

Miniature Power Relays

MY

CSM_MY_DS_J_7_1

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

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



 Refer to the *Common Relay Precautions*.

Model Number Structure

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

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

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

Miniature Power Relays: MY2



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

Ordering Information

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

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

Ratings and Specifications

Ratings

Operating Coils (Standard Models)

Item	Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Must-operate voltage (V)	Must-release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)	
	50 Hz	60 Hz		Armature OFF	Armature ON					
AC	12	106.5	91	46	0.17	0.33	30% min.* ²	110% of rated voltage	Approx. 1.0 to 1.2 (at 60 Hz)	
	24	53.8	46	180	0.69	1.3				
	100/110	11.7/12.9	10/11	3,750	14.54	24.6				
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1	80% max.* ¹	10% min.* ²	Approx. 0.9 to 1.1 (at 60 Hz)	
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07				
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4				
DC	12	72.7	165	0.73	1.37	30% min.* ²	110% of rated voltage	Approx. 0.9 to 1.1 (at 60 Hz)	Approx. 0.9	
	24	36.3	662	3.2	5.72					
	48	17.6	2,725	10.6	21.0	10% min.* ²	110% of rated voltage	Approx. 0.9		
	100/110	8.7/9.6	11,440	45.6	86.2					

- Note:**
- 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.
 - 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.

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

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

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

Contact Ratings

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

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

*1. With no icing or condensation.

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

Characteristics

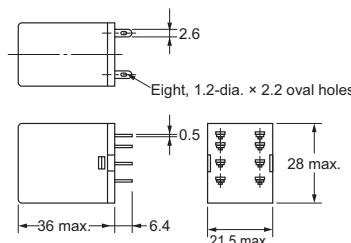
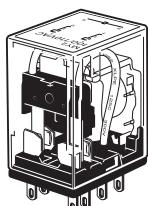
Item	Type	Standard models	Models with built-in operation indicators	Models with built-in CR circuits	Models with built-in diodes	Model with built-in operation indicator and diode	Model with built-in operation indicator and CR circuit
Contact resistance ¹		50 mΩ max.					
Operation time ²		20 ms max.					
Release time ²		20 ms max.					
Maximum operating 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	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, 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 ²					
	Malfunction	200 m/s ²					
Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)					
	Electrical ⁴	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)					

Item	Number of poles	2 poles
Failure rate P value (reference value) ⁵	1 mA at 5 VDC	Note: These are initial values.
Weight	Approx. 35 g	<p>*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method.</p> <p>*2. Measurement conditions: With rated operating power applied. Ambient temperature condition: 23°C</p> <p>*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.</p> <p>*4. Ambient temperature condition: 23°C</p> <p>*5. This value was measured at a switching frequency of 120 operations per minute.</p>

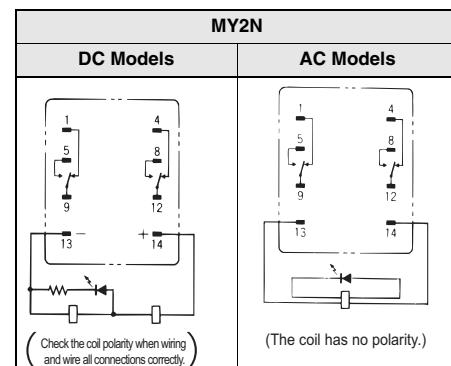
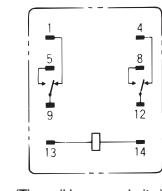
Dimensions

(Unit: mm)

MY2, MY2N, MY2-D, MY2N-D2, MY2-CR, and MY2N-CR

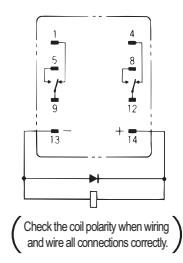


Terminal Arrangement/Internal Connections (Bottom View) Standard Models

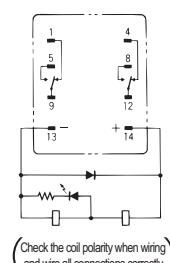


- Note:
- An AC model has coil disconnection self-diagnosis.
 - For the DC models, check the coil polarity when wiring and wire all connections correctly.
 - The indicator is red for AC and green for DC.
 - The operation indicator indicates the energization of the coil and does not represent contact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

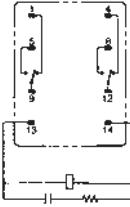
MY2-D



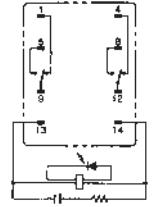
MY2N-D2



MY2-CR



MY2N-CR



Miniature Power Relays: MY2Z



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

Ordering Information

Classification	Model	Rated voltage (V)	
		Standard products	Made-to-order items
Standard models	MY2Z	100/110 or 200/220 VAC	12, 24, 100/120, or 200/240 VAC
		12 or 24 VDC	48 or 100/110 VDC
Models with built-in operation indicators	MY2ZN	100/110 or 200/220 VAC	12, 24, 100/120, or 200/240 VAC
		24 VDC	12, 48, or 100/110 VDC
Models with built-in diodes	MY2Z-D	24 VDC	12 or 100/110 VDC
Models with built-in diodes and operation indicators	MY2ZN-D2	24 or 100/110 VDC	12 VDC
Models with built-in CR circuits	MY2Z-CR		100/110 or 200/220 VAC
Models with built-in CR circuits and operation indicators	MY2ZN-CR	100/110 VAC	200/220 VAC

- Note:** 1. Ask your OMRON representative for details on the time required to deliver made-to-order products.
 2. Ask your OMRON representative for details on product specifications and the ability to manufacture products with voltages other than the above coil specifications.

Ratings and Specifications

Ratings

Operating Coil (Standard Models)

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

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

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

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

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

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

To ensure operation, apply at least 80% of the rated value

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

Contact Ratings

Item	Load	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)
Rated load		5 A at 220 VAC 5 A at 24 VDC	2 A at 220 VAC 2 A at 24 VDC
Rated carry current		5 A	
Maximum contact voltage		250 VAC, 125 VDC	
Maximum contact current		5 A	
Contact configuration		DPDT	
Contact structure		Bifurcated	
Contact materials		Au plating + Ag	

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

*1. With no icing or condensation.

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

Characteristics

Item	Type	Standard models	Models with built-in operation indicators	Models with built-in diodes	Model with built-in operation indicator and diode	Models with built-in CR circuits	Models with built-in CR circuits and operation indicators
Contact resistance ¹		50 mΩ max.					
Operation time ²		20 ms max.					
Release time ²		20 ms max.					
Maximum operating 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	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, 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 ²					
	Malfunction	200 m/s ²					
Endurance	Mechanical	50,000,000 operations min. (operating frequency: 18,000 operations/h)					
	Electrical ⁴	200,000 operations min. (rated load, switching frequency: 1,800 operations/h)					

Item	Number of poles	2 poles
Failure rate P value (reference value) ⁵	100 µA at 1 VDC	
Weight	Approx. 35 g	

Note: These are initial values.

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

*2. Measurement conditions: With rated operating power applied.

Ambient temperature condition: 23°C

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

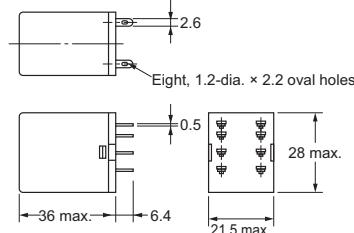
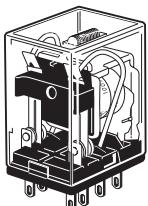
*4. Ambient temperature condition: 23°C

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

Dimensions

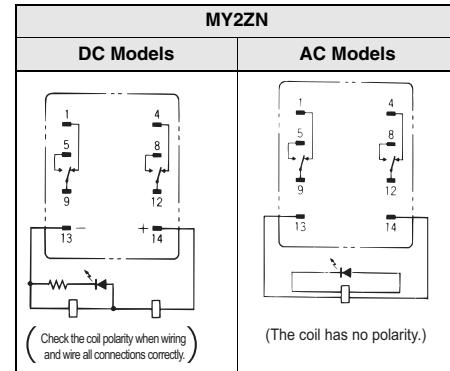
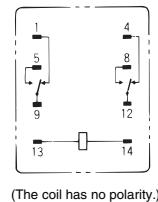
(Unit: mm)

MY2Z, MY2ZN, MY2Z-D, MY2ZN-D2, MY2Z-CR, and MY2ZN-CR



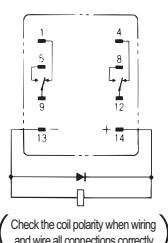
* For the MY2Z-CR and MY2ZN-CR, this dimension is 53 mm max.

Terminal Arrangement/
Internal Connections
(Bottom View)
Standard Models

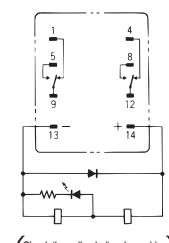


Note: 1. An AC model has coil disconnection self-diagnosis.
2. For the DC models, check the coil polarity when wiring and wire all connections correctly.
3. The indicator is red for AC and green for DC.
4. The operation indicator indicates the energization of the coil and does not represent contact operation.

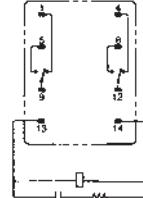
MY2Z-D



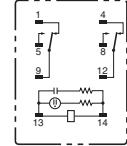
MY2ZN-D2



MY2Z-CR



MY2ZN-CR



Miniature Power Relays: MY3



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

Ordering Information

Classification	Model	Rated voltage (V)	
		Standard products	Made-to-order items
Standard models	MY3	24, 100/110, or 200/220 VAC	12, 110/120, or 220/240 VAC
		12, 24, or 100/110 VDC	48 VDC
Models with built-in operation indicators	MY3N	24, 100/110, or 200/220 VAC	12, 110/120, or 220/240 VAC
		24 VDC	12, 48, or 100/110 VDC
Models with built-in diodes	MY3-D	24 VDC	12 or 100/110 VDC
Models with built-in diodes and operation indicators	MY3N-D2	24 VDC	12 or 100/110 VDC

Note: 1. Ask your OMRON representative for details on the time required to deliver made-to-order products.
 2. Ask your OMRON representative for details on product specifications and the ability to manufacture products with voltages other than the above coil specifications.

Ratings and Specifications

Ratings

Operating Coil (Standard Models)

Rated voltage (V)	Item		Coil resistance (Ω)	Coil inductance (H)		Must-operate voltage (V)	Must-release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)
	50 Hz	60 Hz		Armature OFF	Armature ON				
AC	12	106.5	91	46	0.17	0.33	80% max.* ¹	30% min.* ²	Approx. 1.0 to 1.2 (at 60 Hz)
	24	53.8	46	180	0.69	1.3			
	100/110	11.7/12.9	10/11	3,750	14.54	24.6			
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1	110% of rated voltage	10% min.* ²	Approx. 0.9 to 1.1 (at 60 Hz)
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07			
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4			
DC	12	75		160	0.73	1.37	80% max.* ¹	30% min.* ²	Approx. 1.0 to 1.2 (at 60 Hz)
	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 the AC rated current and ±15% for the DC coil resistance.
 2. The AC coil resistance and inductance values are reference values only (at 60 Hz).
 3. Operating characteristics were measured at a coil temperature of 23°C.
 4. The maximum voltage capacity was measured at an ambient temperature of 23°C.

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

To ensure operation, apply at least 80% of the rated value.

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

Contact Ratings

Item	Load	Resistive load	Inductive load ($\cos \phi = 0.4$, $L/R = 7 \text{ ms}$)
Rated load		5 A at 220 VAC 5 A at 24 VDC	2 A at 220 VAC 2 A at 24 VDC
Rated carry current		5 A	
Maximum contact voltage		250 VAC, 125 VDC	
Maximum contact current		5 A	
Contact configuration		3PDT	
Contact structure		Single	
Contact materials		Ag	

Item	Type	Standard models	Operation indicator and diode
Ambient operating temperature ¹		-55 to 70°C	-55 to 60°C ²
Ambient operating humidity		5% to 85%	

*1. With no icing or condensation.

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

Characteristics

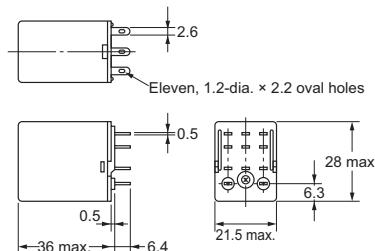
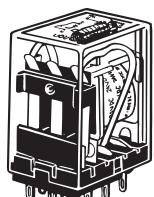
Item	Type	Standard models	Models with built-in operation indicators	Models with built-in diodes	Model with built-in operation indicator and diode
Contact resistance ¹		50 mΩ max.			
Operation time ²		20 ms max.			
Release time ²		20 ms max.			
Maximum operating frequency	Mechanical	18,000 operations/h			
	Rated load	1,800 operations/h			
Insulation resistance ³		100 MΩ min.			
Dielectric strength	Between coil and contacts				
	Between contacts of different polarity	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, 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 ²			
	Malfunction	200 m/s ²			
Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)			
	Electrical ⁴	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)			

Item	Number of poles	3 poles
Failure rate P value (reference value) ⁵	1 mA at 5 VDC	Note: These are initial values.
Weight	Approx. 35 g	*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method *2. Measurement conditions: With rated operating power applied. 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.

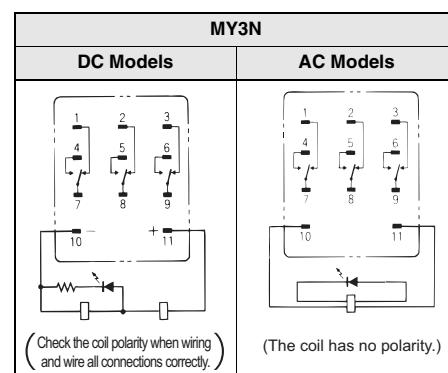
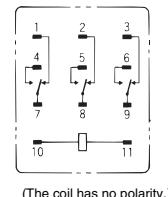
Dimensions

(Unit: mm)

MY3, MY3N, MY3-D, and MY3N-D2

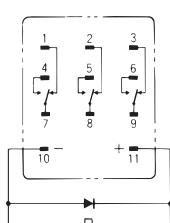


Terminal Arrangement/
Internal Connections
(Bottom View)
Standard Models

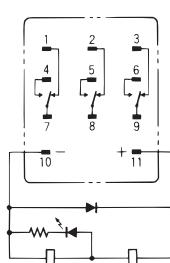


- Note:
- An AC model has coil disconnection self-diagnosis.
 - For the DC models, check the coil polarity when wiring and wire all connections correctly.
 - The indicator is red for AC and green for DC.
 - The operation indicator indicates the energization of the coil and does not represent contact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

MY3-D



MY3N-D2



(Check the coil polarity when wiring and wire all connections correctly.)

(Check the coil polarity when wiring and wire all connections correctly.)

Miniature Power Relays: MY4



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

Ordering Information

Classification	Model	Rated voltage (V)	
		Standard products	Made-to-order items
Standard models	MY4	24, 100/110, or 200/220 VAC	12, 110/120, or 220/240 VAC
		12, 24, 48, or 100/110 VDC	
Models with built-in operation indicators	MY4N	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC	
		12, 24, 48, or 100/110 VDC	
Models with built-in diodes	MY4-D	12, 24, 48, or 100/110 VDC	
Models with built-in diodes and operation indicators	MY4N-D2	12, 24, or 100/110 VDC	48 VDC
Models with built-in CR circuits	MY4-CR	100/110 or 200/220 VAC	110/120 or 220/240 VAC
Models with built-in CR circuits and operation indicators	MY4N-CR	100/110, 110/120, or 200/220 VAC	220/240 VAC

- Note:
- Ask your OMRON representative for details on the time required to deliver made-to-order products.
 - Ask your OMRON representative for details on product specifications and the ability to manufacture products with voltages other than the above coil specifications.
 - The above models and specifications are new versions in the MY Series.
 - Except for MY4(N)-CR Relays with the above voltage specifications, all Relays have a height of 53 mm or less.
- If Mounting Brackets are required, refer to page 33 for selection information.

Ratings and Specifications

Ratings

Operating Coil (Standard Models)

Rated voltage (V)	Item		Coil resistance (Ω)	Coil inductance (H)		Must-operate voltage (V)	Must-release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)
	50 Hz	60 Hz		Armature OFF	Armature ON				
AC	12	106.5	91	46	0.17	0.33	30% min.* ²	110% of rated voltage	Approx. 1.0 to 1.2 (at 60 Hz)
	24	53.8	46	180	0.69	1.3			
	100/110	11.7/12.9	10/11	3,750	14.54	24.6			
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1	80% max.* ¹	10% min.* ²	Approx. 0.9 to 1.1 (at 60 Hz)
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07			
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4			
DC	12	72.7		165	0.73	1.37	30% min.* ²	110% of rated voltage	Approx. 1.0 to 1.2 (at 60 Hz)
	24	36.3		662	3.2	5.72			
	48	17.6		2,725	10.6	21.0			
	100/110	8.7/9.6		11,440	45.6	86.2			

- Note:
- 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.
 - 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.

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

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

Item	Load	Resistive load	Inductive load ($\cos \phi = 0.4$, $L/R = 7 \text{ ms}$)
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 contact voltage	250 VAC, 125 VDC		
Maximum contact current	3 A		
Contact configuration	4PDT		
Contact structure	Single		
Contact materials	Au cladding + Ag alloy		

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

*1. With no icing or condensation.

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

Characteristics

Item	Type	Standard models	Models with built-in operation indicators	Models with built-in CR circuits	Models with built-in diodes	Model with built-in operation indicator and diode	Model with built-in operation indicator and CR circuit
Contact resistance ¹		50 mΩ max.					
Operation time ²		20 ms max.					
Release time ²		20 ms max.					
Maximum operating 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	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, 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 ²					
	Malfunction	200 m/s ²					
Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency:: 18,000 operations/h)					
	Electrical ⁴	200,000 operations min. (rated load, switching frequency: 1,800 operations/h)					

ItemNumber of poles	4 poles
Failure rate P value (reference value) ⁵	1 mA at 1 VDC
Weight	Approx. 35 g

Note: These are initial values.

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

*2. Measurement conditions: With rated operating power applied.

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.

Engineering Data

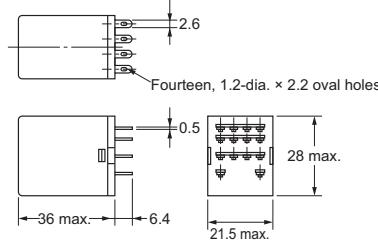
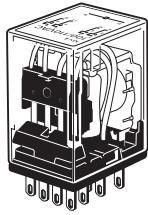
List of Actual Load Endurance (Refer to *Engineering Data* on page 20.)

Model	Load type	Conditions	Switching frequency	Electrical durability (operations min.)
MY4 DC24V	AC magnetic switch	35 VA at 100 VAC Making current: 4 A, Steady-state current: 0.35 A	ON: 1s OFF: 3s	500,000
	DC solenoid	40 W at 24 VDC Steady-state current: 1.6 A, L/R = 10 ms Surge-absorbing diode connected	ON: 0.5s OFF: 1.5s	500,000
		20 W at 24 VDC Steady-state current: 0.8 A, L/R = 10 ms Surge-absorbing diode connected	ON: 0.5s OFF: 1.5s	1,000,000

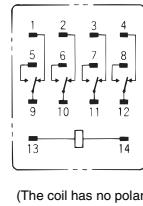
Dimensions

(Unit: mm)

**MY4, MY4N, MY4-D, MY4N-D2,
MY4-CR, and MY4N-CR**



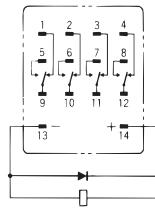
Terminal Arrangement/
Internal Connections
(Bottom View)
Standard Models



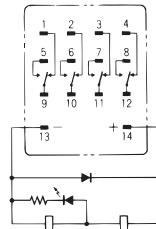
MY4N	
DC Models	AC Models
<p>Wiring diagram for DC MY4N models. It shows a coil connected between terminals 13 and 14. Terminals 1-8 are connected in parallel across the coil. Terminals 9-12 are connected in parallel across the coil. Note: (Check the coil polarity when wiring and wire all connections correctly.)</p>	<p>Wiring diagram for AC MY4N models. It shows a coil connected between terminals 13 and 14. Terminals 1-8 are connected in parallel across the coil. Terminals 9-12 are connected in parallel across the coil. Note: (The coil has no polarity.)</p>

- 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.

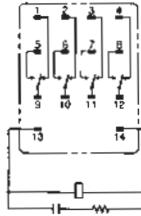
MY4-D



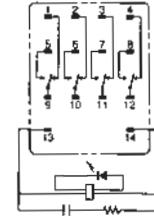
MY4N-D2



MY4-CR



MY4N-CR



Miniature Power Relays: MY4Z



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

Ordering Information

Classification	Model	Rated voltage (V)	
		Standard products	Made-to-order items
Standard models	MY4Z	100/110 or 200/220 VAC	110/120 or 220/240 VAC
		12, 24, 48, or 100/110 VDC	
Models with built-in operation indicators	MY4ZN	100/110 or 200/220 VAC	24, 110/120, or 220/240 VAC
		24 or 100/110 VDC	12 or 48 VDC
Models with built-in diodes	MY4Z-D	24 or 100/110 VDC	12 or 48 VDC
Models with built-in diodes and operation indicators	MY4ZN-D2	12, 24, 48, or 100/110 VDC	
Models with built-in CR circuits	MY4Z-CR	100/110 or 200/220 VAC	110/120 or 220/240 VAC
Models with built-in CR circuits and operation indicators	MY4ZN-CR	100/110 or 200/220 VAC	110/120 or 220/240 VAC

- Note:**
- Ask your OMRON representative for details on the time required to deliver made-to-order products.
 - Ask your OMRON representative for details on product specifications and the ability to manufacture products with voltages other than the above coil specifications.
 - The above models and specifications are new versions in the MY Series.

Ratings and Specifications

Ratings

Operating Coil (Standard Models)

Item	Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Must-operate voltage (V)	Release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)
	50 Hz	60 Hz		Armature OFF	Armature ON				
AC	12	106.5	91	46	0.17	0.33	30% min.* ²	110% of rated voltage	Approx. 1.0 to 1.2 (at 60 Hz)
	24	53.8	46	180	0.69	1.3			
	100/110	11.7/12.9	10/11	3,750	14.54	24.6			
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1	80% max.* ¹	10% min.* ²	Approx. 0.9 to 1.1 (at 60 Hz)
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07			
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4			
DC	12	72.7		165	0.73	1.37			Approx. 0.9
	24	36.3		662	3.2	5.72			
	48	17.6		2,725	10.6	21.0			
	100/110	8.7/9.6		11,440	45.6	86.2			

- Note:**
- 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.
 - 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.

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

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

Item	Load	Resistive load	Inductive load ($\cos \phi = 0.4$, 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 contact voltage		250 VAC, 125 VDC	
Maximum contact current		3 A	
Contact configuration		4PDT	
Contact structure		Bifurcated	
Contact materials		Au cladding + Ag alloy	

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

*1. With no icing or condensation.

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

Characteristics

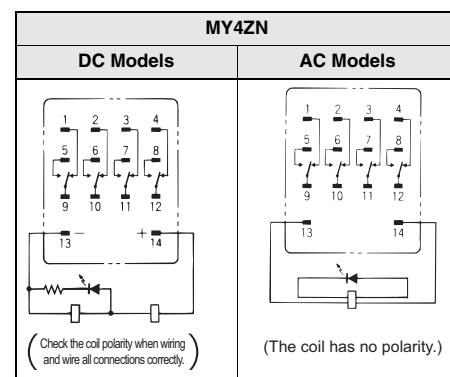
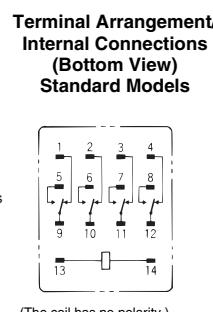
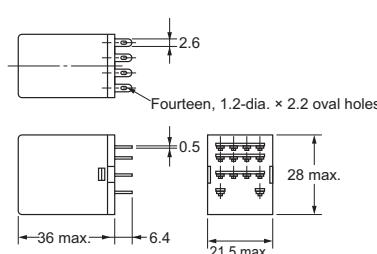
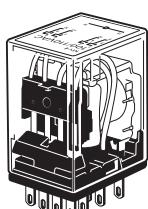
Item	Type	Standard models	Models with built-in operation indicators	Models with built-in CR circuits	Models with built-in diodes	Model with built-in operation indicator and diode	Model with built-in operation indicator and CR circuit
Contact resistance ^{*1}		50 mΩ max.					
Operation time ^{*2}		20 ms max.					
Release time ^{*2}		20 ms max.					
Maximum operating 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		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, 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 ²					
	Malfunction	200 m/s ²					
Endurance	Mechanical	20,000,000 operations min. (switching frequency: 18,000 operations/h)					
	Electrical ^{*4}	100,000 operations min. (rated load, switching frequency: 1,800 operations/h)					

Item	Number of poles	4 poles
Failure rate P value (reference value) ^{*5}	100 µA at 1 VDC	Note: These are initial values.
Weight	Approx. 35 g	<p>*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method</p> <p>*2. Measurement conditions: With rated operating power applied. Ambient temperature condition: 23°C</p> <p>*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.</p> <p>*4. Ambient temperature condition: 23°C</p> <p>*5. This value was measured at a switching frequency of 120 operations per minute.</p>

Dimensions

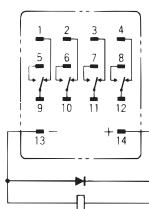
(Unit: mm)

MY4Z, MY4ZN, MY4Z-D, MY4ZN-D2,
MY4Z-CR, and MY4ZN-CR

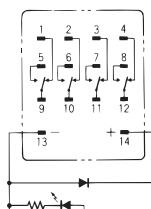


- Note:**
- An AC model has coil disconnection self-diagnosis.
 - For the DC models, check the coil polarity when wiring and wire all connections correctly.
 - The indicator is red for AC and green for DC.
 - The operation indicator indicates the energization of the coil and does not represent contact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

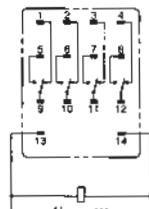
MY4Z-D



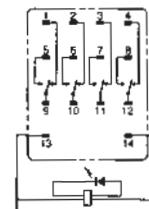
MY4ZN-D2



MY4Z-CR



MY4ZN-CR



Miniature Power Relays with Latching Levers: MY(S)



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

Ordering Information

Classification	Contact configuration	Model	Rated voltage (V)
Models with built-in operation indicators	2	MY2IN (S)	100/110 or 200/220 VAC
			12, 24, or 48 VDC
	4	MY4IN (S)	100/110 or 200/220 VAC
			12, 24, or 48 VDC
		MY4ZIN (S)	100/110 or 200/220 VAC 12, 24, or 48 VDC
Models with built-in diode for coil surge absorption	2	MY2IN-D2 (S)	12, 24, or 48 VDC
	4	MY4IN-D2 (S)	12, 24, or 48 VDC
	4 bifurcated	MY4ZIN-D2 (S)	12, 24, or 48 VDC
Models with built-in CR circuit for coil surge absorption	4	MY4IN-CR (S)	100/110 or 200/220 VAC
	4 bifurcated	MY4ZIN-CR (S)	100/110 or 200/220 VAC

- Note:**
- Ask your OMRON representative for delivery times.
 - Ask your OMRON representative for details on product specifications and the ability to manufacture products with voltages other than the above coil specifications.
 - Be sure to clearly indicate the rated voltage and add "(S)" when you place your order.

Example: MY2IN 110/110 VAC (S)

Ratings and Specifications

Ratings

Operating Coil

Rated voltage (V)	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)	
		50 Hz	60 Hz		Armature OFF	Armature ON					
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6	80% max.* ¹	30% min.* ²	110% of rated voltage	Approx. 0.9 to 1.1 (at 60 Hz)	
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07					
DC	12	75		160	0.73	1.37	80% max.* ¹	10% min.* ²		Approx. 0.9	
	24	37.7		636	3.2	5.72					
	48	18.8		2,560	10.6	21					

- Note:**
- 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.
 - 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.

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

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

Number of poles Item	Load	2 poles		4 poles		4 poles (bifurcated)	
		Resistive load ($\cos \phi = 1$)	Inductive load ($\cos \phi = 0.4$, $L/R = 7 \text{ ms}$)	Resistive load ($\cos \phi = 1$)	Inductive load ($\cos \phi = 0.4$, $L/R = 7 \text{ ms}$)	Resistive load ($\cos \phi = 1$)	Inductive load ($\cos \phi = 0.4$, $L/R = 7 \text{ ms}$)
Rated load		5 A at 250 VAC 5 A at 30 VDC	2 A at 250 VAC 2 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	3 A at 250 VAC 3 A at 30 VDC	0.8 A at 250 VAC 1.5 A at 30 VDC
Rated carry current	10 A*		5 A*				
Maximum contact voltage	250 VAC, 125 VDC						
Maximum contact current	10 A		5 A				
Contact configuration	Single		Single		Bifurcated		
Contact materials	Ag		Au cladding + Ag alloy		Au cladding + Ag alloy		

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

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

*1. With no icing or condensation.

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

Characteristics

Item	Type	2 poles	4 poles	4 poles (bifurcated)
Contact resistance ¹		100 mΩ max.		
Operation time ²		20 ms max.		
Release time ²	Mechanical	20 ms max.		
	Rated load	1,800 operations/h		
Insulation resistance ³		1,000 MΩ min.		
Dielectric strength	Between coil and contacts			
	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, 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 ²		
	Malfunction	200 m/s ²		
Endurance	Mechanical	AC: 50,000,000 operations min., DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)		20,000,000 operations min. (switching frequency: 18,000 operations/h)
	Electrical ⁴	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)
Failure rate P value (reference value) ⁵		1 mA at 5 VDC	1 mA at 1 VDC	100 µA at 1 VDC
Weight		Approx. 35 g		

Note: These are initial values.

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

*2. Measurement conditions: When rated operating power is applied and ambient temperature is 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.

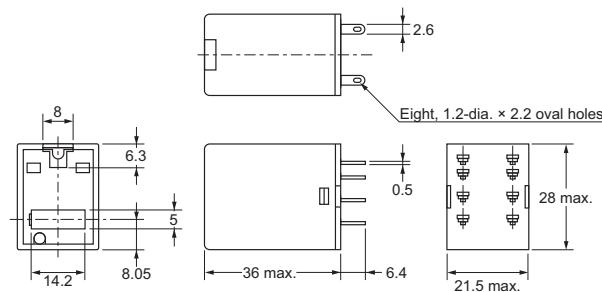
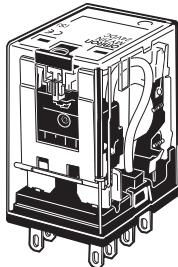
Dimensions

(Unit: mm)

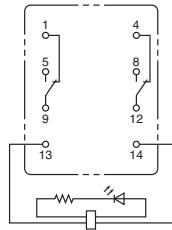
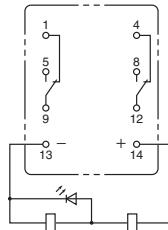
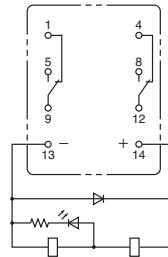
List of Models

MY2IN (S)

MY2IN-D2 (S)



Terminal Arrangement/Internal Connections (Bottom View)

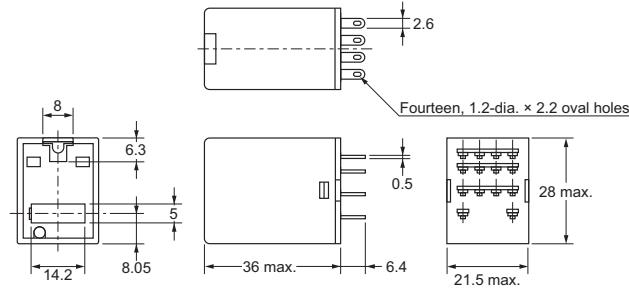
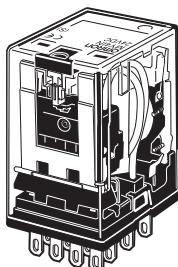
MY2IN(S)
(AC Model)MY2IN(S)
(DC Models)MY2IN-D2(S)
(DC Models Only)

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

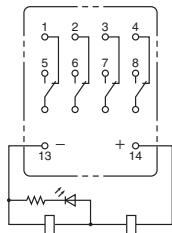
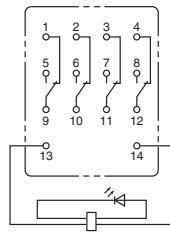
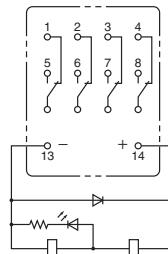
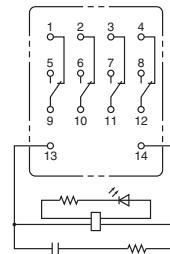
MY4 (Z) IN (S)

MY4 (Z) IN-D2 (S)

MY4 (Z) IN-CR (S)



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)

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

Relays with PCB Terminals: MY□-02



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

Ordering Information

Number of poles	Classification	Model	Rated voltage (V)		Made-to-order items
			Standard products		
2 poles	Models with single contacts	MY2-02	100/110 or 200/220 VAC		12, 24, 100, 110/120, or 200/240 VAC
			12 or 24 VDC		48 or 100/110 VDC
3 poles	Models with single contacts	MY3-02	100/110 VAC		12, 24, 110/120, 200/220, or 220/240 VAC
			24 VDC		12, 48, or 100/110 VDC
4 poles	Models with single contacts	MY4-02	100/110 or 200/220 VAC		12, 24, 110/120, or 220/240 VAC
			12 or 24 VDC		48 or 100/110 VDC
	Bifurcated contacts	MY4Z-02	100/110, 110/120, or 200/220 VAC		
			12, 24, 48, or 100/110 VDC		

Note: 1. Ask your OMRON representative for details on the time required to deliver made-to-order products.
2. Ask your OMRON representative for details on product specifications and the ability to manufacture products with voltages other than the above coil specifications.

Ratings and Specifications

Ratings

Operating Coil (Standard Models)

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)	
	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. 1.0 to 1.2 (at 60 Hz)	
	24	53.8	46	180	0.69	1.3				
	100/110	11.7/12.9	10/11	3,750	14.54	24.6				
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1	80% max.* ¹	10% min.* ²	Approx. 0.9 to 1.1 (at 60 Hz)	
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07				
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4				
DC	12	75	160	0.73	1.37	30% min.* ²	110% of rated voltage	Approx. 0.9 to 1.1 (at 60 Hz)	Approx. 0.9	
	24	36.9	650	3.2	5.72					
	48	18.5	2,600	10.6	21.0	10% min.* ²	110% of rated voltage	Approx. 0.9		
	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 the AC rated current and $\pm 15\%$ for the DC coil resistance.
2. The AC coil resistance and inductance values are reference values only (at 60 Hz).
3. Operating characteristics were measured at a coil temperature of 23°C.
4. The maximum voltage capacity was measured at an ambient temperature of 23°C.

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

To ensure operation, apply at least 80% of the rated value.

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

Contact Ratings

Item	Number of poles Load	2 or 3 poles		4 poles		4 poles, bifurcated contacts	
		Resistive load	Inductive load ($\cos \phi = 0.4$, L/R = 7 ms)	Resistive load	Inductive load ($\cos \phi = 0.4$, L/R = 7 ms)	Resistive load	Inductive load ($\cos \phi = 0.4$, L/R = 7 ms)
Rated load	5 A at 220 VAC 5 A at 24 VDC	2 A at 220 VAC 2 A at 24 VDC		3 A at 220 VAC 3 A at 24 VDC	0.8 A at 220 VAC 1.5 A at 24 VDC	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	5 A			3 A		3 A	
Maximum contact voltage	250 VAC, 125 VDC			250 VAC, 125 VDC		250 VAC, 125 VDC	
Maximum contact current	5 A			3 A		3 A	
Contact configuration	DPDT, 3PDT			4PDT		4PDT	
Contact structure	Single			Single		Bifurcated	
Contact materials	Ag			Au plating + Ag		Au plating + Ag	

Item	Type	Standard models
Ambient operating temperature*		-55 to 70° C
Ambient operating humidity		5% to 85%

* With no icing or condensation.

Characteristics

Item	Number of poles	2 or 3 poles	4 poles	4 poles, bifurcated contacts
Contact resistance ^{*1}		50 mΩ max.		
Operation time ^{*2}		20 ms max.		
Release time ^{*2}		20 ms max.		
Maximum operating 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	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, 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 ²		
	Malfunction	200 m/s ²		
Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)		AC: 20,000,000 operations min. (switching frequency: 18,000 operations/h)
	Electrical ^{*4}	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)

Item	Number of poles	2 or 3 poles	4 poles	4 poles, bifurcated contacts
Failure rate P value (reference value) ^{*5}		1 mA at 5 VDC	1 mA at 1 VDC	100 μA at 1 VDC
Weight		Approx. 35 g		

Note: These are initial values.

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

*2. Measurement conditions: With rated operating power applied.

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.

Dimensions

(Unit: mm)

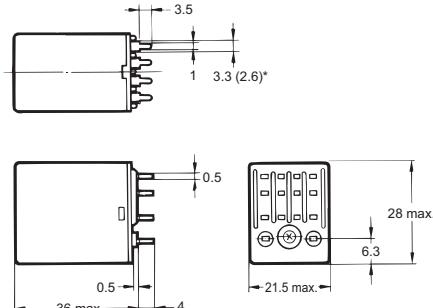
Relays with PCB Terminals

MY□-02



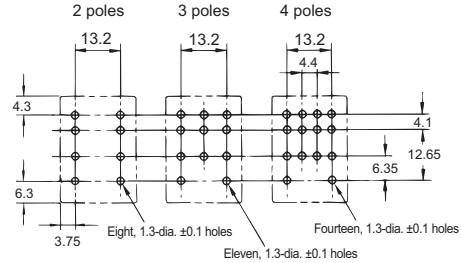
The figures and dimensions given here are for the MY4-02.

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 ±0.1.
2. Refer to the terminal arrangement and internal connections diagrams for the MY2, MY3, MY4, and MY4Z.



Case-surface-mounting Relays: MY□F

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

Ordering Information

Number of poles	Classification	Model	Rated voltage (V)	
			Standard products	Made-to-order items
2 poles	Models with single contacts	MY2F	100/110 or 200/220 VAC	24, 110/120, or 220/240 VAC
			12 or 24 VDC	48 or 100/110 VDC
3 poles	Models with single contacts	MY3F	100/110 VAC	24 or 200/220 VAC
				24 or 100/110 VDC
4 poles	Models with single contacts	MY4F	100/110 or 200/220 VAC	24 or 110/120 VAC
			12 or 24 VDC	48 or 100/110 VDC
	Bifurcated contacts	MY4ZF	—	200/220 VAC
			—	12 or 24 VDC

Note: 1. Ask your OMRON representative for details on the time required to deliver made-to-order products.
2. Ask your OMRON representative for details on product specifications and the ability to manufacture products with voltages other than the above coil specifications.

Ratings and Specifications

Ratings

Operating Coil (Standard Models)

Item	Rated current (mA)		Coil resistance (Ω)	Coil inductance (H)		Must-operate voltage (V)	Release voltage (V)	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.*1	110% of rated voltage	Approx. 1.0 to 1.2 (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			Approx. 0.9 to 1.1 (at 60 Hz)
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07			
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4			
DC	12	75	160	0.73	1.37	10% min.*2		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	86.2				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for the AC rated current and ±15% for the DC coil resistance.
2. The AC coil resistance and inductance values are reference values only (at 60 Hz).
3. Operating characteristics were measured at a coil temperature of 23°C.
4. The maximum voltage capacity was measured at an ambient temperature of 23°C.

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

To ensure operation, apply at least 80% of the rated value

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

Contact Ratings

Item	Number of poles Load	2 or 3 poles		4 poles	
		Resistive load	Inductive load ($\cos \phi = 0.4$, L/R = 7 ms)	Resistive load	Inductive load ($\cos \phi = 0.4$, L/R = 7 ms)
Rated load		5 A at 220 VAC 5 A at 24 VDC	2 A at 220 VAC 2 A at 24 VDC	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	5 A			3 A	
Maximum contact voltage	250 VAC, 125 VDC			250 VAC, 125 VDC	
Maximum contact current	5 A			3 A	
Contact configuration	DPDT, 3PDT			4PDT	
Contact structure	Single			Single	
Contact materials	Ag			Au plating + Ag	

Item	Type	Standard models
Ambient operating temperature*	—	—55 to 70°C
Ambient operating humidity	—	5% to 85%

* With no icing or condensation.

Characteristics

Item	Number of poles	2 or 3 poles	4 poles
Contact resistance ^{*1}	50 mΩ max.		
Operation time ^{*2}	20 ms max.		
Release time ^{*2}	20 ms max.		
Maximum operating 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.	
	Between contacts of different polarity	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.	
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 ²	
	Malfunction	200 m/s ²	
Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)	
	Electrical ^{*4}	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)	200,000 operations min. (rated load, switching frequency: 1,800 operations/h)

Item	Number of poles	2 or 3 poles	4 poles
Failure rate P value (reference value)	1 mA at 5 VDC	1 mA at 1 VDC	
Weight	Approx. 35 g		

Note: These are initial values.

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

*2. Measurement conditions: With rated operating power applied.

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.

Dimensions

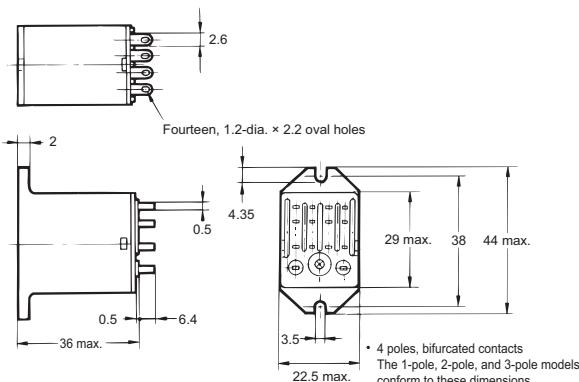
(Unit: mm)

Case-surface mounting

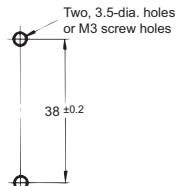
MY□F



The above figure is for the MY4F.



Mounting Hole Dimensions

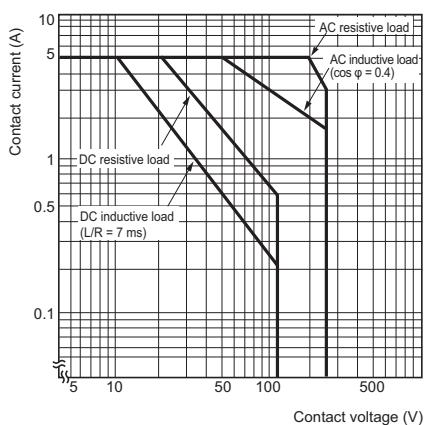


Note: Refer to the terminal arrangement and internal connections diagrams for the MY2, MY3, MY4, and MY4Z.

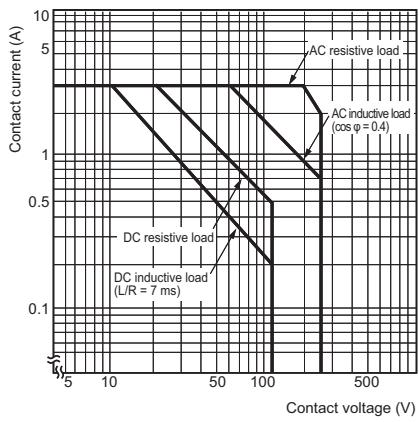
Engineering Data MY2, MY3, MY4, MY4Z, MY□-02, and MY□F

Engineering Data

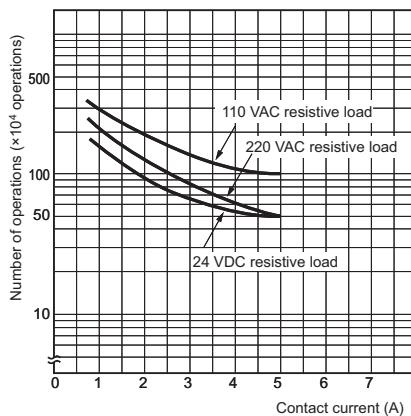
Maximum Switching Capacity MY2 and MY3



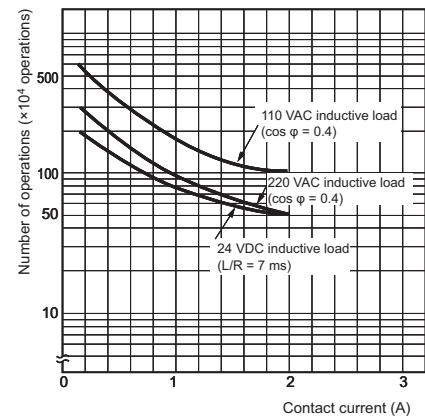
MY4 and MY4Z



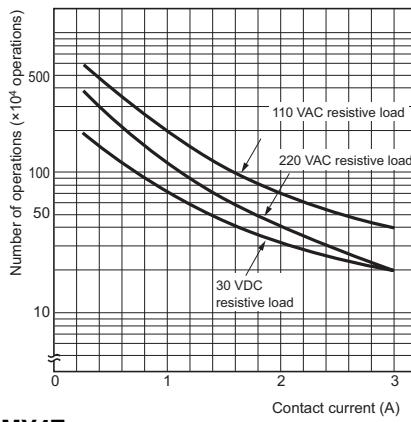
Endurance Curve MY2 and MY3



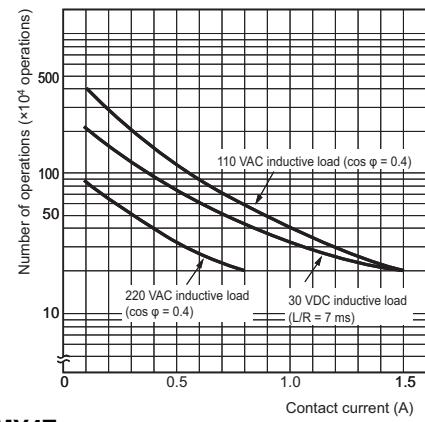
MY2 and MY3



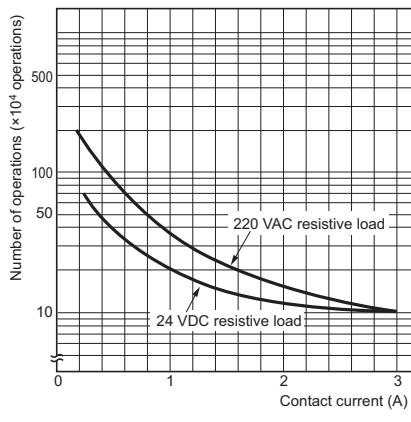
MY4



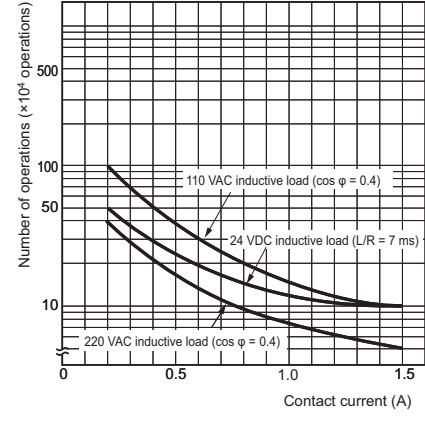
MY4



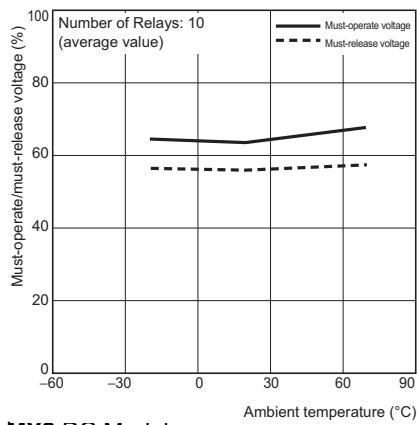
MY4Z



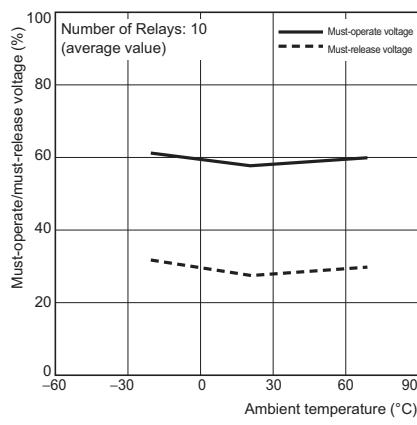
MY4Z



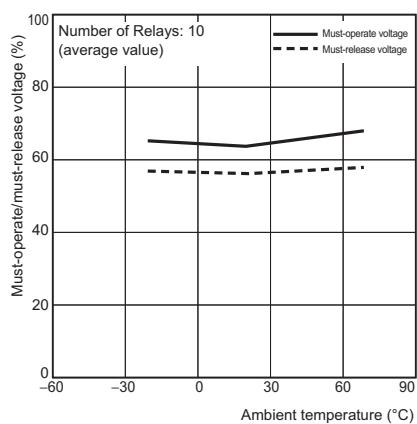
Ambient Temperature vs. Must-operate and Must-release Voltage MY2 AC Models



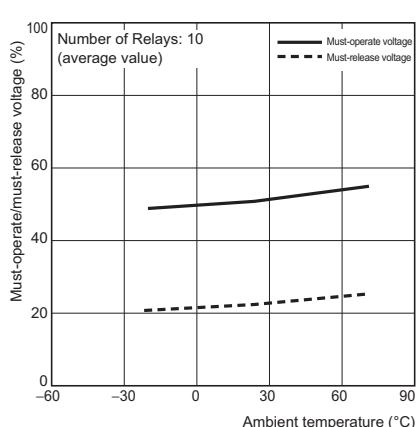
MY2 DC Models



MY4 AC Models

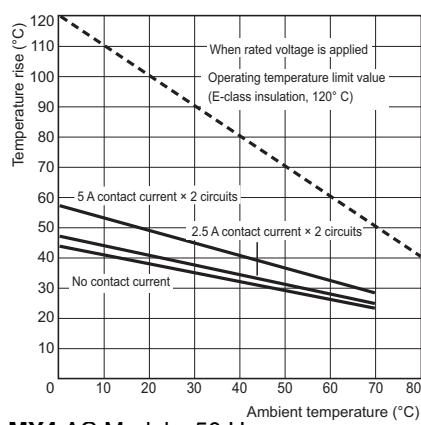


MY4 DC Models

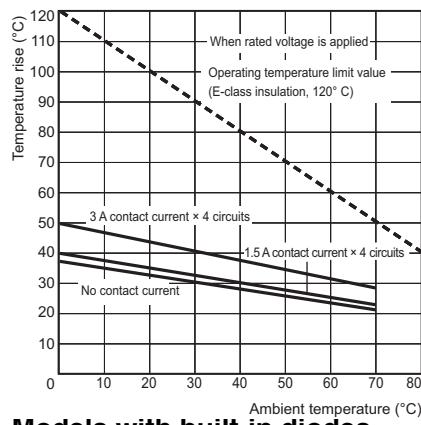


Ambient Temperature vs. Coil Temperature Rise

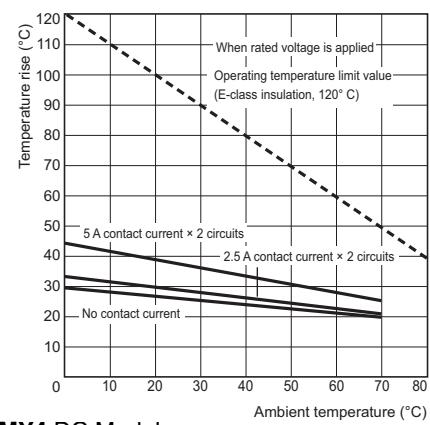
MY2 AC Models, 50 Hz



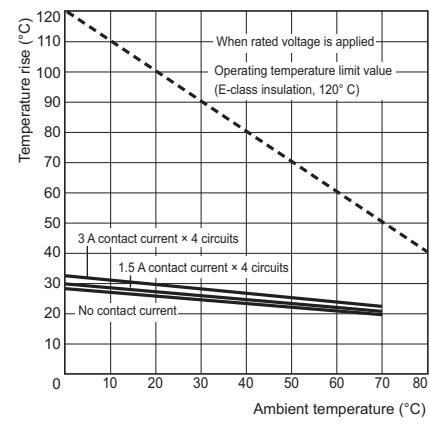
MY4 AC Models, 50 Hz



MY2 DC Models

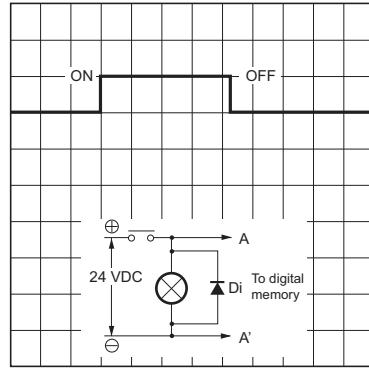


MY4 DC Models



Models with built-in diodes

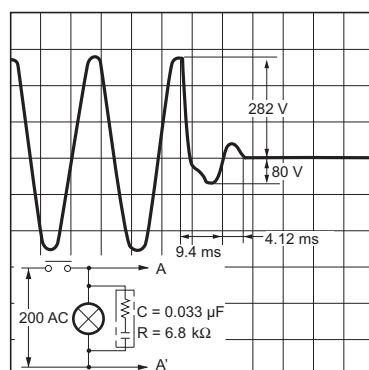
The diode absorbs surge from the coil. This type is best suited for applications with semiconductor circuits.
With Diode



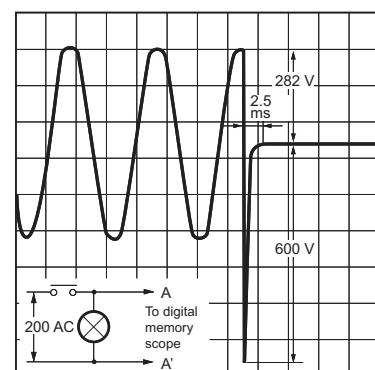
- Note:
1. Make sure that the polarity is correct.
 2. The release time will increase, but the 20-ms specification for standard models is satisfied.
 3. Diode properties: The diode has a reversed dielectric strength of 1,000 V.
Forward current: 1 A

Models with Built-in CR Circuits

With CR



Without CR

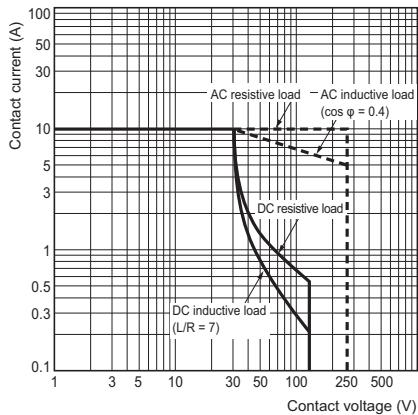


Engineering Data MY(S)

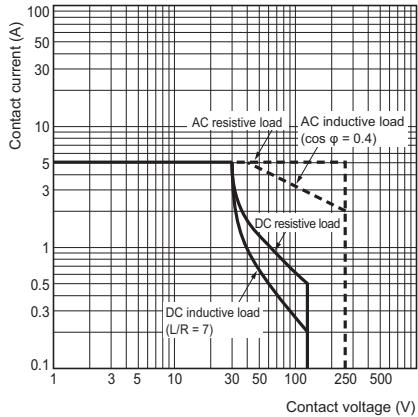
Engineering Data

Maximum Switching Capacity

MY2(S)

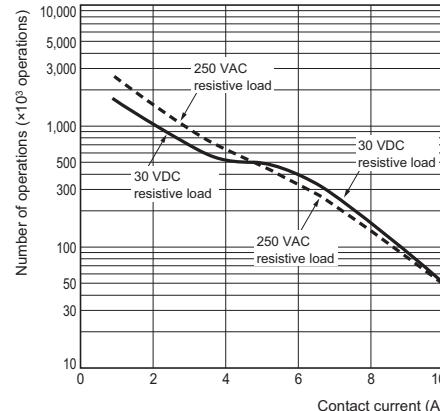


MY4(S) and MY4Z(S)

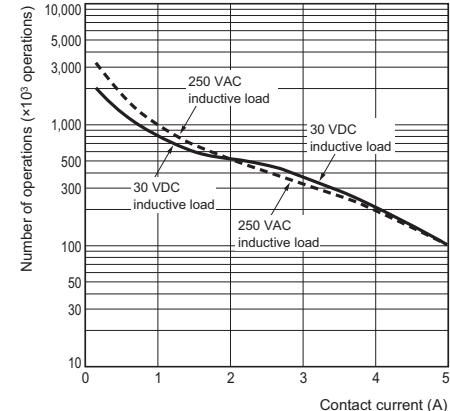


Endurance Curve

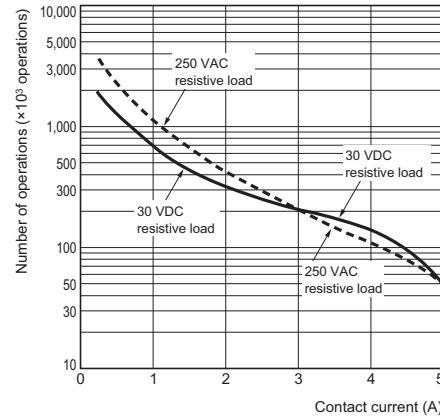
MY2(S)



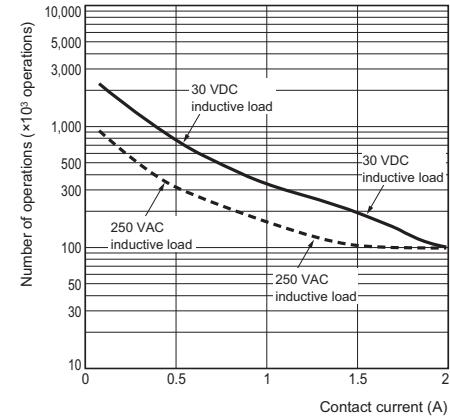
MY2(S)



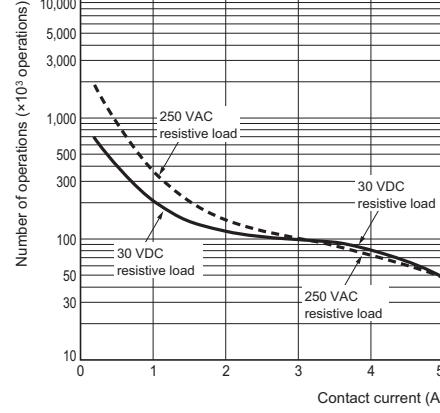
MY4(S)



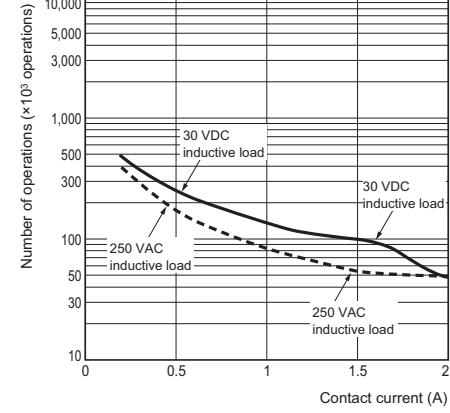
MY4(S)



MY4Z(S)

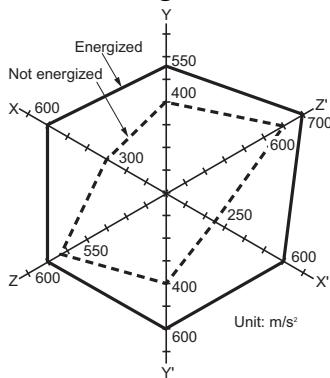


MY4Z(S)



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

Malfunctioning Shock

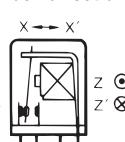


N = 20

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/s² , Energized: 200 m/s²

Shock direction



Detailed Information on Models Certified for Safety Standards, MY2Z, MY3, MY□-02, and MY□F

- The standard models are certified for UL and CSA standards.
- The rated values for safety standard certification are not the same as individually defined performance values. Always check the specifications before use.

TUV-certified Models (File No. R50030059)

Model	Number of poles	Coil ratings	Contact ratings	Certified number of operations
MY□	2	6 to 125 VDC 6 to 240 VDC	5 A, 250 VAC ($\cos \phi = 1.0$)	10,000 operations
	3		5 A, 250 VAC ($\cos \phi = 1.0$) 0.8 A, 250 VAC ($\cos \phi = 0.4$)	
	4		3 A, 120 VAC ($\cos \phi = 1.0$) 0.8 A, 120 VAC ($\cos \phi = 0.4$)	

UL-certified Models (File No. E41515)

Model	Number of poles	Coil ratings	Contact ratings	Certified number of operations	
MY	2	6 to 240 VAC 6 to 125 VDC	7A, 240 VAC (General Use)	6,000	
			7A, 24 VDC (Resistive)		
			5A, 240 VAC (General Use)		
			5A, 250 VAC (Resistive)		
			5A, 30 VDC (Resistive)		
			3A, 265 VAC (Resistive)		
	3		1/6HP, 250 VAC	1,000	
			1/8HP, 265 VAC		
			1/10HP, 120 VAC		
			B300 Pilot Duty		
			5A, 28 VDC (Resistive)	6,000	
			5A, 240 VAC (General Use)		
	4		1/6 HP, 250 VAC		
			5A, 28 VDC (General Use) (Same polarity)		
			5A, 240 VAC (General Use) (Same polarity)		
			5A, 30 VDC (Resistive) (Same polarity)		
			5A, 250 VAC (Resistive) (Same polarity)		
			0.2A, 120 VDC (Resistive)		
			1/6HP, 250 VAC	1,000	
			1/10HP, 120 VAC		
			B300 Pilot Duty (Same polarity)	6,000	

CSA-certified Models (File No. LR31928)

Model	Number of poles	Coil ratings	Contact ratings	Certified number of operations	
MY	2	6 to 240 VAC 6 to 125 VDC	7A, 240 VAC (Resistive)	6,000	
			7A, 24 VDC (Resistive)		
			5A, 240 VAC (General Use)		
			5A, 250 VAC (Resistive)		
			5A, 30 VDC (Resistive)		
	3		1/6HP, 250 VAC	1,000	
			7A, 240 VAC (General Use) (Same polarity)		
			7A, 24 VDC (Resistive) (Same polarity)		
			5A, 240 VAC (General Use) (Same polarity)		
			5A, 30 VDC (Resistive)		
	4		5A, 250 VAC (Resistive) (Same polarity)	6,000	
			0.2A, 120 VDC (Resistive)		
			1/6HP, 250 VAC		
			1/10HP, 120 VAC		
			B300 Pilot Duty		

- When ordering models that are certified for Lloyd's Register (LR) Standards, be sure to specify "LR-certified Model" with your order.

LR-certified Models (File No. 90/10270)

Model	Number of poles	Coil ratings	Contact ratings
MY□	2	6 to 240 VAC 6 to 125 VDC	2 A, 30 VDC inductive load 2 A, 200 VAC inductive load
	4		1.5 A, 30 VDC inductive load 0.8 A, 200 VAC inductive load 1.5 A, 115 VAC inductive load

Detailed Information on Models Certified for Safety Standards, MY2, MY4, MY4Z, and MY(S) Newly Released Models

VDE-certified Models (No. 112467UG, EN61810-1)

Model	Number of poles	Coil ratings	Contact ratings	File No.	Certified number of operations
MY□ (newly released models)	2	6, 12, 24, 48/50, 100/ 110, 110/120, 200/ 220, and 220/240 VAC	10 A, 250 VAC (cos φ = 1) 10 A, 30 VDC (L/R = 0 ms)	6692 (VDE0435)	MY2: 10,000 operations MY4: 100,000 operations MY4Z: 50,000 operations (AC)
	4	6, 12, 24, 48, 100/ 110, and 125 VDC	5 A, 250 VAC (cos φ = 1) 5 A, 30 VDC (L/R = 0 ms)		

UL508-certified Models (File No. 41515)

Model	Number of poles	Coil ratings	Contact ratings	File No.	Certified number of operations
MY□ (New model)	2	6 to 240 VAC 6 to 125 VDC	10A, 250 VAC (General Use)	E41515 (UL508)	6,000
			10A, 30 VDC (General Use)		
			7A, 240 VAC (General Use)		
			7A, 24 VDC (Resistive)		
			5A, 240 VAC (General Use)		
			5A, 250 VAC (Resistive)		
			5A, 30 VDC (Resistive)		
			3A, 265 VAC (Resistive)		
	4	6 to 240 VAC 6 to 125 VDC	1/6HP, 250 VAC		1,000
			1/8HP, 265 VAC		
			1/10HP, 120 VAC		
			B300 Pilot Duty (Same polarity)		
			5A, 28 VDC (General Use) (Same polarity)		6,000
			5A, 240 VAC (General Use) (Same polarity)		
			5A, 30 VDC (Resistive) (Same polarity)		
			5A, 250 VAC (Resistive) (Same polarity)		
			0.2A, 120 VDC (Resistive) (Same polarity)		6,000
			1/6HP, 250 VAC (Same polarity)		1,000
			1/10HP, 120 VAC (Same polarity)		6,000
			B300 Pilot Duty (Same polarity)		6,000

CSA 22.2 No. 14-certified Models (File No. LR31928)

Model	Number of poles	Coil ratings	Contact ratings	File No.	Certified number of operations
MY	2	6 to 240 VAC 6 to 125 VDC	7A, 240 VAC (General Use)	LR31928 (CSA C22.2) (No. 14)	6,000
			7A, 24 VDC (Resistive)		
			5A, 240 VAC (General Use)		
			5A, 250 VAC (Resistive)		
			5A, 30 VDC (Resistive)		
			3A, 265 VAC (Resistive)		
			1/6HP, 250 VAC		
			1/8HP, 265 VAC		
	4	6 to 240 VAC 6 to 125 VDC	1/10HP, 120 VAC		1,000
			B300 Pilot Duty (Same polarity)		
			5A, 240 VAC (General Use) (Same polarity)		
			5A, 28 VDC (General Use) (Same polarity)		
			5A, 250 VAC (Resistive) (Same polarity)		6,000
			5A, 30 VDC (Resistive) (Same polarity)		
			0.2A, 120 VDC (Resistive) (Same polarity)		
			1/6HP, 250 VAC (Same polarity)		
			1/10HP, 120 VAC (Same polarity)		1,000
			B300 Pilot Duty (Same polarity)		6,000

LR-certified Models (File No. 98/10014)

Model	Number of poles	Coil ratings	Contact ratings	File No.	Certified number of operations
MY□ (newly released models)	2	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)	98/10014	MY2: 50,000 operations MY4: 50,000 operations
	4		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)		

Miniature Power Relays: MY4Z-CBG

Ordering Information

Classification	Model	Rated voltage (V)
Standard models	MY4Z-CBG	100/110, 110/120, or 200/220 VAC
		12, 24, 48, or 100/110 VDC
Models with built-in operation indicators	MY4ZN-CBG	100/110 or 200/220 VAC
		24 VDC

Note: These are made-to-order products. Ask your OMRON representative for delivery times.

Ratings and Specifications

Ratings

Operating Coil

Rated voltage (V)	Item		Coil resistance (Ω)	Coil inductance (H)		Must-operate voltage (V)	Must-release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)
	50 Hz	60 Hz		Armature OFF	Armature ON				
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6	80% max.*1	30% min.*2	Approx. 0.9 to 1.1 (at 60 Hz)
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1			
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07			
DC	12	75		160	0.73	1.37		10% min.*2	Approx. 0.9
	24	36.9		650	3.2	5.72			
	100/110	9.1/10		11,000	45.60	86.20			

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.
 3. Operating characteristics were measured at a coil temperature of 23°C.
 4. The maximum voltage capacity was measured at an ambient temperature of 23°C.

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

To ensure operation, apply at least 80% of the rated value.

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

Contact Ratings

Item	Load	Resistive load	Inductive load ($\cos \varphi = 0.4$, L/R = 7 ms)
Rated load		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 A		
Maximum contact voltage	250 VAC, 125 VDC		
Maximum contact current	1 A	1 A	
Contact structure	Crossbar bifurcated		
Contact materials	Au cladding + AgPd		

Characteristics

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
	Electrical	1,800 operations/h
Insulation resistance*3	100 MΩ	
Dielectric strength	Between coil and contacts	2,000 VAC at 50/60 Hz for 1 min.
	Between contacts of different polarity	
	Between contacts of the same polarity	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 ²
	Malfunction	200 m/s ²
Endurance	Mechanical	5,000,000 operations min. (operating frequency: 18,000 operations/hr)
	Electrical*4	50,000 operations min. (switching frequency: 1,800 operations/h) at rated load
Failure rate P value (reference value)*5	100 μA at 1 VDC	
Ambient operating temperature	-25 to 70°C (with no icing or condensation)	
Ambient operating 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.

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

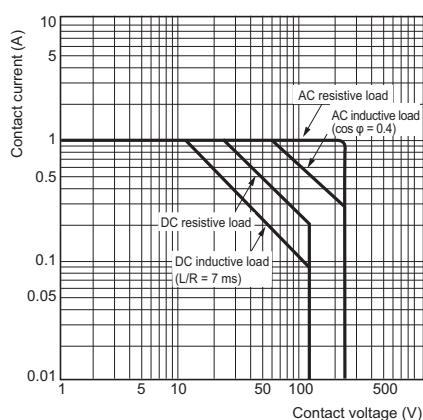
*5. This value was measured at a switching frequency of 120 operations per minute.

Engineering Data

Engineering Data

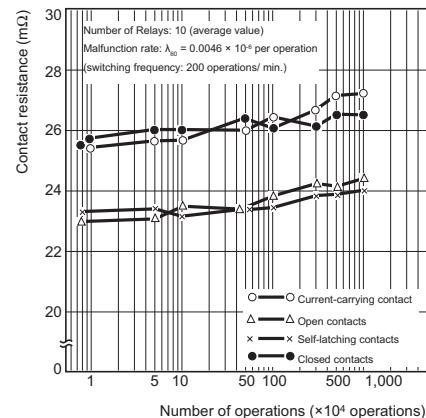
Maximum Switching Capacity

MY4Z-CBG



Contact Reliability Test (Modified Allen Bradley Circuit)

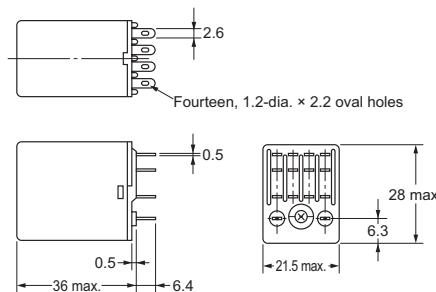
Contact load: 5 VDC, 1 mA resistive load
Malfunction criteria level: Contact resistance of 100 Ω



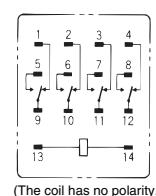
Dimensions

(Unit: mm)

MY4Z-CBG



Terminal Arrangement/Internal Connections (Bottom View)
Standard Models



Safety Precautions

Refer to the *Common Relay Precautions*.

Applicable Sockets

Use only combinations of OMRON Relays and Sockets.

Plastic Sealed Relays: MYQ

Ordering Information

Relays with Plug-in or Soldered Terminals

Type		4 poles	
Classification		Model	Rated voltage (V)
Models with single contacts	Standard models	MYQ4	100/110, 110/120, 200/220, or 220/240 VAC
			24 VDC
	Models with built-in operation indicators	MYQ4N	24, 100/110, 110/120, 200/220, or 220/240 VAC
			12, 24, 48, or 100/110 VDC
	Bifurcated contacts	MYQ4Z	100/110, 110/120, or 200/220 VAC
			12 or 24 VDC

Relays with PCB Terminals

Type		4 poles	
Classification		Model	Rated voltage (V)
Models with single contacts	MYQ4-02	50, 200/220, or 220/240 VAC	
		24 VDC	
Bifurcated contacts	MYQ4Z-02	100/110 VAC	
		24 or 48 VDC	

Ratings and Specifications

Ratings

Operating Coil

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)
	50 Hz	60 Hz		Armature OFF	Armature ON				
AC	24	53.8	46	180	0.69	1.3	30% min.* ²	110% of rated voltage	Approx. 1.0 to 1.2 (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		160	0.734	1.37	10% min.* ²	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 reference values 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% max.

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

Item	Type	Resistive load	Inductive load ($\cos \phi = 0.4, L/R = 7 \text{ ms}$)
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 contact voltage		250 VAC, 125 VDC	
Maximum contact current		1 A	
Maximum switching capacity (reference value)		220 VAC, 24 W	110 VAC, 12 W
Failure rate P value (reference value)		Single contacts: 1 mA at 1 VDC, Bifurcated contacts: 100 µA at 1 VDC	
Contact structure		Single/bifurcated	
Contact materials		Au plating + Ag	

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

Ambient operating temperature	-55 to 60° C*
Ambient operating humidity	5% to 85%

* With no icing or condensation.

Characteristics

Contact resistance ¹	50 mΩ max.
Operation time ²	20 ms max.
Release time ²	20 ms max.
Maximum operating frequency	Mechanical 18,000 operations/h Rated load 1,800 operations/h
Dielectric strength	Between coil and contacts 1,500 VAC at 50/60 Hz for 1 min. 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.
Insulation resistance ³	100 MΩ 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 ² Malfunction 200 m/s ²
Endurance	Mechanical AC: 50,000,000 operations (5,000,000 ⁴) min., DC: 100,000,000 operations (5,000,000 ⁴) min. (switching frequency: 18,000 operations/h) Electrical ⁵ 200,000 operations min. (100,000 operations ⁴) (rated load, switching frequency: 1,800 operations/h)
Weight	Approx. 35 g

Note: The values at the left 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.

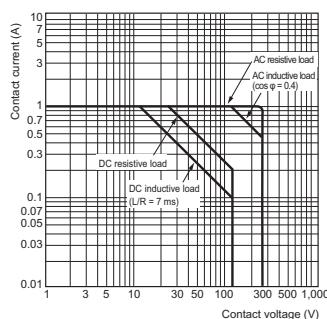
*4. This value is for bifurcated contacts.

*5. Ambient temperature condition: 23° C

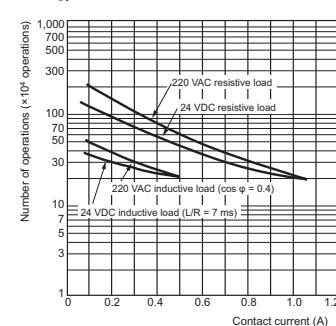
Engineering Data

Engineering Data

Maximum Switching Capacity MYQ4(Z)

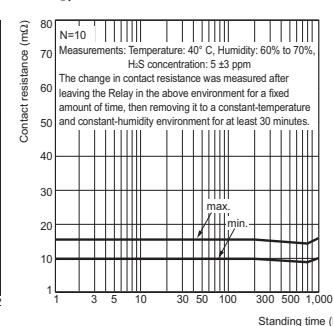


Endurance Curve MYQ4

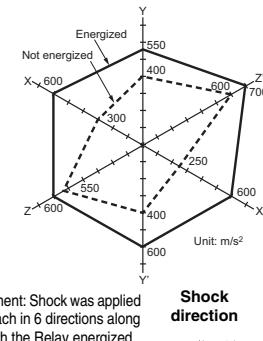


Note: The durability of bifurcated contacts is one-half that of single contacts.

H₂S Gas Data MYQ4



Malfunctioning Shock



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.

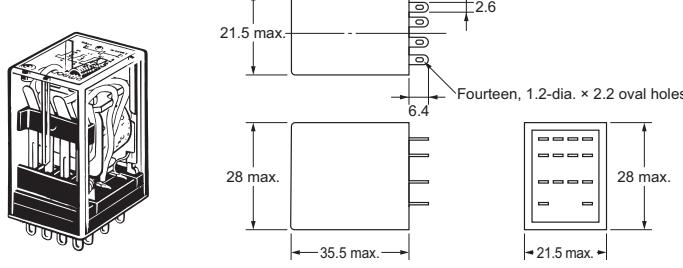
Criteria: Non-energized: 200 m/s²

Energized: 200 m/s²

(Unit: mm)

Dimensions

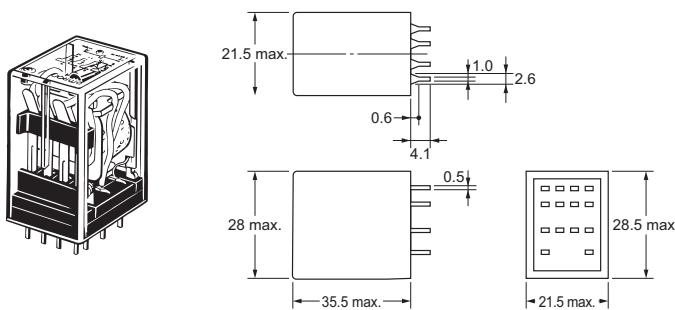
Relays with Plug-in Terminals or Soldered Terminals MYQ4(Z)(N)



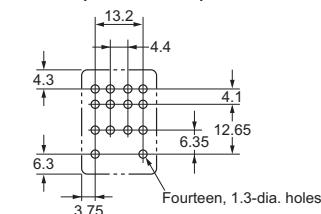
MYQ4(Z)N	
DC Models	AC Models

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.

Relays with PCB Terminals MYQ4(Z)-02

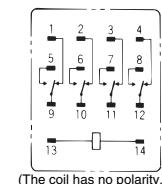


PCB Processing Dimensions (Bottom View)



Note: The dimensional tolerance is ± 0.1 .

Terminal Arrangement/Internal Connections (Bottom View) Standard Models



Safety Precautions

- For models with built-in operation indicators, check the coil polarity when wiring and wire all connections correctly (DC operation).
- Use only combinations of OMRON Relays and Sockets.
- The UL and CSA certifications for this model are the same as for the MY4-02.

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.

Latching Relays MYK

Ordering information

Relays with Plug-in or Soldered Terminals

Number of poles Classification	2 poles	
	Model	Rated voltage (V)
Standard models	MY2K	12 VAC
		24 VAC
		100 VAC
		100/110 VAC
		12 VDC
		24 VDC
		48 VDC

Relays with PCB Terminals

Number of poles Classification	2 poles	
	Model	Rated voltage (V)
Standard models	MY2K-02	24 VAC
		100 VAC
		12 VDC
		24 VDC

Ratings and Specifications

Ratings

Operating Coil

Item Rated voltage (V)	Set coil			Reset coil			Set voltage (V)	Reset 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)			
	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			
	24	52		470	25		940							
	48	27		1,800	16		3,000							

- Note:
- The rated current for AC is the value measured with a DC ammeter in half-wave rectification.
 - 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.
 - The AC coil resistance is a reference value only.
 - Operating characteristics were measured at a coil temperature of 23°C.
 - The maximum voltage capacity was measured at an ambient temperature of 23°C.

Contact Ratings

Item	Load	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 contact voltage		250 VAC, 125 VDC	
Maximum contact current		3 A	3 A
Contact structure		Single	
Contact materials		Au plating + Ag	
Ambient operating temperature		-55 to 60° C*	
Ambient operating humidity		5% to 85%	

* With no icing or condensation.

Characteristics

Contact resistance ¹	50 mΩ max.
Set	Time ²
	Minimum pulse width
Reset	Time ²
	Minimum pulse width
Maximum operating frequency	Mechanical
	Rated load
Insulation resistance ³	100 MΩ
Dielectric strength	Between coil and contacts
	Between contacts of different polarity
	Between contacts of the same polarity
	Between set/reset coils
Vibration resistance	1,500 VAC at 50/60 Hz for 1 min.
	1,000 VAC at 50/60 Hz for 1 min.
Shock resistance	Destruction
	Malfunction
Endurance	Destruction
	Malfunction
Failure rate P value (reference value) ⁵	1 mA at 1 VDC
Weight	Approx. 30 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.

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

*4. Ambient temperature condition: 23° C

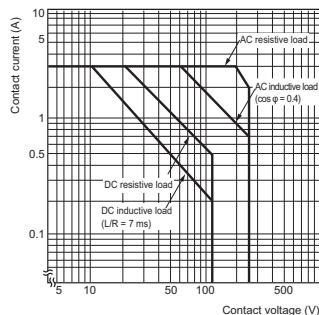
*5. This value was measured at a switching frequency of 120 operations per minute.

Engineering Data

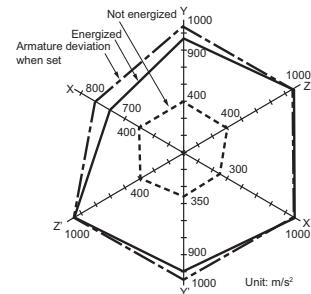
Engineering Data

MY2K-02)

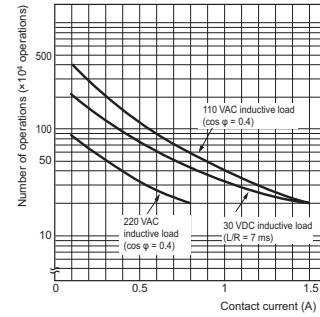
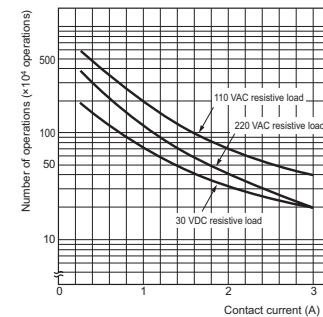
Maximum Switching Capacity



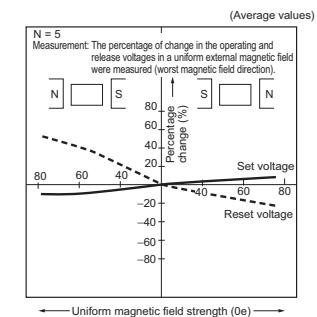
MY2K 100 VAC Malfunctioning Shock



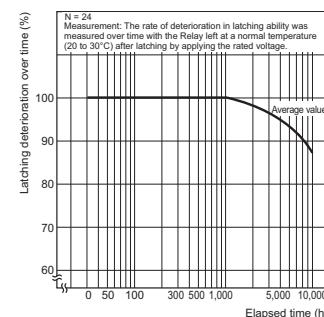
Endurance Curve



MY2K 24 VDC Magnetic Interference (External Magnetic Field)



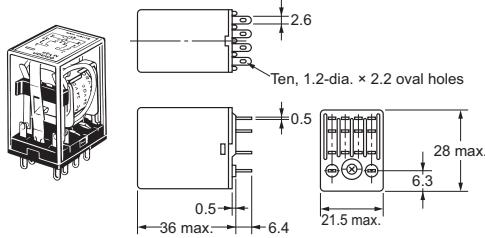
Latching Deterioration Over Time



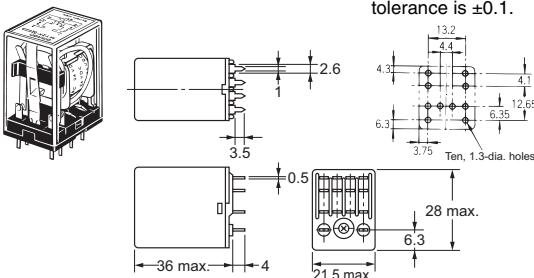
Dimensions

(Unit: mm)

Relays with Plug-in Terminals or Soldered Terminals MY2K

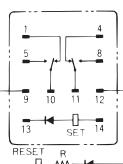


Relays with PCB Terminals MY2K-02



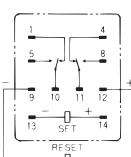
Terminal Arrangement/Internal Connections (Bottom View)

For AC



Note: R is a resistor for ampere-turn correction. This resistor is built-in to 50-VAC and higher models. (The coil has no polarity.)

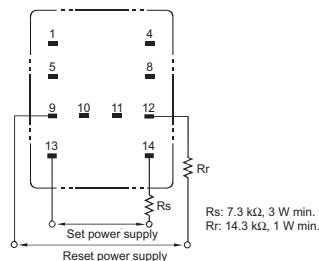
For DC



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

Safety Precautions

- For applications that use a 200 VAC power supply, connect external resistors Rs and Rr 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. The performance values given here may not be satisfied due to use over time and a reduction in latching performance due to changes in the ambient temperature or in the conditions of the application circuit. For actual use, apply the rated operating voltage with a pulse width based on the actual load and reset the Relay at least once per year to prevent degradation over time.
- 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.

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.

Hermetically Sealed Relays: MYH

Ordering Information

Relays with Plug-in or Soldered Terminals

Type Classification	4 poles	
	Model	Rated voltage (V)
Models with single contacts	MY4H	24, 100/110, or 110/120 VAC
		12, 24, 48, or 100/110 VDC
Bifurcated contacts	MY4ZH	24, 100/110, or 110/120 VAC
		12, 24, 48, or 100/110 VDC

Relays with PCB Terminals

Type Classification	4 poles	
	Model	Rated voltage (V)
Models with single contacts	MY4H-0	110/120 VAC
		24 VDC
Bifurcated contacts	MY4ZH-0	24 or 100/110 VDC

Ratings and Specifications

Ratings

Operating Coil

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)
		50 Hz	60 Hz	Armature OFF	Armature ON				
AC	24	53.8	46	180	0.69	1.3	30% min.*2	110% of rated voltage	Approx. 1.0 to 1.2 (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			
DC	12	75		160	0.73	1.37	80% max.*1	10% min.*2	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	86.2			

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for the AC rated current and ±15% for the DC coil resistance.
 2. The AC coil resistance and inductance values are reference values only.
 3. Operating characteristics were measured at a coil temperature of 23°C.
 4. The maximum voltage capacity was measured at an ambient temperature of 23°C.

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

To ensure operation, apply at least 80% of the rated value.

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

Contact Ratings

Item	Load	Models with single contacts		Bifurcated contacts	
		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	3 A at 110 VAC 1.5 A at 24 VDC
Rated carry current	3 A		3 A		
Maximum contact voltage	125 VAC 125 VDC		125 VAC 125 VDC		
Maximum contact current	3 A		3 A		
Contact structure	Single		Bifurcated		
Contact materials	Au plating + Ag				
Ambient operating temperature	-25 to 60° C*				
Ambient operating humidity	5% to 85%				

* With no icing or condensation.

Characteristics

Contact resistance ^{*1}	50 mΩ max.
Operation time ^{*2}	20 ms max.
Release time ^{*2}	20 ms max.
Maximum operating frequency	18,000 operations/h
	1,800 operations/h
Insulation resistance ^{*4}	100 MΩ min.
Dielectric strength	Between coil and contacts
	1,000 VAC at 50/60 Hz for 1 min. (700 VAC between contacts of the same polarity.)
Vibration resistance	Destruction
	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
Shock resistance	Malfunction
	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
Endurance	Destruction
	1,000 m/s ²
Electrical ^{*5}	200 m/s ²
	50,000,000 operations (5,000,000 operations ^{*4}) min. (operating frequency: 18,000 operations/h)
Failure rate P value (reference value) ^{*6}	Single contacts: 100 μA at 1 VDC Bifurcated contacts: 100 μA at 100 mVDC
Weight	Approx. 50 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.

Ambient temperature condition: 23° C

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

*4. This value is for bifurcated contacts.

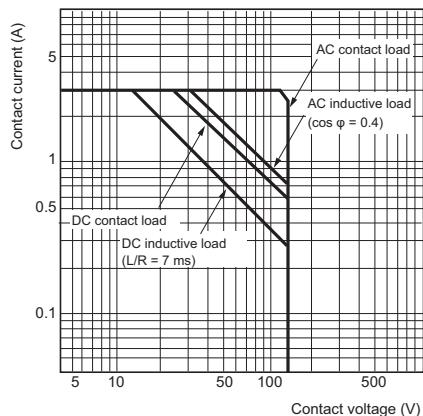
*5. Ambient temperature condition: 23° C

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

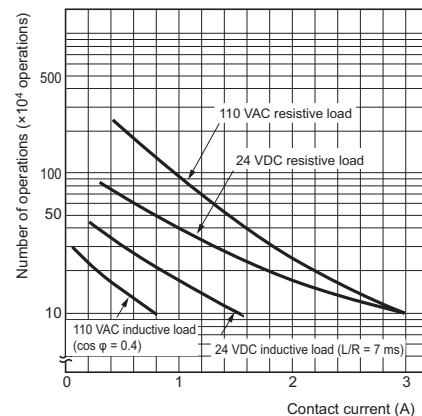
Engineering Data

Engineering Data

Maximum Switching Capacity MY4(Z)H



Endurance Curve MY4H

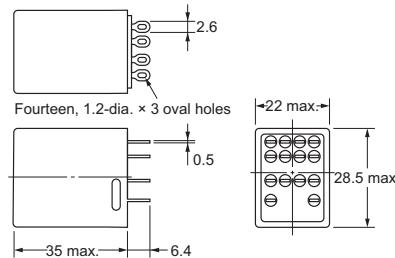
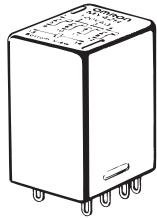


Note: The durability of bifurcated contacts is one-half that of single contacts.

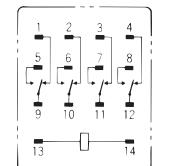
Dimensions

(Unit: mm)

Relays with Plug-in Terminals or Soldered Terminals MY4(Z)H

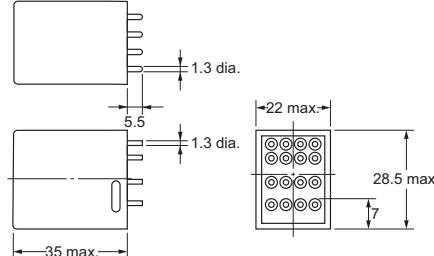
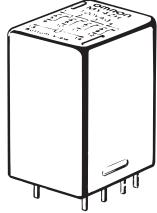


Terminal Arrangement/
Internal Connections
(Bottom View)

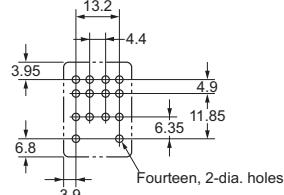


(The coil has no polarity.)

Relays with PCB Terminals MY4(Z)H-0



PCB Processing Dimensions
(Bottom View)



Safety Precautions

PCB Design for Hermetically Sealed Relays

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.

Applicable Sockets

Use only combinations of OMRON Relays and Sockets.

Application Environment for Hermetically Sealed Relays

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 insulating beads and cause short-circuiting or unintended operation due to poor insulation.

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.

Options (Order Separately)

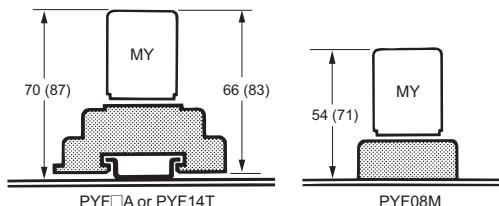
Connection Socket and Mounting Bracket Selection Table

Type	Front-mounting Sockets			Back-mounting Sockets						Relays with PCB Terminals	
	Track or screw mounting		Screw mounting only	Screwless Socket	Solder terminals		Wrapping terminals				
	---	Terminal cover structure	---		Without Mounting Brackets	With Mounting Brackets	Without Mounting Brackets	With Mounting Brackets	Without Mounting Brackets		
Model	Screw terminal size: M3		Screw terminal size: M3.5				Terminal length: 25 mm	Terminal length: 20 mm	Terminal length: 25 mm	Terminal length: 20 mm	
MY2□ MY2(S)	PYF08A (PYC-A1)	PYF08A-E (PYC-A1)	PYF08M (PYC-P)	PYF08S	PY08 (PYC-P)	PY08-Y1	PY08QN (PYC-P)	PY08QN2 (PYC-P)	PY08QN-Y1	PY08QN2-Y1	PY08-02 (PYC-P)
MY2Z□-CR	PYF08A (Y92H-3)	PYF08A-E (Y92H-3)			PY08 (PYC-1)	PY08-Y3	PY08QN (PYC-1)	PY08QN2 (PYC-1)			PY08-02 (PYC-1)
MY3□	PYF11A (PYC-A1)				PY11 (PYC-P)	PY11-Y1	PY11QN (PYC-P)	PY11QN2 (PYC-P)	PY11QN-Y1	PY11QN2-Y1	PY11-02 (PYC-P)
MY4□ MY4(S) MY4Z□ MY4Z-CBG MYQ4□ MY4H MY4ZH MY2K□	Screw terminal size: M3 PYF14A (PYC-A1)	Screw terminal size: M3.5 PYF14A-E (PYC-A1)		PYF14S	PY14 (PYC-P)	PY14-Y1	PY14QN (PYC-P)	PY14QN2 (PYC-P)	PY14QN-Y1	PY14QN2-Y1	PY14-02 (PYC-P)

- Note: 1. The information in parentheses is the model number of the applicable Mounting Bracket. Mounting Brackets are sold in sets of two. However, the PYC-P is just one Mounting Bracket.
 2. The PYF□A-E has a terminal cover with finger protection. Round terminals cannot be used. Use forked terminals or ferrules instead.
 3. Refer to *Common Socket and DIN Track Products* for the external dimensions of the Socket Relays.
 4. The Mounting Brackets are applicable for Relays with a height of 36 mm or less. If the Relay height is greater than 53 mm, use Y92H-3 for the Front-mounting Socket and PYC-1 for the Back-mounting Socket. (The Y92H-3 is a set of two Brackets and the PYC-1 is just one Bracket.)
 5. Refer to *PYF□S/P2RF-□-S* for details on Screwless Sockets.
 6. The terminal cover is integrated into the Socket.
 7. If an MY□(S) Relay with a Latching Lever is used in combination with a PY□-02 Socket for Relays with PCB Terminals and a PYC-P Mounting Brackets, the lever will not operate.
 8. We recommend using the PYC-E1 Mounting Bracket for a MY2(S) Relay with Latching Lever. (If the PYC-A1 is used with the MY2(S), the latching lever will be blocked by the Mounting Bracket and the lever will not operate.)

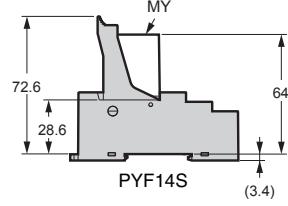
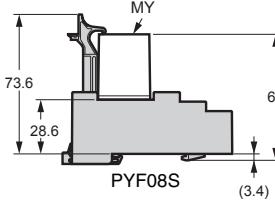
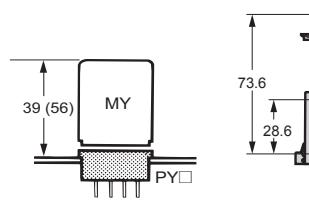
Mounting Heights with Sockets (Unit: mm)

Front-mounting Sockets



- Note: 1. The PYF□A can be mounted on a track or with screws.
 2. The heights given in parentheses are the measurements for 53-mm-high Relays.
 3. Use the PYC-P Mounting Bracket for the PYF08M.

Back-mounting Sockets



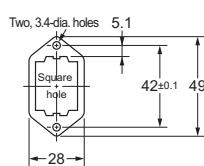
Socket Mounting Plate ($t = 1.6$) (Unit: mm)

Use a Socket Mounting Plate to mount multiple connection Sockets in a row.

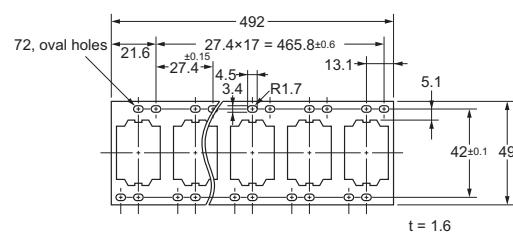
Item	Applicable Sockets	Type	For mounting 1 Socket	For mounting 8 Sockets	For mounting 36 Sockets
Without protective bracket	PY08, PY08QN(2), PY11, PY11QN(2), PY14, and PY14QN(2)				
With protective bracket	PY08-Y1, PY08QN(2)-Y1, PY11-Y1, PY11QN(2)-Y1, PY14-Y1, and PY14QN(2)-Y1	PYP-1	PYP-18	PYP-36	

Note: You can cut the PYP-18 and PYP-36 to any required length.

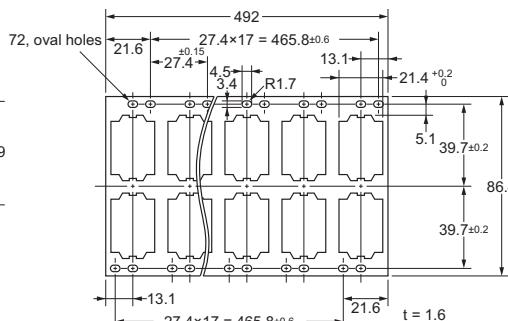
PYP-1



PYP-18



PYP-36



The minimum order for the PYP-1 is 10 pieces.

Compliance with Electrical Appliances and Material Safety Act

- All 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	Coil ratings	Contact ratings
MY	1	6 to 220 VAC 6 to 120 VDC	5 A, 200 VAC
	2		
	3		
	4 *	6 to 110 VAC 6 to 120 VDC	3 A, 115 VAC

* Under the Electrical Appliances and Material Safety Act, do not use any 4-pole models 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.

Safety Precautions

Refer to the *Common Relay Precautions*.

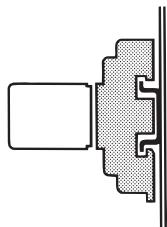
Precautions for Correct Use

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 attach case-surface-mounted models (MY□F) and tighten the screws securely (tightening torque: 0.98 N·m).

Using MY-series Relays with 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 poor contact. In this case, we recommend using the MY4Z-CBG Series, which has high contact reliability for microloads (Refer to page 25.)

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.

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 min.

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.

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2014.7

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