



1a/1c/2a/2c/5A/10A
power relays
for power supply

JW RELAYS



Protective construction: Flux-resistant type/Sealed type

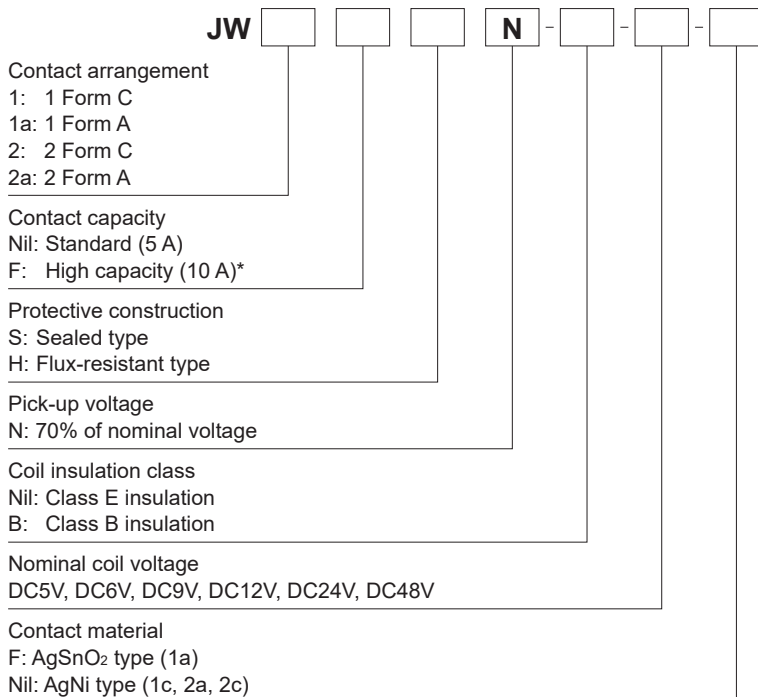
FEATURES

1. Miniature package with universal terminal footprint
2. High dielectric withstanding for transient protection:
10,000 V surge in μ s between coil and contact
3. Sealed construction
4. Class B coil insulation types available
5. VDE, TÜV, SEMKO, SEV, FIMKO also approved
6. Sockets are available

TYPICAL APPLICATIONS

1. Home appliances
TV sets, VCR, Microwave ovens
2. Office machines
Photocopiers, Vending machines
3. Industrial equipment
NC machines, Robots, Temperature controllers

ORDERING INFORMATION



TYPES

1) 1 Form A Standard (5A) type

Nominal coil voltage	Sealed type	Flux-resistant type
	Part No.	Part No.
5V DC	JW1aSN-DC5V-F	JW1aHN-DC5V-F
6V DC	JW1aSN-DC6V-F	JW1aHN-DC6V-F
9V DC	JW1aSN-DC9V-F	JW1aHN-DC9V-F
12V DC	JW1aSN-DC12V-F	JW1aHN-DC12V-F
24V DC	JW1aSN-DC24V-F	JW1aHN-DC24V-F
48V DC	JW1aSN-DC48V-F	JW1aHN-DC48V-F

Standard packing: Carton 100 pcs. Case 500 pcs.

3) 1 Form C Standard (5A) type

Nominal coil voltage	Sealed type	Flux-resistant type
	Part No.	Part No.
5V DC	JW1SN-DC5V	JW1HN-DC5V
6V DC	JW1SN-DC6V	JW1HN-DC6V
9V DC	JW1SN-DC9V	JW1HN-DC9V
12V DC	JW1SN-DC12V	JW1HN-DC12V
24V DC	JW1SN-DC24V	JW1HN-DC24V
48V DC	JW1SN-DC48V	JW1HN-DC48V

Standard packing: Carton 100 pcs. Case 500 pcs.

5) 2 Form A Standard (5A) type

Nominal coil voltage	Sealed type	Flux-resistant type
	Part No.	Part No.
5V DC	JW2aSN-DC5V	JW2aHN-DC5V
6V DC	JW2aSN-DC6V	JW2aHN-DC6V
9V DC	JW2aSN-DC9V	JW2aHN-DC9V
12V DC	JW2aSN-DC12V	JW2aHN-DC12V
24V DC	JW2aSN-DC24V	JW2aHN-DC24V
48V DC	JW2aSN-DC48V	JW2aHN-DC48V

Standard packing: Carton 100 pcs. Case 500 pcs.

2) 1 Form A High capacity (10 A) type

Nominal coil voltage	Sealed type	Flux-resistant type
	Part No.	Part No.
5V DC	JW1aFSN-DC5V-F	JW1aFHN-DC5V-F
6V DC	JW1aFSN-DC6V-F	JW1aFHN-DC6V-F
9V DC	JW1aFSN-DC9V-F	JW1aFHN-DC9V-F
12V DC	JW1aFSN-DC12V-F	JW1aFHN-DC12V-F
24V DC	JW1aFSN-DC24V-F	JW1aFHN-DC24V-F
48V DC	JW1aFSN-DC48V-F	JW1aFHN-DC48V-F

Standard packing: Carton 100 pcs. Case 500 pcs.

4) 1 Form C High capacity (10 A) type

Nominal coil voltage	Sealed type	Flux-resistant type
	Part No.	Part No.
5V DC	JW1FSN-DC5V	JW1FHN-DC5V
6V DC	JW1FSN-DC6V	JW1FHN-DC6V
9V DC	JW1FSN-DC9V	JW1FHN-DC9V
12V DC	JW1FSN-DC12V	JW1FHN-DC12V
24V DC	JW1FSN-DC24V	JW1FHN-DC24V
48V DC	JW1FSN-DC48V	JW1FHN-DC48V

Standard packing: Carton 100 pcs. Case 500 pcs.

6) 2 Form C Standard (5A) type

Nominal coil voltage	Sealed type	Flux-resistant type
	Part No.	Part No.
5V DC	JW2SN-DC5V	JW2HN-DC5V
6V DC	JW2SN-DC6V	JW2HN-DC6V
9V DC	JW2SN-DC9V	JW2HN-DC9V
12V DC	JW2SN-DC12V	JW2HN-DC12V
24V DC	JW2SN-DC24V	JW2HN-DC24V
48V DC	JW2SN-DC48V	JW2HN-DC48V

Standard packing: Carton 100 pcs. Case 500 pcs.

Note: Class B coil insulation type is available.

Ex) JW1aSN-B-DC12V-F

* Sockets available.

RATING

1.Coil data

- Operating characteristics such as 'Operate voltage' and 'Release voltage' are influenced by mounting conditions, ambient temperature, etc. Therefore, please use the relay within $\pm 5\%$ of rated coil voltage.
- 'Initial' means the condition of products at the time of delivery.

Nominal coil voltage	Pick-up voltage (at 20°C 68°F)	Drop-out voltage (at 20°C 68°F)	Nominal operating current [$\pm 10\%$] (at 20°C 68°F)	Coil resistance [$\pm 10\%$] (at 20°C 68°F)	Nominal operating power	Max. applied voltage (at 20°C 68°F)
5V DC	70%V or less of nominal voltage (Initial)	10%V or more of nominal voltage (Initial)	106mA	47Ω	530mW	130%V of nominal voltage (at 60°C 140°F) 120%V of nominal voltage (at 85°C 185°F)**
6V DC			88mA	68Ω		
9V DC			58mA	155Ω		
12V DC			44mA	270Ω		
24V DC			22mA	1,100Ω		
48V DC			11mA	4,400Ω		

Note : The pick-up and drop out voltages rise approximately 0.4% for every 1°C 33.8°F given a standard ambient temperature of 20°C 68°F. Therefore, when using relays where the ambient temperature is high, please take into consideration the rise in pick-up and drop out voltages and keep the coil applied voltage within the maximum applied voltage.