

General Purpose Relay

MJN

Relay with Plug-in Termination, available in SPDT, DPDT or 3PDT models

- Rugged power driver offers superior 3/16" through-air and 3/8 over-surface spacing
- Interlocked frame and contact block prevent contact misalignment during plug-in
- Available with dust covers, indicator lamps and push-to-operate buttons
- UL and CSA recognition as motor controllers up to 600 VAC
- Recognized for 1/2 hp motor control applications at 240/480/600 VAC (1/3 hp at 120 VAC)



Ordering Information

To Order: Select part number and add the desired coil voltage rating (e.g. MJN1C-AC24).

Item			Model			
Type	Terminal	Contact form	10A Version, flange mounting	20 A Version, flange mounting	30A Version, flange mounting	10 A Relay only
Standard	Plug-in	SPDT	MJN1CF	---	MJN1Z-E-RP	MJN1C
		DPDT	MJN2CF	MJN2CE	---	MJN2C
		3PDT	MJN3CF	---	---	MJN3C
LED indicator	Plug-in	SPDT	MJN1CF-N*	---	---	MJN1C-N
		DPDT	MJN2CF-N*	---	---	MJN2C-N
		3PDT	MJN3CF-N*	---	---	MJN3C-N
Push-to-operate button	Plug-in	SPDT	MJN1CF-I*	---	---	MJN1C-I
		DPDT	MJN2CF-I*	---	---	MJN2C-I
		3PDT	MJN3CF-I*	---	---	MJN3C-I
Push-to-operate button & LED indicator	Plug-in	SPDT	MJN1CF-IN*	---	---	MJN1C-IN
		DPDT	MJN2CF-IN*	---	---	MJN2C-IN
		3PDT	MJN3CF-IN*	---	---	MJN3C-IN
Latching	Plug-in	DPDT	---	---	---	MJN2CK

Note: All part numbers marked with an "*" are non-standard parts. Contact an Omron representative for additional information.

Specifications

■ Contact Data

Configuration		SPDT, DPDT, 3PDT
Initial contact resistance		50 mΩ max.
Materials		3/16" diameter Ag-Alloy
Contact UL ratings	10 A	10 amp @ 28 VDC and 120/240 VAC at 80% pf, 1/3 hp @ 120 VAC, 1/2 hp @ 277/240/480/600 VAC 8.5 FLA - 36 LRA at 18 VDC, 3 amp @ 480/600 VAC at 80% pf, 10 amp @ 277 VAC resistive
	20 A	20 amp @ 28 VDC and 120/240/277 VAC, 10 amp @ 480/600 VAC, 3.4 hp @ 120 VAC, 1-1/2 hp @ 240 VAC, 17 FLA - 65 LRA at 300VAC
	30 A	30 amp @ 28 VDC, 15 amp @ 480 / 600 VAC, 1hp @ 120 VAC, 1-1/2 hp @ 240 VAC
UL recognized file number		E41643

■ Coil Data

Non-latching - AC

Nominal voltage	Resistance in Ohms ± 10%		Nominal coil power		Coil voltages	Insulation resistance	Pick up voltage at 25°C (77°F)
	1 & 2 PDT	3PDT	1 & 2 PDT	3PDT			
6 VAC	6.0	4.2	1.7 VA	2.0 VA	6 to 240 VAC 50/60 Hz	1,000 MΩ min. @ 500 VDC	85% of nominal
12 VAC	21	18					
24 VAC	75	72					
120 VAC	2,250	1,700					
240 VAC	9,100	7,200					

Non-latching - DC

Nominal voltage	Resistance in Ohms ± 10%	Nominal coil power	Coil voltages	Insulation resistance	Pick up voltage at 25°C (77°F)
5 VDC	20	1.2 W	5 to 110 VDC	1,000 MΩ min. @ 500 VDC	75% of nominal (see note)
6 VDC	32				
12 VDC	120				
24 VDC	470				
48 VDC	1,800				
110 VDC	10,000				

Latching - AC

Nominal voltage	Latch coil resistance in Ohms ± 10%	Unlatch coil resistance in Ohms ± 10%	Nominal coil power		Coil voltages	Insulation resistance	Operate voltage (latch/unlatch) at 25°C (77°F) (see note)
6 VAC	5.5	105	1.7 VA	2.0 VA	6 to 240 VAC 50/60 Hz	1,000 MΩ min. @ 500 VDC	85% of nominal
12 VAC	22	445					
24 VAC	88	1,740					
120 VAC	2,090	17,430					

Note: 120% of nominal or greater (one second duration single pulse) unlatch voltage - - above this the relay latches again.
Maximum continuous voltage: 120% of nominal (one coil only).