

Power Relays MK-S(X)

MK-S-series Relays with DC-switching Models That Can Switch 220 VDC, 10 A (Resistive Load).

- Switch a DC load of 220 VDC, 10 A (resistive load).
- Models for AC Loads can switch 250 VAC, 15 A (resistive load).
- Lineup includes models with SPST-NO and SPST-NO/SPST-NC contact forms.
- Using a SPST-NO/SPST-NC contact form enables detecting contact welding. (When the NO contacts become welded, the NC contacts will maintain a minimum distance of 0.5 mm.)
- Models available with operation indicators and built-in test buttons.
- · RoHS compliant.
- Standards: UL, IEC (TÜV certification)



For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

Ordering Information

When your order, specify the rated voltage.

General-purpose Relays

Models for DC Loads

Contact form	SPST-NO		SPST-NO/SPST-NC	
Туре	Model	Rated voltage (V)	Model	Rated voltage (V)
Standard Models	MKS1XT-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2XT-11	AC: 24, 100, 110, 120, 200, 220, 230, 240
Standard Models	MIK21X1-10	DC: 12, 24, 48, 110, 220	WINSZXI-II	DC: 12, 24, 48, 110, 220
Models with Built-in	MKS1XTN-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2XTN-11	AC: 24, 100, 110, 120, 200, 220, 230, 240
Operation Indicators	MIK21X1M-10	DC: 12, 24, 48, 110, 220	WIN5ZXIN-II	DC: 12, 24, 48, 110, 220
Madala with Test Button	MKS1XTI-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2XTI-11	AC: 24, 100, 110, 120, 200, 220, 230, 240
Models with Test Button		DC: 12, 24, 48, 110, 220	WINSZATI-TT	DC: 12, 24, 48, 110, 220
Models with Test Button and	MKS1XTIN-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2XTIN-11	AC: 24, 100, 110, 120, 200, 220, 230, 240
Built-in Operation Indicators	MKS1X1IN-10	DC: 12, 24, 48, 110, 220	WINSZATIN-TT	DC: 12, 24, 48, 110, 220

Models for AC Loads

Contact form		SPST-NO	SPST-NO/SPST-NC		
Туре	Model	Rated voltage (V)	Model	Rated voltage (V)	
Standard Models	MKS1T-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2T-11	AC: 24, 100, 110, 120, 200, 220, 230, 240	
Standard Models	MK211-10	DC: 12, 24, 48, 110, 220	WK321-11	DC: 12, 24, 48, 110, 220	
Models with Built-in	MKS1TN-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2TN-11	AC: 24, 100, 110, 120, 200, 220, 230, 240	
Operation Indicators		DC: 12, 24, 48, 110, 220	WIK521N-11	DC: 12, 24, 48, 110, 220	
Modele with Test Button	MKS1TI-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2TI-11	AC: 24, 100, 110, 120, 200, 220, 230, 240	
Models with Test Button		DC: 12, 24, 48, 110, 220	WIK5211-11	DC: 12, 24, 48, 110, 220	
Models with Test Button and Built-in Operation Indicators	MVC1TIN 10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2TIN-11	AC: 24, 100, 110, 120, 200, 220, 230, 240	
	MKS1TIN-10	DC: 12, 24, 48, 110, 220	ININOZIIN-II	DC: 12, 24, 48, 110, 220	

Accessory (Order Separately)

Connecting Socket

Classif	ications	Built-in diode	Model
Back-connecting Socket	PCB Terminals	No	P7M-06P
Front-connecting Socket	Mounts to DIN Track or via	No	P7MF-06
From-connecting Socket	screws	Yes	P7MF-06-D

MK-S(X)

Specifications

Ratings

Operating Coil

	Item	Rated current (mA)		Coil resistance (Ω)	Must operate voltage (V)	Must release voltage (V)	Maximum voltage allowable (V)	Power consumption (VA, W)	
Rated	voltage (V)	50 Hz	60 Hz	(52)	Percer	Percentage of rated voltage			
	24	110	96.3	48.4					
	100	26.6	23.1	760					
	110	24.2	21.0	932		30% min. at 60 Hz 25% min. at 50 Hz 0% max.	60 Hz 25% min. at	Approx. 2.3 VA at 60 Hz Approx. 2.7 VA at 50 Hz	
AC	120	22.2	19.3	1,130					
AC	200	13.3	11.6	3,160					
	220	12.1	10.5	3,550					
	230	11.5	10.0	4,250	80% max.		110%	ax. 110%	
	240	11.0	9.6	4,480					
	12	126	3	95					
	24	63	3.2	380					
DC	48 32.0	1,500	15% n	15% min.	15% min.	Approx. 1.5 W			
	110	13	3.6	8,060					
	220	(3.8	32,200					

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

2. Performance characteristic data are measured at a coil temperature of 23°C.

- 3. The maximum allowable voltage is the maximum value of the allowable voltage range for the operating power supply for the relay coil. There is no continuous allowance.
- 4. The rated current is approximately 5 mA higher for Models with Built-in Operation Indicators (DC operating coils).

Contact Ratings for Models for DC Loads

Contact form		SPST-NO			SPST-NO/SPST-NC			
	Model	MKS1XT(I)(N)-10			MKS2XT(I)(N)-11			
Load		Decistive lead	Inductive load		Desistive lead	Inducti	Inductive load	
		Resistive load	L/R = 7 ms	DC13 class	Resistive load	L/R = 7 ms	DC13 class	
Contact configuration	NO		Double-break		Double-break			
Contact configuration NC					Single-break			
Contact material		AgSnIn			AgSnIn			
Rated load	NO	10 A, 220 VDC	5 A, 220 VDC	0.4 A, 220 VDC	5 A, 220 VDC	3 A, 220 VDC	0.2 A, 220 VDC	
	NC				2 A, 220 VDC	0.3 A, 220 VDC	0.1 A, 220 VDC	
Detect corm, correct	NO	10 A			5 A			
Rated carry current	NC				2 A			
Man and taking make a	NO		220 VDC					
Max. switching voltage	NC					220 VDC		
Mana annitation annual	NO	10 A	5 A	0.4 A	5 A	3 A	0.2 A	
Max. switching current	NC					0.3 A	0.1 A	
Max. switching capacity	NO	2,200 W			1,100 W			
(reference value)	NC			•	440 W			

Note: If the L/R of an inductive load exceeds 7 ms with a Model for a DC Load, the arc interruption time must be less than approximately 50 ms to use the Relay. Design the circuit so that the arc interruption time is 50 ms or less.

Contact Ratings for Models for AC Loads

Con	tact form	SPST-NO	SPST-NO/SPST-NC		
	Model	MKS1T(I)(N)-10	MKS2T(I)(N)-11		
Load		Resistive load	Resistive load		
Contact configuration	NO	Double-break	Double-break		
Contact configuration	NC		Single-break		
Contact material		AgSnIn	AgSnIn		
Rated load	NO	15 A, 250 VAC	15 A, 250 VAC		
Rateu Ioau	NC		5 A, 250 VAC		
Dated corm, correct	NO	15 A	15 A		
Rated carry current	NC		5 A		
Max. switching voltage	NO	250 VAC	250 VAC		
wax. switching voltage	NC		250 VAC		
Max. switching current	NO	15 A	15 A		
wax. Switching current	NC		5 A		
Max. switching capacity	NO	3,750 VA	3,750 VA		
(reference value)	NC		1,250 VA		

 $[\]ensuremath{\bigstar}$ These values apply to a switching frequency of 20 times per minute.

^{*}These values apply to a switching frequency of 30 times per minute.

Characteristics

AC: 20 ms max. DC: 30 ms max.	100 m Ω max.		
Max. operating frequency Mechanical 18,000 operations/h Rated load Models for DC loads: 1,800 times/hour Models for AC loads: 1,200 times/hour Insulation resistance *3 100 MΩ min. Dielectric strength Between coil and contacts 2,500 VAC 50/60 Hz for 1 min between Between contacts of different polarity 2,500 VAC 50/60 Hz for 1 min between Between contacts of same polarity 1,000 VAC 50/60 Hz for 1 min Vibration Destruction 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)			
Max. operating frequency Rated load Models for DC loads: 1,800 times/hour Models for AC loads: 1,200 times/hour Insulation resistance *3 100 MΩ min. Dielectric strength Between coil and contacts 2,500 VAC 50/60 Hz for 1 min between Between contacts of different polarity 2,500 VAC 50/60 Hz for 1 min between Between contacts of same polarity 1,000 VAC 50/60 Hz for 1 min Vibration Destruction 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)	20 ms max.		
frequency Rated load Models for DC loads: 1,800 times/hour Insulation resistance *3 100 MΩ min. Dielectric strength Between contacts of different polarity strength 2,500 VAC 50/60 Hz for 1 min between Between contacts of same polarity 1,000 VAC 50/60 Hz for 1 min Vibration Destruction 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)			
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Dielectric strength Between contacts of different polarity 2,500 VAC 50/60 Hz for 1 min between 1,000 VAC 50/60 Hz for 1 min between 1,000 VAC 50/60 Hz for 1 min Destruction 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)			
Strength Between contacts of different polarity 2,500 VAC 50/60 Hz for 1 min between 1,000 VAC 50/60 Hz for 1 min 1,000 VAC 50/60 Hz for 1 min 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)	en en		
Between contacts of same polarity 1,000 VAC 50/60 Hz for 1 min Vibration Destruction 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)	2,500 VAC 50/60 Hz for 1 min between		
	1,000 VAC 50/60 Hz for 1 min		
resistance Malfunction 10 to 55 to 10 Hz 0.50 mm single amplitude (1.0 mm double amplitude)	nplitude (1.5-mm double amplitude)		
10 to 55 to 10 112, 0.50-initi single amplitude (1.0-initi double amplitude)	nplitude (1.0-mm double amplitude)		
Shock resistance Destruction Back-connecting Socket (P7M-06P) mounting: 1,000 m/s² Front-connecting Socket (P7MF-06(-D)) mounting:500m/s²			
Malfunction 100 m/s ²			
Endurance Mechanical 1,000,000 operations min. (at 18,000 operations/hr)	operations/hr)		
Electrical *4 100,000 operations min. (at rated load and maximum switching frequency)	d and maximum switching frequency)		
Failure rate P level (reference value) 10 mA at 24 VDC			
Ambient operating temperature -40°C to 60°C (with no icing or condensation) Note: The range is -25°C to 60°C for models with built-in operation indicators.			
Ambient operating humidity 5% to 85%	5% to 85%		
Weight SPST-NO: Approx. 73 g, SPST-NO/SPST-NC: Approx. 82 g	SPST-NC: Approx. 82 g		

Note: The values given above are initial values.

***1.** The contact resistance was measured for 1 A at 5 VDC using the voltage drop method.

*2. The operate time was measured with the rated voltage imposed and any contact bounce ignored at an ambient temperature of 23°C.

*3. The insulation resistance was measured with a 500-VDC insulation resistance tester at the same places as those used for checking the dielectric strength.

***4.** The electrical endurance was measured at an ambient temperature of 23°C.

Approved Standards

UL508 (File No. E41515) E Sus

Model	Coil ratings		Contact ratings	Operations
MKS1XT		NO contacts	10 A, 220 VDC (Resistive) 5 A, 220 VDC L/R (T _{0.632}) = 7 ms 0.4 A, 220 VDC L/R (T _{0.95}) = 300 ms	
MKS2XT□-□	12 to 220 VDC 24 to 240 VAC	NO contacts	5 A, 220 VDC (Resistive) 3 A, 220 VDC L/R (T _{0.632}) = 7 ms 0.2 A, 220 VDC L/R (T _{0.95}) = 300 ms	6,000
MKS2XIL-L		NC contacts	2 A, 220 VDC (Resistive) 0.3 A, 220 VDC L/R (T _{0.632}) = 7 ms 0.1 A, 220 VDC L/R (T _{0.95}) = 300 ms	
MKS1T□-□		NO contacts	15 A, 250 VAC (Resistive)	
MKS2T□-□		NO contacts	15 A, 250 VAC (Resistive)	
WIN321		NC contacts	5 A, 250 VAC (Resistive)	

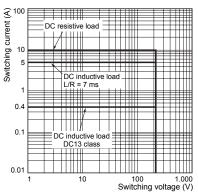
CSA Standard: CSA Certification by CSA C22.2 No.14

IEC Standard/TÜV Certification: IEC61810-1 (Certification No. R50104853) △

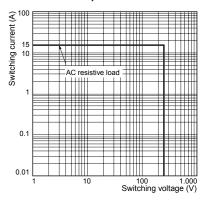
Model	Coil ratings		Contact ratings	Operations
MKS1XT□-□		NO contacts	DC-1: 10 A, 220 VDC 5 A, 220 VDC L/R (T _{0.632}) = 7 ms DC-13: 0.4 A, 220 VDC	
MKS2XT□-□	12, 24, 48, 110, 220 VDC 24, 100, 110, 120, 200, 220, 230, 240 VAC	NO contacts	DC-1: 5 A, 220 VDC 3 A, 220 VDC L/R (T _{0.632}) = 7 ms DC-13: 0.2 A, 220 VDC	1
MKS2XIU-U		NC contacts	DC-1: 2 A, 220 VDC 0.3 A, 220 VDC L/R (T _{0.632}) = 7 ms DC-13: 0.1 A, 220 VDC	100,000
MKS1T□-□		NO contacts	AC-1: 15 A, 250 VAC 50/60 Hz	1
MKS2T□-□		NO contacts	AC-1: 15 A, 250 VAC 50/60 Hz	
WINGE I LI-LI		NC contacts	AC-1: 5 A, 250 VAC 50/60 Hz	

Engineering Data

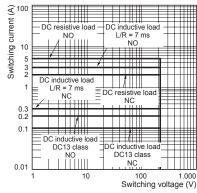
Maximum Switching Power MKS1XT-10, MKS1XTN-10 MKS1XTI-10, MKS1XTIN-10



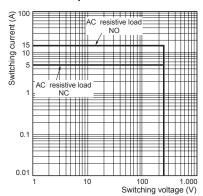
MKS1T-10, MKS1TN-10 MKS1TI-10, MKS1TIN-10



MKS2XT-11, MKS2XTN-11 MKS2XTI-11, MKS2XTIN-11



MKS2T-11, MKS2TN-11 MKS2TI-11, MKS2TIN-11



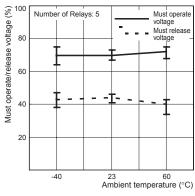
Ambient Temperature vs. Must Operate Voltage and Must Release Voltage

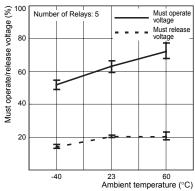
MKS2XT-11

AC Specification (60 Hz)

MKS2XT-11

DC Specification





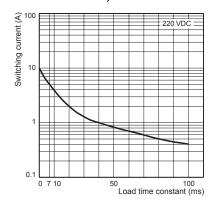
Inductive Load Switching Power (Models for DC Loads)

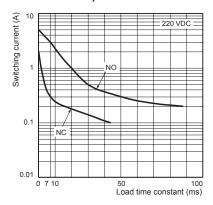
MKS1XT-10, MKS1XTN-10

MKS2XT-11, MKS2XTN-11

MKS1XTI-10, MKS1XTIN-10

MKS2XTI-11, MKS2XTIN-11



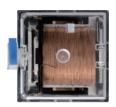


Test Button

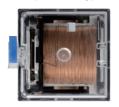
The circuit can be checked using either of two modes.

Test Button
DC specification: Blue
AC specification: Red

Normal

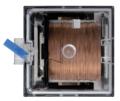


Mode 1 (momentary)



Press the button for operation. (No tool is required.)

Mode 2 (locked)



Lock the contacts by pressing down on the button and turning it.

Test Button Applications

Example: Checking operation of Relays and sequence circuits.

Dimensions (Unit: mm)

General-purpose Relays

Models for DC Loads

Standard Models

MKS1XT-10 MKS2XT-11

Models with Built-in Operation Indicators

MKS1XTN-10 MKS2XTN-11

Models for AC Loads

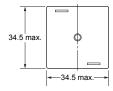
Standard Models

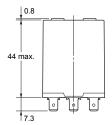
MKS1T-10 MKS2T-11

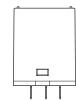
Models with Built-in Operation Indicators

MKS1TN-10 MKS2TN-11









Models for DC Loads

Models with Test Button

MKS1XTI-10 MKS2XTI-11 Models with Test Button and Built-in

Operation Indicators

MKS1XTIN-10 MKS2XTIN-11

Models for AC Loads

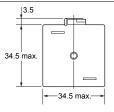
Models with Test Button

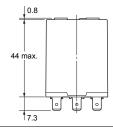
MKS1TI-10 MKS2TI-11

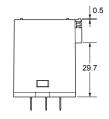
Models with Test Button and Built-in Operation Indicators

MKS1TIN-10 MKS2TIN-11









Terminal Arrangement/Internal Connection (Bottom View)

MKS1XT-10 MKS1XTI-10	MKS1X MKS1X		MKS2XT-11 MKS2XTI-11	MKS2XTN-11 MKS2XTIN-11		
	DC specification	AC specification		DC specification	AC specification	
4 6 (+)	4 6 (+)	4 6 (+)	4 6 (+)	4	4 6 (+	
A B	A (+) B (-)	A B	A B	A (+) B (-)	A B	
MKS1T-10 MKS1TI-10	MKS1T MKS1T		MKS2T-11 MKS2TI-11	MKS2T MKS2T		
*						
	DC specification	AC specification		DC specification	AC specification	
4 6	DC specification 4 6	AC specification 4 6	4 6	DC specification 2 1 4 6	AC specification	

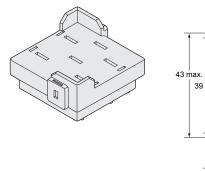
Note: 1. Wire properly using the correct coil polarity.

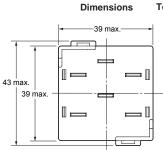
2. The contact terminals on Models for DC Loads have polarity. Wire properly using the correct polarity.

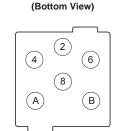
Connecting Socket

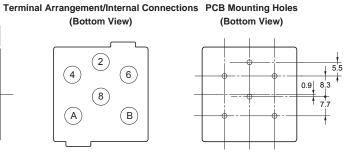
Back-connecting Socket

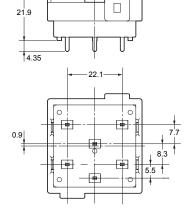
P7M-06P





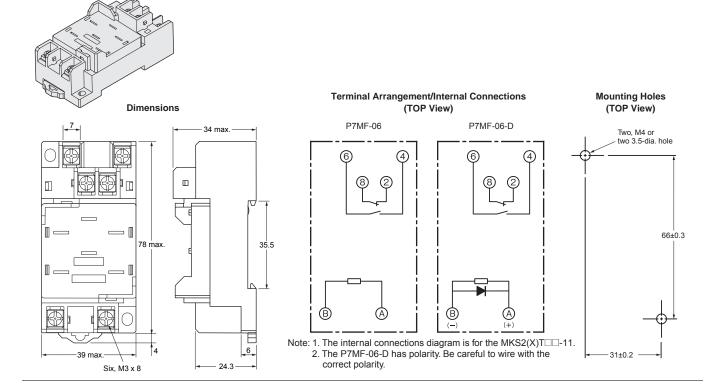






Front-connecting Socket

P7MF-06 P7MF-06-D



Accessory (Order Separately)

Connecting Socket

	Socket	Back-connecting Socket	Front-connecting Socket
Number of poles		PCB terminals	Mounts to DIN Track or via screws
		P7M-06P	P7MF-06 P7MF-06-D
2			

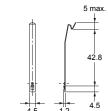
- Note: 1. The P7M-06P, P7MF-06, and P7MF-06-D can be used with models for DC loads with an SPST-NO or SPST-NO/SPST-NC contact form or with models for AC loads with an SPST-NO or SPST-NO/SPST-NC contact form.
 - 2. The P7MF-06-D has a built-in diode and can thus be used only with Relays with DC operating coils. Do not use it with a Relay with an AC operating coil.
 - 3. Refer to *Gang Mounting* on page 10 for the conditions required for gang mounting.

Relay Hold-down Clips

Use the Clips to securely mount the Relay and prevent it from falling due to vibration or shock.

Socket	MKS1XT-10 MKS1XTI-10 MKS1XTIN-10 MKS1XTN-10 MKS1T-10 MKS1TI-10 MKS1TIN-10 MKS1TN-10	MKS2XT-11 MKS2XTI-11 MKS2XTIN-11 MKS2XTIN-11 MKS2T-11 MKS2TI-11 MKS2TIN-11 MKS2TIN-11			
Back-connecting Socket	PCB terminals	P7M-06P			
Front connecting Socket	PYC-A2				
From-connecting Socket	Front-connecting Socket Track or via screws P7MF-06-D				

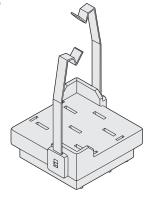
PYC-A2 One Set (Two Clips)

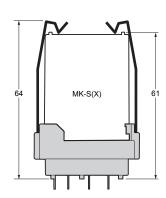


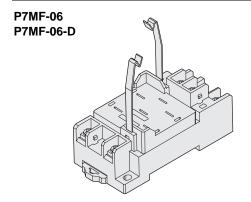
Note: The minimum order for the PYC-A2 is ten clips.

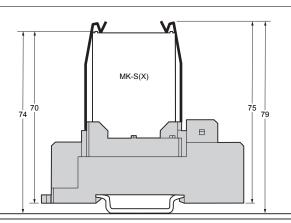
Socket Mounting Height











Safety Precautions

Refer also to Precautions for All Relays.

Precautions for Correct Use

Installation

- Models for DC loads (i.e., models with "X" in the model number)
 have permanent magnets built into the insulating block. If a
 permanent magnet or other magnetic body comes near the Relay,
 magnetic interference will occur with the built-in permanent magnet
 and the contact switching capacity will be decreased.
- Models for AC loads do not contain a permanent magnet.
- When mounting a P7MF-06(-D) Front-mounting Socket to a DIN Track, attach PFP-M End Plates on both sides of the Socket to prevent it from moving.

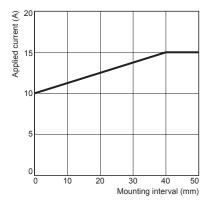
Gang Mounting

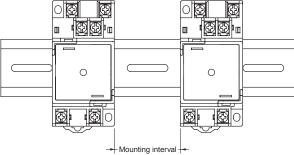
Conditions for Gang Mounting Relays

		Socket	
Relay	Rated current of Relay	Back-Connecting Socket	Front-Connecting Socket
Models for DC Loads	10A	0	0
Models for AC Loads	15A	0	*

* Gang mounting of the Front-Mounting Sockets is not possible if the contact carry current exceeds 10A.Provide space on both the right and left sides of the Sockets.

The mounting pitch is given in the following diagram.





Wiring

- The contact terminals on Models for DC Loads (i.e., models with "X" in the model number) have polarity. Wiring with incorrect polarity may result in inability to turn OFF the Relay or loss of functionality.
- Wire models with built-in operation indicators with the correct coil polarity (DC operating coil).

Test Button

- Turn OFF the power supply before operating the test button.

 Always return the test button to the original position after you use it.
- Do not use the test button as a switch.
- The durability of the test button is 100 operations minimum.

Operating Environment

Do not use the Relay in environments with combustible gas. Doing so may result in explosion due to arcing.

Storage

Models for DC Loads (i.e., models with "X" in the model number) are magnetized because they have a built-in magnet to deflect and extinguish the arc. Do not install the Relay near IC cards or other items that may be adversely affected by magnetism.

Usage

Use the Relay mounted in the P7M-06P or P7MF-06(-D) Socket.

Warranty and Application Considerations

Read and Understand this Catalog

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranty and Limitations of Liability

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Application Considerations

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Disclaimers

PERFORMANCE DATA

Performance data given in this catalog is provided as a guide for the user in determining suitability and does not constitute a warranty. It may represent the result of OMRON's test conditions, and the users must correlate it to actual application requirements. Actual performance is subject to the OMRON *Warranty and Limitations of Liability.*

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Product specifications and accessories may be changed at any time based on improvements and other reasons. Consult with your OMRON representative at any time to confirm actual specifications of purchased product.

DIMENSIONS AND WEIGHTS

Dimensions and weights are nominal and are not to be used for manufacturing purposes, even when tolerances are shown.

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