

Relays & Solenoids

NAIS_PCB Relays

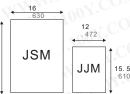
Detailed product specifications are available on: us. 100y. com. tw



· Compact (half-size).

The base area is approximately half the size of conventional (JS-M) relays. The controller unit can be made more compact.

Base area has been reduced by one half



· Perfect for automobile electrical systems.

Over 2 × 105 openings possible with a 14 V DC motor load, an inrush current of 25 A, and steady state current of 5 A. (N.O. side)

· Standard terminal pitch employed

The terminal array used is identical to that used in small automotive relays.

· Plastic sealed type.

Plastically sealed for automatic cleaning.

· Line-up of 1 Form A and 1 Form C.

TYPICAL APPLICATIONS

- Power windows
- Auto door lock
- Electrically powered sun roof
- · Electrically powered mirror
- · Cornerring lamp, etc.

COIL & 1c

Schematic (Bottom view)

сом

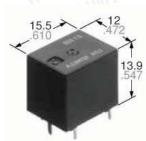
SPECIFIC Contact	ATIONS	ON
Arrangen	nent	1 Form A
Contact n	naterial	Ag alloy (Cadmium free)
	itact resistance (Initial) ge drop 6V DC 1A)	Typ. 5 mΩ
	Nominal switching capacity	20 A 14 V DC
Rating	Min. switching capacity ^{#1}	1 A 12 V DC
(resistive load)	Max. carrying current	N.O.: 35 A (12V, at 20°C 68°F for 2 minutes)25 A (12V, at 20°C 68°F for 1 hour)30 A (12V, at 85°C 185°F for 2 minutes)20 A (12V, at 85°C 185°F for 1 hour)

Characteristics

Max. opera	ting speed (at rated load)	6 cpm
Initial insula	ation resistance*9	Min. 100 MΩ (at 500 V DC)
Shock	Functional*12	Min. 100 m/s ² {10 G}
resistance	Destructive*13	Min. 1,000 m/s ² {100 G}
Vibration	Functional*14	10 Hz to 100 Hz, Min. 44.1 m/s² {4.5 G}
resistance	Destructive	10 Hz to 500 Hz, Min. 44.1 m/s² {4.5 G}
Mass		Approx. 5 g .176 oz

	Nominal operating power	640 mW
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Part No.	Product No.	Manufacturer	Description	Coil Voltage	Туре
47118	JJM1a-12 V	NAIS	COMPACT SIZE AUTOMOTIVE RELAY	12V	JJ-M



FEATURES

Small size

The smallest double make type relay12.0(W)×15.5(L)×13.9(H) mm .472(W)×.610(L)×.547(H) inch

Pattern design simplification

Simplified pattern design is possible because, while double make construction is employed, the external COM terminal is single.

· Standard terminal pitch employed

The terminal array used is identical to that used in JJM relays(1c type).

Plastic sealed type

Plastically sealed for automotive cleaning

СОМ

<Schematic>

lamp etc.

Characteristics

TYPICAL APPLICATIONS

Car alarm system flashing

SPECIFICATIONS

Contact

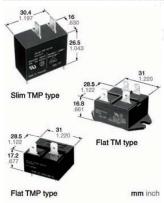
Arrange	ement	Double make contact			
Contact material		Ag alloy (Cadmium free)			
Initial contact resistance (Initial) (By voltage drop 6V DC 1A)		Typ. 10 mΩ			
Contact voltage drop		Max. 0.25V (at 2 × 6A)			
	Nominal switching capacity	12A 14V DC (at 2 × 6A, lamp load)			
Rating Max. carrying current		2 × 6A (12V, at 20°C 68°F), 2 × 4A (12V, at 85°C 185°F)			
	Min. switching capacity ^{#1}	1A 12V DC			

Max. operati	ng speed (at nominal switching capacity)	4 cpm
Initial insulat	tion resistance*2	Min. 100 MΩ (at 500 V DC)
Shock	Functional*5	Min. 100 m/s ² {10 G}
resistance	Destructive*6	Min. 1,000 m/s ² {100 G}
Vibration resistance	Functional*7	10 Hz to 100 Hz, Min. 44.1 m/s² {4.5 G}
	Destructive*8	0 Hz to 500 Hz, Min. 44.1 m/s² {4.5 G}
Mass		Approx. 5 g .176 oz

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	Nominal operating power	1,000 mW
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Part No.	Product No.	Manufacturer	Description	Coil Voltage	Туре
47119	JJM2w-12V	NAIS	DOUBLE MAKE CONTACT AUTOMOTIVE RELAY	12V	JJ-M(Double make type)



FEATURES

· Compact, high-capacity, and resistant to inductive loads The relay is a compact 16×30.4×26.5 mm .630×1.197×1.043 inch. It can control an inductive load ($cos\phi = 0.7$) with inrush current

of 70 A and steady state current of 20 A. Excellent contact welding resistance

High contact pressure, a forced opening mechanism, and a forced wiping mechanism realizes an excellent contact welding resistance.

· High breakdown voltage and surge resistant relay More than 6.4 mm .252 inch maintained for the insulation distance

between contacts and coil, and the breakdown voltage between contacts and coil is 5,000 V for 1 minute. In addition, the surge resistance between contacts and coil is greater than 10,000 V.

Resistant to external force

An absorber mechanism is used on the load terminals, giving a large improvement in characteristics variations caused by the external force during FASTON placement/removal.

Flux resistance mechanism

The terminal area is plugged with resin to prevent flux seepage during PCB mounting. (TMP type)

- · Conforms to the various safety standards UL, CSA approved. TÜV, VDE under application.
- The line up can support economical mounting methods.

The relay are equipped with a drive terminal (coil terminal) on one side for PCBs, and a load terminal (tab terminal #250) on the reverse side. The line up includes the TM type which can be attached directly to the PCB composing a drive circuit, and the TMP type which supports economical wiring. The TMP type can also be directly attached, and a high capacity load can be wired to the tab terminal.



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