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 Z	12, 24, 48, or 100/110 VDC	
Models with built-in operation indicators	MY2N	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC	
wodels with built-in operation indicators	IVI Y ZIV	12, 24, 48, or 100/110 VDC	
Models with built-in diodes	MY2-D	12, 24, or 100/110 VDC	48 VDC
Models with built-in diodes and operation indicators	MY2N-D2	12, 24, 48, or 100/110 VDC	
Models with built-in CR circuits	MY2-CR	100/110 or 200/220 VAC	110/120 or 220/240 VAC
Models with built-in CR circuits and operation indicators	MY2N-CR	100/110 or 200/220 VAC	110/120 or 220/240 VAC

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

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

Ratings and Specifications

Ratings

Operating Coils (Standard Models)

	Item	Rated cur	rent (mA)	Coil resistance	Coil inductance (H)		Must-	Must-	Maximum	Dower consumption
Rate volta	ed age (V)	50 Hz	60 Hz	(Ω)	Armature OFF	Armature ON	operate voltage (V)	release 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		30% min. *2	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		30 /6 IIIIII. ·-		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	ou /o illax.			
	12	72	7	165	0.73	1.37)% min. *2	
DC	24	36	.3	662	3.2	5.72		10% min *2		Approx. 0.9
DC	48	17	.6	2,725	10.6	21.0		10 /6 111111.		Αρριολ. 0.9
	100/110	8.7/	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.

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

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

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

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

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

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

Contact Ratings

Oontaot Hattings							
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.

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 mΩ max.						
Operation ti	me*2	20 ms max.						
Release tim	e*2	20 ms max.						
Maximum	Mechanical	18,000 operation	ons/h					
operating frequency	Rated load	1,800 operation	,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.						
oog	Between contacts of the same polarity	1,000 VAC at 5	1,000 VAC at 50/60 Hz for 1 min.					
Vibration	Destruction	10 to 55 to 10 H	dz, 0.5-mm single amp	olitude (1.0-mm d	louble amplitude)			
resistance	Malfunction	10 to 55 to 10 h	tz, 0.5-mm single amp	olitude (1.0-mm d	louble amplitude)	1		
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)						
	Electrical*4	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)						

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

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

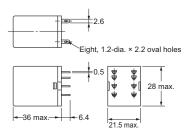
 *3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength

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

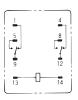
Dimensions

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



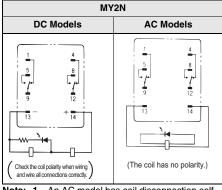


Terminal Arrangement/Internal Connections (Bottom View) Standard Models



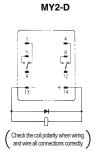
(The coil has no polarity.)

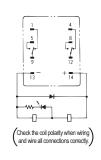
MY2N-D2

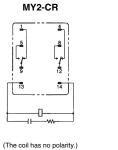


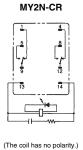
- Note: 1. An AC model has coil disconnection self-

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









(Unit: mm)

Miniature Power Relays: MY2Z



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

Ordering Information When your order, specify the rated voltage.

Classification	Model	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	IVI Y ZZ	12 or 24 VDC	48 or 100/110 VDC		
	MY2ZN	100/110 or 200/220 VAC	12, 24, 100/120, or 200/240 VAC		
Models with built-in operation indicators	WYZZN	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)

	Item	Rated curr	ent (mA)	Cail registeres	Coil induc	ctance (H)	Must-	Must-	Maximum voltage (V)	Power consumption
Rate	ed age (V)	50 Hz	60 Hz	Coil resistance (Ω)	Armature OFF	Armature ON	operate voltage (V)	release 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				
	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 % IIIax. · ·			
	12	75	,	160	0.73	1.37				
DC	24	36.	9	650	3.2	5.72		10% min.*2		Approx. 0.9
БС	48	18.	5	2,600	10.6	21.0		10 /6 111111.		Αρριολ. 0.9
	100/110	9.1/	10	11,000	45.6	86.2		ļ		

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

oomaor maningo							
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	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 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 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 operations min. (operating frequency: 18,000 operations/h)						
Endurance	Electrical*4	200,000 oper	ations min. (rated load	l, switching frequ	ency: 1,800 operations/h)			

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

Note: These are initial values.

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

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

 Ambient temperature condition: 23° C

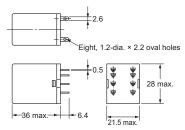
 *3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.

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

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



Dimensions

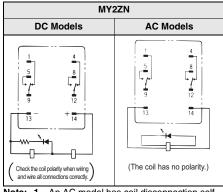


* For the MY2Z-CR and MY2ZN-CR, this dimension is 53 mm max.

Terminal Arrangement/ Internal Connections (Bottom View) Standard Models



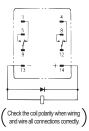
(The coil has no polarity.)



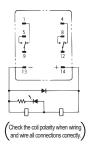
- An AC model has coil disconnection self
 - diagnosis.
 For the DC models, check the coil polarity when

 - wiring and wire all connections correctly. The indicator is red for AC and green for DC. The operation indicator indicates the
 - energization of the coil and does not represent contact operation.

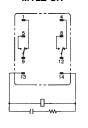
MY2Z-D



MY2ZN-D2



MY2Z-CR



(The coil has no polarity.)



(Unit: mm)

(The coil has no polarity.)

Miniature Power Relays: MY3



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

Ordering Information

When your order, specify the rated voltage.

Classification	Model	Rated voltage (V)			
Classification	Wodei	Standard products	Made-to-order items		
Standard models	муз	24, 100/110, 200/220, or 220/240 VAC	12, or 110/120 VAC		
Standard models	IVI Y S	12, 24, or 100/110 VDC	48 VDC		
NA - I - I - viale le villa in in di	MY3N	24, 100/110, 200/220, or 220/240 VAC	12, or 110/120 VAC		
Models with built-in operation indicators	MY3N	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

Ratings and Specifications

Ratings

Operating Coil (Standard Models)

	Item Rated current (mA				Coil registeres Coil inductance (H)		Must-	Must-	Maximum	Dawer consumption
Rated voltage (V)		50 Hz	60 Hz	Coil resistance (Ω)	Armature OFF	Armature ON	operate voltage (V)	release 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	80% max.*1		% min.*2 110% of rated voltage % min.*2	(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				
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4				
	12	75		160	0.73	1.37				
DC	24	36.	9	650	3 .2	5.72		100/ min *2		Approx. 0.9
DC	48	18.	5	2,600	10.6	21.0		10 /6 111111		Αρριοχ. 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 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.

Item	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 m $Ω$ max.							
Operation ti	me ^{#2}	20 ms max.							
Release tim	e*2	20 ms max.							
Maximum	Mechanical	18,000 operations/h							
frequency Rated load 1,800 operations/h									
Insulation re	esistance*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.							
-	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-m	m single amplitude (1.0-mm dou	uble amplitude)					
resistance	Malfunction	10 to 55 to 10 Hz, 0.5-m	m single amplitude (1.0-mm dou	uble amplitude)					
Shock	Destruction	1,000 m/s ²							
resistance	Malfunction	200 m/s ²	200 m/s ²						
Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)							
	Electrical*4	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)							

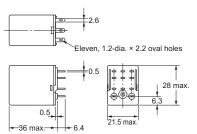
Item Number of poles	3 poles
Failure rate P value (reference value)*5	1 mA at 5 VDC
Weight	Approx. 35 g

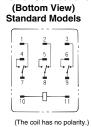
Note: These are initial values.

Dimensions (Unit: mm)

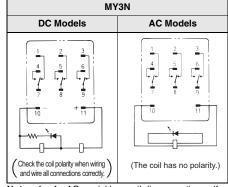
MY3, MY3N, MY3-D, and MY3N-D2





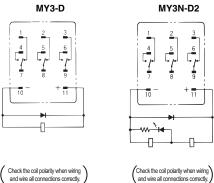


Terminal Arrangement/ Internal Connections



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

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



Miniature Power Relays: MY4







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

Ordering Information When your order, specify the rated voltage.

Classification	Model	Rated voltage (V)			
Olassinoation Mode		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	IVI T 4	12, 24, 48, or 100/110 VDC			
Modele with built in exerction indicators	MY4N	12, 24, 100/110, 110/120, 200/220, or 220/240 VAC			
Models with built-in operation indicators	IVI Y 4IN	12, 24, 48, or 100/110 VDC			
Models with built-in diodes	MY4-D	12, 24, 48, or 100/110 VDC			
Models with built-in diodes and operation indicators	MY4N-D2	12, 24, or 100/110 VDC	48 VDC		
Models with built-in CR circuits	MY4-CR	100/110 or 200/220 VAC	110/120 or 220/240 VAC		
Models with built-in CR circuits and operation indicators	MY4N-CR	100/110, 110/120, or 200/220 VAC	220/240 VAC		

- Note: 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

 - as your own of representative for details of product specifications and the delay is manufacture product 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		Item Rated current (mA)		Coil induc	tance (H)	Must-	Must-	Maximum	Power consumption
Rated voltage (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	30% 80% max* ¹	30% min.*2	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
	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 /0 IIIax.			
	12	72.	7	165	0.73	1.37				
DC	24	36.	3	662	3.2	5.72		10% min.*2		Approx. 0.9
DC	48	17.	6	2,725	10.6	21.0		10 /0 111111.*-		Αρριολ. 0.9
	100/110	8.7/9	9.6	11,440	45.6	86.2				

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 $\pm15\%$ for the DC coil resistance.

- 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

Jonia or Harringo							
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						
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.

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	ations/h						
operating frequency	Rated load	1,800 operati	00 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	0 Hz, 0.5-mm single a	mplitude (1.0-mr	n double amplitu	de)			
resistance	Malfunction	10 to 55 to 10	0 Hz, 0.5-mm single a	mplitude (1.0-mr	n double amplitu	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 oper (rated load, s	rations min. witching frequency: 1	,800 operations/l	٦)				

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

Note: These are initial values.

Engineering Data

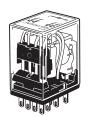
List of Actual Load Endurance (Refer to Engineering Data on page 20.)

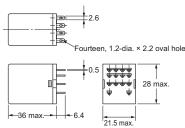
Model	Load type	Conditions	Switching frequency	Electrical durability (operations min.)
	AC magnetic switch	35 VA at 100 VAC Making current: 4 A, Steady-state current: 0.35 A	ON: 1s OFF: 3s	500,000
MY4 DC24V	DC solenoid	40 W at 24 VDC Steady-state current: 1.6 A, L/R = 10 ms Surge-absorbing diode connected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

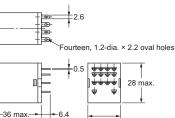
Dimensions (Unit: mm)

MY4, MY4N, MY4-D, MY4N-D2,

MY4-CR, and MY4N-CR



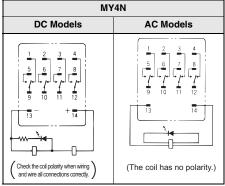




Terminal Arrangement/ Internal Connections (Bottom View) Standard Models



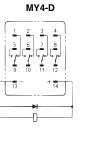
(The coil has no polarity.)



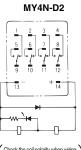
An AC model has coil disconnection self-

- diagnosis.

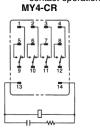
 For the DC models, check the coil polarity when wiring and wire all connections correctly. The indicator is red for AC and green for DC. The operation indicator indicates the energization of the coil and does contact operation.



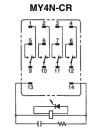




Check the coil polarity when wiring and wire all connections correctly.



(The coil has no polarity.)



(The coil has no polarity.)

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	Rated voltage (V)		
Classification	Wodei	Standard products	Made-to-order items	
Standard models	MY4Z	100/110 or 200/220 VAC	110/120 or 220/240 VAC	
Standard models	IVI Y 4Z	12, 24, 48, or 100/110 VDC		
Manufacture in the latest transfer and the same	MY4ZN	100/110 or 200/220 VAC	24, 110/120, or 220/240 VAC	
Models with built-in operation indicators	WY4ZN	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	tance (H)	Must-	Release	Maximum	Power consumption
Rate volta	d ige (V)	50 Hz	60 Hz	(Ω)	Armature OFF	Armature ON	operate voltage (V)	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 % IIIax. · ·			
	12	72.	7	165	0.73	1.37				
DC	24	36.	3	662	3.2	5.72		10% min.*2		Approx 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				

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).

 The AC coil resistance and inductance values are reference values only (at 60 Hz).
 Operating characteristics were measured at a coil temperature of 23°C.
 The maximum voltage capacity was measured at an ambient temperature of 23°C.
 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 appointed value. specified value.

Contact Ratings

oomaa maango						
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					
Contact configuration	4PDT					
Contact structure	Bifurcated					
Contact materials	Au cladding + Ag alloy					

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.

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 mΩ 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 operation	ons/h						
Insulation re	esistance*3	100 M Ω 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.						
oog	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		20,000,000 operations min. (switching frequency: 18,000 operations/h)						
Lituurance	Electrical*4		100,000 operations min. (rated load, switching frequency: 1,800 operations/h)						

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

Note: These are initial values.

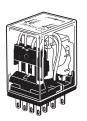
- measurement.

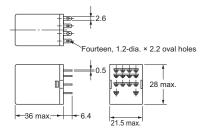
 *4. Ambient temperature condition: 23° C

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

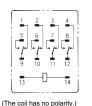
Dimensions (Unit: mm)

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

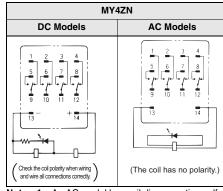




Terminal Arrangement/ **Internal Connections** (Bottom View) **Standard Models**



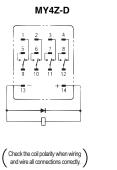
(The coil has no polarity.)

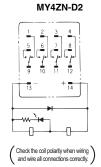


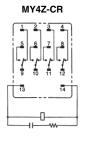
- Note: 1. An AC model has coil disconnection self
 - diagnosis.

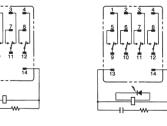
 For the DC models, check the coil polarity when wiring and wire all connections correctly. The indicator is red for AC and green for DC. The operation indicator indicates the energization of the coil and does

 - contact operation. MY4ZN-CR









(The coil has no polarity.)

(The coil has no polarity.)

Miniature Power Relays with Latching Levers: MY(S) → ⊕ ← ← LR







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

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	
	2	MVOIN (C)		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	W (41N (5)	12, 24, or 48 VDC		
	4 bifurcated	MV47IN (C)	_	100/110 or 200/220 VAC	
	4 bilurcated	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	
oon ounge appenphon	4 bifurcated	MY4ZIN-D2 (S)	24 VDC	12 or 48 VDC	
Models with built-in CR circuit	4	MY4IN-CR (S)	_	100/110 or 200/220 VAC	
for coil surge absorption	4 bifurcated	MY4ZIN-CR (S)	_	100/110 or 200/220 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.

Ratings and Specifications

Ratings

Operating Coil

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

DC coil resistance.
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 poles		4 p	oles	4 poles (bifurcated)	
Load	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)	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.

Item	Туре	2 poles	4 poles	4 poles (bifurcated)				
Contact resis	stance*1	100 m Ω max.						
Operation tir	me * 2	20 ms max.						
Release time	* 2	20 ms max.	20 ms max.					
Maximum	Mechanical	18,000 operations/h						
operating frequency	Rated load	1,800 operations/h						
Insulation re	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 (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)	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 I		1 mA at 5 VDC	1 mA at 1 VDC	100 μA at 1 VDC				
Weight		Approx. 35 g						
Note: These	are initial values.							

- Note: These are initial values.

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

 *2. Measurement conditions: When rated operating power is applied and ambient temperature is 23° C

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

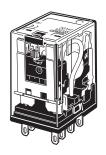
 *4. Ambient temperature condition: 23° C

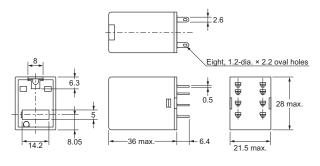
 *5. This value was measured at a switching frequency of 120 operations per minute.

Dimensions (Unit: mm)

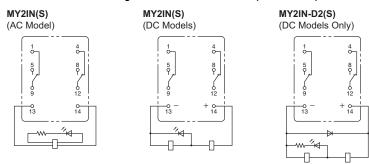
List of Models

MY2IN (S) MY2IN-D2 (S)





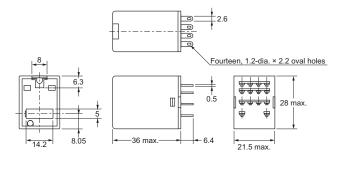
Terminal Arrangement/Internal Connections (Bottom View)

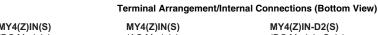


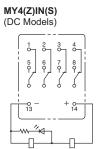
Note: For the DC models, check the coil polarity when wiring and wire all connections correctly.

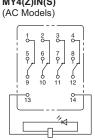
MY4 (Z) IN (S) MY4 (Z) IN-D2 (S) MY4 (Z) IN-CR (S)

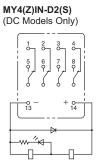


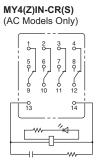












Note: For the DC models, check the coil polarity when wiring and wire all connections correctly.

Relays with PCB Terminals: MY□-02



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

Ordering Information

When your order, specify the rated voltage.

Number	Classification	Model	Rate	d voltage (V)
of poles Classification		Wodei	Standard products	Made-to-order items
2 poles	Models with single	MY2-02	100/110, 200/220, or 200/240 VAC	12, 24, 100, or 110/120 VAC
2 poles	contacts	W 7 2-02	12, 24 or 48 VDC	100/110 VDC
0 nalaa	Models with single	MY3-02	100/110 or 200/220 VAC	12, 24, 110/120, or 220/240 VAC
3 poles	contacts	W173-U2	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
1 nalaa	contacts	MY4-02	12, 24 or 100/110 VDC	48 VDC
4 poles Bifurcated contacts	Differential contents	ated contacts MY4Z-02		100/110, 110/120, or 200/220 VAC
	Billurcated contacts		100/110 VDC	12, 24, or 48 VDC

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	Item Rated current (mA)		Coil	Coil inductance (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)
	12	106.5	91	46	0.17	0.33			110% of rated voltage	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		
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1		30 % 111111.		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 /6 IIIax.			
	12	75	5	160	0.73	1.37				
DC	24	36.9		650	3.2	5.72		10% min.*2		A 0.0
DC .	48	18.5		2,600	10.6	21.0				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.

Contact Ratings

Number of poles	2 or 3 poles		4 poles		4 poles, bifurcated contacts	
Load Item	Resistive load	Inductive load ($\cos \phi = 0.4$, 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	DPDT, 3PDT		4PDT		
Contact structure	Single		Single		Bifurcated	
Contact materials	Ag		Au plating + Ag		Au plating + Ag	

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

* With no icing or 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	ce*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.					
3	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 resistance	Destruction	1,000 m/s ²					
SHOCK resistance	Malfunction	200 m/s ²					
Endurance	Mechanical	AC: 50,000,000 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operat	ions/h)	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 (reference value)*5	1 mA at 5 VDC	1 mA at 1 VDC	100 μA at 1 VDC
Weight	Approx. 35 g		

Note: These are initial values.

- Note: These are initial values.

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

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

 Ambient temperature condition: 23° C

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

 *4. Ambient temperature condition: 23° C

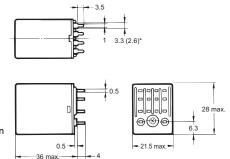
 *5. This value was measured at a switching frequency of 120 operations per minute.

Dimensions (Unit: mm)

Relays with PCB Terminals MY□-02

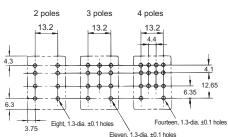


The figures and dimensions given here are for the MY4-02. The 2-pole and 3-pole models conform to these dimensions.



*Dimensions in parentheses are for the MY4-02.

PCB Processing Dimensions (Bottom View)



The dimensional tolerance is ± 0.1 . Refer to the terminal arrangement and internal connections diagrams for the MY2, MY3, MY4, and MY4Z.

Case-surface-mounting Relays: MY□F



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

Ordering Information When your order, specify the rated voltage.

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

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

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

Ratings and Specifications

Ratings

Operating Coil (Standard Models)

	Item	Rated 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	,	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				
	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 Item	Standard models
Ambient operating temperature*	–55 to 70° C
Ambient operating humidity	5% to 85%

* With no icing or condensation.

Item	Number of poles	2 or 3 poles	4 poles			
Contact resis	tance*1	50 mΩ max.				
Operation tim	ne*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	2,000 VAC at 50/60 Hz for 1 min.				
oog	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 operations min. DC: 100,000,000 operations min. (switching frequency: 18,000 operations/h)				
Lituurance	Electrical*4	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)	200,000 operations min. (rated load, switching frequency: 1,800 operations/h)			

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

- Note: These are initial values.

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

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

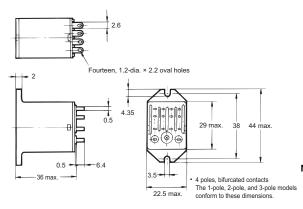
 Ambient temperature condition: 23° C
- *3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.
- ***4.** Ambient temperature condition: 23° C
- ***5.** This value was measured at a switching frequency of 120 operations per minute.

Dimensions (Unit: mm)

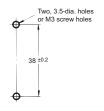
Case-surface mounting MY□F



The above figure is for the MY4F.



Mounting Hole Dimensions

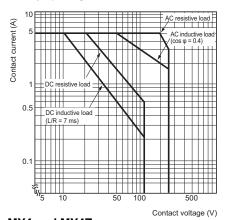


Note: Refer to the terminal arrangement and internal connections diagrams for the MY2, MY3, MY4, and MY4Z.

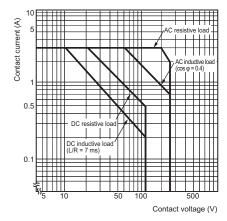
Engineering Data MY2, MY3, MY4, MY4Z, MY□-02, and MY□F

Engineering Data

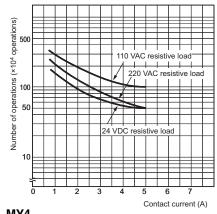
Maximum Switching Capacity MY2 and MY3



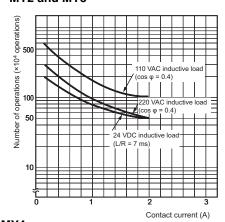
MY4 and MY4Z



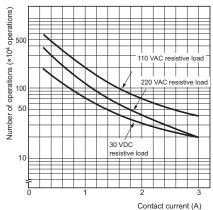
Endurance Curve MY2 and MY3



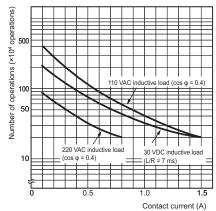
MY2 and MY3



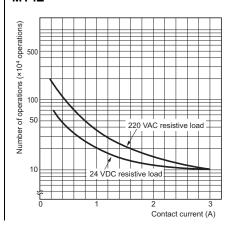
MY4



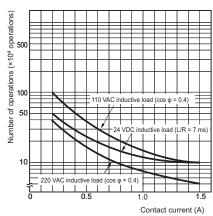
MY4



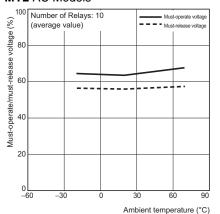
MY4Z



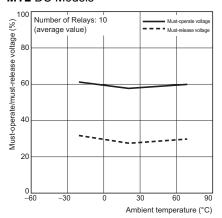
MY4Z



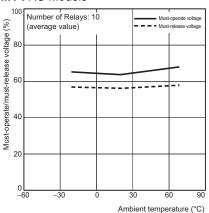
Ambient Temperature vs. Must-operate and Must-release Voltage MY2 AC Models



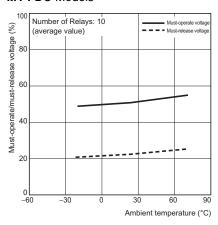
MY2 DC Models



MY4 AC Models

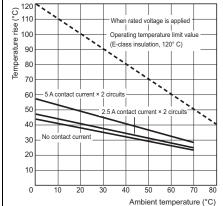


MY4 DC Models

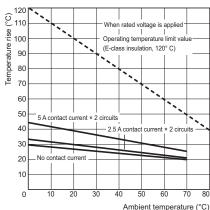


Ambient Temperature vs. Coil Temperature Rise

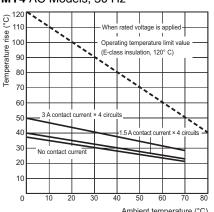
MY2 AC Models, 50 Hz



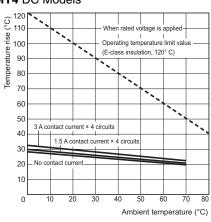
MY2 DC Models



MY4 AC Models, 50 Hz

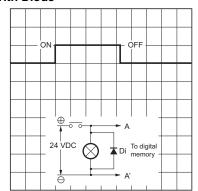


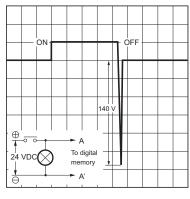
MY4 DC Models



Models with built-in diodes

The diode absorbs surge from the coil. This type is best suited for applications with semiconductor circuits. With Diode Without Diode With Diode

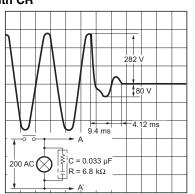




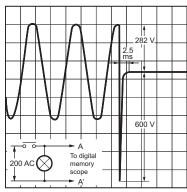
Make sure that the polarity is correct. Note: 1.

- 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.

Models with Built-in CR Circuits With CR



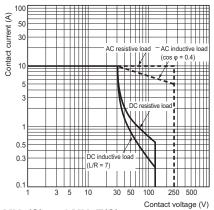
Without CR



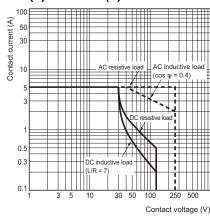
Engineering Data MY(S)

Engineering Data

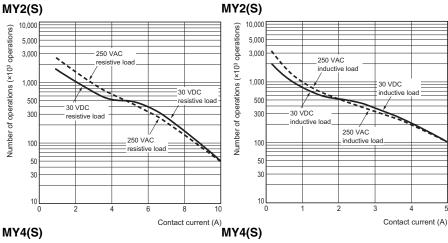
Maximum Switching Capacity MY2(S)

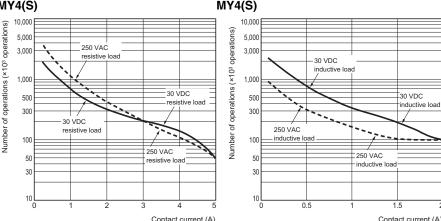


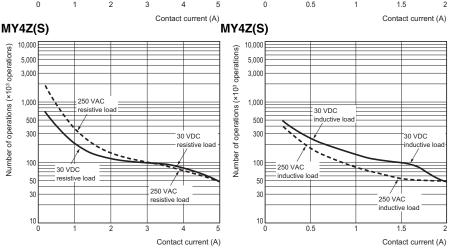
MY4(S) and MY4Z(S)



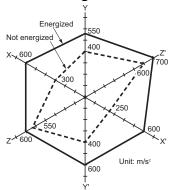
Endurance Curve







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



N = 20

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

Criteria: Non-energized: 200 m/s2,

Energized: 200 m/s2

Shock direction



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

- Refer to Model Number Structure on page 1 for a list of applicable models.
- 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)

Λ	

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

UL-certified Models (File No. E41515)

Model	Coil ratings	Number of poles	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			
	6 to 240 VAC 6 to 125 VDC		B300 Pilot Duty	6,000		
		.C 125	5A, 28 VDC (Resistive)	6,000		
			5A, 240 VAC (General Use)	6,000		
NAV/			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		
			5A, 250 VAC (Resistive) (Same polarity)			
			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-certified Models (File No. LR31928

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8)	Or.	

Model	Coil ratings	Number of poles	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 VDC		7A, 240 VAC (General Use)	6,000		
		3	7A, 24 VDC (Resistive)			
			5A, 240 VAC (General Use)			
MY			1/6HP, 250 VAC	1,000		
			7A, 240 VAC (General Use) (Same polarity)			
			7A, 24 VDC (Resistive) (Same polarity)			
			5A, 240 VAC (General Use) (Same polarity)	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	Coil ratings	Number of poles	Contact ratings
MY□	6 to 240 VAC 6 to 125 VDC	2	2 A, 30 VDC inductive load 2 A, 200 VAC inductive load
		4	1.5 A, 30 VDC inductive load 0.8 A, 200 VAC inductive load 1.5 A, 115 VAC inductive load

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

• Refer to *Model Number Structure on page 1* for a list of applicable models. **VDE-certified Models (Certificate No. 112467UG, EN 61810-1)**

	Model	Coil ratings	Number of poles	Contact ratings	Certified number of operations
MY	MV	6, 12, 24, 48/50, 100/ 110, 110/120, 200/	2	10 A, 250 VAC ($\cos \varphi = 1$) 10 A, 30 VDC ($L/R = 0 \text{ ms}$)	MY2: 10,000 operations
	(New model)	220, and 220/240 VAC 6, 12, 24, 48, 100/ 110, and 125 VDC	4	5 A, 250 VAC (cos φ = 1) 5 A, 30 VDC (L/R = 0 ms)	MY4: 100,000 operations MY4Z: 50,000 operations (AC)

UL508-certified Models (File E41515)

Model	Coil ratings	Number of poles	Contact ratings	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)	6,000	
		2	5A, 250 VAC (Resistive)		
		2	5A, 30 VDC (Resistive)		
	6 to 240 VAC		3A, 265 VAC (Resistive)		
MY□ (New model)			1/6HP, 250 VAC		
			1/8HP, 265 VAC	1,000	
	6 to 125 VDC		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	Coil ratings	Number of poles	Contact ratings	Certified number of operations	
			7A, 240 VAC (General Use)		
			7A, 24 VDC (Resistive)		
			5A, 240 VAC (General Use)	0.000	
			5A, 250 VAC (Resistive)	6,000	
		0	5A, 30 VDC (Resistive)		
		2	3A, 265 VAC (Resistive)		
	6 to 240 VAC 6 to 125 VDC		1/6HP, 250 VAC		
MY□ (New model)			1/8HP, 265 VAC	1,000	
			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)	4 000	
			1/10HP, 120 VAC (Same polarity)	1,000	
			B300 Pilot Duty (Same polarity)	6,000	

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

Model	Coil ratings	Number of poles	Contact ratings	Certified number of operations
MY□ (New model)	6 to 240 VAC 6 to 125 VDC	2	10 A, 250 VAC (resistive) 2 A, 250 VAC (PF0.4) 10 A, 30 VDC (resistive) 2 A, 30 VDC (L/R = 7 ms)	MY2: 50,000 operations
		4	5 A, 250 VAC (resistive) 0.8 A, 250 VAC (PF0.4) 5 A, 30 VDC (resistive) 1.5 A, 30 VDC (L/R = 7 ms)	MY4: 50,000 operations

Miniature Power Relays: MY4Z-CBG

Ordering Information When your order, specify the rated voltage.

Classification	Model	Rated voltage (V)		
Classification	wodei	Standard products	Made-to-order items	
Standard models	MY4Z-CBG	100/110 or 200/220 VAC	110/120 VAC	
Standard models	W 142-CBG	24 or 100/110 VDC	12 or 48 VDC	
Models with built-in	MY4ZN-CBG	-	100/110 or 200/220 VAC	
operation indicators		_	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	Coil inductance (H) Must-operate Must-release Maximum			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	30				
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1		30% min.*2	30% min.*2)% min.*2
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	94.07	80% max.*1		110% of rated		
	12	75	5	160	0.73	1.37	00 /6 IIIax.		voltage		
DC	24	36.	9	650	3.2	5.72		10% min.*2		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

Note: 1. The rated current and coil resistance are measured at a contemperature of 20 cmm, closured at a contemperature of 20 cmm, closured at a contemperature of 20 cmm, closured at a coll resistance.

2. The AC coil resistance and inductance values are reference values only
3. Operating characteristics were measured at a coil temperature of 23°C.
4. The maximum voltage capacity was measured at an ambient temperature of 23°C.

★1. There is variation between products, but actual values are 80% max.
To ensure operation, apply at least 80% of the rated value

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

Contact Ratings

Load 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	0.3 A at 220 VAC 0.5 A at 24 VDC			
Rated carry current	1 A	1 A			
Maximum contact voltage	t 250 VAC, 125 VDC				
Maximum contact current	1 A	1 A			
Contact structure	Crossbar bifurcated				
Contact materials	Au cladding + AgPd				

Characteristics

Contact resistance*1		100 mΩ max.			
Operation tin	ne*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 ΜΩ			
Between coil and contacts		2,000 VAC at 50/60 Hz for 1 min.			
Dielectric strength	Between contacts of different polarity	2,000 VAC at 30/00 HZ 101 1 Hills.			
	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)			
Electrical*4		50,000 operations min. (switching frequency: 1,800 operations/h) at rated load			
Failure rate P valu	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			

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

*4. Ambient temperature condition: 23° C

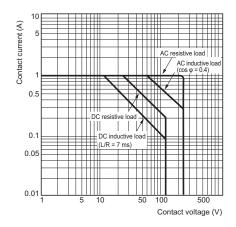
*5. This value was measured at a switching frequency of 120 operations per minute.

Engineering Data

Engineering Data

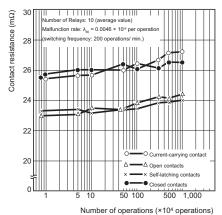
Maximum Switching Capacity

MY4Z-CBG



Contact Reliability Test (Modified Allen Bradley Circuit)

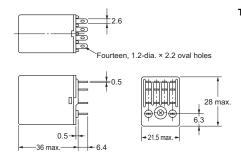
Contact load: 5 VDC, 1 mA resistive load Malfunction criteria level: Contact resistance of 100 Ω



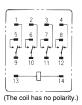
Dimensions (Unit: mm)

MY4Z-CBG





Terminal Arrangement/Internal Connections (Bottom View) Standard Models



Safety Precautions

Refer to the Common Relay Precautions.

Applicable Sockets

Use only combinations of OMRON Relays and Sockets.

Plastic Sealed Relays: MYQ

Ordering Information

Relays with Plug-in or Soldered **Terminals**

When your order, specify the rated voltage.

	Туре	4 poles		
Classification	n	Model	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	Standard models	MYQ4Z	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	MYQ4-02	50, 200/220, or 220/240 VAC	
single contacts		24 VDC	
Bifurcated	MYQ4Z-02	100/110 VAC	
contacts	WII 942-02	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)	Armature OFF	Armature ON	operate voltage (V)	release voltage (V)	voltage (V)	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		30% min.*2 30% ax.*1	110% of rated voltage	Approx.
AC	110/120	9.9/10.8	8.4/9.2	4,430	19.2	32.1				1.0 to 1.2 (at
	200/220	6.2/6.8	5.3/5.8	12,950	54.75	91.07	000/			60 Hz)
	220/240	4.8/5.3	4.2/4.6	18,790	83.5	136.4	80% max.*1			
	12	7	5	160	0.734	1.37				
DC	24	36	5.9	650	3.2	5.72		10%		Approx.
БС	48	18	3.5	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

1. The fated 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	$0.5~\mbox{A}$ at 220 VAC, $0.5~\mbox{A}$ at 24 VDC				
Rated carry current	1 A					
Maximum contact voltage	250 VAC, 125 VDC					
Maximum contact current	1 A					
Maximum switching capacity (reference value)	220 VAC, 24 W 110 VAC, 12 W					
Failure rate P value (reference value)	Single contacts: 1 mA at 1 VDC, Bifurcated contacts: 100 µA at 1 VDC					
Contact structure	Single/bifurcated					
Contact materials	Au plating + Ag					

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

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

^{*} With no icing or condensation.

Characteristics

Contact resistance*1		50 m $Ω$ 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		
	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.		
Insulation resistance*3		100 MΩ 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		
Mechanical Endurance		AC: 50,000,000 operations (5,000,000*4) min., DC: 100,000,000 operations (5,000,000*4) min. (switching frequency: 18,000 operations/h)		
Electrical*5		200,000 operations min. (100,000 operations*4) (rated load, switching frequency: 1,800 operations/h)		
Weight		Approx. 35 g		

Note: The values at the left are initial

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

measurement conditions: With rated operating power applied, not including contact bounce. Ambient temperature condition: 23° C

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

measurement.

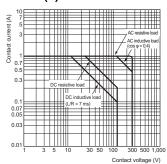
*4. This value is for bifurcated contacts.

***5.** Ambient temperature condition: 23° C

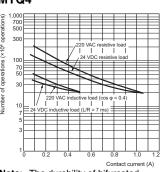
Engineering Data

Engineering Data

Maximum Switching Capacity MYQ4(Z)

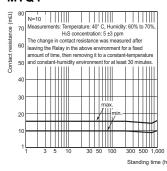


Endurance Curve MYQ4

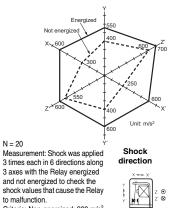


The durability of bifurcated contacts is one-half that of single contacts.

H₂S Gas Data MYQ4



Malfunctioning Shock



Criteria: Non-energized: 200 m/s² Energized: 200 m/s²

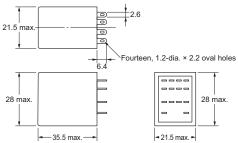
N = 20

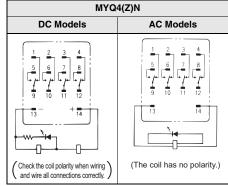
(Unit: mm)

Dimensions

Relays with Plug-in Terminals or Soldered Terminals





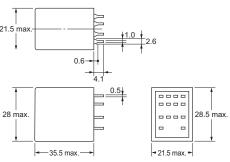


Note: 1. An AC model has coil disconnection selfdiagnosis

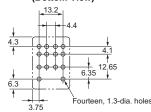
For the DC models, check the coil polarity when wiring and wire all connections

Relays with PCB Terminals MYQ4(Z)-02





PCB Processing Dimensions (Bottom View)



Note: The dimensional tolerance is ± 0.1 .

Terminal Arrangement/Internal Connections (Bottom View) Standard Models



Safety Precautions

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

Relay Replacement

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

Latching Relays MYK

Ordering information 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			
	W 12K-02	12 VDC			
		24 VDC			

Ratings and Specifications

Ratings

Operating Coil

	Item		Set coil			Reset c	oil					Power consun	nption (VA, W)							
	iteiii	Rated cui	rent (mA)	Coil	Rated cui	rent (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)	(-)		remage (1)	Set Coll Re	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	- 80% max.	80% max. 80% max.	110% max		to 0.9	to 0.5 (at 60 Hz)							
	100	7.1	6.9	5,400	3.5	3.4	3,000				110% max. of									
	12	11	10	110	5	0	235 940				60% IIIax.	rated voltage								
DC	24	5	2	470	2	5							,						•	940
	48	2	7	1,800	1	6	3,000													

The rated current for AC is the value measured with a DC ammeter in half-wave rectification.

- The rated current of AC is the value measured with a DC ammeter in nan-wave rectification.
 The rated current and coil resistance are measured at a coil temperature of 23°C with tolerances of +15%/-20% for the AC rated current and ±15% for the DC coil resistance.
 The AC coil resistance is a reference value only.
 Operating characteristics were measured at a coil temperature of 23°C.
 The maximum voltage capacity was measured at an ambient temperature of 23°C.

Contact Ratings

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 resistance*1		50 m $Ω$ max.		
Set	Time*2	AC: 30 ms max., DC: 15 ms max.		
Jei	Minimum pulse width	AC: 60 ms, DC: 30 ms		
Reset	Time*2	AC: 30 ms max., DC: 15 ms max.		
neset	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 ΜΩ		
	Between coil and contacts	1,500 VAC at 50/60 Hz for 1 min.		
Dielectric	Between contacts of different polarity	1,500 770 at 50/00 112 for 1 fillin.		
strength	Between contacts of the same polarity	1.000 VAC at 50/60 Hz for 1 min.		
	Between set/ reset coils	1,000 VAC at 50/00 112 101 1 111111.		
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)		
Lituurance	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				

- Note: The above values are initial values.

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

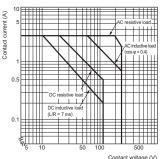
 *2. Measurement conditions: With rated operating power applied, not including contact bounce.

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

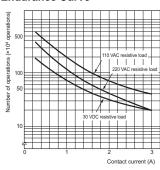
Engineering Data

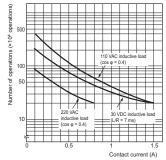
Engineering Data

MY2K(-02) Maximum Switching Capacity

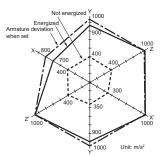


Endurance Curve





MY2K 100 VAC Malfunctioning Shock

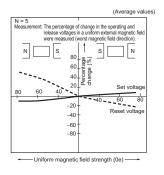




N = 20 Measurement: Shock was applied 2 times each in 6 directions along 3 axes with the Relay energized and not energized to check the shock values that cause the Relay to malfunction.

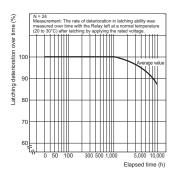
Criteria: Non-energized: 200 m/s² Energized: 200 m/s²

MY2K 24 VDC Magnetic Interference (External Magnetic Field)



(Unit: mm)

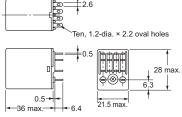
Latching Deterioration Over Time



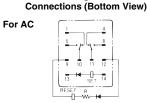
Dimensions

Relays with Plug-in Terminals or Soldered Terminals MY2K





Terminal Arrangement/Internal



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

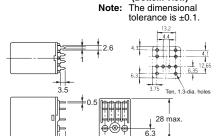
36 max. → 4 6.4

4—36 max

Relays with PCB Terminals



MY2K-02



PCB Processing Dimensions

(Bottom View)

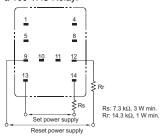
For DC



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

Safety Precautions

 For applications that use a 200 VAC power supply, connect external resistors Rs and Rr to a 100 VAC Relay.



- Do not apply a voltage to the set and reset coils at the same time. If you apply the rated voltage to both coils simultaneously, the Relay will be set.
- The minimum pulse width in the performance column is the value for the following measurement conditions: an ambient temperature of 23° C with the rated operating voltage applied to the coil. The performance values given here may not be satisfied due to use over time and a reduction in latching performance due to changes in the ambient temperature or in the conditions of the application circuit.
 For actual use, apply the rated operating voltage with a

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	IVI 1 41 1	12, 24, 48, or 100/110 VDC	
Bifurcated contacts	MY4ZH	24, 100/110, or 110/120 VAC	
Bilurcateu contacts	IVI I 42M	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	W 1411-0	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	
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					
AC	100/110	11.7/12.9	10/11	3,750	14.54	24.6		30% min.*2			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				(3.1 5 5 1 1 2)	
	12	75	,	160	0.73	1.37	80% may *1	80% max.*1		110% of rated voltage	
DC	24	36.	9	650	3.2	5.72		10% min *2	g-	Approx. 0.9	
ВС	48	18.	5	2,600	10.6	21.0		10% Min.	10% 111111.	Арргох. 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
- Operating characteristics were measured at a coil 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		rith single tacts	Bifurcated	d contacts	
Item	Resistive load cos φ = 0.4 L/R = 7 ms		Resistive load	Inductive load cos φ = 0.4 L/R = 7 ms	
Rated load			3 A at 110 VAC 3 A at 24 VDC	0.8 A at 110 VAC 1.5 A at 24 VDC	
Rated carry current	3 A		3 A		
Maximum contact voltage	125 VAC 125 VDC		125 VAC 125 VDC		
Maximum contact current	3 A		3 A		
Contact structure	Single		Bifurcated		
Contact materials	Au plating + /	Ag			
Ambient operating temperature	–25 to 60° (O*			
Ambient operating humidity	5% to 85%				

^{*} With no icing or condensation.

Characteristics

Contact re	sistance*1	50 m $Ω$ max.		
Operation	time*2	20 ms max.		
Release tir	me ^{#2}	20 ms max.		
Maximum	Mechanical	18,000 operations/h		
operating frequency	Rated load	1,800 operations/h		
Insulation	resistance*4	100 M Ω 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)		
Shock	Destruction	1,000 m/s ²		
resistance	Malfunction	200 m/s ²		
Endurance	Mechanical	50,000,000 operations (5,000,000 operations*4) min. (operating frequency: 18,000 operations/h)		
Lituarance	Electrical*5	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 initial values.

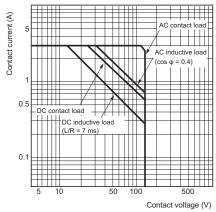
- *1. Measurement conditions: 1 A at 5 VDC using the voltage drop method

 *2. Measurement conditions: With rated operating power applied, not including contact
- Ambient temperature condition: 23° C *3. Measurement conditions: For 500 VDC applied to the same location as for dielectric strength measurement.
 *4. This value is for bifurcated contacts.
 *5. Ambient temperature condition: 23° C
 *6. This value was measured at a switching frequency of 120 operations per minute.

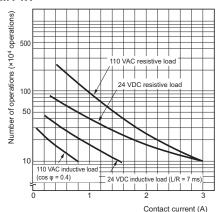
Engineering Data

Engineering Data

Maximum Switching Capacity MY4(Z)H



Endurance Curve MY4H

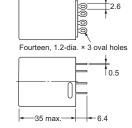


Note: The durability of bifurcated contacts is one-half that of single contacts.

Dimensions (Unit: mm)

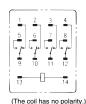
Relays with Plug-in Terminals or Soldered Terminals



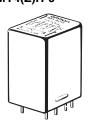


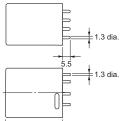


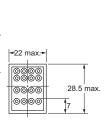
Terminal Arrangement/ Internal Connections (Bottom View)



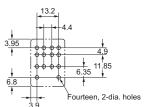
Relays with PCB Terminals MY4(Z)H-0







PCB Processing Dimensions (Bottom View)



Safety Precautions

PCB Design for Hermetically Sealed Relays

-35 max.

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

Solution

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

Applicable Sockets

Use only combinations of OMRON Relays and Sockets.

Application Environment for Hermetically Sealed Relays

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

Solution

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

Relay Replacement

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

Options (Order Separately)

Connection Socket and Mounting Bracket Selection Table

Туре	Front-mounting Sockets						Back	c-mounting So	ckets			
	Track or screv	w mounting	Screw mounting only		Solder terminals		Wrapping terminals					
		Terminal cover structure		Screwless Socket	Without	Without With Mounting Mounting Brackets Brackets		Diackets		With Mounting Brackets		Relays with PCB Terminals
Model	Screw termin	al size: M3	Screw terminal size: M3.5					Terminal length: 20 mm	Terminal length: 25 mm	Terminal length: 20 mm	reminus	
MY2□ MY2(S)	PYF08A (PYC-A1)	PYF08A-E (PYC-A1)	PYF08M (PYC-P)	DVEGGG	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)				PY11 (PYC-P)	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	PY14QN (PYC-P)	PY14QN2 (PYC-P)	PY14QN-Y1	PY14QN2-Y1	PY14-02 (PYC-P)	
MY4ZH MY2K□	PYF14T (PYC-A1)	, ,										

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

The Mounting Bracket. Woulding Bracket. Solve the Applicable Woulding Bracket. Mounting Brackets are sold in sets of two. However, the PTC-P is just one Mounting Brackets are sold in sets of two. However, the PTC-P is just one Mounting Brackets are sold in sets of two. However, the PTC-P is just one Brackets are sold in sets of two. However, the PTC-P is just one Brackets are sold in sets of two. However, the PTC-P is just one Brackets are sold in sets of two. However, the PTC-P is just one Bracket are s

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,
- 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.)

Mounting Heights with Sockets (Unit: mm)

Front-mounting Sockets

MY

PYF□A or PYF14T

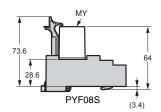
70 (87)

MY PYF08M

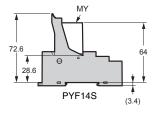
39 (56

Back-mounting

Sockets



Screwless Sockets



The PYF□A can be mounted on a track or with screws. Note: 1.

66 (83)

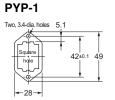
- The heights given in parentheses are the measurements for 53-mm-high Relays.
 Use the PYC-P Mounting Bracket for the PYF08M.

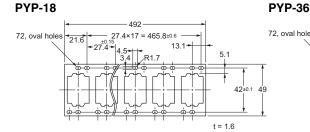
Socket Mounting Plate (t = 1.6) (Unit: mm)

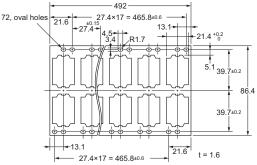
Use a Socket Mounting Plate to mount multiple connection Sockets in a row.

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

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







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

Compliance with Electrical Appliances and Material Safety Act

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

Model	Number of poles	Coil ratings	Contact ratings
MY	1 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 4-pole models with a voltage that exceeds 150 VAC. However, this restriction can be ignored if compliance with the Electrical Appliances and Material Safety Act is not required.

Safety Precautions

Refer to the Common Relay Precautions.

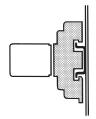
Precautions for Correct Use

Handling

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

Installation

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



 Use two M3 screws to attach case-surface-mounted models (MY□F) and tighten the screws securely (tightening torque: 0.98 N•m).

Using MY-series Relays with Microloads with Infrequent Operation

If any standard MY-series Relays (e.g., MY4) are used infrequently to switch microloads, the contacts may become unstable and eventually result in poor contact. In this case, we recommend using the MY4Z-CBG Series, which has high contact reliability for microloads (Refer to page 25.)

About the Built-in Diode and CR Elements

The diode or CR element that are built into the Relay are designed to absorb the reverse voltage from the Relay coil. If a large surge in voltage is applied to the diode or CR element from an external source, the element will be destroyed. If there is the possibility of large voltage surges that could be applied to the elements from an external source, take any necessary surge absorption measures.

Latching Levers

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

Relay Replacement

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

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.

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