

General Purpose Relay MK

- Exceptionally reliable general purpose relay.
- Long life (minimum 100,000 electrical operations) assured by silver contacts.
- Built-in operation indicator (mechanical, LED), diode surge suppression, Varistor surge suppression.
- The contact operation can be easily checked by mechanical indicator and/or push-to-test button options.
- Conforms to CENELEC standards.
- VDE approved versions available.



Ordering Information

To Order: Select the part number and add the desired coil voltage rating (e.g., MK3P5-S-AC120).

Type	Terminal	Coil	Contact form	Model	
				Mechanical indicator	Mechanical indicator & push-to-test button
Standard	Plug-in	AC/DC	DPDT	MK2P-I	MK2P-S
			3PDT	MK3P-5-I	MK3P-5-S
LED indicator			DPDT	MK2PN-I	MK2PN-S
			3PDT	MK3PN-5-I	MK3PN-5-S
LED indicator and diode		DC	DPDT	MK2PND-I	MK2PND-S
			3PDT	MK3PND-5-I	MK3PND-5-S
LED indicator and varistor		AC	DPDT	MK2PNV-I	MK2PNV-S
			3PDT	MK3PNV-5-I	MK3PNV-5-S
Diode		DC	DPDT	MK2PD-I	MK2PD-S
			3PDT	MK3PD-5-I	MK3PD-5-S
Varistor		AC	DPDT	MK2PV-I	MK2PV-S
			3PDT	MK3PV-5-I	MK3PV-5-S

- Note:** 1. Reverse polarity versions available on DC coil types. Consult your OMRON representative for further information.
 2. VDE approved versions are available. Consult your OMRON representative for further information.

■ Accessories (Order separately)

To Order: Select the appropriate part numbers for sockets, clips, and mounting tracks (if required) from the available types chart.

Track Mounted Sockets

Relay type	Model		
	Socket	Relay hold-down clip	Mounting track/end plate
SPDT DPDT	PF083A-E	PFC-A1	PFP-100N or PFP-50N and PFP-M (end plate)
3PDT	PF113A-E	PFC-A1	PFP-100N or PFP-50N and PFP-M (end plate)

■ Accessories (continued)

Back Connecting Sockets

Relay type	Model	
	Socket	Relay hold-down clip
SPDT	PL08	PLC-E
DPDT	PLE08-0	PLC-10
	PL08-Q	PLC-E
3PDT	PL11	PLC-E
	PLE11-0	PLC-10
	PL11-Q	PLC-E

Specifications

■ Contact Data

Load	Resistive load (p.f. = 1)		Inductive load (p.f. = 0.4)
	2 Pole	3 Pole	
Rated load	10 A at 250 VAC 10 A at 28 VDC	10 A at 120 VAC 10 A at 28 VDC 10 A at 250 VAC	7 A at 250 VAC
Contact material	Ag		
Carry current	10 A		
Max. operating voltage	250 VAC, 250 VDC		
Max. operating current	10 A		
Max. switching capacity	2,500 VA 280 W	2,500 VA/1,250 VA (NO/NC contacts) 280 W	1,750 VA
Min. permissible load	10 mA at 1 VDC		

■ Coil Data

AC

Rated voltage (VAC)	Rated current (mA) (at 60 Hz)	Coil resistance (Ω)	Coil inductance (Ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (mW)
			Armature OFF	Armature ON				
6	360	3.9	0.0423	0.0201	80% max. Approx. 2.7 VA	30% min. (at 60 Hz) 25% min. (at 50 Hz)	110% max.	Approx. 2.3 VA (at 60 Hz) Approx. 2.7 VA (at 50 Hz)
12	180	16.3	0.3270	0.1666				
24	88.0	68.0	0.6940	0.3760				
50	39.0	338	3.195	1.530				
110	21.0	1240	13.45	7.32				
120	18.0	1578	15.04	7.19				
220	11.0	5090	49.73	27.02				
240	9.2	6737	58.62	32.07				

DC

Rated voltage (VDC)	Rated current (mA) (at 60 Hz)	Coil resistance (Ω)	Coil inductance (Ref. value) (H)		Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (mW)
			Armature OFF	Armature ON				
6	255	23.5	0.206	0.106	80% max. Approx. 2.7 VA	15% min.	110% max.	Approx. 1.5 W
12	126	95	0.963	0.449				
24	56	430	4.915	2.478				
48	29.5	1630	16.685	10.487				
110	15.1	7300	80.2	42.6				

Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C (73°F) with a tolerance of ±15% for DC rated current and +15%, -20% for AC rated current.

2. The rated current is reference value.

3. Performance characteristic data are measured at a coil temperature of 23°C (73°F).

4. For models with the LED indicator built-in, add an LED current of approximately 0 thru 5 mA to the rated current.