

c**91** us 🛕

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)
 (Application for the above standards has been made using the P7MF-06 and P7MF-06-D Sockets (sold separately).)



Ordering Information

General-purpose Relays Models for DC Loads

Contact form	SPST-NO		SPST-NO/SPST-NC	
Туре	Rated coil voltage (V)	Model	Rated coil voltage (V)	Model
Standard Models	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS1XT-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2XT-11
Standard Models	DC: 12, 24, 48, 110, 220	MK21X1-10	DC: 12, 24, 48, 110, 220	MIV95Y1-11
Models with Built-in	AC: 24, 100, 110, 120, 200, 220, 230, 240	MICHATINA	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2XTN-11
Operation Indicators	DC: 12, 24, 48, 110, 220	MKS1XTN-10	DC: 12, 24, 48, 110, 220	
Models with Test Button	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS1XTI-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2XTI-11
Models with Test Button	DC: 12, 24, 48, 110, 220	MKSIXII-IU	DC: 12, 24, 48, 110, 220	WIK52XTI-TT
Models with Test Button and Built-in Operation Indicators	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS1XTIN-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MECOVIN 11
	DC: 12, 24, 48, 110, 220	MIK21X1IN-10	DC: 12, 24, 48, 110, 220	MKS2XTIN-11

Models for AC Loads

Contact form	SPST-NO		SPST-NO/SPST-NC		
Туре	Rated coil voltage (V)	Model	Rated coil voltage (V)	Model	
Standard Madala	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS1T-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2T-11	
Standard Models	DC: 12, 24, 48, 110, 220	MIK211-10	DC: 12, 24, 48, 110, 220	IVIN 321-11	
Models with Built-in	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS1TN-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2TN-11	
Operation Indicators	DC: 12, 24, 48, 110, 220	WIKSTIN-10	DC: 12, 24, 48, 110, 220		
Models with Test Button	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS1TI-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS2TI-11	
Models with Test Button	DC: 12, 24, 48, 110, 220	WKSIII-IU	DC: 12, 24, 48, 110, 220	WIN3211-11	
Models with Test Button and	AC: 24, 100, 110, 120, 200, 220, 230, 240	MKS1TIN-10	AC: 24, 100, 110, 120, 200, 220, 230, 240	MICOTIN 11	
Built-in Operation Indicators	DC: 12, 24, 48, 110, 220	MIKSTIIN-10	DC: 12, 24, 48, 110, 220	MKS2TIN-11	

Accessory (Order Separately) Connecting Socket

Classit	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
	screws	Yes	P7MF-06-D

MK-S(X)

Specifications

Ratings

Operating Coil

	Item	Rated cui	rent (mA)	Coil resistance	Must operate voltage (V)	Must release voltage (V)	Maximum voltage allowable (V)	Power consumption (VA, W)				
Rated voltage (V) 50 Hz 60 Hz		(Ω) Percent		tage of rated voltage		(VA, W)						
	24	110	96.3	48.4								
	100	26.6	23.1	760	1							
	110	24.2	21.0	932		30% min. at 60 Hz		A 0.0.1/A				
AC	120	22.2	19.3	1,130			Approx. 2.3 VA at 60 Hz					
AC	200	13.3	11.6	3,160		25% min. at		Approx. 2.7 VA				
	220	12.1	10.5	3,550		% max. 110%	at 50 Hz					
	230	11.5	10.0	4,250	80% max.		% max.		ax.		110%	
	240	11.0	9.6	4,480								
	12	126	5	95								
	24	63	3.2	380								
DC	48	32	2.0	1,500		15% min.		Approx. 1.5 W				
	110	110 13.	3.6	8,060								
	220	(6.8	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	Danistics land	Inductive load		Desisting land	Inducti	Inductive load	
Item		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	
Hated Ioad	NC				2 A, 220 VDC	0.3 A, 220 VDC	0.1 A, 220 VDC	
Poted corry current	NO	10 A			5 A			
Rated carry current	NC				2 A			
May awitching valters	NO		220 VDC			000 V/DO		
Max. switching voltage	NC				220 VDC			
May awitching assurant	NO		10 A		5 A			
Max. switching current	NC				2 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

Contact 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
nateu ioau	NC		5 A, 250 VAC
Dated cover coverest	NO	15 A	15 A
Rated carry current	NC		5 A
May awitching valtage	NO	250 VAC	250 VAC
Max. 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

Contact resistar	nce *1	100 mΩ max.			
Operate time *2		AC: 20 ms max. DC: 30 ms max.			
Release time *2		20 ms max.			
Max. operating	Mechanical	18,000 operations/h			
frequency	Rated load	Models for DC loads: 1,800 times/hour Models for AC loads: 1,200 times/hour			
Insulation resist	tance *3	100 M Ω min.			
	Between coil and contacts	2,500 VAC 50/60 Hz for 1 min between			
Dielectric strength	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, 0.50-mm single amplitude (1.0-mm double amplitude)			
resistance	Malfunction	10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude)			
Shock resistance	Destruction	Back-connecting Socket (P7M-06P) mounting: 1,000 m/s ² Front-connecting Socket (P7MF-06(-D)) mounting:500m/s ²			
resistance	Malfunction	100 m/s ²			
Endurance	Mechanical	1,000,000 operations min. (at 18,000 operations/hr)			
Endurance	Electrical *4	100,000 operations min. (at rated load and maximum switching frequency)			
Failure rate P le	vel (reference value)	10 mA at 24 VDC			
Ambient operati	ing 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 operati	ing humidity	5% to 85%			
Weight		SPST-NO: Approx. 73 g, SPST-NO/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) c **%** us

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	
MIKS2XILI-LI		NC contacts	2 A, 220 VDC (Resistive) 0.3 A, 220 VDC L/R (T0.632) = 7 ms 0.1 A, 220 VDC L/R (T0.95) = 300 ms	6,000
MKS1T□-□		NO contacts	15 A, 250 VAC (Resistive)	
MKS2T□-□		NO contacts	15 A, 250 VAC (Resistive)	
WING21		NC contacts	5 A, 250 VAC (Resistive)	

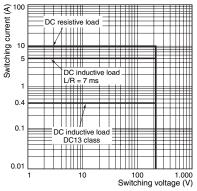
CSA Standard: CSA Certification by CSA C22.2 No.14

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

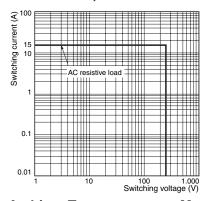
Model	Coil ratings		Contact ratings	Operations
MKS1XT		NO contacts	DC-1: 10 A, 220 VDC 5 A, 220 VDC L/R (T _{0.632}) = 7 ms DC-13: 0.4 A, 220 VDC	
MKS2XT□-□ 220 24, 200	12, 24, 48, 110, 220 VDC	NO contacts	DC-1: 5 A, 220 VDC 3 A, 220 VDC L/R (T _{0.632}) = 7 ms DC-13: 0.2 A, 220 VDC	100,000
	24, 100,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

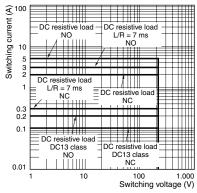
Maximum Switching Power MKS1XT-10, MKS1XTN-10 MKS1XTI-10, MKS1XTIN-10



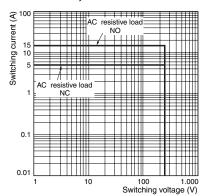
MKS1T-10, MKS1TN-10 MKS1TI-10, MKS1TIN-10



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



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



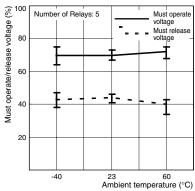
Ambient Temperature vs. Must Operate Voltage and Must Release Voltage

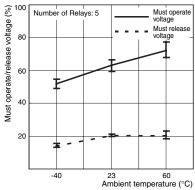
MKS2XT-11

AC Specification (60 Hz)

MKS2XT-11

DC Specification





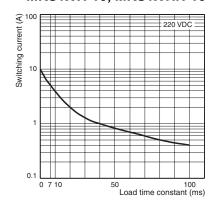
Inductive Load Switching Power (Models for DC Loads)

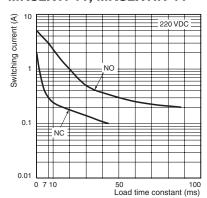
MKS1XT-10, MKS1XTN-10

MKS2XT-11, MKS2XTN-11

MKS1XTI-10, MKS1XTIN-10

MKS2XTI-11, MKS2XTIN-11



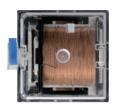


Test Button

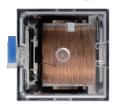
The circuit can be checked using either of two modes.

Test Button
DC specification: Blue
AC specification: Red

Normal

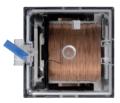


Mode 1 (momentary)



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

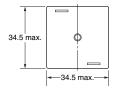
Standard Models

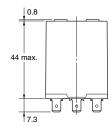
MKS1T-10 MKS2T-11

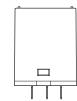
Models with Built-in Operation Indicators

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

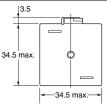
Models with Test Button

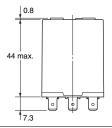
MKS1TI-10 MKS2TI-11 Models with Test Button and Built-in

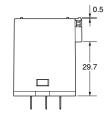
Operation Indicators

MKS1TIN-10 MKS2TIN-11









Terminal Arrangement/Internal Connection (Bottom View)

MKS1XT-10 MKS1XTI-10	MKS1X MKS1X		MKS2XT-11 MKS2XTI-11	MKS2X MKS2X	
	DC specification	AC specification		DC specification	AC specification
4 6 (+)	4 6 (+)	4 6 (+)	4 6 (+)	4 6 (+) 8 (+)	4 6 (+)
АВ	A (+) B (-)	АВ	АВ	A (+) B (-)	A B
	MKS1TN-10 MKS1TIN-10				
MKS1T-10 MKS1TI-10			MKS2T-11 MKS2TI-11	MKS2T MKS2T	
	MKS1T	IN-10		MKS2T	TIN-11

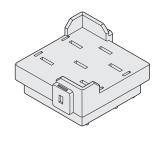
Note: 1. Wire properly using the correct coil polarity.

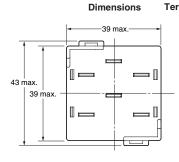
2. The contact terminals on Models for DC Loads have polarity. Wire properly using the correct polarity.

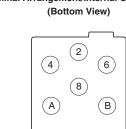
Connecting Socket

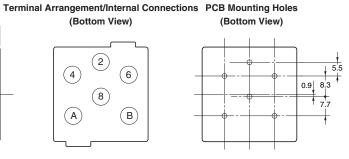
Back-connecting Socket

P7M-06P



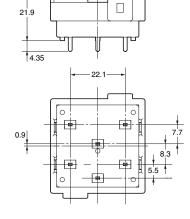






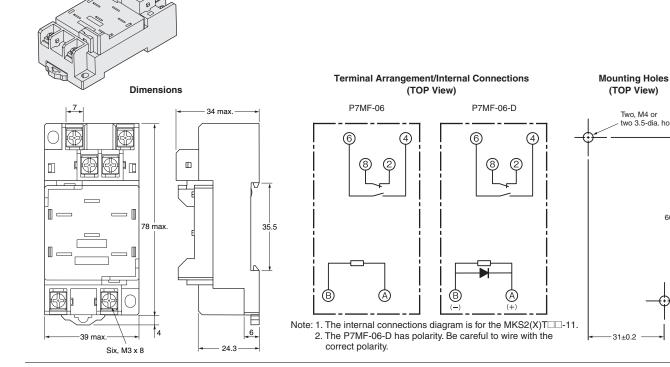
Two, M4 or two 3.5-dia. hole

66±0.3



Front-connecting Socket

P7MF-06 P7MF-06-D



Accessory (Order Separately)

Connecting Socket

Socke	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			

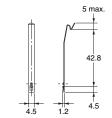
- Note: 1. The P7M-06P, P7MF-06, and P7MF-06-D can be used with models for DC loads with an SPST-NO or SPST-NO/SPST-NC contact form or with models for AC loads with an SPST-NO or SPST-NO/SPST-NC contact form.
 - 2. The P7MF-06-D has a built-in diode and can thus be used only with Relays with DC operating 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 MKS1T-10 MKS1TI-10 MKS1TIN-10	MKS2XT-11 MKS2XTI-11 MKS2XTIN-11 MKS2T-11 MKS2TI-11 MKS2TIN-11		
Back-connecting Socket	PCB terminals	P7M-06P		
Front connecting Cooket	Mounts to DIN Track or via	P7MF-06	PYC-A2	
Front-connecting Socket	screws	P7MF-06-D		

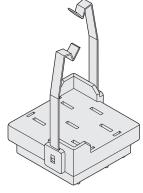
PYC-A2 One Set (Two Clips)

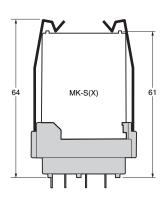


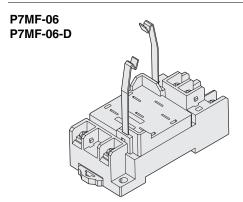
Note: The minimum order for the PYC-A2 is ten clips.

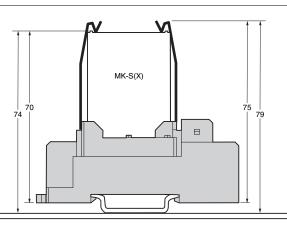
Socket Mounting Height











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.

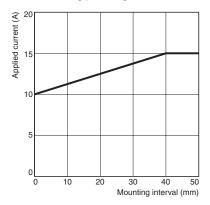
Gang Mounting

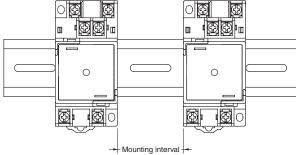
Conditions for Gang Mounting Relays

		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

WARRANTY

OMRON's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by OMRON.

OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. OMRON DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

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Application Considerations

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