistive) 5 A, 240 VAC (General Use) 5 A, 250 VAC (Resistive) 5 A, 30 VDC (Resistive) 3 A, 265 VAC (Resistive)	6,000
						1/6 HP, 250 VAC 1/8 HP, 265 VAC 1/10 HP, 120 VAC	1,000
						B300 Pilot Duty (Same polarity)	6,000
MY3□ MY3N-D2 MY3-02 MY3F	UL508	NRNT2	Recognition	6 to 240 VAC 6 to 125 VDC	3	5 A, 28 VDC (Resistive) 5 A, 240 VAC (General Use)	6,000
						1/6 HP, 250 VAC	1,000
MY4□(S) MY4□-D2(S) MY4□-CR(S) MY4□-02 MY4□F	UL508	NRNT2	Recognition	6 to 240 VAC 6 to 125 VDC	4	5 A, 28 VDC (General Use) (Same polarity) 5 A, 240 VAC (General Use) (Same polarity) 5 A, 30 VDC (Resistive) (Same polarity) 5 A, 250 VAC (Resistive) (Same polarity) 0.2 A, 120 VDC (Resistive) (Same polarity)	6,000
						1/6 HP, 250 VAC (Same polarity) 1/10 HP, 120 VAC (Same polarity)	1,000
						B300 Pilot Duty (Same polarity)	6,000

INDUSTRIAL AUTOMATION

MY-GS-R

MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions

MY-GS-R

MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions

## ● CSA certification (File No. LR31928)

Model	Standard number	Class number	Operating Coil ratings	No. of poles	Contact ratings	Certified number of operations
MY2□(S) MY2□-D2(S) MY2□-CR(S)	C22.2 NO.0, No.14		6 to 240 VAC 6 to 125 VDC	2	7 A, 240 VAC (Resistive) 7 A, 24 VDC (Resistive) 5 A, 240 VAC (General Use) 5 A, 250 VAC (Resistive) 5 A, 30 VDC (Resistive) 1/6 HP, 250 VAC (Same polarity) 1/10 HP, 120 VAC (Same polarity)	6,000     1,000
MY2Z□ MY2-02 MY2F	C22.2 NO.0, No.14		6 to 240 VAC 6 to 125 VDC	2	7 A, 240 VAC (General Use) (Same polarity) 7 A, 24 VDC (Resistive) (Same polarity) 5 A, 240 VAC (General Use) (Same polarity) 5 A, 30 VDC (Resistive) 5 A, 250 VAC (Resistive) (Same polarity) 0.2 A, 120 VDC (Resistive) 1/6 HP, 250 VAC 1/10 HP, 120 VAC	6,000     1,000
MY3□ MY3N-D2 MY3-02 MY3F	C22.2 NO.0, No.14		6 to 240 VAC 6 to 125 VDC	3	5 A, 28 VDC (Resistive) 5 A, 240 VAC (General Use) 7 A, 240 VAC (General Use) 7 A, 24 VDC (Resistive) 1/6 HP, 250 VAC	6,000    1,000
MY4□(S) MY4□-D2(S) MY4□-CR(S)	C22.2 No.14	3211 07	6 to 240 VAC 6 to 125 VDC	4	5 A, 240 VAC (General Use) (Same polarity) 5 A, 28 VDC (General Use) (Same polarity) 5 A, 250 VAC (Resistive) (Same polarity) 5 A, 30 VDC (Resistive) (Same polarity) 0.2 A, 120 VDC (Resistive) (Same polarity) 1/6 HP, 250 VAC (Same polarity) 1/10 HP, 120 VAC (Same polarity) B300 Pilot Duty (Same polarity)	6,000     1,000  6,000
MY4□-02 MY4□F	C22.2 NO.0, No.14	3211 07	6 to 240 VAC 6 to 125 VDC	4	7 A, 240 VAC (General Use) (Same polarity) 7 A, 24 VDC (Resistive) (Same polarity) 5 A, 240 VAC (General Use) (Same polarity) 5 A, 30 VDC (Resistive) 5 A, 250 VAC (Resistive) (Same polarity) 0.2 A, 120 VDC (Resistive) 1/6 HP, 250 VAC 1/10 HP, 120 VAC	6,000      1,000

## ● TÜV Rheinland certification (Certification No. R50030059)

Model	Operating Coil ratings	Contact ratings	Certified number of operations
MY2Z□ MY2-02 MY2F	6 to 125 VDC, 6 to 240 VAC	5 A, 250 VAC (cos φ = 1.0)	100,000
MY3□ MY3N-D2 MY3-02 MY3F		5 A, 250 VAC (cos φ = 1.0) 0.8 A, 250 VAC (cos φ = 0.4)	
MY4□-02 MY4□F		3 A, 120 VAC (cos φ = 1.0) 0.8 A, 250 VAC (cos φ = 0.4)	

## ●CE Marking

Model	EMC Directive	Low Voltage Directive	Machinery Directive	Safety Category
MY2□□(S) MY2□□-D2(S) MY2□□-CR(S) MY2Z□ MY2ZN-D2 MY2F	Not applicable	Applicable	Not applicable	1
MY3□ MY3N-D2 MY3F				
MY4□(S) MY4□-D2(S) MY4□-CR(S) MY4□F				

## ●LR certification (Lloyd's Register)

Model	File No.	Environmental Category	Operating Coil ratings	Contact ratings	Certified number of operations
MY2□(S) MY2□-D2(S) MY2□-CR(S)	File No.98/10014	ENV2,3	6 to 240 VAC 6 to 125 VDC	10 A, 250 VAC (Resistive) 2 A, 250 VAC (PF0.4) 10 A, 30 VDC (Resistive) 2 A, 30 VDC (L/R = 7 ms)	MY2: 50,000
MY2Z□ MY2ZN-D2	File No.90/10270	ENV2,3	6 to 240 VAC 6 to 125 VDC	2 A, 30 VDC inductive load 2 A, 200 VAC inductive load	MY2: 50,000
MY4□(S) MY4□-D2(S) MY4□-CR(S)	File No.98/10014	ENV2,3	6 to 240 VAC 6 to 125 VDC	5 A, 250 VAC (Resistive) 0.8 A, 250 VAC (PF0.4) 5 A, 30 VDC (Resistive) 1.5 A, 30 VDC (L/R = 7 ms)	MY4: 50,000

## ●VDE certification

Model	Standard number	Certification No.	Operating Coil ratings	Contact ratings	Certified number of operations
MY2□(S) MY2□-D2(S) MY2□-CR(S)	EN 61810-1	112467UG	6, 12, 24, 48/50, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110, 125 VDC	10A, 250 VAC ( $\cos \varphi = 1$ ) 10A, 30 VDC (L/R = 0 ms)	MY2: 100,000 MY4: 100,000 MY4Z: 50,000 (AC)
MY4□(S) MY4□-D2(S) MY4□-CR(S)			6, 12, 24, 48/50, 100/110, 110/120, 200/220, 220/240 VAC 6, 12, 24, 48, 100/110, 125 VDC	5 A, 250 VAC ( $\cos \varphi = 1$ ) 5 A, 30 VDC (L/R = 0 ms)	

MY-GS-R

MY(S)

MYK

MYQ-MYH

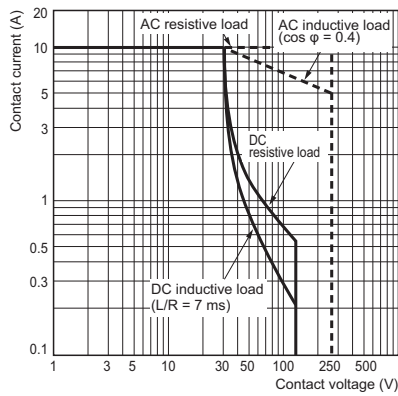
Common Options (Order Separately)

Common Precautions

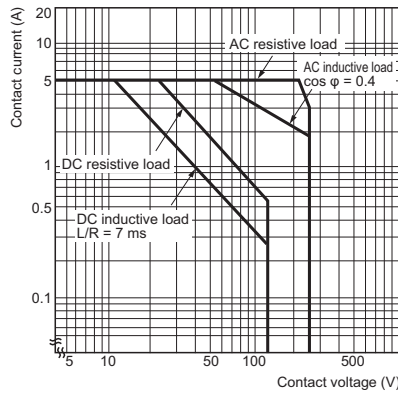
## Engineering Data (Reference Value)

## ● Maximum Switching Capacity

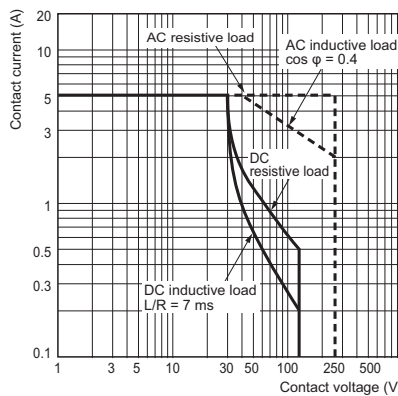
MY2(S)



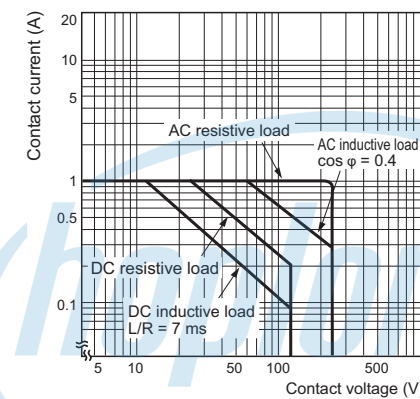
MY3



MY4(S)

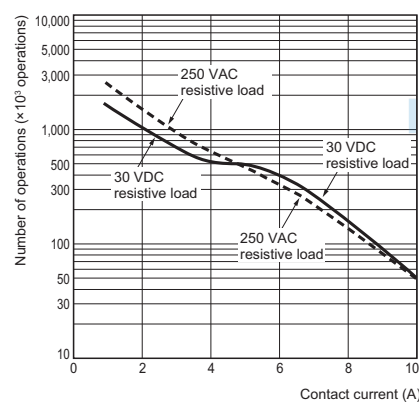


MY4Z-CBG

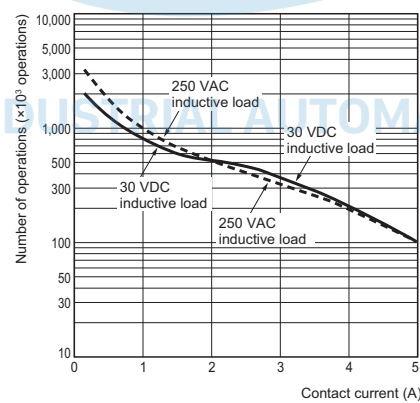


## ● Endurance Curve

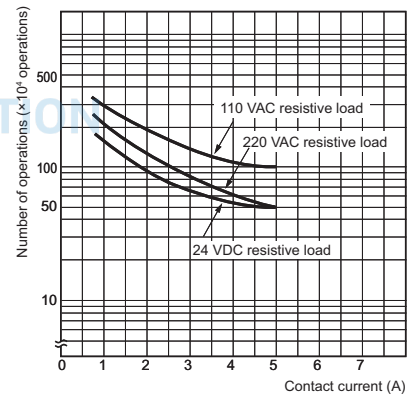
MY2(S)



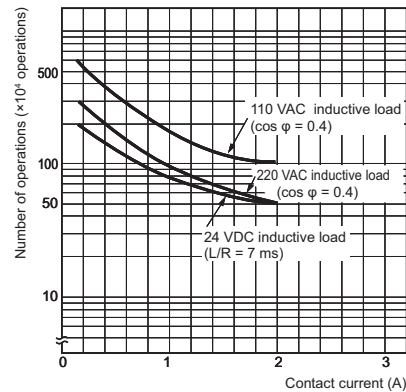
MY2(S)



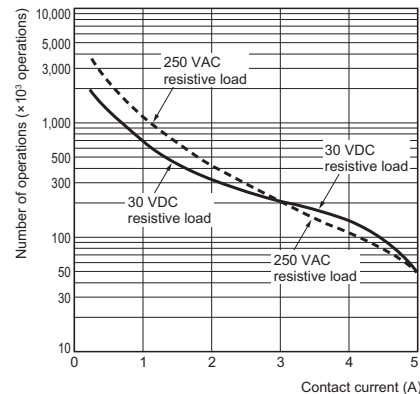
MY3



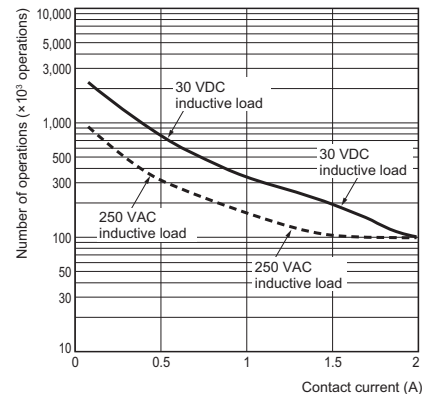
MY3



MY4(S)



MY4(S)



MY-GS-R

MY(S)

MYK

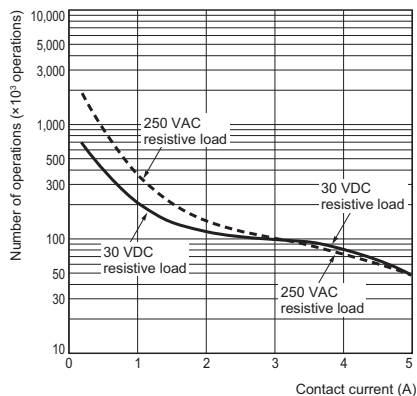
MYQ-MYH

Common Options (Order Separately)

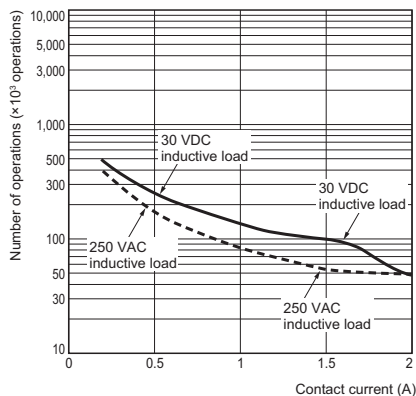
Common Precautions



MY4Z(S)

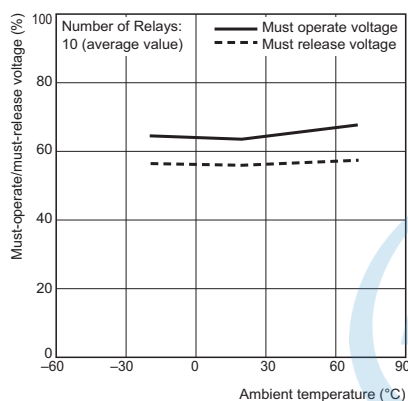


MY4Z(S)

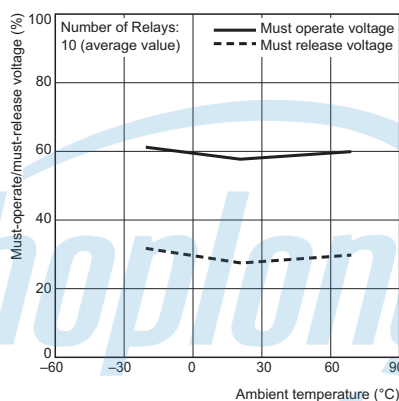


● Ambient Temperature vs. Must-operate and Must-release Voltage

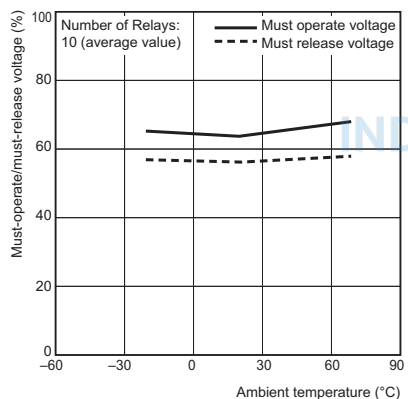
MY2 AC Models



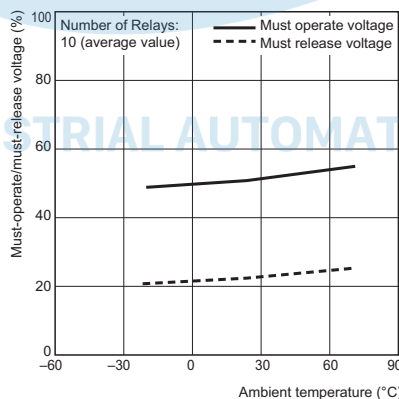
MY2 DC Models



MY4 AC Models

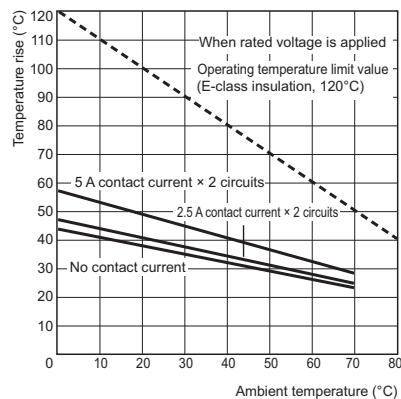


MY4 DC Models

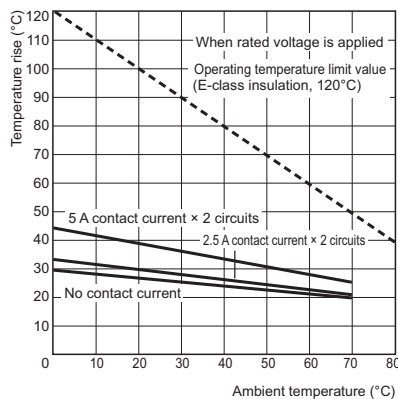


## ● Ambient Temperature vs. Coil Temperature Rise

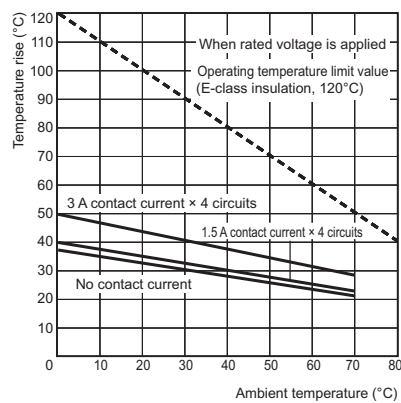
MY2 AC Models, 50 Hz



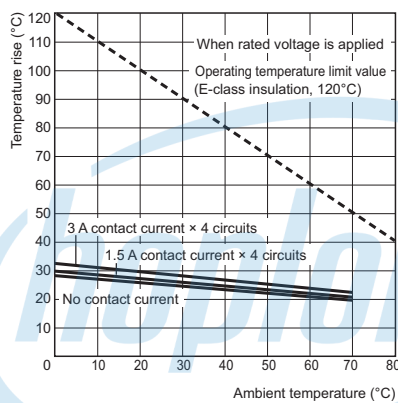
MY2 DC Models



MY4 AC Models, 50 Hz

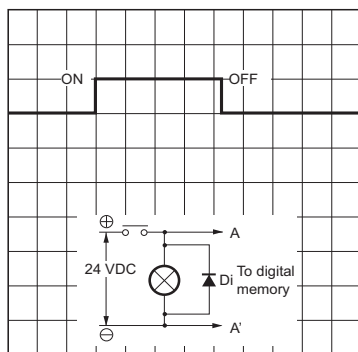


MY4 DC Models

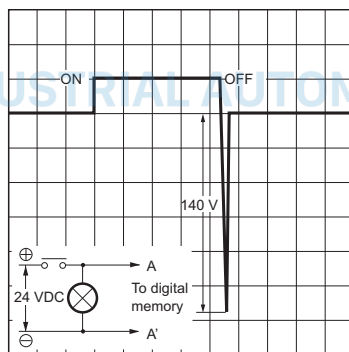


## Models with built-in diode for coil surge absorption MY□-D

### With Diode



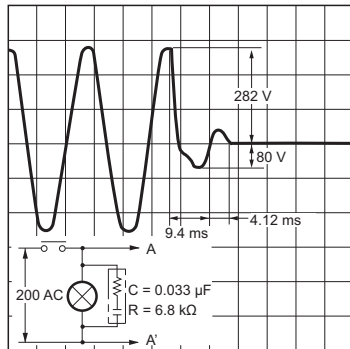
### Without Diode



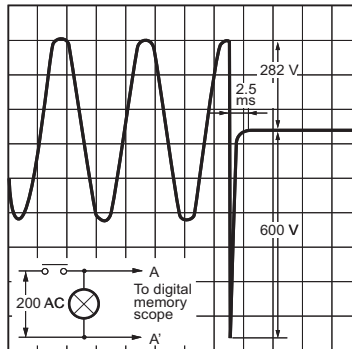
- Note:**
1. Make sure that the polarity is correct.
  2. The release time will increase, but the 20-ms specification for standard models is satisfied.
  3. Diode properties: The diode has a reversed dielectric strength of 1,000 V.  
Forward current: 1 A

Models with built-in CR circuit for coil surge absorption MY□-CR

With CR



Without CR

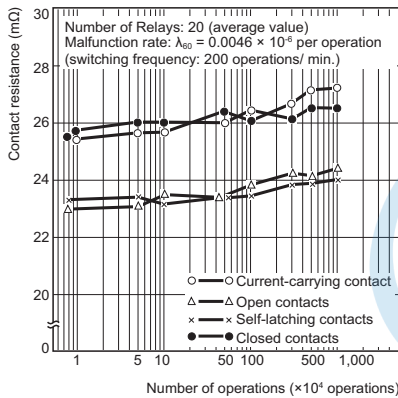


●Contact Reliability Test MY4Z-CBG

(Modified Allen Bradley Circuit)

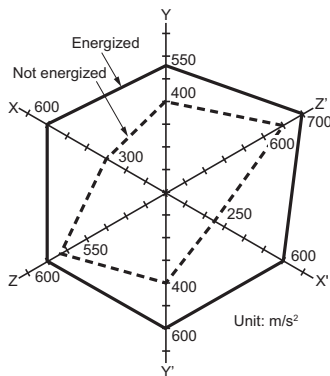
Contact load: 5 VDC, 1 mA resistive load

Malfunction level: Contact resistance of 100 Ω



Common Specifications for MY2, MY3, MY4, MY4Z, MY□-02, MY□F, and MY(S)

●Shock Malfunction



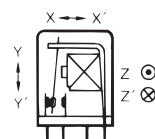
INDUSTRIAL AUTOMATION

N = 20

Measurement: Shock was applied 3 times each in 6 directions along 3 axes with the Relay energized and not energized to check the shock values that cause the Relay to malfunction.

Criteria: Non-energized: 200 m/s<sup>2</sup>,  
Energized: 200 m/s<sup>2</sup>

Shock direction

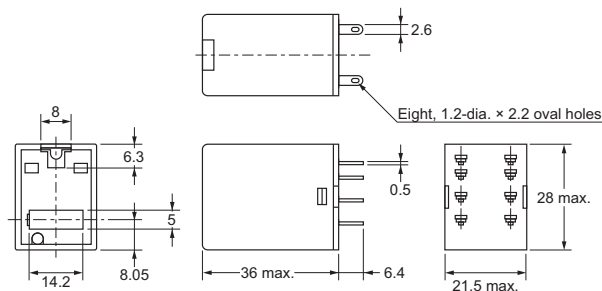


## Dimensions

(Unit: mm)

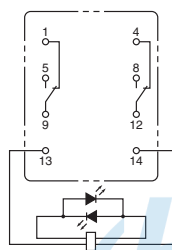
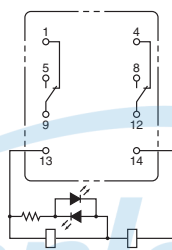
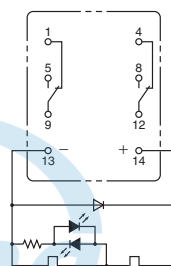
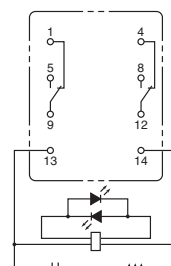
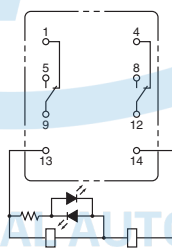
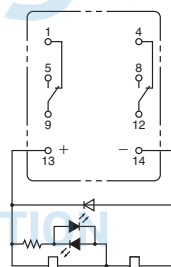
## ● Plug-in terminals

MY2□(S)



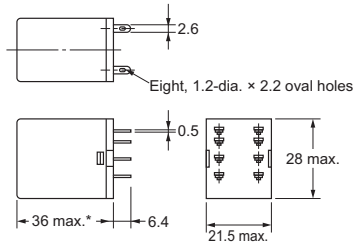
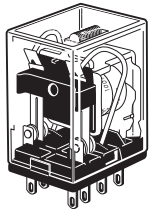
**Note:** The picture is lockable test button type.

## Terminal Arrangement/Internal Connections (Bottom View)

MY2IN(S)  
(AC Model)MY2IN(S)  
(DC Models)MY2IN-D2(S)  
(DC Models Only)MY2IN-CR  
(AC Models Only)MY2IN1(S)  
(DC Models)MY2IN1-D2(S)  
(DC Models Only)

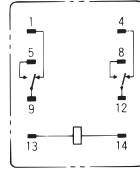
**Note:** For the DC models, check the coil polarity when wiring and wire all connections correctly.

MY2Z□  
MY2ZN-D2



\* For the MY2Z-CR and MY2ZN-CR, this dimension is 53 mm maximum.

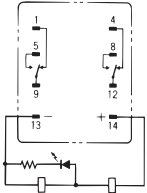
Terminal Arrangement/Internal  
Connection Diagram  
(Bottom View)  
MY2Z  
(AC/DC Models)



(Coil has no polarity)

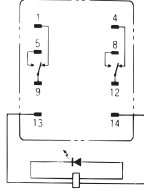
MY2ZN

DC Models



(Coil has polarity)

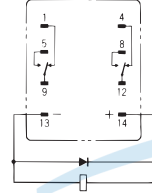
AC Models



(Coil has no polarity)

MY2Z-D

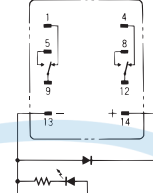
(DC Models Only)



(Coil has polarity)

MY2ZN-D2

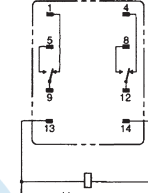
(DC Models Only)



(Coil has polarity)

MY2Z-CR

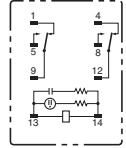
(AC Models Only)



(Coil has no polarity)

MY2ZN-CR

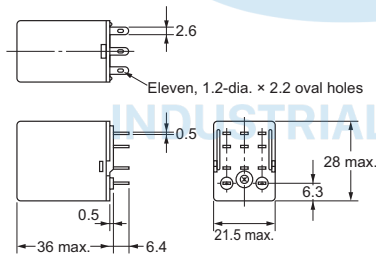
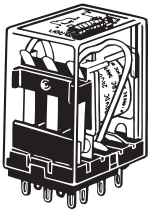
(AC Models Only)



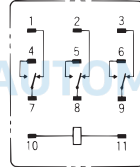
(Coil has no polarity)

- Note:**
1. An AC model has coil disconnection self-diagnosis.
  2. For the DC models, check the coil polarity when wiring and wire all connections correctly.
  3. The indicator is red for AC and green for DC.
  4. The operation indicator indicates the energization of the coil and does not represent contact operation.

MY3□  
MY3N-D2



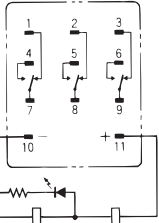
Terminal Arrangement/Internal  
Connection Diagram  
(Bottom View)  
MY3  
(AC/DC Models)



(Coil has no polarity)

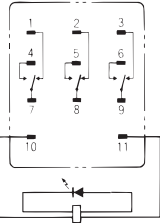
MY3N

DC Models



(Coil has polarity)

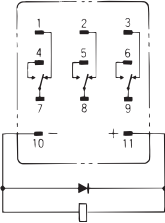
AC Models



(Coil has no polarity)

MY3-D

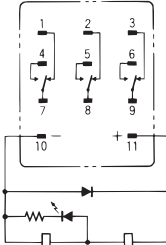
(DC Models Only)



(Coil has polarity)

MY3N-D2

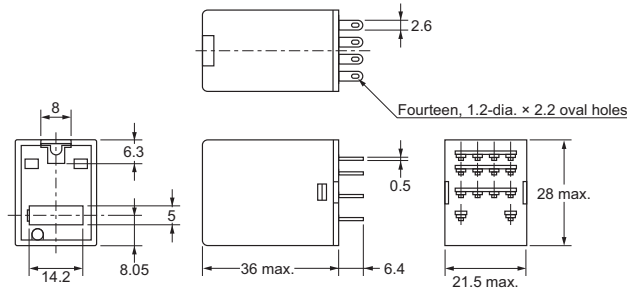
(DC Models Only)



(Coil has polarity)

- Note:**
1. An AC model has coil disconnection self-diagnosis.
  2. For the DC models, check the coil polarity when wiring and wire all connections correctly.
  3. The indicator is red for AC and green for DC.
  4. The operation indicator indicates the energization of the coil and does not represent contact operation.

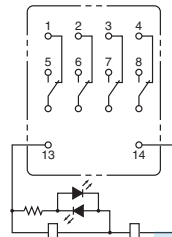
MY4□(S)



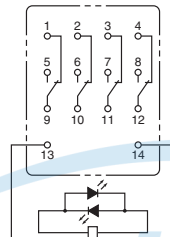
Note: The picture is lockable test button type.

Terminal Arrangement/Internal Connections (Bottom View)

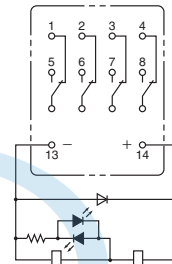
MY4(Z)IN(S)  
(DC Models)



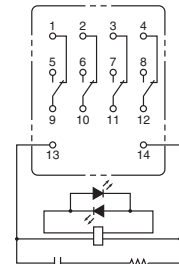
MY4(Z)IN(S)  
(AC Models)



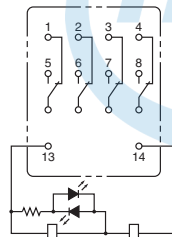
MY4(Z)IN-D2(S)  
(DC Models Only)



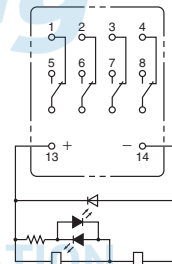
MY4(Z)IN-CR(S)  
(AC Models Only)



MY4(Z)IN1(S)  
(DC Models)

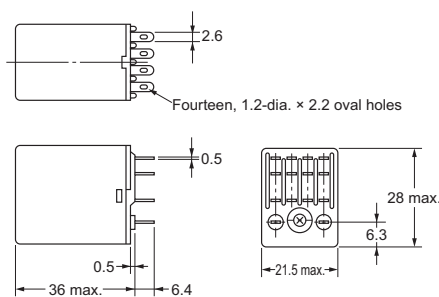
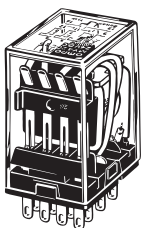


MY4(Z)IN1-D2(S)  
(DC Models Only)

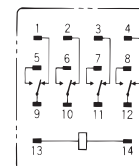


Note: For the DC models, check the coil polarity when wiring and wire all connections correctly.

MY4□-CBG



Terminal Arrangement/Internal  
Connection Diagram  
(Bottom View)  
MY4Z-CBG  
(AC/DC Models)



(The coil has no polarity.)

## ●PCB terminals

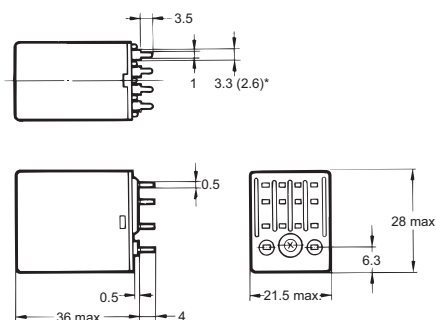
MY2-02

MY3-02

MY4□-02

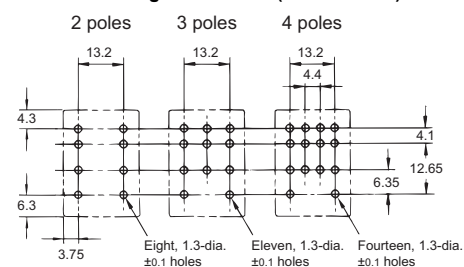


The figure and outline drawing show MY4-02. The 2-pole and 3-pole models conform to these dimensions.



\* Dimensions in parentheses are for the MY4-02.

## PCB Processing Dimensions (Bottom View)



**Note:** 1. The dimensional tolerance is  $\pm 0.1$ .  
2. Refer to the terminal arrangement and internal connections diagrams for the MY2, MY3, MY4, and MY4Z.

## ●Case-surface mounting

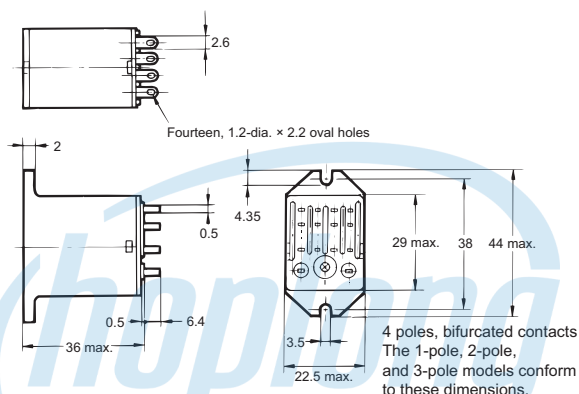
MY2F

MY3F

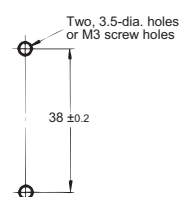
MY4□F



The above figure is for the MY4F. The 2-pole and 3-pole models conform to these dimensions.



## Mounting Hole Dimensions



**Note:** Refer to the terminal arrangement and internal connections diagrams for the MY2, MY3, MY4, and MY4Z.

INDUSTRIAL AUTOMATION



# Miniature Power Latching Relays

# MYK

## Latching miniature power relays that retain contact operation status

- A low power consumption type that retains contacts using a magnetic lock system.
- Equipped with mechanical operation indicators to make operation status easy-to-see.

Refer to *Safety Precautions* on pages 62 to 63 and *Safety Precautions for All Relays*.

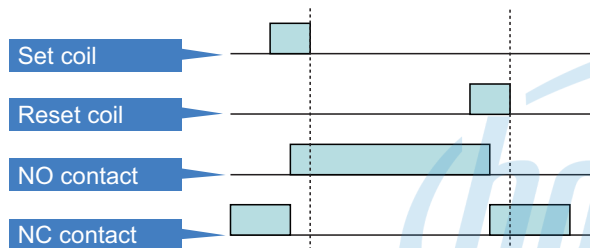


## Features

### Latching Relays MYK

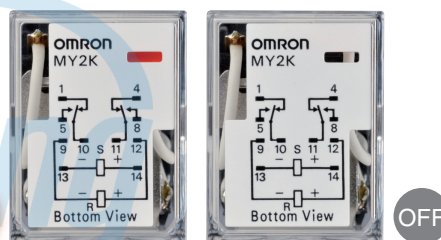
Retains contact operation status.

Contact operation status can be seen at a glance thanks to the mechanical operation indicator.



NO contact turns on when voltage is applied to the set coil and stays on even if voltage stops being applied to the set coil. NO contact turns off when voltage is applied to the reset coil, after which NC contact will turn on.\*

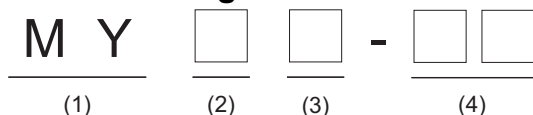
\*MYK features a magnetic lock system.



INDUSTRIAL AUTOMATION

## Model Number Structure

### Model Number Legend



**(1) Basic model name**

MY: Miniature Power Relays

**(3) Type**

K: Latching relay

**(2) Number of poles/contacts**

2: 2-pole, single

**(4) Options, terminal type**

None: Plug-in terminals

02: PCB terminals

## Ordering Information

When your order, specify the rated voltage.

### Main unit

#### ● Plug-in terminals

Classification	Number of poles	Contacts	Model	Rated voltage
Standard models (compliant with Electrical Appliances and Material Safety Act)	2	Single	MY2K	12, 24, 100, 100/110 VAC
				12, 24, 48 VDC

#### ● PCB terminals

Classification	Number of poles	Contacts	Model	Rated voltage
Standard models (compliant with Electrical Appliances and Material Safety Act)	2	Single	MY2K-02	24, 100 VAC
				12, 24 VDC

INDUSTRIAL AUTOMATION

MY-GS-R

MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions

## Ratings and Specifications

## Ratings

## ● Operating coil

Rated voltage (V)		Set coil			Reset coil			Must operate voltage (V)	Must release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)	
		Rated current (mA)		Coil resistance (Ω)	Rated current (mA)		Coil resistance (Ω)				Set coil	Reset coil
		50 Hz	60 Hz		50 Hz	60 Hz						
AC	12	57	56	72	39	38.2	130	80% max.*	80% max.	110% max. of rated voltage	Approx. 0.6 to 0.9 (at 60 Hz)	Approx. 0.2 to 0.5 (at 60 Hz)
	24	27.4	26.4	320	18.6	18.1	550					
	100	7.1	6.9	5,400	3.5	3.4	3,000					
DC	12	110		110	50		235				Approx. 1.3	Approx. 0.6
	24	52		470	25		940					
	48	27		1,800	16		3,000					

**Note:** 1. The rated current for AC is the value measured with a DC ammeter in half-wave rectification.  
 2. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance.  
 3. The AC coil resistance is a reference value only.  
 4. Operating characteristics were measured at a coil temperature of 23°C.  
 5. The maximum voltage capacity was measured at an ambient temperature of 23°C.  
 \*There is variation between products, but actual values are 80% maximum.

## ● Contact Ratings

Number of poles (contact configuration) Contact structure	2-pole (DPDT)	
	Single	
	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)
Rated load	3 A at 220 VAC 3 A at 24 VDC	0.8 A at 220 VAC 1.5 A at 24 VDC
Rated carry current	3 A	
Maximum switching voltage	250 VAC, 125 VDC	
Maximum switching current	3 A	
Maximum switching power	660 VA 72 W	176 VA 36 W
Contact material	Au plating + Ag	

## Characteristics

Contact resistance*1		50 mΩ max.
Set	Operate time*2	AC: 30 ms max., DC: 15 ms max.
	Minimum pulse width	AC: 60 ms, DC: 30 ms
Reset	Release time*2	AC: 30 ms max., DC: 15 ms max.
	Minimum pulse width	AC: 60 ms, DC: 30 ms
Maximum switching frequency	Mechanical	18,000 operations/h
	Rated load	1,800 operations/h
Insulation resistance*3		100 MΩ min.
Dielectric strength	Between coil and contacts Between contacts of different polarity	1,500 VAC at 50/60 Hz for 1 min
	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min
	Between set/reset coils	
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
Shock resistance	Destruction	1,000 m/s <sup>2</sup>
	Malfunction	200 m/s <sup>2</sup>
Endurance	Mechanical	100,000,000 operations min. (switching frequency: 18,000 operations/h)
	Electrical*4	200,000 operations min. (at rated load, switching frequency: 1,800 operations/h)
Failure rate P value (reference value)*5		1 mA at 1 VDC
Ambient operating temperature*6		-55 to 60°C
Ambient operating humidity		5% to 85%
Weight		Approx. 30 g

**Note:** The data shown above are initial values.

- \*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method.  
 \*2. Measurement conditions: With rated operating power applied, not including contact bounce.  
 \*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.  
 \*4. Ambient temperature condition: 23°C  
 \*5. This value was measured at a switching frequency of 120 operations per minute.  
 \*6. With no icing or condensation.

# Engineering Data (Reference Value)

MY-GS-R

MY(S)

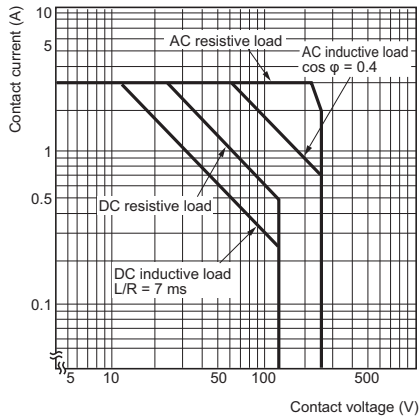
MYK

MYQ-MYH

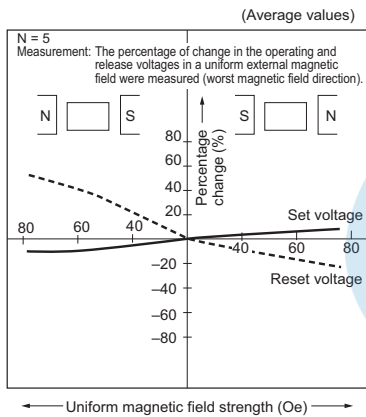
Common Options (Order Separately)

Common Precautions

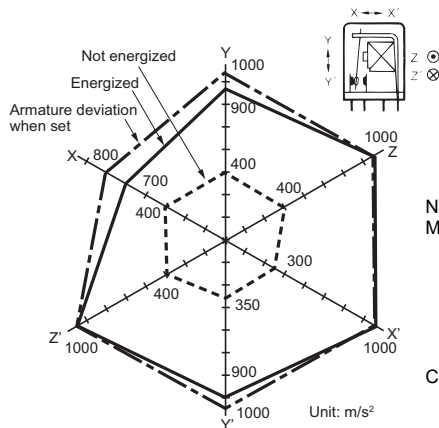
## Maximum Switching Capacity MY2K(-02)



## Magnetic Interference (External Magnetic Field) MY2K 24 VDC

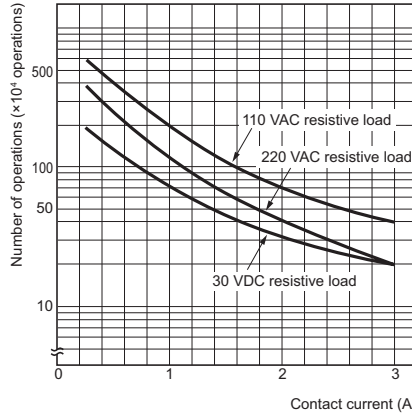


## Shock Malfunction MY2K 100 VAC

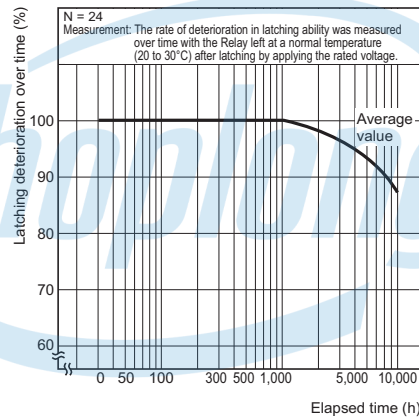


N = 20  
Measurement: Shock was applied in 6 directions along 3 axes 2 times with the Relay energized and 3 times with the Relay not energized to check the shock values that cause the Relay to malfunction.  
Criteria: Non-energized: 200 m/s<sup>2</sup>  
Energized: 200 m/s<sup>2</sup>

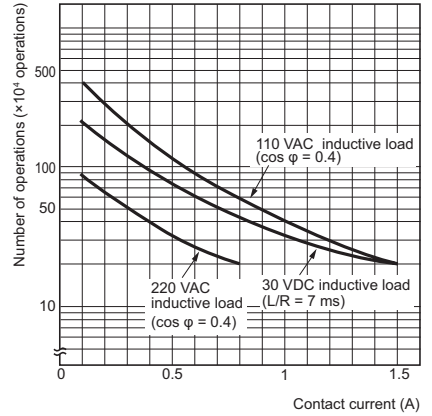
## Endurance Curve MYK(-02)



## Latching Deterioration Over Time MY2K 24 VDC



## MYK(-02)

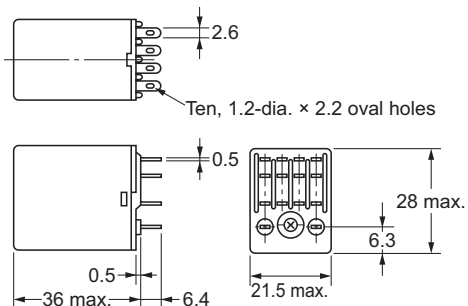
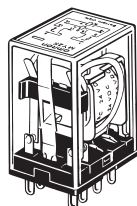


# Dimensions

(Unit: mm)

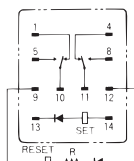
## ●Plug-in terminals

MY2K



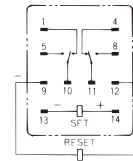
## Terminal Arrangement/ Internal Connection Diagram (Bottom View)

For AC



**Note:** R is a resistor for ampere-turn correction. Built into models with specifications of 50 VAC or more. (The coil has no polarity.)

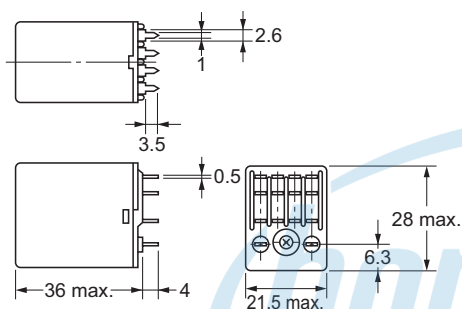
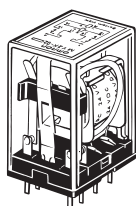
For DC



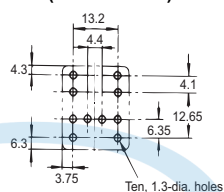
**Note:** Pay close attention to the set coil and reset coil polarities. If the connections are not correct, unintended operation may occur.

## ●PCB terminals

MY2K-02



## PCB Processing Dimensions (Bottom View)



**Note:** The dimensional tolerance is  $\pm 0.1$ .

INDUSTRIAL AUTOMATION

MY-GS-R

MY(S)

MYK

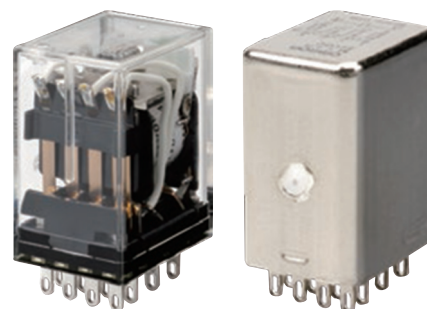
MYQ-MYH

Common Options (Order Separately)

Common Precautions

**Sealed relays that are tough in environments where dust or corrosive gases, etc., are present**

- Plastic sealed relays (MYQ) and hermetically sealed relays (MYH) that are resistant to effects from the surrounding environment
- Highly airtight structures that are tough in environments where corrosive gases such as chloride gas, sulfuric gas, and silicone gas are generated. They are also resistant to environments where salt damage is occurred and where dust is generated.
- Prevent relay contact failures via a highly airtight structure.






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



Refer to *Safety Precautions* on pages 62 to 63 and *Safety Precautions for All Relays*.

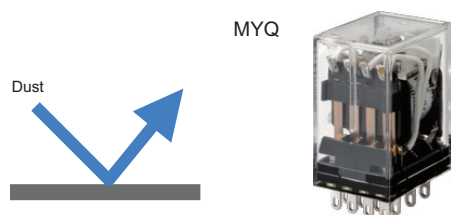
## Features

## Highly Airtight Relays (Plug-in Terminals)

Seal performance	Degree of protection	Typical relay	Features
High ↑   Low ↓	 Hermetically sealed	MYH	Sealing with metals, the glass case and base, etc. with inert gases (N2) inside makes it airtight structure which provides the external casing with durability against harmful corrosion, and prevents corrosive gases from intruding inside relays.
	 Plastic sealed	MYQ	Structure that seals relays with the resin case and cover, etc., to prevent effects from corrosive environments.
	 Closed type (cased)	MY, MY4Z-CBG	Relays in the case realize the structure that protects them from contact with foreign materials.

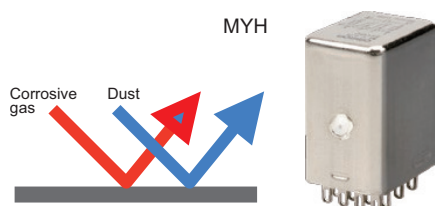
## Plastic Sealed Relays: MYQ

These realize excellent reliability even in environments where salt damage occurs or where dust is generated.



## Hermetically Sealed Relays: MYH

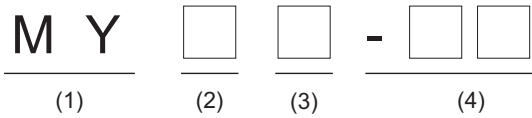
These realize excellent reliability even in environments where dust is generated or where corrosive gases (chloride gas, sulfuric gas, silicone gas, etc.) are present.





Model Number Structure

Model Number Legend



(1) Basic model name

MY: Miniature Power Sealed Relays

(3) Type

None: None  
N: With operation indicator\*  
\*Only MYQ (plastic sealed relay)

(2) Contacts/seals

Q4: 4-pole, single contacts, plastic sealed relays  
Q4Z: 4-pole, bifurcated contacts, plastic sealed relays  
4H: 4-pole, single contacts, hermetically sealed relays  
4ZH: 4-pole, bifurcated contacts, hermetically sealed relays

(4) Options, terminal type

None: Plug-in terminals  
02: Plastic sealed relays, PCB terminals  
0: Hermetically sealed relays, PCB terminals

Ordering Information

When your order, specify the rated voltage.

Plastic Sealed Relays

●Plug-in terminals

Classification	Number of poles	Contacts	Model	Rated voltage	With operation indicator	
					Model	Rated voltage
Standard models (compliant with Electrical Appliances and Material Safety Act)	4	Single	MYQ4	100/110, 110/120, 200/220, 220/240 VAC 24 VDC	MYQ4N	24, 100/110, 110/120, 200/220, 220/240 VAC
		Bifurcated	MYQ4Z	100/110, 110/120, 200/220 VAC 12, 24 VDC		12, 24, 48, 100/110 VDC

●PCB terminals

Classification	Number of poles	Contacts	Model	Rated voltage
Standard models (compliant with Electrical Appliances and Material Safety Act)	4	Single	MYQ4-02	50, 200/220, 220/240 VAC 24 VDC
		Bifurcated	MYQ4Z-02	100/110 VAC 24, 48 VDC

Hermetically Sealed Relays

●Plug-in terminals

Classification	Number of poles	Contacts	Model	Rated voltage
Standard models (compliant with Electrical Appliances and Material Safety Act)	4	Single	MY4H	24, 100/110, 110/120 VAC 12, 24, 48, 100/110 VDC
		Bifurcated	MY4ZH	24, 100/110, 110/120 VAC 12, 24, 48, 100/110 VDC

●PCB terminals

Classification	Number of poles	Contacts	Model	Rated voltage
Standard models (compliant with Electrical Appliances and Material Safety Act)	4	Single	MY4H-0	110/120 VAC 24 VDC
		Bifurcated	MY4ZH-0	24, 100/110 VDC

## Ratings and Specifications

### ●Operating coil

Rated voltage (V)		Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Must operate voltage (V)*1	Must release voltage (V)*2	Maximum voltage (V)	Power consumption (VA, W)
		50 Hz	60 Hz		Armature OFF	Armature ON				
AC	24	53.8	46	180	0.69	1.3	80% max.	30% min.	110% max. of rated voltage	Approx. 0.9 to 1.3 (at 60 Hz)
	100/110	11.7/12.9	10/11	3,750	14.54	24.6				
	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	91.07				
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4				
DC	12	75		165	0.734	1.37		10% min.		Approx. 0.9
	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	86.0				

- Note:** 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for AC rated current and ±15% for DC coil resistance.  
 2. The AC coil resistance and coil inductance values are for reference only.  
 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% maximum. To ensure operation, apply at least 80% of the rated value.  
 \*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

#### Plastic Sealed Relays: MYQ

Number of poles (contact configuration) Contact structure Load	4-pole (4PDT)	
	Single/bifurcated	
	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)
Rated load	1 A at 220 VAC 1 A at 24 VDC	0.5 A at 220 VAC 0.5 A at 24 VDC
Rated carry current	1 A	
Maximum switching voltage	250 VAC 125 VDC	
Maximum switching current	1 A	
Maximum switching power	220 VA 24 W	110 VA 12 W
Contact material	Au plating + Ag	

#### Hermetically Sealed Relays: MYH

Number of poles (contact configuration) Contact structure Load	4-pole (4PDT)			
	Single		Bifurcated	
	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)
Rated load	3 A at 110 VAC 3 A at 24 VDC	0.8 A at 110 VAC 1.5 A at 24 VDC	3 A at 110 VAC 3 A at 24 VDC	0.8 A at 110 VAC 1.5 A at 24 VDC
Rated carry current	3 A			
Maximum switching voltage	125 VAC 125 VDC			
Maximum switching current	3 A			
Maximum switching power	330 VA 72 W	88 VA 36 W	330 VA 72 W	88 VA 36 W
Contact material	Au plating + Ag			

Characteristics

Model		MYQ	MYH
Contact resistance*1		50 mΩ max.	
Operate time*2		20 ms max.	
Release time*2		20 ms max.	
Maximum switching frequency	Mechanical	18,000 operations/h	
	Rated load	1,800 operations/h	
Insulation resistance*3		100 MΩ min.	
Dielectric strength	Between coil and contacts	2,000 VAC at 50/60 Hz for 1 min	1,000 VAC at 50/60 Hz for 1 min
	Between contacts of different polarity	2,000 VAC at 50/60 Hz for 1 min	1,000 VAC at 50/60 Hz for 1 min
	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min	700 VAC at 50/60 Hz for 1 min
Vibration resistance	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)	
	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)	
Shock resistance	Destruction	1,000 m/s <sup>2</sup>	
	Malfunction	200 m/s <sup>2</sup>	
Endurance	Mechanical	Single contacts: AC: 50,000,000 operations min., DC: 100,000,000 operations min. Bifurcated contacts: 5,000,000 operations min., DC: 5,000,000 operations min. (switching frequency: 18,000 operations/h)	Single contacts: 50,000,000 operations min. Bifurcated contacts: 5,000,000 operations min. (switching frequency: 18,000 operations/h)
	Electrical*4	Single contacts: 200,000 operations min. Bifurcated contacts: 100,000 operations min. (at rated load, switching frequency: 1,800 operations/h)	Single contacts: 100,000 operations min. Bifurcated contacts: 50,000 operations min. (at rated load, switching frequency: 1,800 operations/h)
Failure rate P Level (reference value)*5		Single contacts: 1 mA at 1 VDC Bifurcated contacts: 100 μA at 1 VDC	Single contacts: 100 μA at 1 VDC Bifurcated contacts: 100 μA at 100 mVDC
Ambient operating temperature*6		-55 to 60°C	-25 to 60°C
Ambient operating humidity		5% to 85%	
Weight		Approx. 35 g	Approx. 50 g

**Note:** The data shown above are initial values.

\*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method.

\*2. Measurement conditions: With rated operating power applied, not including contact bounce.  
Ambient temperature condition: 23°C

\*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.

\*4. Ambient temperature condition: 23°C

\*5. This value was measured at a switching frequency of 120 operations per minute.

\*6. With no icing or condensation.

## Engineering Data (Reference Value)

MY-GS-R

MY(S)

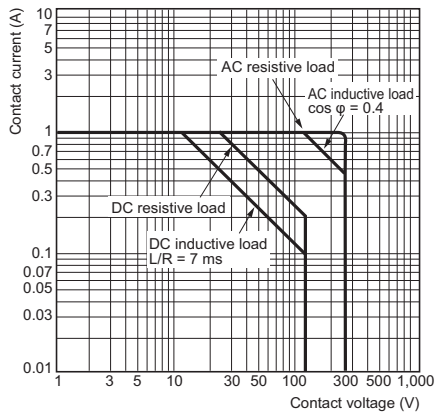
MYK

MYQ-MYH

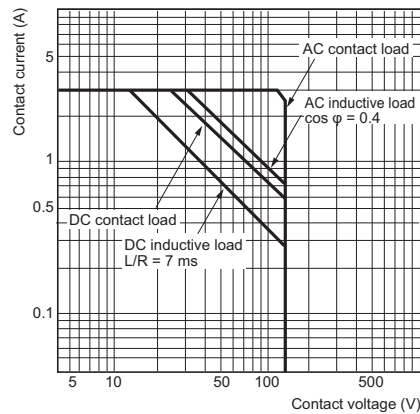
Common Options (Order Separately)

Common Precautions

### Maximum Switching Capacity MYQ4(Z)

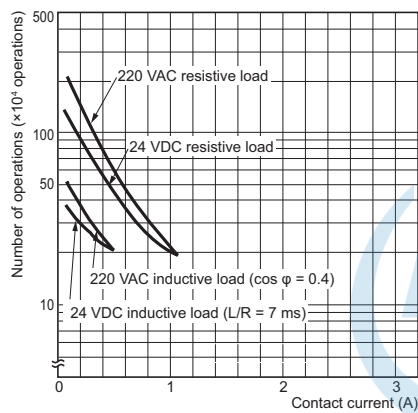


### MY4(Z)H

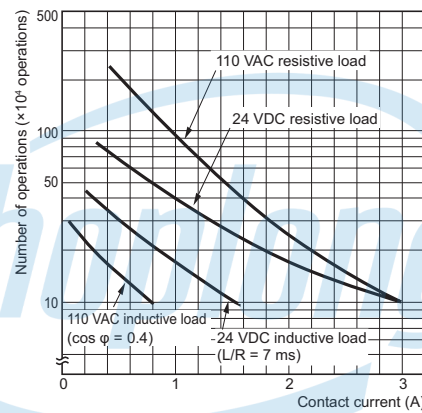


### Endurance Curve

#### MYQ4



#### MY4H

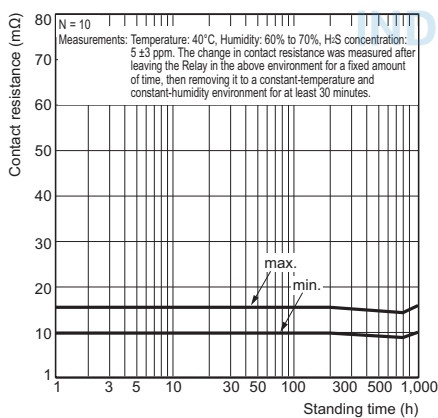


**Note:** The endurance of bifurcated contacts is one-half that of single contacts.

**Note:** The endurance of bifurcated contacts is one-half that of single contacts.

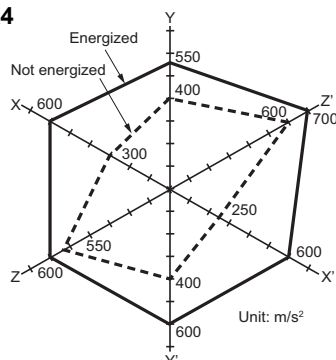
### H<sub>2</sub>S Gas Data

#### MYQ4



### Shock Malfunction

#### MYQ4



N = 20

Measurement: Shock was applied 3 times each in 6 directions along 3 axes with the Relay energized and not energized to check the shock values that cause the Relay to malfunction.

Criteria: Non-energized: 200 m/s<sup>2</sup>  
Energized: 200 m/s<sup>2</sup>

Shock direction



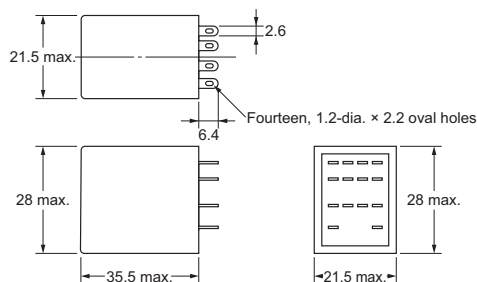
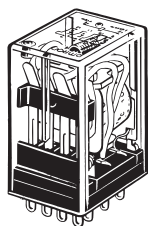
## Dimensions

(Unit: mm)

## ● Plug-in terminals

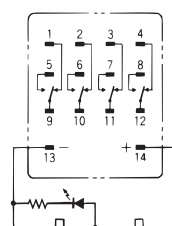
## Plastic Sealed Relays

## MYQ4(Z)(N)



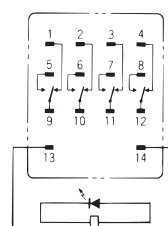
## MYQ4(Z)(N)

## DC Models



(Coil has polarity)

## AC Models

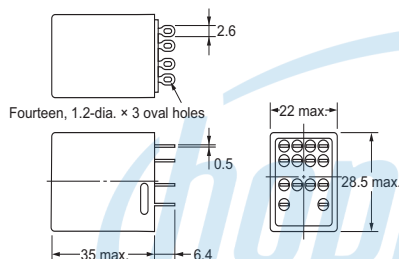
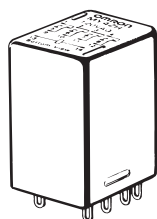
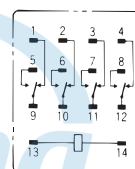


(Coil has no polarity)

- Note:**
1. An AC model has coil disconnection self-diagnosis.
  2. For the DC models, check the coil polarity when wiring and wire all connections correctly.

## Hermetically Sealed Relays

## MY4(Z)H

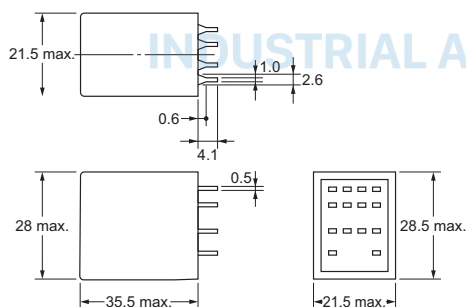
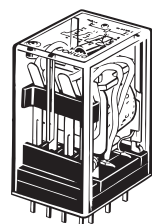
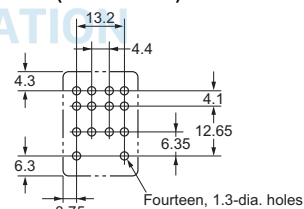
Terminal Arrangement/  
Internal Connection Diagram  
(Bottom View)  
MY4(Z)H

(Coil has no polarity)

## ● PCB terminals

## Plastic Sealed Relays

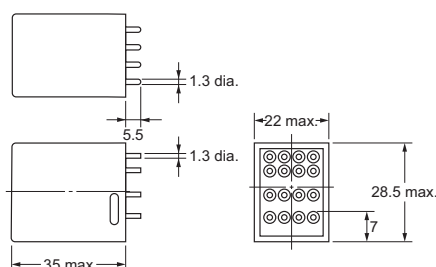
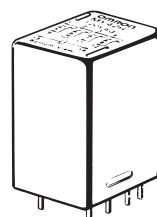
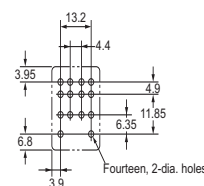
## MYQ4(Z)-02

PCB Processing Dimensions  
(Bottom View)

**Note:** The dimensional tolerance is  $\pm 0.1$ .

## Hermetically Sealed Relays




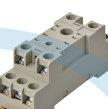


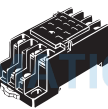
## MY4(Z)H-0

PCB Processing Dimensions  
(Bottom View)

## Common Options (Order Separately)

## Ordering Information

## Front-mounting Sockets

Applicable relay model*1	Mounting Method	Conductive part protection	Terminal Type	Applicable crimp terminal/ Electric wire	Appearance	Model	Hold-down Clips/ Release Levers (Order Separately)
MY2□ MY2□(S) MY2Z□-CR	Mounted on a DIN track or with screws	Available	Push-In Plus Terminal	Ferrules Solid wire Stranded wire		<b>PYF-08-PU*2</b> * MY2Z□-CR, MY2□-CR 24 VAC cannot be used	With release lever * Hold by release lever
						<b>PYF-08-PU-L*2</b>	
			Screw terminal (M3 screw size)	Forked terminals Solid wire Stranded wire		<b>PYFZ-08-E*4</b>	MY2□: PYC-A1 MY2IN(S): PYC-E1 MY2Z□-CR, MY2□-CR 24 VAC: Y92H-3
						<b>PYF08A-N</b>	
		Option (Terminal cover sold separately) *3		Round terminals Forked terminals Solid wire Stranded wire		<b>PYFZ-08</b> * Terminal cover: PYCZ-C08	
	Mounted on a DIN track	Available	Screwless terminal (Clamp method)	Solid wire Stranded wire		<b>PYF08S</b>	PYCM-08S * MY2Z□-CR, MY2□-CR 24 VAC cannot be used * Hold by release lever
MY3□	Mounted on a DIN track or with screws	None	Screw terminal (M3 screw size)	Round terminals Forked terminals Solid wire Stranded wire		<b>PYF11A</b>	PYC-A1

\*1. The applicable relay model is a plug-in terminal type.

\*2. There are screw mounting holes in the DIN hooks on the PYF-□□-PU and P2RF-□□-PU. Pull out the DIN hook tabs to mount the Sockets with screws.

\*3. Terminal cover type is PYCZ-C08. (Order Separately) For details, refer to the *For Screw Terminal Sockets (PYFZ-08/PYFZ-14) Terminal covers* on page 50.

\*4. The finger-protection type (PYFZ-□-E) is a type in which the terminal cover is integrated into the socket. Round terminals cannot be used. Use forked terminals or ferrules instead.

MY-GS-R

MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions



MY-GS-R




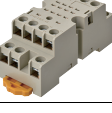
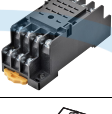
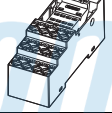
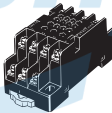


MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions

Applicable relay model*1	Mounting Method	Conductive part protection	Terminal Type	Applicable crimp terminal/ Electric wire	Appearance	Model	Hold-down Clips/ Release Levers (Order Separately)
MY4□ MY4□(S) MY4□H MYQ4□ MY4Z□-CBG-CR MY2K	Mounted on a DIN track or with screws	Available	Push-In Plus Terminal	Ferrules Solid wire Stranded wire		<b>PYF-14-PU*2</b> * MY4ZN-CBG-CR, MY4-CR 24 VAC, MY4N-CR 24 VAC/115 VAC cannot be used	With release lever * Hold by release lever
						<b>PYF-14-PU-L*2</b>	
		Option (Terminal cover sold separately) *3	Screw terminal (M3 screw size)	Forked terminals Solid wire Stranded wire		<b>PYFZ-14-E*4</b>	MY4Z□-CBG-CR, MY4-CR 24 VAC, MY4N-CR 24 VAC/115 VA: Y92H-3 Other than those above: PYC-A1
						<b>PYF14A-N</b>	
	Mounted on a DIN track	Available	Screwless terminal (Clamp method)	Solid wire Stranded wire		<b>PYFZ-14</b> * Terminal cover: PYCZ-C14	
	Mounted on a DIN track or with screws	None	Screw terminal (M3.5 screw size)	Round terminals Forked terminals Solid wire Stranded wire		<b>PYF14S</b>	PYCM-14S * MY4Z□-CBG-CR, MY4-CR 24 VAC, MY4N-CR 24 VAC/115 VAC cannot be used * Hold by release lever
MY2 and MY4	Mounted on a DIN track or with screws	Available	Rise-Up terminal	Solid wire Stranded wire		<b>PYF14T</b>	MY4Z□-CBG-CR: Y92H-3 Other than those above: PYC-A1
						<b>PYF14-ESS-B</b>	PYC-35-B
						<b>PYF14-ESN-B</b>	


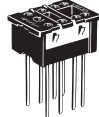


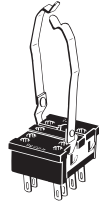
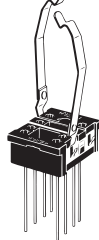
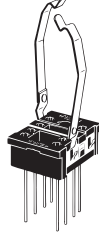
\*1. The applicable relay model is a plug-in terminal type.

\*2. There are screw mounting holes in the DIN hooks on the PYF-□□-PU and P2RF-□□-PU. Pull out the DIN hook tabs to mount the Sockets with screws.

\*3. Terminal cover type is PYCZ-C14. (Order Separately) For details, refer to the *For Screw Terminal Sockets (PYFZ-08/PYFZ-14) Terminal covers* on page 50.

\*4. The finger-protection type (PYFZ-□-E) is a type in which the terminal cover is integrated into the socket. Round terminals cannot be used. Use forked terminals or ferrules instead.

## Back-mounting Sockets

Applicable relay model*1	Terminal Type	Hold-down Clips	Appearance	Model
MY2□ MY2□(S) MY2Z□-CR	Solder terminals	Accessories (Order Separately) * MY2Z□-CR: PYC-1 Other than those above: PYC-P		PY08
	Wrapping terminals Terminal length: 25 mm			PY08QN
	Wrapping terminals Terminal length: 20 mm			PY08QN2
	PCB terminals			PY08-02
MY2□ MY2□(S)	Solder terminals	With Hold-down Clips*2		PY08-Y1
	Wrapping terminals Terminal length: 25 mm			PY08QN-Y1
	Wrapping terminals Terminal length: 20 mm			PY08QN2-Y1

\*1. The applicable relay model is a plug-in terminal type.

\*2. The hold-down clips for connecting the relay and socket come as a set with the socket.

MY-GS-R


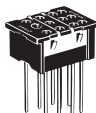
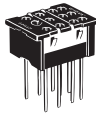





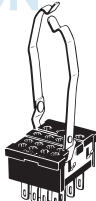
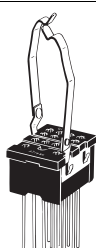
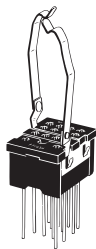
MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions

MY-GS-R		MY(S)		MYK	MYQ-MYH	Common Options (Order Separately)	Common Precautio
Applicable relay model*1	Terminal Type	Hold-down Clips	Appearance				
MY3□	Solder terminals	Accessories (Order Separately) * PYC-P		PY11			
	Wrapping terminals Terminal length: 25 mm	Accessories (Order Separately) * PYC-P		PY11QN			
	Wrapping terminals Terminal length: 20 mm	Accessories (Order Separately) * PYC-P		PY11QN2			
	PCB terminals	Accessories (Order Separately) * PYC-P		PY11-02			
MY4□ MY4□(S) MY4□H MYQ4□ MY4Z□-CBG-CR MY2K	Solder terminals	Accessories (Order Separately) * MY4Z□-CBG-CR: PYC-1 Other than those above: PYC-P		PY14			
	Wrapping terminals Terminal length: 25 mm			PY14QN			
	Wrapping terminals Terminal length: 20 mm			PY14QN2			
	PCB terminals			PY14-02			
	Solder terminals	With Hold-down Clips*2		PY14-Y1			
	Wrapping terminals Terminal length: 25 mm			PY14QN-Y1			
	Wrapping terminals Terminal length: 20 mm			PY14QN2-Y1			

\*1. The applicable relay model is a plug-in terminal type.

\*2. The hold-down clips for connecting the relay and socket come as a set with the socket.

## Hold-down Clip

Appearance*1	Model*2	Weight*3	Application
	PYC-A1	Approx. 0.54 g	For connecting relays and sockets
	PYC-E1	Approx. 0.6 g	
	PYC-P	Approx. 1.4 g	
	PYC-S	Approx. 1.8 g	For connecting sockets, socket mounting plates, and relays
	Y92H-3*4	Approx. 0.7 g	For connecting models with built-in CR circuit for coil surge absorption (MY2Z□-CR) and sockets
	PYC-1*5	Approx. 6 g	

\*1. The appearance shown is one in which the relay, socket, and hold-down clip are assembled.

\*2. Hold-down clips are used in sets of two. However, PYC-P and PYC-1.

\*3. The weight shown above is the weight for one hold-down clip.

\*4. MY2-CR 24 VAC, MY2N-CR 24 VAC, MY4-CR 24 VAC and MY4N-CR 24 VAC/115 VAC use in combination with hold-down clip Y92H-3.

\*5. MY2-CR 24 VAC, MY2N-CR 24 VAC, MY4-CR 24 VAC and MY4N-CR 24 VAC/115 VAC use in combination with hold-down clip PYC-1.

MY-GS-R

MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions

MY-GS-R

MY(S)

MYK

MYQ-MYH

## ●Front-connecting Socket Accessories

For Push-In Plus Terminal Sockets (PYF-08-PU(-L)/PYF-14-PU(-L))

### Short Bars

Applicable sockets	Pitch	Application	Shape/external dimensions	Number of poles	L (Length)	Insulation color	Model*1
PYF-08-PU(-L) PYF-14PU(-L)	7.75 mm	Bridging contact terminals (common)		2	15.1	Red (R) Blue (S) Yellow(Y)	PYDN-7.75-020□
				3	22.85		PYDN-7.75-030□
				4	30.6		PYDN-7.75-040□
				20	154.6		PYDN-7.75-200□
	31.0 mm	For Coil terminals		8	224.35		PYDN-31.0-080□

\*1. Replace the box (□) in the model number with the code for the covering color. □Color selection: R = Red, S = Blue, Y = Yellow

### Labels

Applicable sockets	Model	Manufacturer	Minimum order (Box) (quantity per box)
PYF-08-PU(-L) PYF-14PU(-L)	MG-CPM-04 41390N	Cembre	1,680 (35 sheet / 48 pieces)

Note: PRINTER: MARKINGENIUS MG3 (Ask to your Omron contact for more details on printers)

## For Screwless Terminal Sockets (PYF08S/PYF14S)

### Short Bars

Applicable sockets	Pitch	Application	Shape/external dimensions	Number of poles	Insulation color	Model*1
PYF08S	19.7 mm	For bridging coils between sockets		2	Red (R) Blue (B)	PYDM-08S□ (50 pcs./bag)
PYF14S	27.5 mm			2		PYDM-14S□ (50 pcs./bag)

\*1. Replace the box (□) in the model number with the code for the covering color. □Color selection: R = Red, B = Blue

### Labels

Applicable sockets	Model
PYF08S	R99-11 (100 pcs./bag)
PYF14S	

## Release Levers

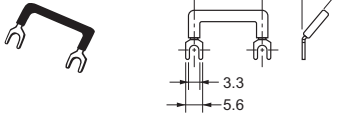
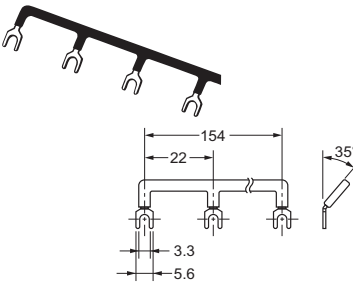
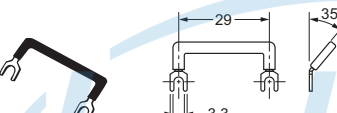
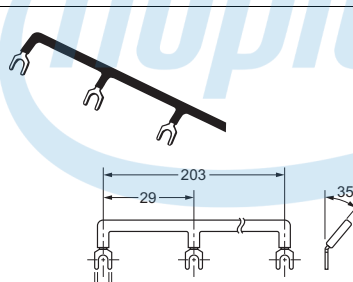
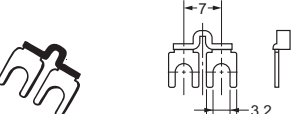
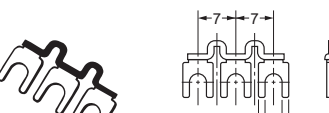
Applicable sockets	Shape/external dimensions	Model
PYF08S		PYCM-08S
PYF14S		PYCM-14S

Common Options (Order Separately)

Common Precautions

## For Screw Terminal Sockets (PYFZ-08/PYFZ-14)

## Short Bars

Applicable sockets	Pitch	Application	Shape/external dimensions	Number of poles	Insulation color	Model*1
PYFZ-08	22 mm	For bridging adjacent sockets		2	B (Black) S (Blue) R (Red)	PYD-025B□ (2P) (10 pcs./bag)
				8		PYD-085B□ (8P) (10 pcs./bag)
PYFZ-14	29 mm	For bridging adjacent sockets		2	B (Black) S (Blue) R (Red)	PYD-026B□ (2P) (10 pcs./bag)
				8		PYD-086B□ (8P) (10 pcs./bag)
	7 mm	For bridging with the same socket		2		PYD-020B□ (2P) (50 pcs./bag)
				3		PYD-030B□ (3P) (10 pcs./bag)

\*1. Replace the box (□) in the model number with the code for the covering color.

MY-GS-R

MY(S)

MYK

MYQ-MYH

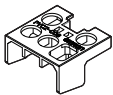
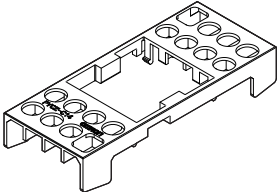
Common Options (Order Separately)

Common Precautions



For Screw Terminal Sockets (PYFZ-08/PYFZ-14)

Terminal covers

Applicable sockets	Appearance	Model
PYFZ-08		PYCZ-C08 (2 pcs/set)
PYFZ-14		PYCZ-C14 (1 pcs/set)

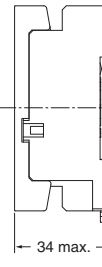
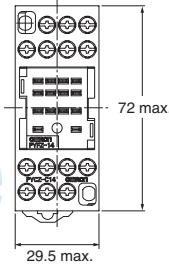
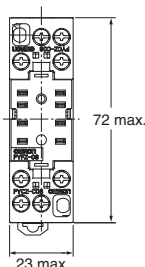
Note: These covers cannot be used for PYF08A and PYF14A.

Dimensions with terminal cover



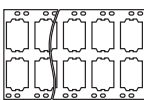
(Unit: mm)

PYCZ-C08

PYCZ-C14





Socket Mounting Plates (For Back-connecting Socket PY□/Solder Terminals, PY□QN(2)/Wrapping Terminals)

Applicable Sockets		Socket Mounting Plates		
Model	Models with hold-down clips	Appearance	Number of sockets	Model
PY08 PY08QN PY08QN2 PY11 PY11QN PY11QN2 PY14 PY14QN PY14QN2	PY08-Y1 PY08QN-Y1 PY08QN2-Y1 PY14-Y1 PY14QN-Y1 PY14QN2-Y1		1	PYP-1
			18	PYP-18*
			36	PYP-36*

\*You can cut the PYP-18 and PYP-36 to any required length.

Parts for Track Mounting

Type	Appearance	Model
DIN Tracks	1 m	PFP-100N
	0.5 m	PFP-50N
End Plate*		PFP-M
Spacer		PFP-S

Note: The track conforms to DIN standards.

\*When mounting DIN track, please use End Plate (Model PFP-M).

## Ratings and Specifications

### Characteristics

#### Sockets

Model	Connection	Number of pins	Terminal Type	Ambient operating temperature	Ambient operating humidity	Continuous carry current	Dielectric strength			Insulation resistance *1	Weight											
							Between contact terminals of same polarity	Between contact terminals of different polarity	Between coil and contact terminals													
PYF-08-PU	Front	8	Push-In Plus Terminal	-40 to 70°C	5% to 85%	10 A*2	2,000 VAC for 1 min	2,000 VAC for 1 min	2,000 VAC for 1 min	1,000 MΩ min. (500 VAC)	Approx. 80 g											
PYF08S			Screwless terminal	-55 to 70°C		10 A	2,250 VAC for 1 min	2,250 VAC for 1 min	2,250 VAC for 1 min		Approx. 46 g											
PYFZ-08			Screw terminal								-55 to 55°C	7 A*3	2,000 VAC for 1 min	2,000 VAC for 1 min	2,000 VAC for 1 min	Approx. 32 g						
PYFZ-08-E				Approx. 32 g																		
PYF08A-N		11	Screw terminal	-55 to 70°C		5 A	2,000 VAC for 1 min	2,000 VAC for 1 min	2,000 VAC for 1 min		Approx. 32 g											
PYF11A											Approx. 43 g											
PYF-14-PU		14	Push-In Plus Terminal	-40 to 70°C		6 A	2,000 VAC for 1 min	2,000 VAC for 1 min	2,000 VAC for 1 min		Approx. 87 g											
PYF14S			Screwless terminal	-55 to 70°C		5 A	2,250 VAC for 1 min	2,250 VAC for 1 min	2,250 VAC for 1 min		Approx. 62 g											
PYFZ-14			Screw terminal			-55 to 55°C					6 A	2,250 VAC for 1 min	2,250 VAC for 1 min	2,250 VAC for 1 min	Approx. 50 g							
PYFZ-14-E				Approx. 50 g																		
PYF14A-N			5 A*3	2,000 VAC for 1 min		2,000 VAC for 1 min	2,000 VAC for 1 min	2,000 VAC for 1 min	Approx. 50 g													
PYF14T									3 A		2,000 VAC for 1 min	2,000 VAC for 1 min	2,000 VAC for 1 min	Approx. 53 g								
PY08	Back	8	Solder terminals	-55 to 70°C	5% to 85%	7 A	1,500 VAC for 1 min	1,500 VAC for 1 min	1,500 VAC for 1 min	100 MΩ min.	Approx. 8 g											
PY08-Y1			Wrapping terminals (Terminal length: 25 mm)								5 A	1,500 VAC for 1 min	1,500 VAC for 1 min	1,500 VAC for 1 min	100 MΩ min.	Approx. 9 g						
PY08QN																Wrapping terminals (Terminal length: 20 mm)	Approx. 12 g					
PY08QN-Y1			PCB terminals														Approx. 13 g					
PY08QN2																11	Solder terminals	5 A	1,500 VAC for 1 min	1,500 VAC for 1 min	1,500 VAC for 1 min	100 MΩ min.
PY08QN2-Y1			Wrapping terminals (Terminal length: 25 mm)														Approx. 12 g					
PY08-02		Wrapping terminals (Terminal length: 20 mm)	Approx. 7 g																			
PY11		PCB terminals	Approx. 9 g																			
PY11QN		14	Solder terminals			3 A	1,500 VAC for 1 min	1,500 VAC for 1 min	1,500 VAC for 1 min	100 MΩ min.	Approx. 13 g											
PY11QN2			Wrapping terminals (Terminal length: 25 mm)								Approx. 12 g											
PY11-02			Wrapping terminals (Terminal length: 20 mm)								Approx. 8 g											
PY14			PCB terminals								Approx. 10 g											
PY14-Y1		14	Solder terminals			3 A	1,500 VAC for 1 min	1,500 VAC for 1 min	1,500 VAC for 1 min	100 MΩ min.	Approx. 11 g											
PY14QN			Wrapping terminals (Terminal length: 25 mm)								Approx. 14 g											
PY14QN-Y1											Wrapping terminals (Terminal length: 20 mm)	Approx. 15 g										
PY14QN2			Approx. 13 g																			
PY14QN2-Y1		14	Wrapping terminals (Terminal length: 20 mm)			3 A	1,500 VAC for 1 min	1,500 VAC for 1 min	1,500 VAC for 1 min	100 MΩ min.	Approx. 14 g											
PY14-02			PCB terminals								Approx. 9 g											

Model	Connection	Number of pins	Terminal Type	Continuous carry current	Dielectric strength	Insulation resistance *1
PYF14-ESS-B	Front	14	Rise-Up terminal	12 A	>3 kV	>5 MΩ
PYF14-ESN-B						

\*1. For 500 VDC applied to the same location as for dielectric strength measurement.

\*2. The carrying current of 10 A is for an ambient temperature of 55°C or below. At an ambient temperature of 70°C, the value is 7 A.

\*3. When using the PYF08A-N or PYF14A-N at an ambient operating temperature exceeding 40°C, reduce the continuous carry current to 60%.

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MYQ-MYH

Common Options (Order Separately)

Common Precautions

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## Socket Accessories

### ●For Front-connecting Sockets

#### Short Bars

Application	Applicable sockets	Model	Maximum carry current	Ambient operating temperature	Ambient operating humidity
	PYF-08-PU(-L) PYF-14-PU(-L)	PYDN-7.75-020□	20 A	-40 to 70°C	5% to 85%
		PYDN-7.75-030□			
		PYDN-7.75-040□			
		PYDN-7.75-200□			
Bridging contact terminals (common)	PYFZ-08	PYD-025B□	20 A (However, 18 A when 70°C)	-40 to 70°C (with no icing or condensation)	45% to 85% (with no icing or condensation)
		PYD-085B□			
	PYFZ-14	PYD-026B□			
		PYD-086B□			
For Coil terminals	PYF-08-PU(-L) PYF-14-PU(-L)	PYDN-31.0-080□	20 A	-40 to 70°C	5% to 85%
		PYF08S	10 A	-40 to 70°C	5% to 85%
	PYF14S	PYDM-08S□	10 A	-40 to 70°C	5% to 85%
		PYDM-14S□	10 A	-40 to 70°C	5% to 85%

MY(S)

## Certified Standards

### ●CSA certification (File No. LR031928)

Model	Ratings	Class number	Standard number
PYF-08-PU(-L)	10 A, 250 V	3211 07	CSA C22.2 No14
PYF-14-PU(-L)	6 A, 250 V*		
PYF08S	10 A, 250 V		
PYF14S	5 A, 250 V		
PYFZ-08(-E)	10 A, 250 V		
PYFZ-14(-E)	6 A, 250 V		
PY□ PYF□A	7 A, 250 V		

\*When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

MYK

### ●UL certification (File No. E87929)

Model	Ratings	Standard number	Category	Listed/Recognized
PYF-08-PU(-L)	10 A, 250 V	UL508	SWIV2	Recognition
PYF-14-PU(-L)	6 A, 250 V*			
PYF08S PYF14S	10 A, 250 V			
PYFZ-08(-E)	10 A, 250 V			
PYFZ-14(-E)	6 A, 250 V			
PY□ PYF□A	7 A, 250 V			

\*When power is supplied to all four poles, use with a total power current that does not exceed 20 A.

MYQ-MYH

### ●TÜV Rheinland certification

Model	Ratings	Standard number	Certification No.
PYF-08-PU(-L)	10 A, 250 V*	EN 61984	R50327595
PYF-14-PU(-L)	6 A, 250 V		R50405329
PYFZ-08(-E)	10 A, 250 V		
PYFZ-14(-E)	6 A, 250 V		

\*Ratings are for an ambient temperature of 55°C or below. At an ambient temperature of 70°C, the value is 7 A.

Common Options (Order Separately)

### ●VDE certification

Model	Standard number	Certification No.
PYF08S PYF14	VDE0627 (EN61984)	40015509

### ●Others

Model	Standards	File No.
PYF14-ESN-B PYF14-ESS-B	UL508 CSA22.2	E244189 LR225761

Common Precautions

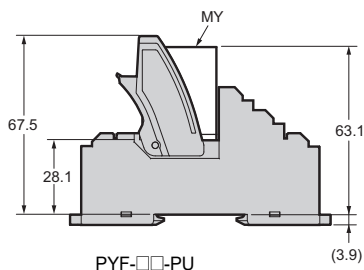
## Dimensions

(Unit: mm)

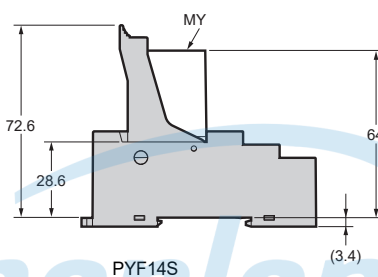
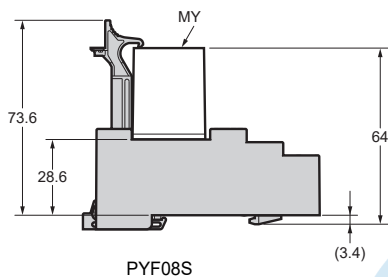
### Height with Socket

#### ●Front-connecting Sockets

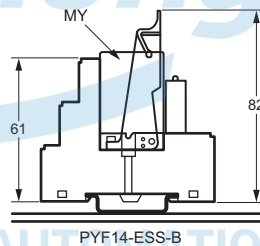
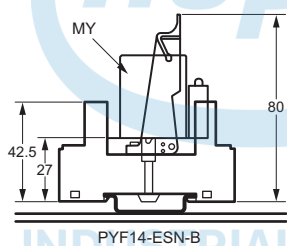
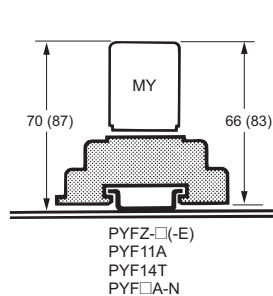
- Push-In Plus Terminal (PYF-□-PU)



- Screwless terminal (PYF08S, PYF14S)



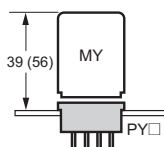
- Screw terminal (PYFZ-□(-E), PYF11A, PYF14T, PYF□A-N, PYF14-ES□-B)



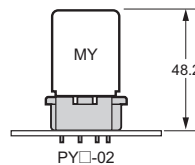
**Note:** 1. The PYF11A can be mounted on a track or with screws.  
2. The heights given in parentheses are the measurements for 53-mm-high Relays.

#### ●Back-connecting Sockets

- Solder terminals/wrapping terminals (PY□)



- PCB terminals (PY□-02)



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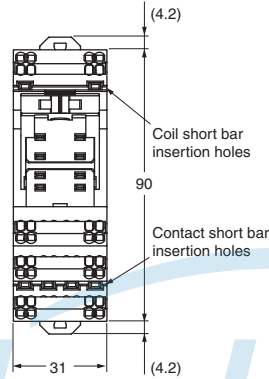
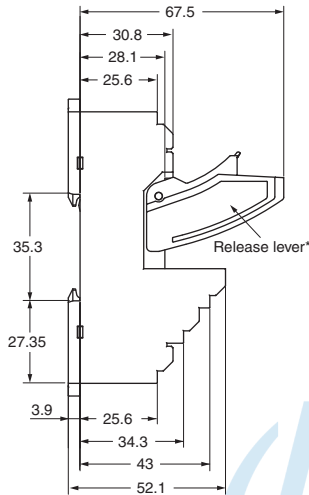
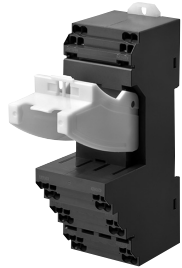
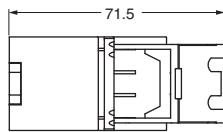
Common Options (Order Separately)

Common Precautions

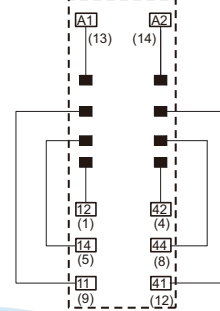
## Front-connecting Sockets

### ●Push-In Plus Terminal

PYF-08-PU(-L)

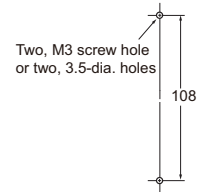


Terminal Arrangement/Internal Connection Diagram  
(Top View)



**Note:** The numbers in parentheses are traditionally used terminal numbers.

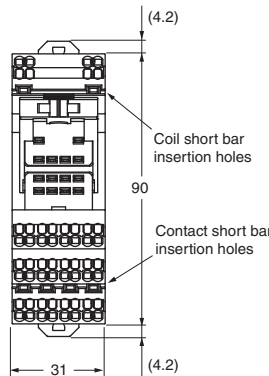
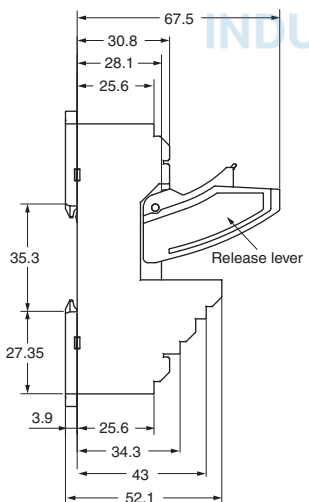
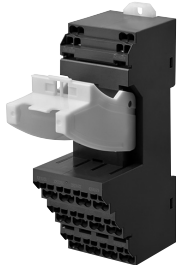
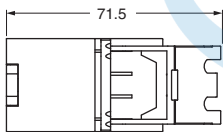
Mounting Hole Dimensions



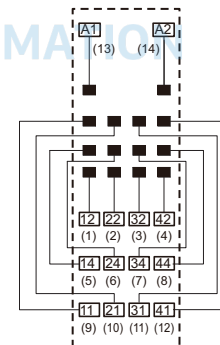
**Note:** Pull out the hooks to mount the Socket with screws.

\* The PYF-08-PU-L Sockets do not have release levers.

PYF-14-PU(-L)

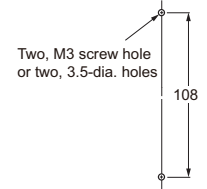


Terminal Arrangement/Internal Connection Diagram  
(Top View)



**Note:** The numbers in parentheses are traditionally used terminal numbers.

Mounting Hole Dimensions



**Note:** Pull out the hooks to mount the Socket with screws.

\* The PYF-14-PU-L Sockets do not have release levers.

MY-GS-R

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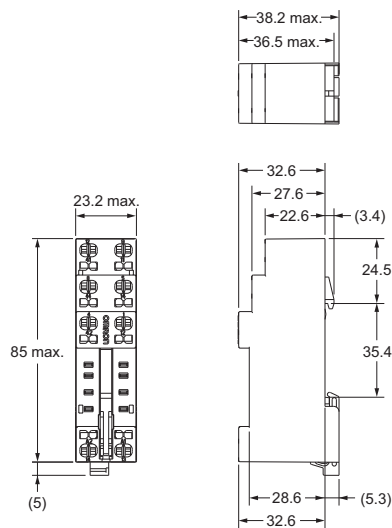
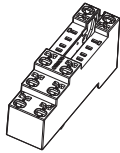
MYQ-MYH

Common Options (Order Separately)

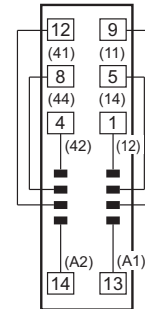
Common Precautions

●Screwless terminal

PYF08S



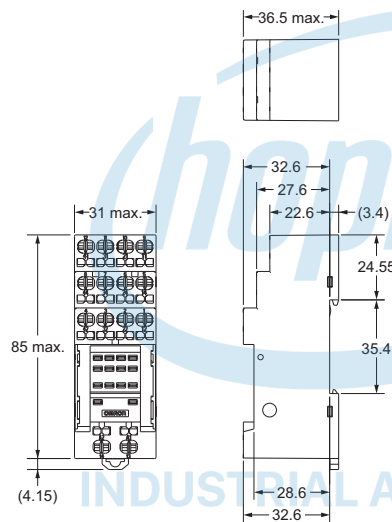
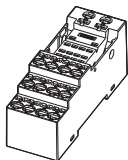
Terminal Arrangement/Internal Connection Diagram



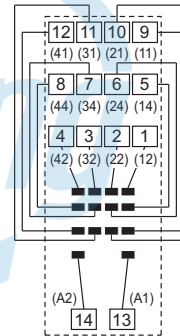
(Top View)

**Note:** The number shown in parentheses is the DIN standard.

PYF14S



Terminal Arrangement/Internal Connection Diagram



(Top View)

**Note:** The number shown in parentheses is the DIN standard.

MY-GS-R

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MYQ-MYH

Common Options (Order Separately)

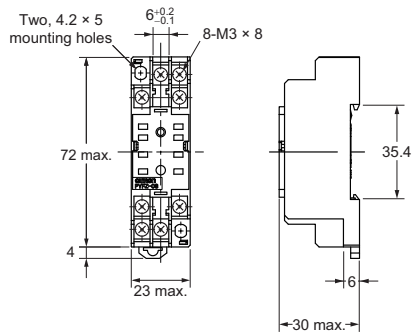
Common Precautions

MY-GS-R

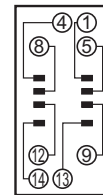
### Front-connecting Sockets

#### ●Screw terminal

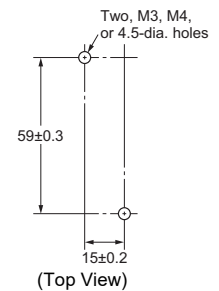
#### PYFZ-08



Terminal Arrangement/  
Internal Connection Diagram



Mounting Hole Dimensions

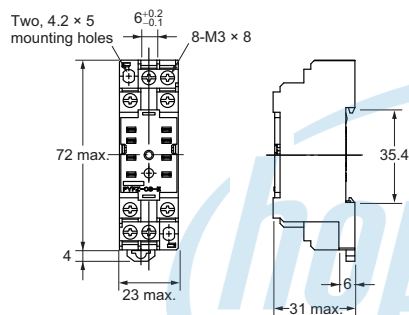


**Note:** Track mounting is also possible.

MY(S)

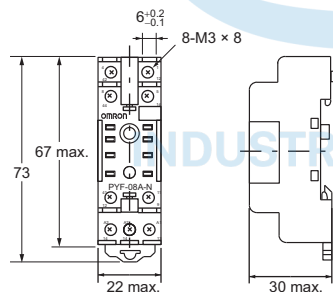
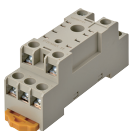
#### PYFZ-08-E

(Finger-protection structure)



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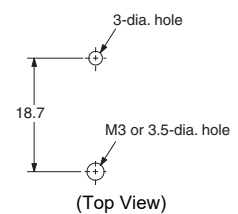
#### PYF08A-N



Terminal Arrangement/  
Internal Connections



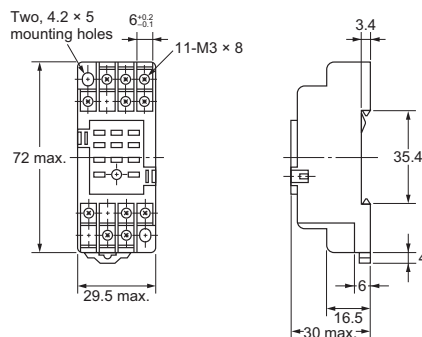
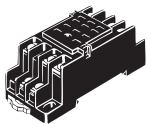
Mounting Hole Dimensions



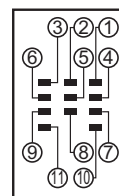
**Note:** Mounts to DIN Track.

MYQ-MYH

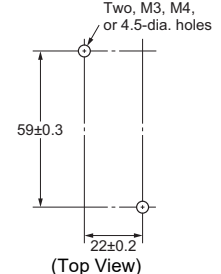
#### PYF11A



Terminal Arrangement/Internal  
Connection Diagram



Mounting Hole Dimensions



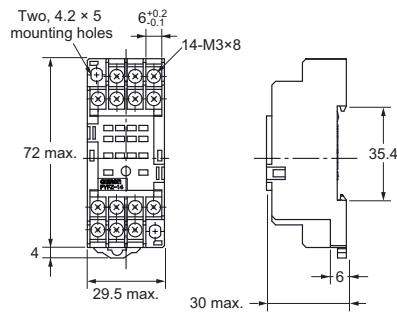
**Note:** Track mounting is also possible.

Common Options (Order Separately)

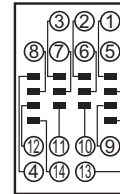
Common Precautions



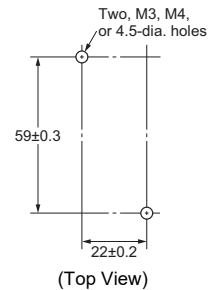
### PYFZ-14



Terminal Arrangement/Internal Connection Diagram

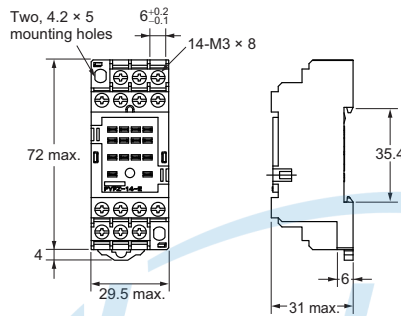


Mounting Hole Dimensions

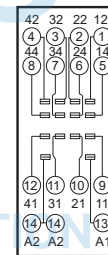


**Note:** Track mounting is also possible.

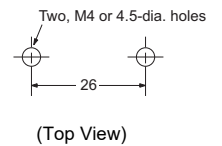
### PYFZ-14-E (Finger-protection structure)



Terminal Arrangement/Internal Connections

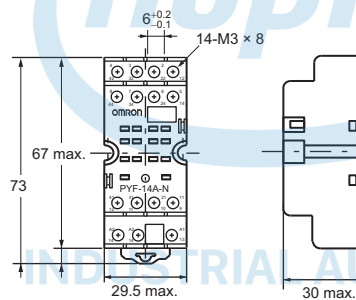


Mounting Hole Dimensions

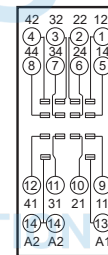


**Note:** Mounts to DIN Track.

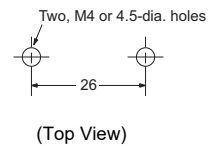
### PYF14A-N



Terminal Arrangement/Internal Connections

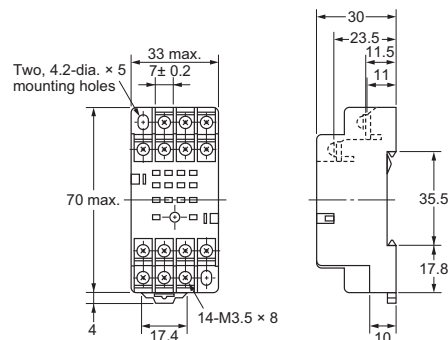
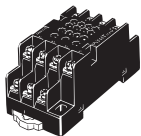


Mounting Hole Dimensions

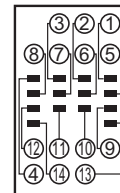


**Note:** Mounts to DIN Track.

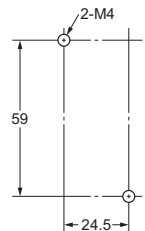
### PYF14T



Terminal Arrangement/Internal Connection Diagram

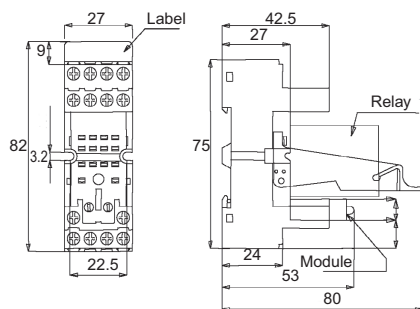


Mounting Hole Dimensions

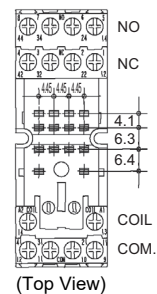


MY-GS-R

PYF14-ESN-B



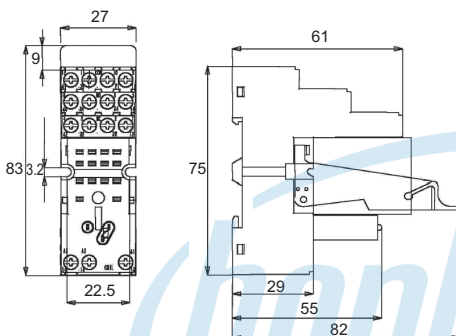
Terminal arrangement/  
Internal connections/  
mounting holes



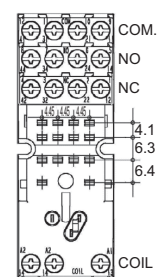
(Top View)

MY(S)

PYF14-ESS-B



Terminal arrangement/  
Internal connections/  
mounting holes



(Top View)

MYK

MYQ-MYH

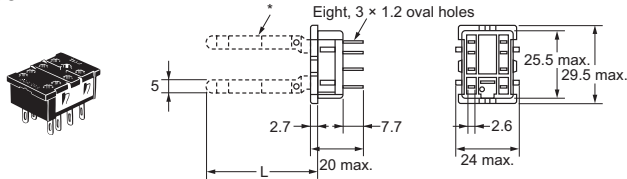
Common Options (Order Separately)

Common Precautions

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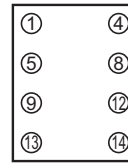
**Back-connecting Socket**  
● **Solder terminals**

**PY08**



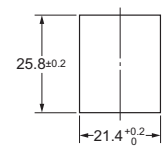
\*PY08-Y□ includes the portion indicated by broken line.

Terminal Arrangement/Internal Connection Diagram

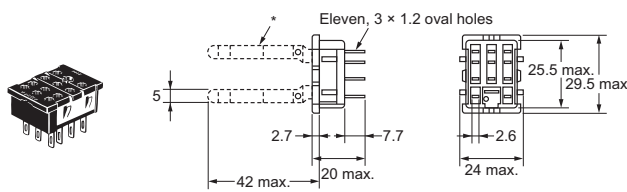


(Bottom View)

Mounting Hole Dimensions



**PY11**



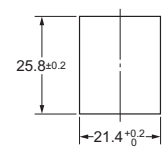
\*PY11-Y1 includes the portion indicated by broken line.

Terminal Arrangement/Internal Connection Diagram

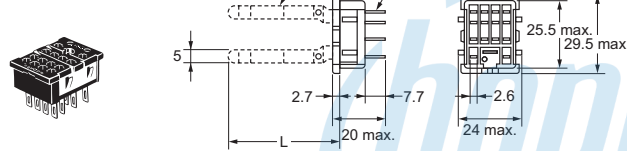


(Bottom View)

Mounting Hole Dimensions

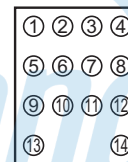


**PY14**  
**PY14-Y1**



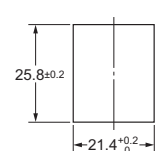
\*PY14-Y□ includes the portion indicated by broken line.

Terminal Arrangement/Internal Connection Diagram



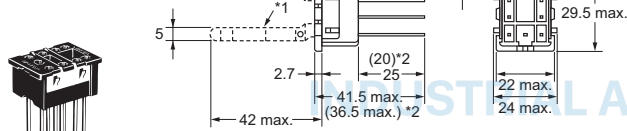
(Bottom View)

Mounting Hole Dimensions



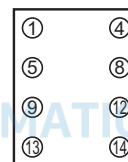
● **Wrapping terminals**

**PY08QN**  
**PY08QN2**



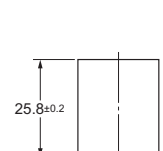
\*1. PY08QN(2)-Y1 includes the portion indicated by broken line.  
\*2. Dimensions in parentheses are for PY08QN2(-Y1).

Terminal Arrangement/Internal Connection Diagram

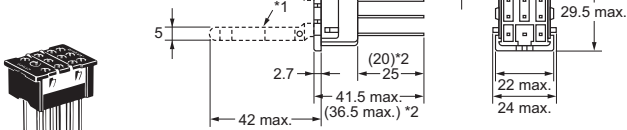


(Bottom View)

Mounting Hole Dimensions

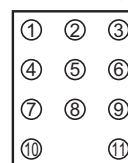


**PY11QN**  
**PY11QN2**



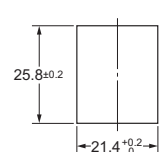
\*1. PY11QN(2)-Y1 includes the portion indicated by broken line.  
\*2. Dimensions in parentheses are for PY11QN2(-Y1).

Terminal Arrangement/Internal Connection Diagram

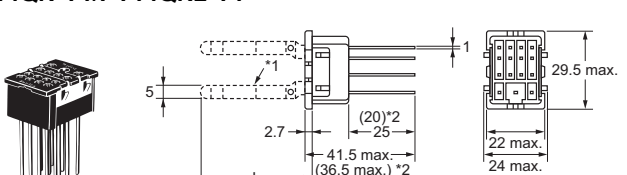


(Bottom View)

Mounting Hole Dimensions

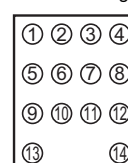


**PY14QN/PY14QN2**  
**PY14QN-Y1/PY14QN2-Y1**



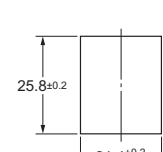
\*1. PY14QN-Y□ and PY14QN2-Y□ include the portion indicated by broken line.  
\*2. Dimensions in parentheses are for PY14QN2(-Y□).

Terminal Arrangement/Internal Connection Diagram



(Bottom View)

Mounting Hole Dimensions

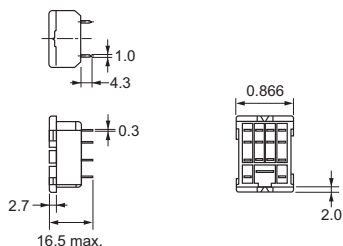


MY-GS-R

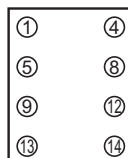
### ●PCB terminals

#### PY08-02

• This is not a flux-tight structure. We recommend manual soldering for this product.

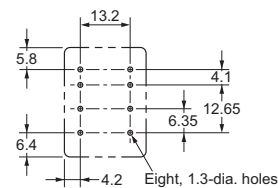


Terminal Arrangement/Internal Connection Diagram



(Bottom View)

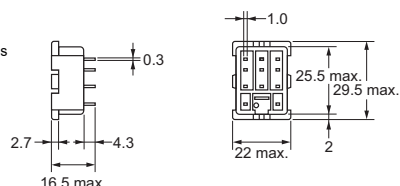
Mounting Hole and PCB Dimensions



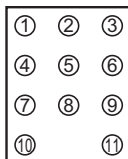
MY(S)

#### PY11-02

• This is not a flux-tight structure. We recommend manual soldering for this product.

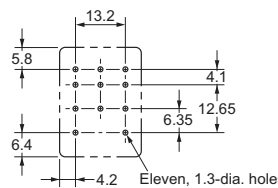


Terminal Arrangement/Internal Connection Diagram



(Bottom View)

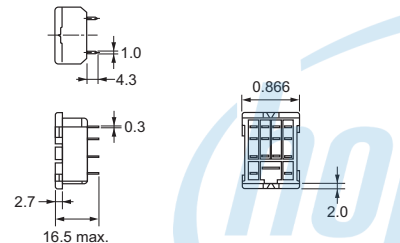
Mounting Hole and PCB Dimensions



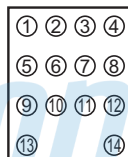
MYK

#### PY14-02

• This is not a flux-tight structure. We recommend manual soldering for this product.

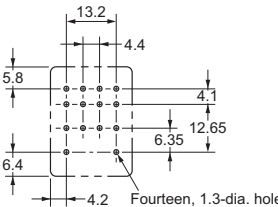


Terminal Arrangement/Internal Connection Diagram



(Bottom View)

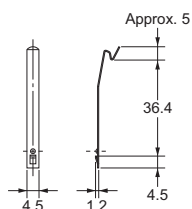
Mounting Hole and PCB Dimensions



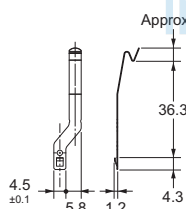
## Socket Accessories

### ●Hold-down Clip

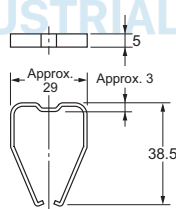
• PYC-A1  
1 set (2 pcs.)



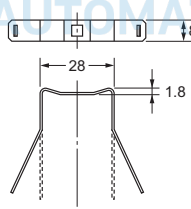
• PYC-E1  
1 set (2 pcs.)



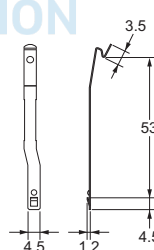
• PYC-P



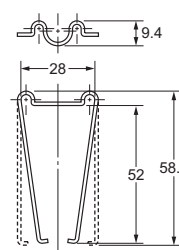
• PYC-S  
1 set (2 pcs.)



• Y92H-3  
1 set (2 pcs.)



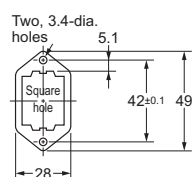
• PYC-1



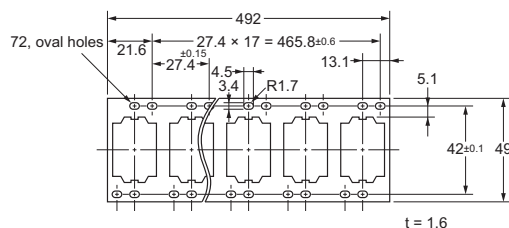
MYQ-MYH

### ●Socket Mounting Plates

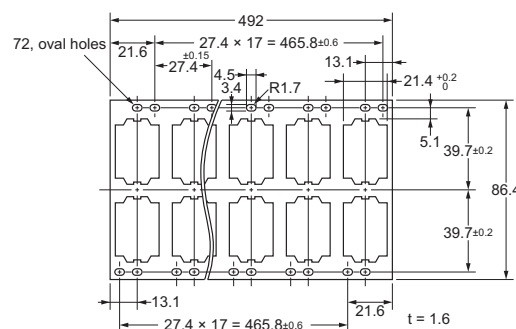
#### PYP-1



#### PYP-18



#### PYP-36



Common Options (Order Separately)

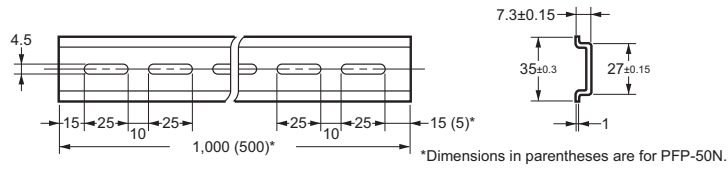
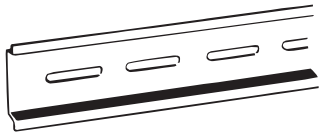
Common Precautions

● Accessories for DIN Track Mounting

DIN Tracks

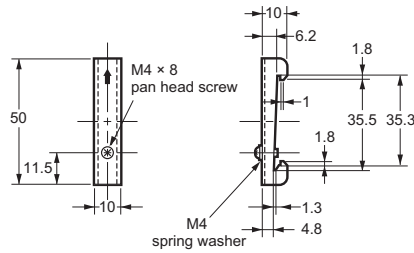
PFP-100N

PFP-50N



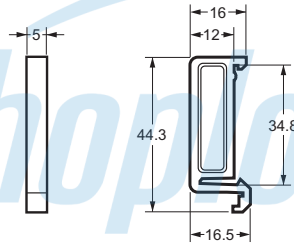
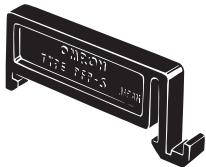
End Plate

PFP-M



Spacer

PFP-S



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MY-GS-R

MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)



Common Precautions

## Safety Precautions




### Relays

Be sure to read the **Safety Precautions for All Relays** in the website at the following URL:  
[http://www.ia.omron.com/product/cautions/36/safety\\_precautions.html](http://www.ia.omron.com/product/cautions/36/safety_precautions.html)

#### Warning Indications

	<b>WARNING</b> Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury, or may result in serious injury or death. Additionally there may be significant property damage.
	<b>CAUTION</b> Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury or in property damage.
<b>Precautions for Correct Use</b>	Supplementary comments on what to do or avoid doing, to prevent failure to operate, malfunction, or undesirable effects on product performance.

#### Meaning of Product Safety Symbols

	<ul style="list-style-type: none"> <li>General caution</li> </ul> Indicates the possibility of non-specified general cautions, warnings, and danger.
	<ul style="list-style-type: none"> <li>Electric shock caution</li> </ul> Used to warn of the risk of electric shock under specific conditions.
	<ul style="list-style-type: none"> <li>High temperature caution</li> </ul> Indicates the possibility of injuries by high temperature under specific conditions.

#### CAUTION

Do not touch terminal sections (i.e., current-carrying parts) while power is being supplied.

Also, always mount the terminal cover.

Touching current-carrying parts may result in electric shock.



Do not touch the main unit while power is being supplied or immediately after the power supply has been turned OFF. The main unit will be extremely hot and may result in burns.



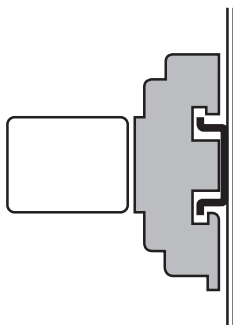
#### Precautions for Correct Use

##### ● Handling

For models with a built-in operation indicator, models with a built-in diode, or high-sensitivity models, check the coil polarity when wiring and wire all connections correctly (DC operation).

##### ● Installation

- There is no specifically required installation orientation, but make sure that the Relays are installed so that the contacts are not subjected to vibration or shock in their movement direction.



- Use two M3 screws to mount the case-surface mounting (MY□F) and tighten them securely. (Appropriate tightening torque: 0.98 N·m)

##### ● Relay Replacement

To replace the Relay, turn OFF the power supply to the load and Relay coil sides to prevent unintended operation and possible electrical shock.

##### ● Applicable Sockets

Use only combinations of OMRON Relays and Sockets.

##### ● Attaching and Removing Relay Hold-down Clips

When you attach a Hold-down Clip to or remove it from a Socket, wear gloves or take other measures to prevent injuring your fingers on the Hold-down Clip.

##### ● Compliance with Electrical Appliances and Material Safety Act

- MY standard models comply with the Electrical Appliances and Material Safety Act.
- Always protect any exposed terminals (including Socket terminals) after wiring with insulation tubes or resin coating on PCBs.

Model	Number of poles	Operating Coil ratings	Contact ratings
MY	1 2 3	6 to 220 VAC 6 to 120 VDC	5 A, 200 VAC
	4*	6 to 110 VAC 6 to 120 VDC	3 A, 115 VAC

\*Under the Electrical Appliances and Material Safety Act, do not use the Type 4 model with a voltage that exceeds 150 VAC. However, this restriction can be ignored if compliance with the Electrical Appliances and Material Safety Act is not required.

##### ● Miniature Power Relays: MY

###### Latching Levers

- Turn OFF the power supply when operating the latching lever. After you use the latching lever always return it to its original state.
- Do not use the latching lever as a switch.
- The latching lever can be used for 100 operations minimum.

###### About the Built-in Diode and CR Elements

The diode or CR element that are built into the Relay are designed to absorb the reverse voltage from the Relay coil. If a large surge in voltage is applied to the diode or CR element from an external source, the element will be destroyed.

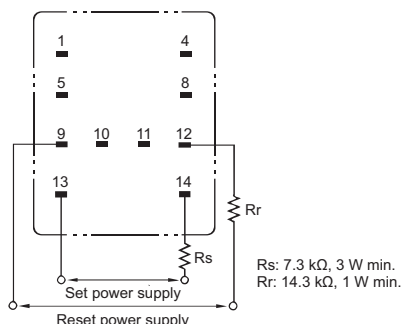
If there is the possibility of large voltage surges that could be applied to the elements from an external source, take any necessary surge absorption measures.

###### Using Microloads with Infrequent Operation

If any standard MY-series Relays (e.g., MY4) are used infrequently to switch microloads, the contacts may become unstable and eventually result in failure contact. In this case, we recommend using the MY4Z-CBG Series, which has high contact reliability for microloads.

## ●Latching Relays (MYK)

- For applications that use a 200 VAC power supply, connect external resistors  $R_s$  and  $R_r$  to a 100 VAC Relay.



- Do not apply a voltage to the set and reset coils at the same time. If you apply the rated voltage to both coils simultaneously, the Relay will be set.
- The minimum pulse width in the performance column is the value for the following measurement conditions: an ambient temperature of 23°C with the rated operating voltage applied to the coil. Satisfactory performance may be unattainable due to decreased holding strength caused by changes in circuit conditions and ambient operating temperature, or due to changes caused by product aging. During actual use, apply a pulse width of the rated operating voltage suitable for the actual load to the coil and reset this at least once per year as a means of dealing with product aging.
- If the Relay is used in an environment with strong magnetic fields, the surrounding magnetic field can demagnetize the magnetic body and cause unintended operation. Therefore, do not use these Relays in environments with strong magnetic fields.

## ●Hermetically Sealed Relays (MYH/MYQ)

### Relays with PCB Terminals

When a Relay with PCB Terminals is mounted, a short-circuit can occur depending on the design of the PCB pattern because the Relay itself is made out of metal.

#### Solution

Refer to the external dimensions of the Relay and design the PCB pattern with enough space to prevent this problem.

### Application Environments

Humid environments can cause insulation problems, which may result in short-circuiting or unintended operation.

#### Solution

Do not use these Relays in any environment where the Relay will come into contact with water vapor, condensation, or water droplets. This can reduce the surface tension of the terminal insulating beads and cause short-circuiting or unintended operation due to insulation problem.

## Optional Sockets (Order Separately)

Be sure to read the *Safety Precautions for All Relays* in the website at the following URL:

[http://www.ia.omron.com/product/cautions/36/safety\\_precautions.html](http://www.ia.omron.com/product/cautions/36/safety_precautions.html)

## Front-connecting Sockets

### ●Push-In Plus Terminal Sockets (PYF-08-PU(-L), PYF-14-PU(-L))

Refer to *Safety Precautions* on the Push-In Plus Terminal Block Socket PYF-□□-PU/P2RF-□□-PU Data Sheet (Catalog No. SGFR-218).

### ●Screwless Terminal Sockets (PYF08S, PYF14S)

Refer to *Safety Precautions* on the Screwless Terminal Socket PYF□□S/P2RF-□□S Data Sheet (Catalog No. CDRR-011).

### ●Screw Terminal Sockets (PYFZ-08(-E), PYF11A, PYFZ-14(-E), PYF-14T)

Be sure to read the *Safety Precautions for All Relays*, 4-2-1 *Panel-mounting Sockets* and 4-2-2 *Relay Removal Direction* of the website at the following URL: [http://www.ia.omron.com/product/cautions/36/safety\\_precautions.html](http://www.ia.omron.com/product/cautions/36/safety_precautions.html)

- Use the following tightening torque for screws during wiring.

Model	Tightening torque
PYFZ-08 PYFZ-14	0.78 to 1.18 N·m
PYFZ-08-E PYFZ-14-E	0.59 to 0.88 N·m * Use a No. 1 screwdriver.

- Use the following wire diameters as a guide for wiring. (Select the appropriate wire diameter for the current used.)

Model	Recommended wire diameter (mm <sup>2</sup> )	
PYFZ-08 PYFZ-14	Stranded wire	0.75 to 2.5 mm <sup>2</sup> AWG 18 to 14
	Solid wire	0.75 to 1.5 mm <sup>2</sup> AWG 18 to 16
PYFZ-08-E PYFZ-14-E	Stranded wire	0.75 to 2.5 mm <sup>2</sup> AWG 18 to 14
	Solid wire	0.75 to 1.5 mm <sup>2</sup> AWG 18 to 16

## Back-connecting Socket

### ●Solder Terminal Sockets (PY08(-Y1/-Y3), PY11(-Y1/-Y3))

### ●Wrapping Terminals Sockets (PY08QN(-Y1/-Y3), PY08QN2(-Y1/-Y3), PY11QN(-Y1), PY11QN2(-Y1))

### ●PCB Terminal Sockets (PY08-02, PY11-02)

Be sure to read the *Safety Precautions for All Relays*, 4-2-3 *Back-connecting Sockets* and 4-2-5 *Terminal Soldering* of the website at the following URL: [http://www.ia.omron.com/product/cautions/36/safety\\_precautions.html](http://www.ia.omron.com/product/cautions/36/safety_precautions.html)



MY-GS-R

MEMO

MY(S)

MYK

MYQ-MYH

Common Options (Order Separately)

Common Precautions



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## INDUSTRIAL AUTOMATION

**Note: Do not use this document to operate the Unit.**

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