

## New Super MK Relays. Models with Latching Lever Added to the Series.

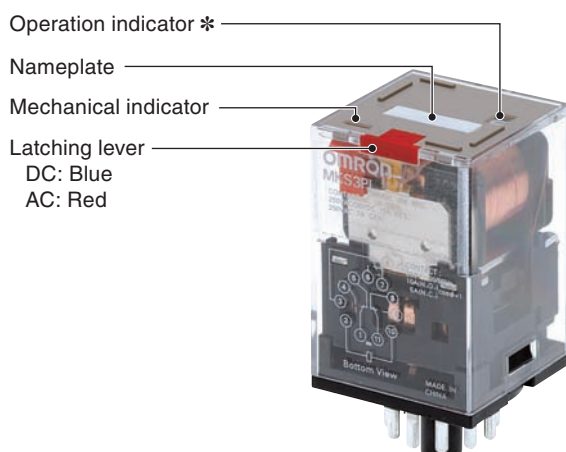
- Same mounting and internal wiring as the previous Super MK Relays
- Built-in mechanical indicator enables checking contact operation.
- Two modes can be used to check circuits for models with latching lever.
- Nameplate provided on models with latching lever.
- All materials are RoHS compliant.
- UL and IEC (TÜV) certification.



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

## Features

### Models with Latching Lever

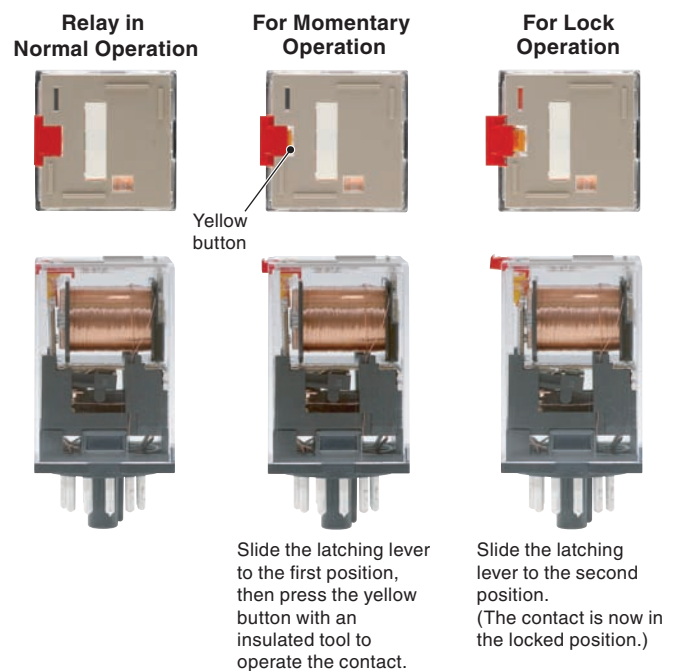


\* The operation indicator is built in only on specified models.

### Example of Applications of Models with Latching Levers

Operation checks in relay sequence circuits

### Operating Method for Latching Lever



## Model Number Structure

### Model Number Legend

MKS□□□□□-□-□  
1 2 3 4 5 6 7

#### 1. Contact Form

- 2: DPDT
- 3: 3PDT

#### 2. Terminals

- P: Plug-in

#### 3. Mechanical Indicator/Test Button

- Blank: Mechanical indicator
- I: Mechanical indicator and lockable test button

#### 4. LED Indicator

- Blank: Standard
- N: LED indicator

#### 5. Coil Polarity

- Blank: Standard
- 1: Reverse polarity (DC coil only)

#### 6. Surge Absorption

- Blank: Standard
- D: Surge absorber diode (DC coil only)
- V: Surge absorber varistor (AC coil only)

#### 7. Internal Connections

- Blank: Standard
- 2 or 5: Non-standard connections (Refer to "Terminal Arrangement and Internal Connection (Bottom View)".)

#### 8. Rated Voltage

- (Refer to "Coil Ratings".)

## Ordering Information

When your order, specify the rated voltage.

### List of Models

Type	Terminals	Contact form	Internal connections (See note 3.)	With mechanical indicator	With mechanical indicator and lockable test button	Coil ratings	
Standard Models	Plug-in	DPDT	Standard	MKS2P	MKS2PI	AC/DC	
			Non-standard	MKS2P-2	MKS2PI-2		
		3PDT	Standard	MKS3P	MKS3PI		
			Non-Standard	MKS3P-2	MKS3PI-2		
				MKS3P-5	MKS3PI-5		
Models with LED Indicator (See note 2.)		DPDT	Standard	MKS2PN(1)	MKS2PIN(1)	AC/DC	
			Non-standard	MKS2PN(1)-2	MKS2PIN(1)-2		
		3PDT	Standard	MKS3PN(1)	MKS3PIN(1)		
			Non-Standard	MKS3PN(1)-2	MKS3PIN(1)-2		
				MKS3PN(1)-5	MKS3PIN(1)-5		
Models with Diode (See note 2.)		DPDT	Standard	MKS2P(1)-D	MKS2PI(1)-D	DC	
			Non-standard	MKS2P(1)-D-2	MKS2PI(1)-D-2		
		3PDT	Standard	MKS3P(1)-D	MKS3PI(1)-D		
			Non-Standard	MKS3P(1)-D-2	MKS3PI(1)-D-2		
				MKS3P(1)-D-5	MKS3PI(1)-D-5		
Models with LED Indicator and Diode		DPDT	Standard	MKS2PN-D	MKS2PIN-D	DC	
			Non-standard	MKS2PN-D-2	MKS2PIN-D-2		
		3PDT	Standard	MKS3PN-D	MKS3PIN-D		
			Non-Standard	MKS3PN-D-2	MKS3PIN-D-2		
				MKS3PN-D-5	MKS3PIN-D-5		
Models with Varistor		DPDT	Standard	MKS2P-V	MKS2PI-V	AC	
			Non-standard	MKS2P-V-2	MKS2PI-V-2		
		3PDT	Standard	MKS3P-V	MKS3PI-V		
			Non-Standard	MKS3P-V-2	MKS3PI-V-2		
				MKS3P-V-5	MKS3PI-V-5		
Models with LED Indicator and Varistor		DPDT	Standard	MKS2PN-V	MKS2PIN-V	AC	
			Non-standard	MKS2PN-V-2	MKS2PIN-V-2		
		3PDT	Standard	MKS3PN-V	MKS3PIN-V		
			Non-Standard	MKS3PN-V-2	MKS3PIN-V-2		
				MKS3PN-V-5	MKS3PIN-V-5		

**Note:** 1. When ordering, add the rated voltage to the model number. Rated voltages are given in the coil ratings table in the specifications.

Example: MKS3P 24 VDC

Rated voltage

2. The DC coil comes in two types: standard coil polarity and reverse coil polarity.

Refer to *Terminal Arrangement and Internal Connections (Bottom View)*.

Example: MKS2PIN1-2 24 VDC

Reverse coil polarity

3. Refer to *Terminal Arrangement and Internal Connections (Bottom View)* for non-standard internal connections.

### List of Models (Order Separately)

Item	Type	Model
Track-mounted Socket	8-pin	PF083A-E
	11-pin	PF113A-E
	8-pin	PF083A-D
	11-pin	PF113A-D
Hold-down Clip (For PF083A-E and PF113A-E)		PFC-A1

## Specifications

### Ratings

#### Coil Ratings

Rated voltage		Rated current		Coil resistance	Must operate voltage	Must release voltage	Max. voltage	Power consumption
		50 Hz	60 Hz					
AC	6 V	443 mA	385 mA	3.1 Ω	80% max. of rated voltage	30% min. of rated voltage at 60 Hz 25% min. of rated voltage at 50 Hz	110% of rated voltage	Approx. 2.3 VA at 60 Hz Approx. 2.7 VA at 50 Hz
	12 V	221 mA	193 mA	13.7 Ω				
	24 V	110 mA	96.3 mA	48.4 Ω				
	100 V	26.6 mA	23.1 mA	760 Ω				
	110 V	24.2 mA	21.0 mA	932 Ω				
	200 V	13.3 mA	11.6 mA	3,160 Ω				
	220 V	12.1 mA	10.5 mA	3,550 Ω				
	230 V	10.0 mA	11.5 mA	4,250 Ω				
	240 V	11.0 mA	9.6 mA	4,480 Ω				
DC	6 V	224 mA		26.7 Ω	15% min. of rated voltage			Approx. 1.4 W
	12 V	112 mA		107 Ω				
	24 V	55.8 mA		430 Ω				
	48 V	28.1 mA		1,710 Ω				
	100 V	13.5 mA		7,390 Ω				
	110 V	12.3 mA		8,960 Ω				
	125 V	10.8 mA		11,576 Ω				

- 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 voltage is one that is applicable instantaneously to the Relay coil at 23°C and not continuously.
  4. For DC-operated Relays with the LED indicator built-in, add an LED current of approx. 5 mA to the rated current.

#### Contact Ratings

Load		Resistive load (cosφ = 1)	Inductive load (cosφ = 0.4)
Contact mechanism		Single	
Contact material		AgSnIn	
Rated load	NO	10 A, 250 VAC 10A, 30 VDC	7 A, 250 VAC
	NC	5 A, 250 VAC 5 A, 30 VDC	
Rated carry current		10 A	
Max. switching voltage		250 VAC, 250 VDC	
Max. switching current		10 A	
Max. switching power	NO	2,500 VAC 300 WDC	1,750 VAC
	NC	1,250 VAC 150 WDC	