



Powering Innovation



PROTECTION + AUTOMATION + CONTROL

# ELECTRICAL RESET AUXILIARY RELAY

## JRV 192 A

**JVS ELECTRONICS PVT. LTD.**

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## FEATURES

- ◆ Wide range of voltage & contacts configurations
- ◆ Electromechanical design
- ◆ Electrical reset contacts
- ◆ Protective transparent cover for the element
- ◆ Compact panel mounting case



## APPLICATION

The relay is intended for use in the applications requiring.

1. Increased current carrying or interrupting capability in a contact (low current contact energizes the coil to close the high current contact)
2. Circuit isolation.
3. Contact conversion (for example ,from a normal open to closed condition)
4. Contact multiplication (from one contact input to two contact output)

## PRINCIPLE OF OPERATION

Electrical Reset Auxiliary relays are voltage operated, attracted armature type with 8 contacts per relay. Each element is enclosed in a dust proof moulded, transparent, polycarbonate cover. Radio metal is used for the magnetic components such as the armature, the core and the yoke of the auxiliary relay to ensure good electrical performance.

The contacts are made of phosphor bronze and are nickel plated. The contact tips are made of pure silver. The use of these materials ensures very good contact performance.

## TECHNICAL DATA

### RATINGS

Rated voltage	:	110V, 220V, 250V DC & 230V AC
Operating range	:	75-120% of rated voltage
Reset range	:	75-120% of rated voltage
Operating time	:	Less than 20 ms at rated voltage for series coils Less than 20 ms for coil A & less than 40 ms for coil B at rated voltage – for parallel coils
Reset time	:	Less than 30 ms at rated voltage
Operating indicator	:	Mechanical flag, electrical reset

## BURDEN

Operated coil	:	8 Watts(maximum) at rated voltage
Reset coil	:	20 Watts(maximum) at rated voltage

## ACCURACY

Operating value	:	+/- 5%
Operating time	:	+/- 5% or +/- 30ms
Instaneous time	:	Less than 40ms

## CONTACT RATING

Make & Carry continuous	:	2500 VA with maximum of 5 A and 660V AC
	:	2500 W with maximum of 5 A and 660V DC
Make & Carry for 3sec	:	7500 VA with maximum of 30 A and 660V AC
	:	7500 W with maximum of 30 A and 660 V DC
Break	:	2500 VA with maximum of 5 A and 660 V AC
	:	100W (Resistive), 50W(Inductive) with maximum of 5 A and 250 V DC
Operating temperature	:	-10 deg To +55 deg. Celsius

## CONTACTS DURABILITY

Unloaded contact	:	1,000,000 Operations
Loaded contact	:	1,00,000 Operations

## MECHANICAL DESIGN

Weight	:	2Kg. (approx)
Case size	:	144sq mm, depth 125mm
Installation	:	Flush mounting
Panel cutout	:	138mm X 138mm

## INSULATION

- 1) 2 KV RMS,50 Hz for 1 minute/2.5KV for 1sec between all terminals and case as per IEC 60255.
- 2) 1 KV RMS, 50 Hz for 1 minute across open contacts as per IEC 60255

## STANDARD COMPLIANCE

Accuracy test	:	IEC 61810
Insulation test	:	IEC 60255

## TERMINAL DIAGRAM

Note	:	Wiring diagram of tripping relays are given on request
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## ORDERING INFORMATION

Relay type	:	JRV 192 A
Rated voltage	:	110V, 220V,250V DC & 230V AC