Characteristics

Item Type		Standard models	Models with built- in operation indicators	Models with built-in CR circuits	Models with built-in diodes	Model with built-in operation indicator and diode	Model with built-in operation indicator and CR circuit		
Contact res	istance*1	50 mΩ max.							
Operation ti	me ^{*2}	20 ms max.							
Release tim	e*2	20 ms max.							
Maximum	Maximum Mechanical		18,000 operations/h						
operating frequency	Rated load								
Insulation resistance*3		100 $M\Omega$ 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 (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)							
	Electrical*4	500,000 operations min. (rated load, switching frequency: 1,800 operations/h)							

Item	Number of poles	2 poles	No
Failur (refere	e rate P value ence value)*5	1 mA at 5 VDC	*1 *2
Weigh	ıt	Approx. 35 g	*3

ote: These are initial values.

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

measurement.

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

Dimensions

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





(Bottom View) Standard Models 4 5 | 8 . . 12 . -П 13 14

Terminal Arrangement/In-ternal Connections





MY2-CR





MY2N-CR

(The coil has no polarity.)

(The coil has no polarity.)

(Unit: mm)

MY2-D







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

Miniature Power Relays: MY2Z



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

Ordering Information When your order, specify the rated voltage.

Classification	Madal	Rated voltage (V)			
Classification	Model	Standard products	Made-to-order items		
Standard models	MV07	100/110 or 200/220 VAC	12, 24, 100/120, or 200/240 VAC		
Standard models	IVI Y 22	12 or 24 VDC	48 or 100/110 VDC		
Madela with built in exerction indirectors	MVOZNI	100/110 or 200/220 VAC	12, 24, 100/120, or 200/240 VAC		
Models with built-in operation indicators	WIYZZN	24 VDC	12, 48, or 100/110 VDC		
Models with built-in diodes	MY2Z-D	24 VDC	12 or 100/110 VDC		
Models with built-in diodes and operation indicators	MY2ZN-D2	24 or 100/110 VDC	12 VDC		
Models with built-in CR circuits	MY2Z-CR		100/110 or 200/220 VAC		
Models with built-in CR circuits and operation indicators	MY2ZN-CR	100/110 VAC	200/220 VAC		

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

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

Ratings and Specifications

Ratings

Operating Coil (Standard Models)

	ltem	Rated current (mA)			Coil inductance (H)		Must-	Must-	Maximum	Device concumution	
Rate volta	d age (V)	50 Hz	60 Hz	(Ω)	Armature OFF	Armature ON	operate voltage (V)	release voltage (V)	voltage (V)	(VA, W)	
	12	106.5	91	46	0.17	0.33	80% max.*1	20º/ min *2		Approx. 0.9 to 1.3	
	24	53.8	46	180	0.69	1.3					
40	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		90% max *1	50 % mm.	110% of rated	(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			voltage		
	12	75	5	160	0.73	1.37					
DC	24	36.	9	650	3.2	5.72		10% min *2			
DC	48	18.	5	2,600	10.6	21.0		10 /6 11111		Appi0X. 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 80% minimum for AC and 10% minimum for DC. To ensure release, use a value that is lower than the specified value

specified value.

Contact Ratings

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