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

	Relays with Plug-in Terminals			PCB terminals	Case-surface mounting	
Classification	Number of poles	With operation indicator	Without operation indicator	With latching lever		
	2	MY2N*	MY2*	MY2IN(S)*	MY2-02	MY2F
Standard models (compliant with	Bifurcated	MY2ZN	MY2Z			
Electrical Appliances and Material Safety Act)	3	MY3N	MY3		MY3-02	MY3F
Material Safety Act)	4	MY4N*	MY4*	MY4IN(S)*	MY4-02	MY4F
	Bifurcated	MY4ZN*	MY4Z*	MY4ZIN(S)*	MY4Z-02	MY4ZF
	2	MY2N-D2*	MY2-D*	MY2IN-D2(S)*		
Models with diode for coil surge	Bifurcated	MY2ZN-D2	MY2Z-D		-	
absorption (DC coil specification only)	3	MY3N-D2	MY3-D			
→ ⊢	4	MY4N-D2*	MY4-D*	MY4IN-D2(S)*		
	Bifurcated	MY4ZN-D2*	MY4Z-D*	MY4ZIN-D2(S)*	1	
Models with CR circuit for coil	2	MY2N-CR*	MY2-CR*		-	
surge absorption (AC coil specification only)	4	MY4N-CR*	MY4-CR*	MY4IN-CR(S)*		
	Bifurcated	MY4ZN-CR*	MY4Z-CR*	MY4ZIN-CR(S)*		
Models with high contact reliability	4 Bifurcated		MY4Z-CBG			
Plastic sealed models	4	MYQ4N	MYQ4		MYQ4-02	
רומשוני שמופט וווטטפוש	Bifurcated		MYQ4Z		MYQ4Z-02	
Latching models (coil latching)	2		МҮ2К		MY2K-02	
Hermetic models	4		MY4H		MY4H-0	
nermetic models	Bifurcated		MY4ZH		MY4ZH-0	

Note: 1. The models in this table are UL/CSA certified. This is indicated with a certification mark on the products. (This does not include models with high contact reliability or plastic sealed, latching, or hermetically sealed models.)

2. 3.

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. 4.

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

Miniature Power Relays: MY2





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

Ordering Information When your order, specify the rated voltage.

Classification	Model	Rated voltage (V)				
Classification	Model	Standard products	Made-to-order items			
Standard models	MY2	12, 24, 100/110, or 200/220 VAC	110/120 or 220/240 VAC			
Standard models	IVI Y 2	12, 24, 48, or 100/110 VDC				
Medale with built in exerction indicators	MY2N	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC				
Models with built-in operation indicators		12, 24, 48, or 100/110 VDC				
Models with built-in diodes	MY2-D	12, 24, or 100/110 VDC	48 VDC			
Models with built-in diodes and operation indicators	MY2N-D2	12, 24, 48, or 100/110 VDC				
Models with built-in CR circuits	MY2-CR	100/110 or 200/220 VAC	110/120 or 220/240 VAC			
Models with built-in CR circuits and operation indicators	MY2N-CR	100/110 or 200/220 VAC	110/120 or 220/240 VAC			

Note: 1. Ask your OMRON representative for details on the time required to deliver made-to-order products.

2. Ask your OMRON representative for details on product specifications and the ability to manufacture products with voltages other than the above coil specifications.

3. The above models and specifications are new versions in the MY Series.

4. Except for MY2(N)-CR Relays with the above voltage specifications, all Relays have a height of 53 mm or less.

If Mounting Brackets are required, refer to page 33 for selection information.

Ratings and Specifications

Ratings

Operating Coils (Standard Models)

	Item	50 Hz 60 Hz		Coil resistance	Coil inductance (H)		Must-	Must-	Maximum	Power consumption
Rate volta	d age (V)			(Ω)	Armature OFF	Armature ON	operate voltage (V)	release voltage (V)	voltage (V)	(VA, W)
	12	106.5	91	46	0.17	0.33				Approx. 1.0 to 1.2
	24	53.8	46	180	0.69	1.3			110% of rated voltage	(at 60 Hz)
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6	-	30% min. *2		
AC	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	80% max. *1			
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	00% max. **			
	12	72	.7	165	0.73	1.37	-			
DC	24	36	.3	662	3.2	5.72		10% min. *2		
DC	48	17	.6	2,725	10.6	21.0		10% mm. **		Approx. 0.9
	100/110	8.7/	9.6	11,440	45.6	86.2				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for the AC rated current and ±15% for the DC coil resistance.
2. The AC coil resistance and inductance values are reference values only (at 60 Hz).
3. Operating characteristics were measured at a coil temperature of 23°C.
4. The maximum voltage capacity was measured at an ambient temperature of 23°C.
*1. There is variation between products, but actual values are 80% max. To ensure operation, apply at least 80% of the rated value (at a coil temperature of +23° C).
*2. There is variation between products, but actual values are 80% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value

specified value.

Contact Ratings

Load Item	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				

Type Item	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	Туре	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 resi	stance*1	50 m Ω max.								
Operation ti	me ^{*2}	20 ms max.								
Release time	e ^{*2}	20 ms max.								
Maximum	Mechanical	18,000 operatio	ons/h							
operating frequency	Rated load	1,800 operatior	,800 operations/h							
Insulation re	esistance ^{*3}	100 M Ω min.								
	Between coil and contacts									
Dielectric strength	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	Destruction	10 to 55 to 10 H	Hz, 0.5-mm single amp	olitude (1.0-mm d	ouble amplitude)	1				
resistance	Malfunction	10 to 55 to 10 H	Hz, 0.5-mm single amp	olitude (1.0-mm d	ouble amplitude)	I				
Shock	Destruction	1,000 m/s ²								
resistance	Malfunction	200 m/s ²								
Endurance	Mechanical	DC: 100,000,00	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)							
	Electrical ^{#4}	500,000 operat (rated load, swi	ions min. itching frequency: 1,80	00 operations/h)						

Item Number of poles	2 poles	No
Failure rate P value (reference value)*5	1 mA at 5 VDC	*1. *2.
Weight	Approx. 35 g	*3.
		34.4

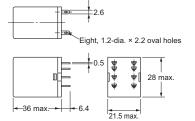
te: These are initial values.

- Measurement conditions: 1 A at 5 VDC using the voltage drop method. Measurement conditions: With rated operating power applied. Ambient temperature condition: 23° C 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

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





MY2-D

14

1

13

-П

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

Standard Models 4 5 | 8 12 . -П 13 14

Terminal Arrangement/In-ternal Connections

(Bottom View)



MY2N-D2

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14

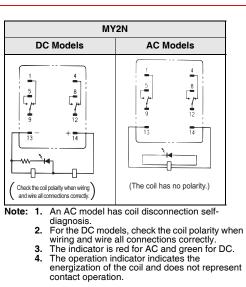
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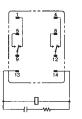
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Check the coil polarity when wiring and wire all connections correctly.



MY2-CR





MY2N-CR

(The coil has no polarity.)

(The coil has no polarity.)

(Unit: mm)

Miniature Power Relays: MY2Z



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

Ordering Information When your order, specify the rated voltage.

Classification	Medel	Rated voltage (V)				
Classification	Model	Standard products	Made-to-order items			
Standard models	MY2Z	100/110 or 200/220 VAC	12, 24, 100/120, or 200/240 VAC			
Standard models		12 or 24 VDC	48 or 100/110 VDC			
Medale with built in exerction indicators	MYOZN	100/110 or 200/220 VAC	12, 24, 100/120, or 200/240 VAC			
Models with built-in operation indicators	MY2ZN	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)

	ltem	Rated curr	ent (mA)	Collegaigteres	Coil induc	ctance (H)	Must-	Must-	Maximum	Power consumption
Rate volta	ed age (V)	50 Hz	60 Hz	Coil resistance (Ω)	Armature OFF	Armature ON	operate voltage (V)	release voltage (V)	voltage (V)	(VA, W)
	12	106.5	91	46	0.17	0.33				Approx. 1.0 to 1.2
	24	53.8	46	180	0.69	1.3			110% of rated voltage	(at 60 Hz)
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6		30% min.*2		
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1		30% mm		Approx. 0.9 to 1.1
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07	80% max.*1			(at 60 Hz)
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	00 % max. **			
	12	75		160	0.73	1.37				
DC	24	36.	9	650	3.2	5.72		10% min.*2		
DC	48	18.	5	2,600	10.6	21.0		10% mm.**		Approx. 0.9
	100/110	9.1/	10	11,000	45.6	86.2	1			

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 80% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value

specified value.

Contact Ratings

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				

Type Item	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.

Item	Туре	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 res	istance ^{*1}	50 m Ω max.							
Operation ti	me ^{*2}	20 ms max.							
Release tim	e*2	20 ms max.							
Maximum	Mechanical	18,000 opera	tions/h						
operating frequency	Rated load	1,800 operati	,800 operations/h						
Insulation re	esistance*3	100 M Ω min.							
	Between coil and contacts								
Dielectric strength	Between contacts of different polarity	2,000 VAC at 50/60 Hz for 1 min.							
0g	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min.							
Vibration	Destruction	10 to 55 to 10	Hz, 0.5-mm single ar	nplitude (1.0-mm	double amplitude)				
resistance	Malfunction	10 to 55 to 10	Hz, 0.5-mm single ar	nplitude (1.0-mm	double amplitude)				
Shock	Destruction	1,000 m/s ²							
resistance	Malfunction	200 m/s ²							
Endurance	Mechanical	50,000,000 o	50,000,000 operations min. (operating frequency: 18,000 operations/h)						
Linutance	Electrical*4	200,000 oper	ations min. (rated load	l, switching frequ	ency: 1,800 operations/h))			

Item Number of poles	2 poles	N
Failure rate P value (reference value)*5	100 µA at 1 VDC	*1. *2.
Weight	Approx. 35 g	*3. *4.

lote: These are initial values.

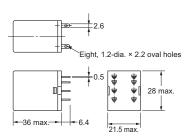
Measurement conditions: 1 A at 5 VDC using the voltage drop method. Measurement conditions: With rated operating power applied. Ambient temperature condition: 23° C Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement. Ambient temperature condition: 23°C

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

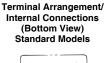
Dimensions

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





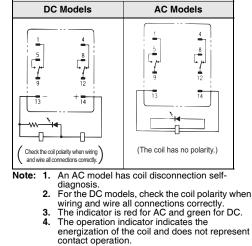
* For the MY2Z-CR and MY2ZN-CR, this dimension is 53 mm max.





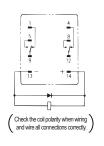
(The coil has no polarity.)

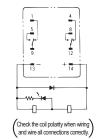
MY2ZN-D2

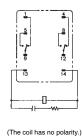


MY2ZN

MY2Z-D







MY2Z-CR

MY2ZN-CR



(The coil has no polarity.)

(Unit: mm)

Miniature Power Relays: MY3



MY

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

Ordering Information When your order, specify the rated voltage.

Classification	Model	Rated voltage (V)			
Classification	woder	Standard products	Made-to-order items		
Standard models	МҮЗ	24, 100/110, 200/220, or 220/240 VAC	12, or 110/120 VAC		
Standard models	INI Y S	12, 24, or 100/110 VDC	48 VDC		
Madala with built in an avation indicators	MY3N	24, 100/110, 200/220, or 220/240 VAC	12, or 110/120 VAC		
Models with built-in operation indicators		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)

	ltem	Rated curr	ent (mA)	Coil resistance	Coil induc	ctance (H)	Must-	Must-	Maximum	Power consumption
Rate volta	ed age (V)	50 Hz	60 Hz	(Ω)	Armature OFF	Armature ON	operate voltage (V)	release voltage (V)	voltage (V)	(VA, W)
	12	106.5	91	46	0.17	0.33				Approx. 1.0 to 1.2
	24	53.8	46	180	0.69	1.3			110% of rated voltage	(at 60 Hz)
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6		30% min.*2		Approx. 0.9 to 1.1 (at 60 Hz)
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1	80% max.*1			
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07				
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	00 % max.**			
	12	75	5	160	0.73	1.37				
DC	24	36.	9	650	3 .2	5.72		10% min.*2	2	Approx. 0.9
DC	48	18.	5	2,600	10.6	21.0		10% min. **		Approx. 0.9
	100/110	9.1/	10	11,000	45.6	86.2	1			

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

specified value.

Contact Ratings

Load Item	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	3PDT			
Contact structure	Single			
Contact materials	Ag			

Type Item	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

ltem	Туре	Standard models	Models with built-in operation indicators	Models with built-in diodes	Model with built-in operation indicator and diode				
Contact res	istance ^{*1}	50 mΩ max.							
Operation ti	ime ^{*2}	20 ms max.							
Release tim	e*2	20 ms max.							
Maximum	Mechanical	18,000 operations/h							
operating frequency	Rated load	1,800 operations/h							
Insulation re	esistance ^{*3}	100 M Ω min.							
	Between coil and contacts								
Dielectric strength	Between contacts of different polarity	2,000 VAC at 50/60 Hz for 1 min.							
••g	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min.							
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)							
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)							
Shock	Destruction	1,000 m/s ²							
resistance	Malfunction	200 m/s ²							
Endurance	Mechanical	AC: 50,000,000 operatio DC: 100,000,000 operati (switching frequency: 18							
	Electrical ^{#4}	500,000 operations min.	(rated load, switching frequence	y: 1,800 operations/h)					

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

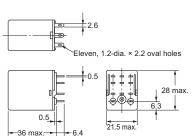
e: These are initial values.

- Measurement conditions: 1 A at 5 VDC using the voltage drop method Measurement conditions: With rated operating power applied. Ambient temperature condition: 23° C Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement. Ambient temperature condition: 23°C
 - This value was measured at a switching frequency of 120 operations per minute.

Dimensions

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

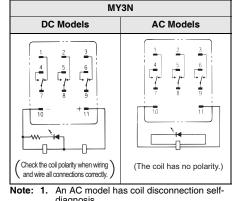




Terminal Arrangement/ Internal Connections (Bottom View) Standard Models 4

> 10 11 (The coil has no polarity.)

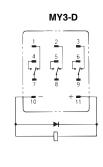
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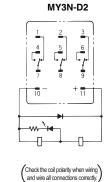
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3. 4.

An AC model has coll 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.



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



(Unit: mm)

Miniature Power Relays: MY4



Refer to the standards certifications and compliance section of your OMRON website for the latest

information on certified models.

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Ordering Information When your order, specify the rated voltage.

Classification	Medel	Rated voltage (V)			
Classification	Model	Standard products	Made-to-order items		
Standard models	MY4	24, 100/110, or 200/220 VAC	12, 110/120, or 220/240 VAC		
Standard models	W 14	12, 24, 48, or 100/110 VDC			
Modele with built in operation indicators	MY4N	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC			
Models with built-in operation indicators	WIT4N	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		

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)

	Item	Rated curr	ent (mA)	0	Coil indu	ctance (H)	Must-	Must-		Denne er	
Rate volta	ed age (V)	50 Hz 60 Hz		Coil resistance (Ω)	Armature OFF	Armature ON	operate voltage (V)	release voltage (V)	Maximum voltage (V)	Power consumption (VA, W)	
	12	106.5	91	46	0.17	0.33				Approx. 1.0 to 1.2	
	24	53.8	46	180	0.69	1.3			5 min.*2 110% of rated voltage	(at 60 Hz)	
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6		200/ min *2			
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1		30 % mm		Approx. 0.9 to 1.1	
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07	80% max.*1			110% of rated	(at 60 Hz)
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	00 % max.**				
	12	72.	7	165	0.73	1.37					
DC	24	36.	3	662	3.2	5.72	-	10% min.* ²		Annexov 0.0	
DC	48	17.	6	2,725	10.6	21.0				Approx. 0.9	
	100/110	8.7/9	9.6	11,440	45.6	86.2	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. Note: 1.

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

3. Operating characteristics were measured at a coll 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

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				
Contact configuration	4PDT				
Contact structure	Single				
Contact materials	Au cladding + Ag a	lloy			

Type Item	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	Туре	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 res	istance ^{*1}	50 m Ω max.	50 mΩ max.							
Operation ti	me ^{*2}	20 ms max.								
Release time	e*2	20 ms max.								
Maximum	Mechanical	18,000 opera	ations/h							
operating frequency	Rated load	1,800 operat	1,800 operations/h							
Insulation re	esistance*3	100 M Ω min.								
	Between coil and contacts									
Dielectric strength	Between contacts of different polarity	2,000 VAC a	2,000 VAC at 50/60 Hz for 1 min.							
•	Between contacts of the same polarity	1,000 VAC a	1,000 VAC at 50/60 Hz for 1 min.							
Vibration	Destruction	10 to 55 to 10	0 Hz, 0.5-mm single a	mplitude (1.0-mn	n double amplitue	de)				
resistance	Malfunction	10 to 55 to 10	0 Hz, 0.5-mm single a	mplitude (1.0-mn	n double amplitue	de)				
Shock	Destruction	1,000 m/s ²								
resistance	Malfunction	200 m/s ²								
Endurance	Mechanical	DC: 100,000	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	Note
Failure rate P value (reference value)*5	1 mA at 1 VDC	*1. *2.
Weight	Approx. 35 g	*3. *4. /

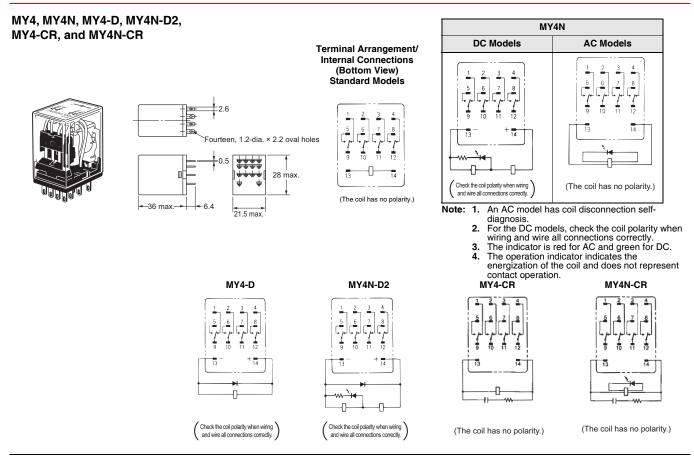
e: These are initial values.

*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.)
	AC magnetic switch 35 VA at 100 VAC Making current: 4 A, Steady-state current: 0		ON: 1s OFF: 3s	500,000
MY4 DC24V	DC colonoid	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
	DC solenoid	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



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 When your order, specify the rated voltage.

Classification	Model	Rat	Rated voltage (V)			
Classification	Model	Standard products	Made-to-order items			
Standard models	MY4Z	100/110 or 200/220 VAC	110/120 or 220/240 VAC			
Standard models	WI Y 42	12, 24, 48, or 100/110 VDC				
	M/(47)	100/110 or 200/220 VAC	24, 110/120, or 220/240 VAC			
Models with built-in operation indicators	MY4ZN	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: 1. Ask your OMRON representative for details on the time required to deliver made-to-order products.
 2. Ask your OMRON representative for details on product specifications and the ability to manufacture products with voltages other than the above coil

specifications. 3. The above models and specifications are new versions in the MY Series.

Ratings and Specifications

Ratings **Operating Coil (Standard Models)**

	Item	Rated curr	ent (mA)	Coil resistance	Coil induc	Coil inductance (H)		Release	Maximum	Dewer concumption
Rate volta	ed age (V)	50 Hz	60 Hz	(Ω)	Armature OFF	Armature ON	operate voltage (V)	voltage (V)	voltage (V)	Power consumption (VA, W)
	12	106.5	91	46	0.17	0.33				Approx. 1.0 to 1.2
	24	53.8	46	180	0.69	1.3				(at 60 Hz)
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6		30% min.* ²	110% of rated voltage	
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1	80% max.*1			Approx. 0.9 to 1.1
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07				(at 60 Hz)
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	00 % max. **			
	12	72.	7	165	0.73	1.37				
DC	24	36.	3	662	3.2	5.72	1	10% min.*2	*2	Amprov. 0.0
DC	48	17.	6	2,725	10.6	21.0		10 % 11111.**		Approx. 0.9
	100/110	8.7/9	9.6	11,440	45.6	86.2	1			

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

3.

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

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		
Contact configuration	4PDT		
Contact structure	Bifurcated		
Contact materials	Au cladding + Ag a	lloy	

Type Item	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	Туре	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 res	istance ^{*1}	50 m Ω max.						
Operation ti	me*2	20 ms max.						
Release tim	e ^{*2}	20 ms max.						
Maximum	Mechanical	18,000 opera	ions/h					
operating frequency	Rated load	1,800 operati	ons/h					
Insulation re	esistance*3	100 $M\Omega$ min.						
	Between coil and contacts							
Dielectric strength	Between contacts of different polarity	2,000 VAC at	2,000 VAC at 50/60 Hz for 1 min.					
•••••• y ••	Between contacts of the same polarity	1,000 VAC at 50/60 Hz for 1 min.						
Vibration	Destruction	10 to 55 to 10	Hz, 0.5-mm single ar	nplitude (1.0-mm d	louble amplitude	e)		
resistance	Malfunction	10 to 55 to 10	Hz, 0.5-mm single ar	nplitude (1.0-mm d	louble amplitude	e)		
Shock	Destruction	1,000 m/s ²						
resistance	Malfunction	200 m/s ²						
Endurance	Mechanical		20,000,000 operations min. (switching frequency: 18,000 operations/h)					
Endurance	Electrical ^{#4}	100,000 oper (rated load, s	ations min. witching frequency: 1,	800 operations/h)				

Item Number of poles		Note:
Failure rate P value (reference value)*5	100 µA at 1 VDC	An
Weight	Approx. 35 g	*3. Me me

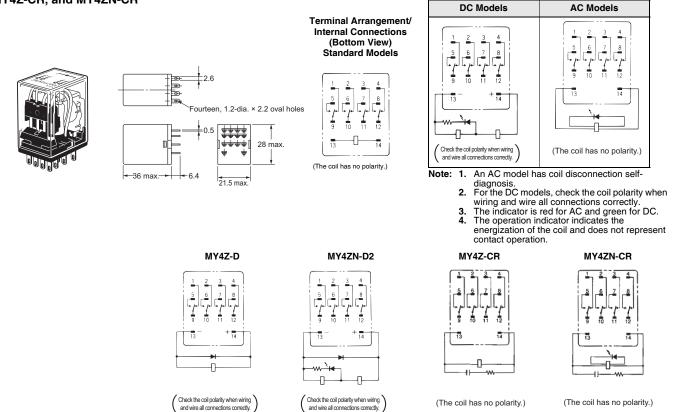
These are initial values.

easurement conditions: 1 A at 5 VDC using the voltage drop method easurement conditions: With rated operating power applied. mbient temperature condition: 23° C easurement conditions: For 500 VDC applied to the same location as for dielectric strength

*4. Ambient temperature condition: 23° C
*5. This value was measured at a switching frequency of 120 operations per minute.

Dimensions

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



(Unit: mm)

MY4ZN

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.

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Ordering Information

Be sure to clearly indicate the rated voltage and add "(S)" when you place your order. Example: MY2IN 110/110 VAC (S)

Classification	Contact configuration	Model	Rated voltage (V)			
Classification	Contact configuration	wodei	Standard products	Made-to-order items		
	0			100/110 or 200/220 VAC		
	2	MY2IN (S)	12, 24, or 48 VDC			
Models with built-in operation	4	MY4IN (S)	-	100/110 or 200/220 VAC		
indicators	4	WIT4IN (3)	12, 24, or 48 VDC			
	4 bifurcated		-	100/110 or 200/220 VAC		
	4 bifurcated MY4ZIN (S)			12, 24, or 48 VDC		
	2	MY2IN-D2 (S)	12 or 24 VDC	48 VDC		
Models with built-in diode for coil surge absorption	4	MY4IN-D2 (S)	24 VDC	12 or 48 VDC		
	4 bifurcated	MY4ZIN-D2 (S)	24 VDC	12 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: 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

	Item	Rated cur	rrent (mA)	Coil resistance	Coil resistance Coil inductance (H)		Must-operate	Must-release	Maximum	Power consumption
Rated	voltage (V)	50 Hz	60 Hz	(Ω)	Armature OFF	Armature ON	voltage (V)	voltage (V)	voltage (V)	(VA, W)
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6		30% min.*2		Approx. 0.9 to
AC	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07	-	50 % mm.	110% of	1.1 (at 60 Hz)
	12	7	5	160	0.73	1.37	80% max.*1		rated	
DC?	24	37	' .7	636	3.2	5.72		10% min.* ²	voltage	Approx. 0.9
	48	18	3.8	2,560	10.6	21				

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 Note: 1. DC coil resistance. The AC coil resistance and inductance values are reference values only (at 60 Hz).

2. 3. 4. The AC contresistance and inductance values are reference values only (at or h2).
 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	2 poles		4 p	oles	4 poles (bifurcated)		
Load Item	Resistive load $(\cos \varphi = 1)$	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	Resistive load (cos φ = 1)	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	Resistive load (cos φ = 1)	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	
Rated load	5 A at 250 VAC 5 A at 30 VDC	2 A at 250 VAC 2 A at 30 VDC	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.

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	Туре	2 poles	4 poles	4 poles (bifurcated)			
Contact resis	stance*1	100 mΩ max.	+				
Operation tin	me* ² 20 ms max.						
Release time	\$ 2	20 ms max.					
Maximum	Mechanical	18,000 operations/h					
operating frequency	Rated load	1,800 operations/h					
Insulation rea	sistance*3	1,000 MΩ min.					
	Between coil and contacts						
Dielectric strength	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	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude	e (1.0-mm double amplitude)				
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude	e (1.0-mm double amplitude)				
Shock	Destruction	1,000 m/s ²					
resistance	Malfunction	200 m/s ²					
	Mechanical	AC: 50,000,000 operations min., DC: 100,0 frequency: 18,000 operations/h)	000,000 operations min. (switching	20,000,000 operations min. (switching frequency: 18,000 operations/h)			
Endurance	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 F (reference va		1 mA at 5 VDC	1 mA at 1 VDC	100 µA at 1 VDC			
Weight Approx. 35 g							

 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.

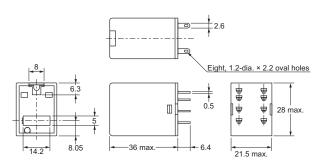
(Unit: mm)

Dimensions

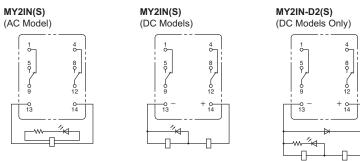
List of Models

MY2IN (S) MY2IN-D2 (S)

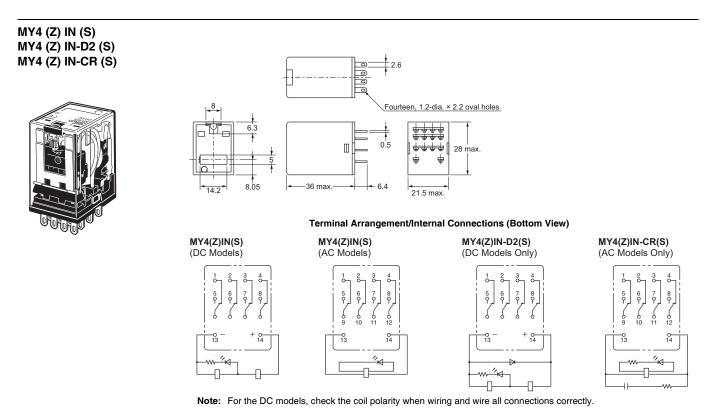




Terminal Arrangement/Internal Connections (Bottom View)



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



Relays with PCB Terminals: MY-02



MY

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

Ordering Information When your order, specify the rated voltage.

Number	Classification	Model	R	ated voltage (V)
of poles	Classification	wodei	Standard products	Made-to-order items
	Models with single	MY2-02	100/110, 200/220, or 200/240 VAC	12, 24, 100, or 110/120 VAC
2 poles	contacts	WI ¥ 2-02	12, 24 or 48 VDC	100/110 VDC
0	Models with single	MY3-02	100/110 or 200/220 VAC	12, 24, 110/120, or 220/240 VAC
3 poles	contacts		24 VDC	12, 48, or 100/110 VDC
	Models with single	MV4 00	100/110 or 200/220 VAC	12, 24, 110/120, or 220/240 VAC
4	contacts	MY4-02	12, 24 or 100/110 VDC	48 VDC
4 poles	Diference to all a surface to			100/110, 110/120, or 200/220 VAC
	Bifurcated contacts	MY4Z-02	100/110 VDC	12, 24, or 48 VDC

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.

Ratings and Specifications

Ratings

Operating Coil (Standard Models)

	Item	Rated curr	ent (mA)	Coil	Coil induc	tance (H)	Must-operate	Must-release	Maximum voltage (V)	Power consumption
Rated	voltage (V)	50 Hz	60 Hz	resistance (Ω)	Armature OFF	Armature ON	voltage (V)	voltage (V)		(VA, W)
	12	106.5	91	46	0.17	0.33				Approx. 1.0 to 1.2
	24	53.8	46	180	0.69	1.3			110% of rated voltage	(at 60 Hz)
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6				
AC	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	80% max.*1			
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	00 /o max.			
	12	75		160	0.73	1.37				
DC	24	36.	9	650	3.2	5.72		10% min.* ²		Approx. 0.9
50	48	18.	5	2,600	10.6	21.0				Αρριοχ. 0.9
	100/110	9.1/	10	11,000	45.6	86.2				

1. 2. 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). Note:

The AC conresistance 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	2 or 3 poles		4	4 poles		4 poles, bifurcated contacts	
Load Item	Resistive load	Inductive load $(\cos \varphi = 0.4, L/R = 7 ms)$	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	
Rated load	5 A at 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 VE	C	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	Туре	Standard models
Ambient operating temperature*		–55 to 70° C
Ambient operating humidity		5% to 85%
* With no icing or condensation.		

no icing of condensation.

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	Mechanical	18,000 operations/h				
operating frequency	Rated load	1,800 operations/h				
Insulation resistan	ice ^{*3}	100 MΩ min.				
	Between coil and contacts					
Dielectric strength	Between contacts of different polarity	2,000 VAC at 50/60 Hz for 1 min. 1,000 VAC at 50/60 Hz for 1 min.				
•	Between contacts of the same polarity					
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single ar	nplitude (1.0-mm double amplitude)			
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single ar	nplitude (1.0-mm double amplitude)			
Shock resistance	Destruction	1,000 m/s ²				
SHOCK resistance	Malfunction	200 m/s ²				
Endurance	Mechanical	DC: 100,000,000 operations min. (switchin		AC: 20,000,000 operations min. (switching frequency: 18,000 operations/h)		
Endurance	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 (refe	rence value)*5	1 mA at 5 VDC	1 mA at 1 VDC	100 µA at 1 VDC
Weight		Approx. 35 g		

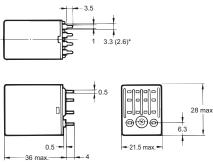
Note: These are initial values.
*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method
*2. Measurement conditions: With rated operating power applied. Ambient temperature condition: 23° C
*3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.
*4. Ambient temperature condition: 23° C
*5. This value was measured at a switching frequency of 120 operations per minute.

Dimensions

Relays with PCB Terminals MY□-02

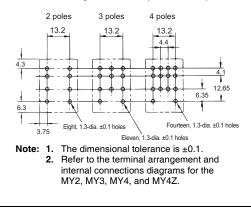


The figures and dimensions given here are for the MY4-02. The 2-pole and 3-pole models conform to these dimensions.



*Dimensions in parentheses are for the MY4-02.

PCB Processing Dimensions (Bottom View)



(Unit: mm)

Case-surface-mounting Relays: MY



MY

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

Ordering Information When your order, specify the rated voltage.

Number of poles	Classification	Model	Rated voltage (V)			
Number of poles	Classification	woder	Standard products	Made-to-order items		
	Models with single	MY2F	24, 110/110, 100/120 or 200/220 VAC	220/240 VAC		
2 poles	contacts	MY2F	12 or 24 VDC	48 or 100/110 VDC		
3 poles	Models with single	МҮЗҒ	100/110 VAC	24 or 200/220 VAC		
s poles	contacts		-	24 or 100/110 VDC		
	Models with single	MY4F	100/110 or 200/220 VAC	24 or 110/120 VAC		
4 poloo	contacts		12 or 24 VDC	48 or 100/110 VDC		
4 poles	Bifurcated contacts	MY4ZF	200/220 VAC			
	Difurcated Contacts		-	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 curr	ent (mA)	Coil	Coil induc	tance (H)	Must-operate	Release	Maximum	Power consumption
Rated	voltage (V)	50 Hz	60 Hz	resistance (Ω)	Armature OFF	Armature ON	voltage (V)	voltage (V)	voltage (V)	(VA, W)
	24	53.8	46	180	0.69	1.3			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				
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1		30% 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	80% max.*1			
	12	75	5	160	0.73	1.37				
DC	24	36.	9	650	3.2	5.72	100/ min	10% min.* ²		A
DC	48	18.	5	2,600	10.6	21.0				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 ±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

Number of poles	2 or 3 poles		4 poles		
Load Item	Resistive load	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	Resistive load	Inductive load (cos ϕ = 0.4, L/R = 7 ms)	
Rated load	5 A at 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		

Type	Standard models
Ambient operating temperature*	–55 to 70° C
Ambient operating humidity	5% to 85%
* With no joing or condensation	•

* With no icing or condensation.

Characteristics

Item	Number of poles	2 or 3 poles	4 poles		
Contact resis	tance*1	50 m Ω max.			
Operation tim	1e ^{*2}	20 ms max.			
Release time	\$2	20 ms max.			
Maximum	Mechanical	18,000 operations/h			
operating frequency	Rated load	1,800 operations/h			
Insulation res	sistance*3	100 MΩ min.			
	Between coil and contacts				
Dielectric strength	Between contacts of different polarity	e 1,000 VAC at 50/60 Hz for 1 min.			
	Between contacts of the same polarity				
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single (1.0-mm double amplitude)	amplitude		
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single (1.0-mm double amplitude)	amplitude		
Shock	Destruction	1,000 m/s ²			
resistance	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)			
Endurance	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.

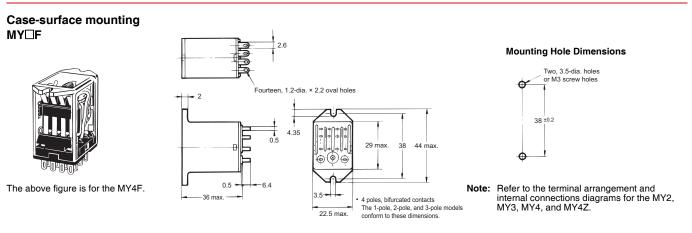
*1. Measurement conditions: 1 A at 5 VDC using the voltage drop method
*2. Measurement conditions: With rated operating power applied. Ambient temperature condition: 23° C

*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

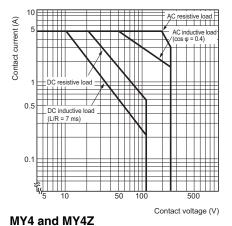


(Unit: mm)

Engineering Data MY2, MY3, MY4, MY4Z, MYD-02, and MYDF

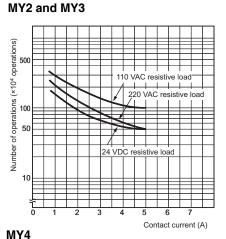
Engineering Data

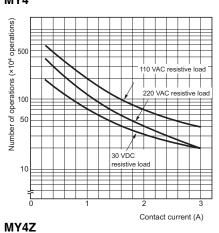
Maximum Switching Capacity MY2 and MY3



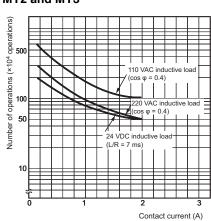
Contact current (A) 0.5 DC resistive load DC inductive load (L/R = 7 ms) 0.1 ++++ ŧ∭ Contact voltage (V)

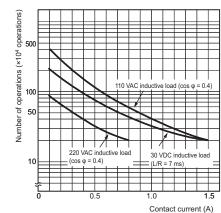
Endurance Curve





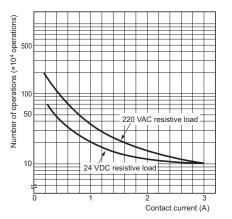
MY2 and MY3

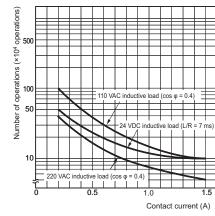




MY4Z

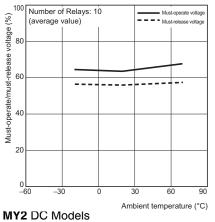
MY4

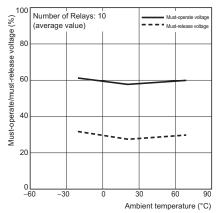




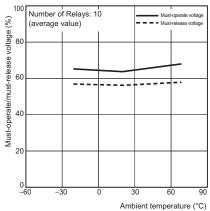
20

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

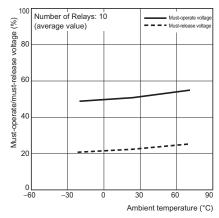




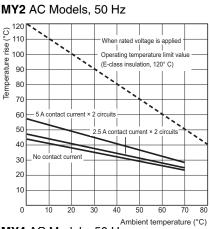
MY4 AC Models

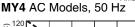


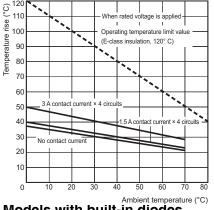
MY4 DC Models

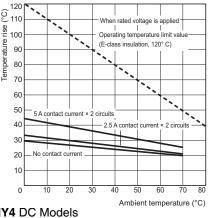


Ambient Temperature vs. Coil Temperature Rise



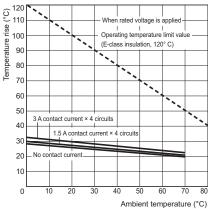






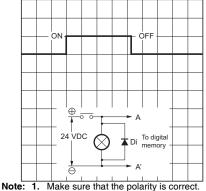
MY4 DC Models

MY2 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 Without Diode With Diode

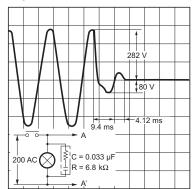


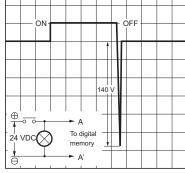
The release time will increase, but the 20-ms specification for standard models is satisfied. Diode properties:The diode has a reversed dielectric strength of 1,000 V. Forward current: 1 A

2.

3.

Models with Built-in CR Circuits With CR



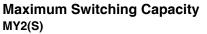


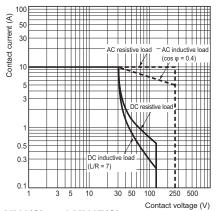
Without CR 5 600 V А To digital memory scope 200 AC Α

OMRON

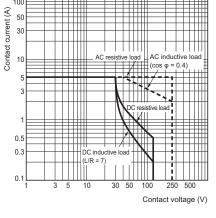
Engineering Data MY(S)

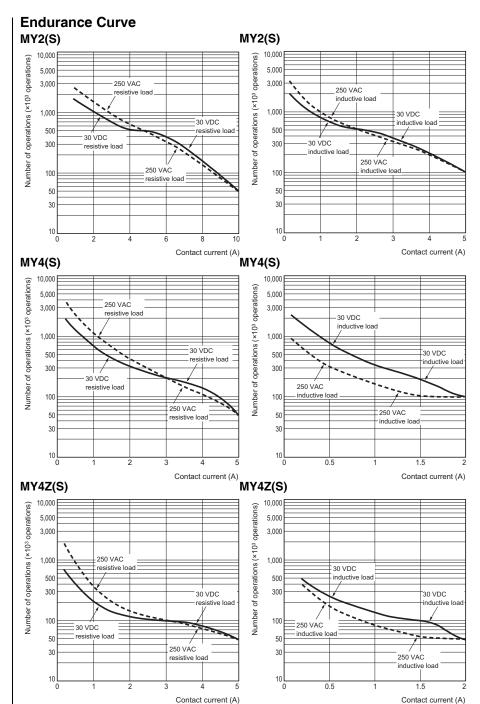
Engineering Data







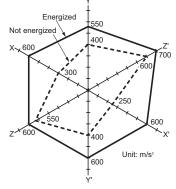




Common Specifications for MY2, MY3, MY4, MY4Z, MY⁻⁰², MY^{-F}, and MY(S) Malfunctioning Shock

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8



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, MYD-02, and MYDF

- 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
	2		5 A, 250 VAC ($\cos \phi = 1.0$)	
MY□	3	6 to 125 VDC 6 to 240	5 A, 250 VAC ($\cos \varphi = 1.0$) 0.8 A, 250 VAC ($\cos \varphi = 0.4$)	10,000 operations
	4	VDC	3 A, 120 VAC ($\cos \varphi = 1.0$) 0.8 A, 120 VAC ($\cos \varphi = 0.4$)	

UL-certified Models (File No. E41515)

Model	Number of poles	Coil ratings	Contact ratings	Certified number of operations	
			7A, 240 VAC (General Use)		
			7A, 24 VDC (Resistive)		
			5A, 240 VAC (General Use)	6,000	
			5A, 250 VAC (Resistive)	0,000	
	2		5A, 30 VDC (Resistive)		
	2		3A, 265 VAC (Resistive)		
			1/6HP, 250 VAC		
			1/8HP, 265 VAC	1,000	
			1/10HP, 120 VAC		
			B300 Pilot Duty	6,000	
		6 to 240 VAC 6 to 125 VDC	5A, 28 VDC (Resistive)	6 000	
	3		5A, 240 VAC (General Use)	6,000	
			1/6 HP, 250 VAC	1,000	
MY			5A, 28 VDC (General Use) (Same polarity)		
			5A, 240 VAC (General Use) (Same polarity)		
			5A, 30 VDC (Resistive) (Same polarity)	6,000	
	4		5A, 250 VAC (Resistive) (Same polarity)		
	4		0.2A, 120 VDC (Resistive) (Same polarity)		
			1/6HP, 250 VAC (Same polarity)	1,000	
			1/10HP, 120 VAC (Same polarity)	1,000	
			B300 Pilot Duty (Same polarity)	6,000	

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

• 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		
	2	6 to 240	2 A, 30 VDC inductive load 2 A, 200 VAC inductive load		
MY□	4	VAC 6 to 125	1.5 A, 30 VDC inductive load 0.8 A, 200 VAC inductive load 1.5 A, 115 VAC inductive load		

CSA-certified Models (File No. LR31928)

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	2	110, 110/120, 200/	10 A, 250 VAC ($\cos \varphi = 1$) 10 A, 30 VDC (L/R = 0 ms)		MY2: 10,000 operations
released models)	4	220, and 220/240 VAC 6, 12, 24, 48, 100/	5 A, 250 VAC (cos φ = 1) 5 A, 30 VDC (L/R = 0 ms)	6692 (VDE0435)	MY4: 100,000 operations MY4Z: 50,000 operations (AC)

UL508-certified Models (File No. 41515)

Model	Number of poles	Coil ratings	Contact ratings	File No.	Certified number of operations	
			10A, 250 VAC (General Use)			
			10A, 30 VDC (General Use)			
			7A, 240 VAC (General Use)			
			7A, 24 VDC (Resistive)		6,000	
			5A, 240 VAC (General Use)		8,000	
	2		5A, 250 VAC (Resistive)			
	2		5A, 30 VDC (Resistive)			
		6 to 240 VAC 6 to 125 VDC	3A, 265 VAC (Resistive)	- E41515 (UL508)		
			1/6HP, 250 VAC			
MY			1/8HP, 265 VAC		1,000	
(New model)			1/10HP, 120 VAC			
			B300 Pilot Duty (Same polarity)		6,000	
			5A, 28 VDC (General Use) (Same polarity)			
			5A, 240 VAC (General Use) (Same polarity)			
			5A, 30 VDC (Resistive) (Same polarity)		6,000	
	4		5A, 250 VAC (Resistive) (Same polarity)			
	4		0.2A, 120 VDC (Resistive) (Same polarity)	-		
			1/6HP, 250 VAC (Same polarity)		1,000	
			1/10HP, 120 VAC (Same polarity)]	1,000	
			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	
			7A, 240 VAC (General Use)			
			7A, 24 VDC (Resistive)			
			5A, 240 VAC (General Use)		6,000	
			5A, 250 VAC (Resistive)		8,000	
	2		5A, 30 VDC (Resistive)			
	2		3A, 265 VAC (Resistive)			
		6 to 240 VAC 6 to 125 VDC	1/6HP, 250 VAC	LR31928 - (CSA C22.2) (No. 14)		
			1/8HP, 265 VAC		1,000	
MY			1/10HP, 120 VAC			
			B300 Pilot Duty (Same polarity)		6,000	
			5A, 240 VAC (General Use) (Same polarity)			
			5A, 28 VDC (General Use) (Same polarity)			
			5A, 250 VAC (Resistive) (Same polarity)		6,000	
	4		5A, 30 VDC (Resistive) (Same polarity)			
	4		0.2A, 120 VDC (Resistive) (Same polarity)			
			1/6HP, 250 VAC (Same polarity)		1,000	
			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 2 (newly released models) 4	2	6 to 240 VAC	10 A, 250 VAC (resistive) 2 A, 250 VAC (PF0.4) 10 A, 30 VDC (resistive) 2 A, 30 VDC (L/R = 7 ms)	00/10014	MY2: 50,000 operations MY4: 50,000 operations
	4	6 to 125 VDC	5 A, 250 VAC (resistive) 0.8 A, 250 VAC (PF0.4) 5 A, 30 VDC (resistive) 1.5 A, 30 VDC (L/R = 7 ms)	- 98/10014	

Miniature Power Relays: MY4Z-CBG

Ordering Information When your order, specify the rated voltage.

Classification Model		Rated voltage (V)			
Classification	Woder	Standard products	Made-to-order items		
Standard models	MY4Z-CBG	100/110 or 200/220 VAC	110/120 VAC		
Standard models	MIT42-CBG	24 or 100/110 VDC	12 or 48 VDC		
Models with built-in			100/110 or 200/220 VAC		
operation indicators	MY4ZN-CBG		24 VDC		

Note: Ask your OMRON representative for details on the time required to deliver made-to-order products.

Ratings and Specifications

Ratings

Operating Coil

	Item	Rated curr	ent (mA)	Coil	Coil induc	tance (H)	Must-operate	Must-release	Maximum	Power consumption
Rated	voltage (V)	50 Hz	60 Hz	resistance (Ω)	Armature OFF	Armature ON	voltage (V)	voltage (V)	voltage (V)	(VA, W)
	100/110	11.7/12.9	10/11	3,750	14.54	24.6				
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1		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	80% max.*1			
	12	75	5	160	0.73	1.37	00% max.**			
DC	24	36.	9	650	3.2	5.72				Approx. 0.9
	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

 The AC contrestance and inductance values are reference values only
 Operating characteristics were measured at a coll 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 specified value.

Contact Ratings

Load Item	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)		
Rated load	1 A at 220 VAC 0.3 A at 220 VAC 1 A at 24 VDC 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 resis	tance*1	100 mΩ max.
Operation tim	1e*2	20 ms max.
Release time*2		20 ms max.
Maximum	Mechanical	18,000 operations/h
operating frequency	Electrical	1,800 operations/h
Insulation res	sistance*3	100 MΩ
	Between coil and contacts	2.000 VAC at 50/60 Hz for 1 min.
Dielectric strength	Between contacts of different polarity	
	Between contacts of the same polarity	700 VAC at 50/60 Hz for 1 min.
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
Shock	Destruction	1,000 m/s ²
resistance	Malfunction	200 m/s ²
Endurance	Mechanical	5,000,000 operations min. (operating frequency: 18,000 operations/hr)
Lindurance	Electrical*4	50,000 operations min. (switching frequency: 1,800 operations/h) at rated load
Failure rate P value	ue (reference value)*5	100 µA at 1 VDC
Ambient opera	ting temperature	-25 to 70°C (with no icing or condensation)
Ambient ope	rating humidity	5% to 85%
Weight		Approx. 35 g
	1 1 1 1	

Note: The above values are initial values.

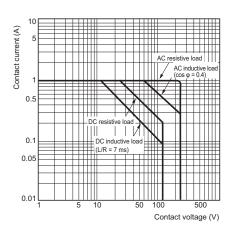
- Note: The above values are initial values.
 *1. Measurement conditions: 1 A at 5 VDC using the voltage drop method
 *2. Measurement conditions: With rated operating power applied, not including contact bounce. Ambient temperature condition: 23° C
 *3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength
- measurement.

**A. Ambient temperature condition: 23° C
 *5. This value was measured at a switching frequency of 120 operations per minute.

25

Engineering Data Maximum Switching Capacity

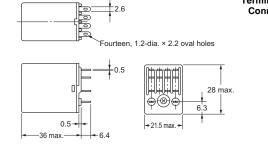
MY4Z-CBG



Dimensions

MY4Z-CBG





Contact Reliability Test

Contact resistance (mΩ)

28

26

24

22

20

oЦ

Contact load: 5 VDC, 1 mA resistive load

r of Relays: 10 (average value)

ching frequency: 200 operations/ min.)

alfunction rate: $\lambda_{60} = 0.0046 \times 10^{-6} \text{ per}$

(Modified Allen Bradley Circuit)

Malfunction criteria level: Contact resistance of 100 $\ensuremath{\Omega}$

Δ

50 100

Number of operations (×10⁴ operations)

∆ Open contacts × Self-latching contacts Closed contacts

500 1,000

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.

(Unit: mm)

Plastic Sealed Relays: MYQ **Ordering Information**

Relays with Plug-in or Soldered Terminals

When your order, specify the rated voltage.

	Туре	4 poles		
Classificatio	Classification		Rated voltage (V)	
	Standard models	MYQ4	100/110, 110/ 120, 200/220, or 220/240 VAC	
Models			24 VDC	
with single contacts	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			100/110, 110/120, or 200/220 VAC	
			12 or 24 VDC	

Relays with PCB Terminals

Туре	4 poles		
Classification	Model	Rated voltage (V)	
Models with single contacts	MYQ4-02	50, 200/220, or 220/240 VAC	
single contacts		24 VDC	
Bifurcated	MYQ4Z-02	100/110 VAC	
contacts	WIT G42-02	24 or 48 VDC	

Ratings and Specifications

Ratings **Operating Coil**

	Item	Rated current (mA)		Coil resis-	Coil indu	ctance (H)	Must-	Must-	Maximum	Power
Rated	voltage (V)	50 Hz	60 Hz	tance (Ω)	tance (Ω) Armature OFF Armature ON		operate voltage (V)	release voltage (V)	voltage (V)	consumpti on (VA, W)
	24	53.8	46	180	0.69	1.3				
	100/110	11.7/12.9	10/11	3,750	14.54	24.6		000/		Approx.
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1	30% min.*2		110% of	1.0 to 1.2 (at
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	91.07				60 Hz)
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	80% max.*1		rated	
	12	7	5	160	0.734	1.37			voltage	
DC	24	36	6.9	650	3.2	5.72		10%		Approx.
50	48	18	8.5	2,600	10.6	21.0		min.*2		0.9
	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

Type Item	Resistive load	Inductive load (cos φ = 0.4, L/R = 7 ms)			
Rated load	1 A at 220 VAC, 1 A at 24 VDC	0.5 A at 220 VAC, 0.5 A at 24 VDC			
Rated carry current	1 A				
Maximum 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 VD				
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%		
to Millaho and international and an anti-			

* With no icing or condensation.

Characteristics

Contact resis	tance*1	$50 \text{ m}\Omega$ max.	1
Operation time ^{#2}		20 ms max.	
Release time*2		20 ms max.	
Maximum	Mechanical	18,000 operations/h	
operating frequency	Rated load	1,800 operations/h	
	Between coil and contacts	1,500 VAC at 50/60 Hz for 1 min.	
Dielectric strength	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.	Note
Insulation res	istance ^{#3}	100 MΩ min.	*1 . N
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)	۱ n
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)	*2. N
Shock	Destruction	1,000 m/s ²	iı A
resistance	Malfunction	200 m/s ²	2
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)	- *3. N \ a
Endurance	Electrical*5	200,000 operations min. (100,000 operations ^{*4}) (rated load, switching frequency: 1,800 operations/h)	- *4. T
Weight		Approx. 35 g	* 5 . 7

The values at the left are initial

- values. Measurement conditions: 1 A at 5 /DC using the voltage drop
- nethod Measurement conditions: With ated operating power applied, not nocluding contact bounce. Ambient temperature condition: 23° C
- Measurement conditions: For 500 /DC applied to the same location as for dielectric strength

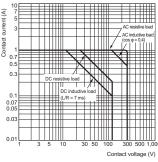
neasurement. This value is for bifurcated contacts.

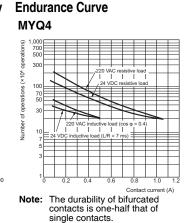
mbient temperature condition:

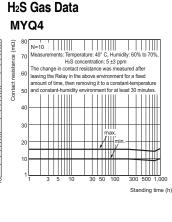
Engineering Data

Engineering Data

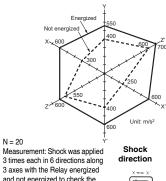
Maximum Switching Capacity MYQ4(Z)







Malfunctioning Shock



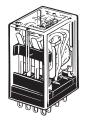
and not energized to check the shock values that cause the Relay to malfunction. Criteria: Non-energized: 200 m/s² Energized: 200 m/s²

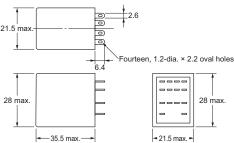
N = 20

(Unit: mm)

Dimensions



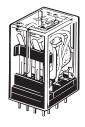


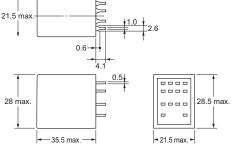


MYQ4(Z)N DC Models AC Models 5 ⊑<u>7</u> 8 [2 -7 -1 6 6 8 • / 12 5 / 9 12 10 1 1 10 14 14 (The coil has no polarity.) Check the coil polarity when wiring and wire all connections correctly. Note: 1. An AC model has coil disconnection self-

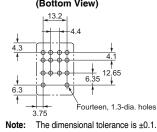
diagnosis 2. For the DC models, check the coil polarity when wiring and wire all connections correctly.

Relays with PCB Terminals MYQ4(Z)-02

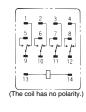




PCB Processing Dimensions (Bottom View)



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.

28

Latching Relays MYK

Ordering information When your order, specify the rated voltage.

Relays with Plug-in or Soldered Terminals

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

Relays with PCB Terminals

Number of poles	2 poles			
Classification	Model	Rated voltage (V)		
		24 VAC		
Standard models	MY2K-02	100 VAC		
Stanuaru moueis	WIT2R-02	12 VDC		
		24 VDC		

Ratings and Specifications

Ratings

Operating Coil

	Item		Set co	il		Reset coil		a			Power consumption (VA, W)													
	nem	Rated cur	rent (mA)	Coil	Rated current (mA) Coil		Set voltage (V)	Reset voltage (V)	Maximum voltage (V)	Set coil	Reset coil													
Rated v	oltage (V)	50 Hz	60 Hz	resistance (Ω)	50 Hz	60 Hz	resistance (Ω)	(-)	·····go (·)	·····go (1)	Sercon	neset con												
	12	57	56	72	39	38.2	130				Approx. 0.6	Approx. 0.2												
AC	24	27.4	26.4	320	18.6	18.1	550					to 0.9	to 0.5											
	100	7.1	6.9	5,400	3.5	3.4	3,000	80% max.	80% max.	110% max. of	(at 60 Hz)	(at 60 Hz)												
	12	11	0	110	5	0	235	60 % max.	00 % max.	rated voltage														
DC	24	5	2	470	2	5	940				ĺ	1	940	940	940	940		Ī					Approx. 1.3	Approx. 0.6
	48	2	7	1,800	1	6	3,000																	

Note: 1. The rated current for AC is the value measured with a DC ammeter in half-wave rectification. 2. The rated current and coil resistance are measured at a coil temperature of 23°C with toleran The rated current for AC is the value measured with a DC animeter in hail-wave rectinication.
 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

Load Item	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 resi	stance*1	50 mΩ max.
Set	Time ^{#2}	AC: 30 ms max., DC: 15 ms max.
Sel	Minimum pulse width	AC: 60 ms, DC: 30 ms
Reset	Time ^{#2}	AC: 30 ms max., DC: 15 ms max.
nesei	Minimum pulse width	AC: 60 ms, DC: 30 ms
Maximum Mechanical		18,000 operations/h
operating frequency	Rated load	1,800 operations/h
Insulation re	sistance*3	100 MΩ
	Between coil and contacts	1.500 VAC at 50/60 Hz for 1 min.
Dielectric strength	Between contacts of different polarity	1,500 VAO at 50/00 HZ 101 T min.
	Between contacts of the same polarity	1.000 VAC at 50/60 Hz for 1 min.
	Between set/ reset coils	1,000 VAC at 50/00 Hz for T finit.
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)
Shock	Destruction	1,000 m/s ²
resistance	Malfunction	200 m/s ²
Endurance	Mechanical	100,000,000 operations min. (switching frequency: 18,000 operations/h)
Endurance	Electrical*4	200,000 operations min. (at 1,800 operations/hr, rated load)
Failure rate P va	lue (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.

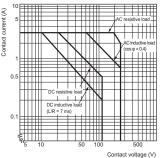
29

Engineering Data

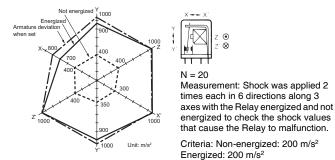
Engineering Data

MY2K(-02)

Maximum Switching Capacity

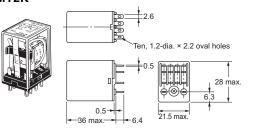


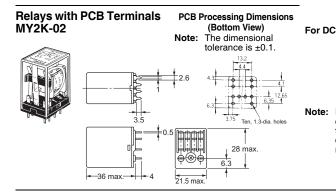
MY2K 100 VAC Malfunctioning Shock



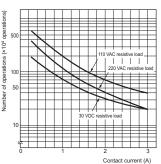
Dimensions

Relays with Plug-in Terminals or Soldered Terminals MY2K



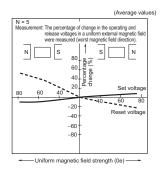






(topological states and the states a

MY2K 24 VDC Magnetic Interference (External Magnetic Field)



(Unit: mm)

Terminal Arrangement/Internal

Connections (Bottom View)

8

12

SET 14

Note: R is a resistor for ampereturn correction. This resistor

is built-in to 50-VAC and

higher models. (The coil has no polarity.)

14

Pay close attention to the set

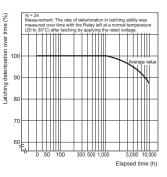
coil and reset coil polarities. If the connections are not

correct, unintended operation

may occur.

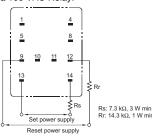
For AC

Latching Deterioration Over Time



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 When your order, specify the rated voltage.

Relays with Plug-in or Soldered Terminals

Туре	4 poles				
Classification	Model Rated voltage (V)				
Models with single	MY4H	24, 100/110, or 110/120 VAC			
contacts	W1 411	12, 24, 48, or 100/110 VDC			
Bifurcated contacts	MY4ZH	24, 100/110, or 110/120 VAC			
Bilurcaleu comacis	WIT420	12, 24, 48, or 100/110 VDC			

Relays with PCB Terminals

Туре	4 poles				
Classification	Model	Rated voltage (V)			
Models with single	MY4H-0	110/120 VAC			
contacts	WI 411-0	24 VDC			
Bifurcated contacts	MY4ZH-0	24 or 100/110 VDC			

Ratings and Specifications

Ratings

Operating Coil

	Item	Rated curr	ent (mA)	Coil	Coil induc	tance (H)	Must-operate	Must-release	Maximum	Power consumption (VA, W)	
Rated	voltage (V)	50 Hz	60 Hz	resistance (Ω)	Armature OFF	Armature ON	voltage (V)	voltage (V)	voltage (V)		
	24	53.8	46	180	0.69	1.3					
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6		30% min.*2	110% of rated voltage	Approx. 1.0 to 1.2 (at 60 Hz)	
	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1					
	12	75		160	0.73	1.37	80% max.*1				
DC	24	36.	9	650	3.2	5.72					Approx. 0.9
DC	48	18.	5	2,600	10.6	21.0				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 ±15% for the DC coil resistance. The AC coil resistance and inductance values are reference values only

2. 3. 4.

The AC CONTROL CALL PARTIES AND FIGURATE Values are reference values only
 Operating characteristics were measured at a coll temperature of 23°C.
 The maximum voltage capacity was measured at an ambient temperature of 23°C.
 There is variation between products, but actual values are 80% max. To ensure operation, apply at least 80% of the rated value
 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

Load		ith single acts	Bifurcated contacts			
Item	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	3 A at 110 VAC 3 A at 24 VDC	0.8 A at 110 VAC 1.5 A at 24 VDC	3 A at 110 VAC 3 A at 24 VDC	0.8 A at 110 VAC 1.5 A at 24 VDC		
Rated carry current	3 A		3 A			
Maximum contact voltage			125 VAC 125 VDC			
Maximum contact current	13A		3 A			
Contact structure	Single		Bifurcated			
Contact materials	Au plating + A	٩g				
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 tin	m e *2	20 ms max.				
Maximum Mechanical operating frequency Rated load		18,000 operations/h				
		1,800 operations/h				
Insulation	resistance*4	100 MΩ min.				
Dielectric Between coil and contacts		1,000 VAC at 50/60 Hz for 1 min.				
strength	Between contacts of different polarity	(700 VAC between contacts of the same polarity.)				
Vibration	Destruction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)				
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)				
ShockDestructionresistanceMalfunction		1,000 m/s ²				
		200 m/s ²				
Endurance Mechanical Electrical*5		50,000,000 operations (5,000,000 operations*4) min. (operating frequency: 18,000 operations/h)				
		100,000 operations (50,000 operations*4) min. rated load, switching frequency: 1,800 operations/h)				
Failure rat (reference		Single contacts: 100 µA at 1 VDC Bifurcated contacts: 100 µA at 100 mVDC				
Weight		Approx. 50 g				
Note: The	above values are in	itial values.				

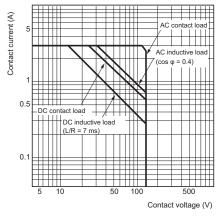
 *1. Measurement conditions: 1 A at 5 VDC using the voltage drop method
 *2. Measurement conditions: With rated operating power applied, not including contact bounce.

Ambient temperature condition: 23° C

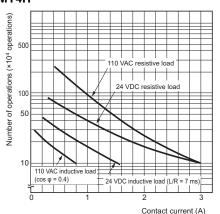
*3. Measurement condition: For 500 VDC applied to the same location as for dielectric strength measurement.
*4. This value is for bifurcated contacts.
*5. Ambient temperature condition: 23° C
*6. This value was measured at a switching frequency of 120 operations per minute.

Engineering Data

Maximum Switching Capacity MY4(Z)H

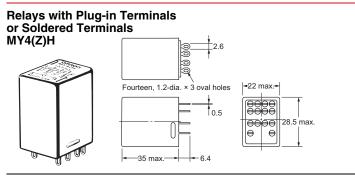


Endurance Curve MY4H

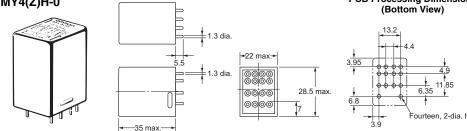


Note: The durability of bifurcated contacts is one-half that of single contacts.

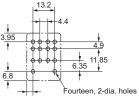
Dimensions



Relays with PCB Terminals MY4(Z)H-0



PCB Processing Dimensions



Terminal Arrangement/ Internal Connections (Bottom View)

(Unit: mm)



(The coil has no polarity.)

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 shortcircuiting 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

Туре	Front-mounting Sockets				Back-mounting Sockets							
	Track or screw mounting Screw mounting only				Solder terminals		Wrapping terminals					
		Terminal cover structure		Screwless Socket	Without Mounting Brackets	With Mounting Brackets	Without Mounting Brackets		With Mounting Brackets		Relays with PCB Terminals	
Model	Screw termin	al size: M3	Screw terminal size: M3.5				Terminal length: 25 mm	Terminal length: 20 mm	Terminal length: 25 mm	Terminal length: 20 mm	Terminais	
MY2⊡ MY2(S)	PYF08A (PYC-A1)	PYF08A-E (PYC-A1)	PYF08M (PYC-P)	DVEGGO	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)		PYF08S	PY08 (PYC-1)	PY08-Y3	PY08QN (PYC-1)	PY08QN2 (PYC-1)			PY08-02 (PYC-1)	
МҮ3□	PYF11A (PYC-A1)				РҮ11 (РҮС-Р)	PY11-Y1	PY11QN (PYC-P)	PY11QN2 (PYC-P)	PY11QN-Y1	PY11QN2-Y1	PY11-02 (PYC-P)	
MY4	Screw termin	al size: M3	/									
MY4(S) MY4Z⊡	PYF14A (PYC-A1)											
MY4Z-CBG MYQ4⊡ MY4H	Screwterminal size: M3.5	PYF14A-E (PYC-A1)		PYF14S	PY14 (PYC-P)	PY14-Y1	PV14.V1	PY14QN (PYC-P)		PY14QN-Y1	PY14QN2-Y1	PY14-02 (PYC-P)
MY4ZH MY2K	PYF14T (PYC-A1)										l	

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

2.

The Mounting Brackets are sold in sets of two. However, the PTC-PTs just one Mounting Bracket. Mounting Brackets are sold in sets of two. However, the PTC-PTs just one Mounting Brackets are sold in sets of two. However, the PTC-PTs just one Mounting Brackets are sold in sets of two. However, the PTC-PTs provide the Mounting Bracket and DIN Track Products for the external dimensions of the Socket Relays. 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.) Refer to $PYF_{\Box}S/P2RF_{\Box}S$ for details on Screwless Sockets. 4.

5. 6. The terminal cover is integrated into the Socket.

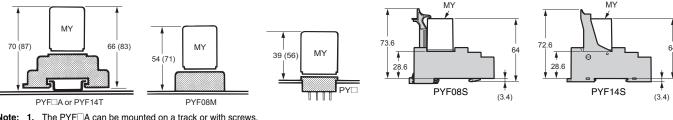
If an MY (S) Relay with a Latching Lever is used in combination with a PY -02 Socket for Relays with PCB Terminals and a PYC-P Mounting Brackets, 7. the lever will not operate.

We recommends 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.) 8.

Mounting Heights with Sockets (Unit: mm)

Front-mounting Sockets

Back-mounting Screwless Sockets Sockets MY

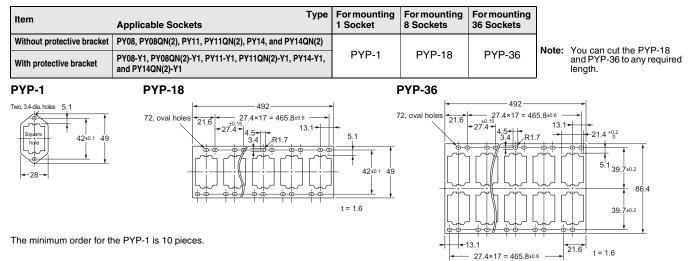


Note: 1.

The heights given in parentheses are the measurements for 53-mm-high Relays. Use the PYC-P Mounting Bracket for the PYF08M. 3.

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

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



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 2 3	6 to 220 VAC 6 to 120 VDC	5 A, 200 VAC
	4 *	6 to 110 VAC 6 to 120 VDC	3 A, 115 VAC

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

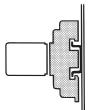
Precautions for Correct Use

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 \Box 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.

Attaching and Removing Relay Hold-down Clips

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

Read and understand this catalog.

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