General-purpose Relays MK-S

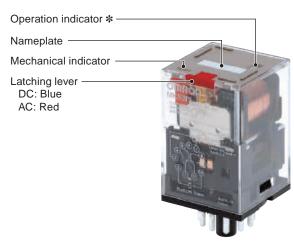
Super MK Relays.

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.

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





Operation Yellow

For Momentary

Operation

For Lock

c Rus











Slide the latching lever to the first position, then press the yellow button with an insulated tool to operate the contact.

Slide the latching lever to the second position. The contact is now in the locked position.)

Model Number Structure

Model Number Legend



1. Contact Form

2: DPDT 3: 3PDT

2. Terminals

P: Plug-in

3. Mechanical Indicator/Test Button

Blank: Mechanical indicator

Mechanical indicator and lockable test button

4. LED Indicator

Blank: Standard LED indicator 5. Coil Polarity

Blank: Standard

Reverse polarity (DC coil only)

6. Surge Absorption

Blank: Standard

Surge absorber diode (DC coil only) 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".)

MK-S

Ordering Information

List of Models

Туре	Terminals	Contact form	Internal connections (See note 3.)	With mechanical indicator	With mechanical indicator and lockable test button	Coil ratings	
		DPDT	Standard	MKS2P	MKS2PI		
		DPDT	Non-standard	MKS2P-2	MKS2PI-2		
Standard Models			Standard	MKS3P	MKS3PI	AC/DC	
Models		3PDT	Non-Standard	MKS3P-2	MKS3PI-2	1	
			Non-Standard	MKS3P-5	MKS3PI-5		
		DPDT	Standard	MKS2PN(1)	MKS2PIN(1)		
Models with		DPD1	Non-standard	MKS2PN(1)-2	MKS2PIN(1)-2		
LED Indicator			Standard	MKS3PN(1)	MKS3PIN(1)	AC/DC	
(See note 2.)		3PDT	Non-Standard	MKS3PN(1)-2	MKS3PIN(1)-2		
			Non-Standard	MKS3PN(1)-5	MKS3PIN(1)-5		
		DPDT	Standard	MKS2P(1)-D	MKS2PI(1)-D		
Models with		DFDT	Non-standard	MKS2P(1)-D-2	MKS2PI(1)-D-2	1	
Diode	Plug-in		Standard	MKS3P(1)-D	MKS3PI(1)-D	DC	
(See note 2.)		3PDT DPDT	Non-Standard	MKS3P(1)-D-2	MKS3PI(1)-D-2		
			Non-Standard	MKS3P(1)-D-5	MKS3PI(1)-D-5		
			Standard	MKS2PN-D	MKS2PIN-D		
Models with			Non-standard	MKS2PN-D-2	MKS2PIN-D-2		
LED Indicator		3PDT	Standard	MKS3PN-D	MKS3PIN-D	DC	
and Diode			3PDT	3PDT	Non-Standard	MKS3PN-D-2	MKS3PIN-D-2
			Non-Standard	MKS3PN-D-5	MKS3PIN-D-5	1	
		DPDT	Standard	MKS2P-V	MKS2PI-V		
Madala with		В В	Non-standard	MKS2P-V-2	MKS2PI-V-2		
Models with Varistor			Standard	MKS3P-V	MKS3PI-V	AC	
		3PDT	Non-Standard	MKS3P-V-2	MKS3PI-V-2		
			Non-Standard	MKS3P-V-5	MKS3PI-V-5		
		DPDT	Standard	MKS2PN-V	MKS2PIN-V		
Models with		וטאטו	Non-standard	MKS2PN-V-2	MKS2PIN-V-2		
LED Indicator			Standard	MKS3PN-V	MKS3PIN-V	AC	
and Varistor		3PDT	Non-Standard	MKS3PN-V-2	MKS3PIN-V-2		
			Non-Standard	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
	ixaleu vollage

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

Specifications

Ratings Coil Ratings

Rated voltage		Rated current 50 Hz 60 Hz		Coil resistance	Must operate voltage	Must release voltage	Max. voltage	Power consumption
					Perce		entage of rated voltage	
	6 V	443 mA	385 mA	3.1 Ω				
	12 V	221 mA	193 mA	13.7 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	
	24 V	110 mA	96.3 mA	48.4 Ω				Approx. 2.3 VA at 60 Hz Approx. 2.7 VA at 50 Hz
	100 V	26.6 mA	23.1 mA	760 Ω				
AC	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	$3,550~\Omega$				
	230 V	10.0 mA	11.5 mA	4,250 Ω				
	240 V	11.0 mA	9.6 mA	4,480 Ω				
	6 V	224 mA		26.7 Ω				
	12 V	112 mA		107 Ω		15% min. of rated voltage		
DC	24 V	55.8 mA		430 Ω				Approx 4 4 M
-	48 V	28.1 mA		1,710 Ω				Approx. 1.4 W
	100 V	13.5 mA		7,390 Ω				
	110 V	12.3 mA		8,960 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 $\pm 15\%$ for DC coil resistance.

- Performance characteristic data are measured at a coil temperature of 23°C.
 The maximum voltage is one that is applicable instantaneously to the Relay coil at 23°C and not continuously.
 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 (cos ϕ = 1)	Inductive load (cos ϕ = 0.4)	
Contact mechanism		Single		
Contact material		AgSnIn		
Rated load	NO	10 A, 250 VAC 10A, 30 VDC	7.4.050.740	
Rated load	NC	5 A, 250 VAC 5 A, 30 VDC	7 A, 250 VAC	
Rated carry current	·	10 A		
Max. switching voltage		250 VAC, 250 VDC		
Max. switching current		10 A		
May switching newer	NO	2,500 VA/300 W		
Max. switching power	NC	1,250 VA/150 W		

Characteristics

Contact resistance	100 m Ω max.				
Operate time	AC: 20 ms max. DC: 30 ms max.				
Release time	20 ms max. (40 ms max. for built-in Diode Relays)				
Max. operating frequency	Mechanical: 18,000 operations/h Electrical: 1,800 operations/h (under rated load)				
Insulation resistance	100 MΩ min. (at 500 VDC)				
Dielectric strength	2,500 VAC 50/60 Hz for 1 min between coil and contacts 1,000 VAC 50/60 Hz for 1 min between contacts of same polarity and terminals of the same polarity 2,500 VAC 50/60 Hz for 1 min between current-carrying parts, non-current-carrying parts, and opposite polarity				
Insulation method	Basic insulation				
Impulse withstand voltage	4.5 kV between coil and contacts (with 1.2 \times 50 μ s impulse wave) 3.0 kV between contacts of different polarity (with 1.2 \times 50 μ s impulse wave)				
Pollution degree	3				
Rated insulation voltage	250 V				
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 0.75-mm single amplitude (1.5-mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 0.5-mm single amplitude (1.0-mm double amplitude)				
Shock resistance	Destruction: 1,000 m/s² (approx. 100 G) Malfunction: 100 m/s² (approx. 10 G)				
Endurance	Mechanical: 5,000,000 operations min. (at 18,000 operations/h under rated load) Electrical: 100,000 operations h. (at 1,800 operations/h under rated load)				
Failure rate P level (reference value)	10 mA at 1 VDC				
Ambient temperature	Operating: -40 to 60°C (with no icing or condensation)				
Ambient humidity	Operating: 5% to 85%				
Weight	Approx. 90 g				

Note: 1. The values given above are initial values.

- **2.** P level: $\lambda_{60} = 0.1 \times 10^{-6}$ /operation
- 3. Ambient temperature of models with LED indicator is -25 to 60°C.

Approved Standards UL508 (File No. E41515)

Coil ratings		Contact ratings	Operations
6 to 110 VDC	N.O. contact	10 A, 250 V AC 50/60 Hz (Resistive) 10 A, 30 V DC (Resistive) 7 A, 250 V AC 50/60 Hz (General Use)	100,000
6 to 240 VAC	N.C. contact	10 A, 250 V AC 50/60 Hz (Resistive) 10 A, 30 V DC (Resistive) 7 A, 250 V AC 50/60 Hz (General Use)	100,000

CSA Standard: CSA Certification by

c **%** us: CSA C22.2 No. 14

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

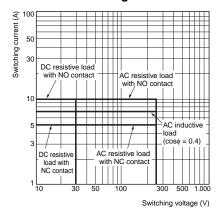
Coil ratings	tings Contact ratings		Operations
6, 12, 24, 48, 100, 110 VDC	N.O. contact	10 A, 250 V AC 50/60 Hz (Resistive) 10 A, 30 V DC (Resistive) 7 A, 250 V AC 50/60 Hz (General Use)	100,000
6, 12, 24, 100, 110, 200, 220, 240 VAC	N.C. contact	5 A, 250 V AC 50/60 Hz (Resistive) 5 A, 30 V DC (Resistive) 7 A, 250 V AC 50/60 Hz (General Use)	100,000

Note: When Relays are mounted on the PF083A-E or PF113A-E, the maximum carrying current is 9 A.

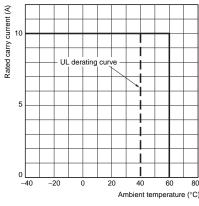
Engineering Data

Reference Data

Maximum Switching Power



Rated Carry Current vs. Ambient Rated Temperature



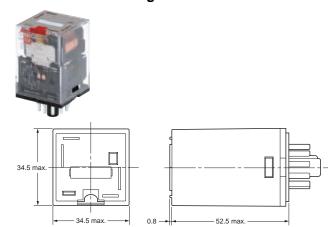
Note: The lower limit of the ambient operating temperature for models with built-in operation indicators is -25° C.

Dimensions (Unit: mm)

Models without Latching Lever

34.5 max. 0.8 52.5 max.

Models with Latching Lever



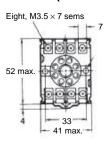
Sockets

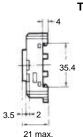
See below for Socket dimensions.

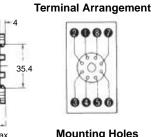
Socket	Surface-mounting Socket (for track or screw mounting)				
Socket	Finger-prote				
Maximum carry current	10 A	5 A			
	PF083A-E	PF083A-D	PF083A		
2 poles		ILLE OF			
	PF113A-E	PF113A-D	PF113A		
3 poles		IIII V			

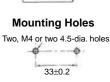
Note: Use the Surface-mounting Sockets (i.e., finger-protection models) with "-E" at the end of the model number. When using the PF083A and PF113A, be sure not to exceed the Socket's maximum carry current of 5 A. Using at a current exceeding 5 A may lead to burning. Round terminals cannot be used for finger-protection models. Use Y-shaped terminals.

PF083A-E (Conforming to EN 50022)

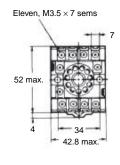


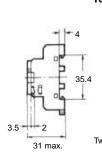






PF113A-E (Conforming to EN 50022)

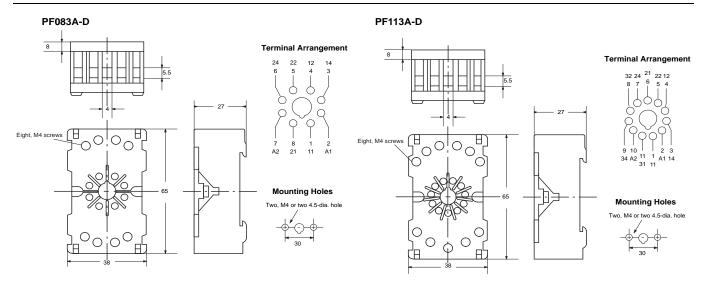




Terminal Arrangement

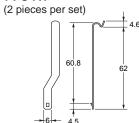
9999

Mounting Holes
Two, M4 or two 4.5-dia. holes
33±0.2



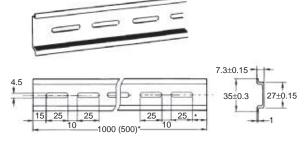
Hold-down Clips

PFC-A1



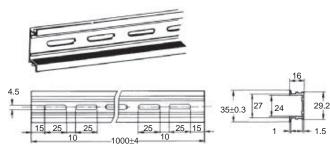
Mounting Tracks

PFP-100N, PFP-50N (Conforming to EN 50022)



 $\ensuremath{\bigstar}$ This dimension applies to the PFP-50N Mounting Track.

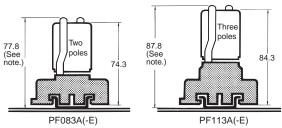
PFP-100N2 (Conforming to EN 50022)



A total of twelve 25 x 4.5 elliptic holes is provided with six holes cut from each track end at a pitch of 10 mm.

Mounting Height with Sockets

Surface-mounting Sockets



Note: PF083A(-E) and PF113A(-E) allow either track or screw mounting.

Terminal Arrangement and Internal Connection (Bottom View)

Standard Models	MKS2P(I)	MKS2P(I)-2	MKS3P(I)	MKS3P(I)-2	MKS3P(I)-5
(AC/DC Coil)			WIN53P(I)	WK53F(I)-2	MK53P(I)-5
,	3 (S)	(4) (5) (3) (-6)	567	\$ 6 7	5 6 7
	2 1 7 7	2-11-7	(4) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	3 9	3-7-9
	(1) (8)	1 8	2 0	2 0	
Models with	MKS2P(I)N	MKS2P(I)N-2	MKS3P(I)N	MKS3P(I)N-2	MKS3P(I)N-5
LED Indicator (AC Coil)	4] (5	475	567		567
,	3 / 4 6	3 6	(a) (b) (7) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4	(5) (6) (7) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	(4) (8) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9
	2 7 1 8	②- \- \- \- \- \- \- \- \- \- \- \- \- \-	2 0		2 1 10
			0_0	0 0	① _ ①
Models with Diode (DC Coil:	MKS2P(I)N	MKS2P(I)N-2	MKS3P(I)N	MKS3P(I)N-2	MKS3P(I)N-5
Standard Polarity)	4] (5	4][5]	(5) (6) (7)	(s) (6) (7)	567
	3 6 2 7	3 6	(4) (8) (1) (4) (9) (1) (4) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1	4 8 3 9	(4) (8) (3) (4) (4) (4) (4) (4) (4) (4) (4) (4) (4
		1 8	2 1 10	2 4 6	2 10
	(+) (-)	(+) _[(-)	—	1 0	— ———————————————————————————————————
			(+) (-)	(+) [(-)	(+) [-)
Models with LED Indicator and Diode	MKS2P(I)N1	MKS2P(I)N1-2	MKS3P(I)N1	MKS3P(I)N1-2	MKS3P(I)N1-5
(DC Coil:	(4) (5) (6)	4] (5 3—] (-6	567	(5) (6) (7)	5 6 7
Reverse Polarity)	2 7 7	2-11-7	(4) (9)	(4) (8) (9)	(4)——(8) (3)———(9)
	1 1 8	1 8		2 1 0	2 1 10
	(-) (+)	(<u>-</u>) _ (+)	*	N	(-) (+)
			(-) (+)	(-) (+)	
Standard Models (DC Coil:	MKS2P(I)-D	MKS2P(I)-D-2	MKS3P(I)-D	MKS3P(I)-D-2	MKS3P(I)-D-5
Standard Polarity)	3 6	(4) (5) (3) (-6)	(5) (6) (7)	\$ 6 7	567
	2 7 7	②- \ \ \ \ \ \ \ \ \ \ \ \ \	(4) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	(4) (8) (9)	3-7-9
	1 1 8	1 8	2 10	0 0	2 10
	(+) (-)	(+) (-)	—	├	(+) (-)
			(+) (-)	(+) (-)	Ц
Models with Diode (DC Coil:	MKS2P(I)1-D	MKS2P(I)1-D-2	MKS3P(I)1-D	MKS3P(I)1-D-2	MKS3P(I)1-D-5
Reverse Polarity)	3 6	(3) (5) (6)	5 6 7	(5) (6) (7)	5 6 7
	2 7 7	②- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(4) (8) (9)	3-7-9
	1 1 8	1 8	2 10	2 1 10	
	(-) (+)	(-) (+)	→	├	(-) (+)
			(-) (+)	(-) (+)	П
Models with LED indicator	MKS2P(I)N-D	MKS2P(I)N-D-2	MKS3P(I)N-D	MKS3P(I)N-D-2	MKS3P(I)N-D-5
(DC Coil)	3 6	(4) (5) (3) (-6)	\$ 67	(5) 6 (7)	5 6 7
	2 7 7	②- \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		(4) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	3-7-9
	1 1 8	1 8	2 1 10		2 1 10
	*	(+) (-)			
	(+) □ (−)				

Models with Varistor (AC Coil)

MKS2P(I)-V	MKS2P(I)-V-2	MKS3P(I)-V	MKS3P(I)-V-2	MKS3P(I)-V-5
4 5 6 7 7 1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$ 6 7 8 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		\$ 6 7 8 3 - 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
MKS2P(I)N-V	MKS2P(I)N-V-2	MKS3P(I)N-V	MKS3P(I)N-V-2	MKS3P(I)N-V-5
4 5 3 6 2 7 7	(4) (5) (8) (9) (9) (9) (9) (9) (9) (9) (9) (9) (9	\$ 6 7 4 8 3 9 2 0 0	\$ 6 7 4 9 3 1 9 2 0	\$ 6 7 4 8 3 - 7 9 2 0 0

Models with LED indicator and Varistor (AC Coil)

Safety Precautions

Safety Precautions for Correct Use

Installation

Mount the MK-S with the marking at the bottom.

Handling

Check the coil polarity of models with built-in diodes and wire them correctly

(DC operation coil).

Test Button

Do not use the test button for any purpose other than testing. Be sure not to touch the test button accidentally as this will turn the contacts ON. Before using the test button, confirm that circuits, the load, and any other connected item will operate safely.

Check that the test button is released before turning ON relay circuits. If the test button is pulled out too forcefully, it may bypass the momentary testing position and go straight into the locked position. Use an insulated tool when you operate the test button.

Models with test buttons or LED indicators fulfill the requirements for reinforced insulation between live parts and the front of cover only when the Relay is in a complete condition, i.e. with the nameplate, nameplate frame, test button, and slider in place. If any of these parts are removed, only the requirements for basic insulation are fulfilled.

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- Systems, machines, and equipment that could present a risk to life or property.

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NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE OMRON PRODUCT IS PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

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It is our practice to change model numbers when published ratings or features are changed, or when significant construction changes are made. However, some specifications of the product may be changed without any notice. When in doubt, special model numbers may be assigned to fix or establish key specifications for your application on your request. Please consult with your OMRON representative at any time to confirm actual specifications of purchased products.

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