



Powering Innovation



PROTECTION + AUTOMATION + CONTROL

# AUXILIARY RELAY WITH 4 PAIRS OF S/R CONTACTS

## SINGLE ELEMENT RELAY

### JRV151

**JVS ELECTRONICS PVT. LTD.**

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## FEATURES

- ◆ Electromechanical design
- ◆ Plug-in construction
- ◆ Standardised contact arrangement
- ◆ Self or hand reset contacts
- ◆ Protective transparent cover for the element
- ◆ Compact panel mounting case

## APPLICATION

Switching functions in protection and control circuits contact multiplication.



## DESCRIPTION

The auxiliary relays are electromechanical, attracted armature type, used in control and alarm circuits. These relays are designed as plug-in elements with the plug-in base having 14 terminals & 4CO per element. Each element is enclosed in a dust proof moulded, transparent, polycarbonate cover. There is no hard wiring between the relay element and the rear terminals on the base. This results in a compact rugged and reliable design. 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 from phosphor bronze and are nickel plated. The contact tips are of pure silver. The use of these materials ensures very good contact

## Auxiliary relays are available in the following versions

Contact and flag arrangement	Relay type
S/R contact and S/R or H/R or no flag or reverse flag	JRV 151

## TECHNICAL DATA

### RATINGS

Rated voltage	:	24,30, 48,110,220 V DC or 63.5, 110 or 230v, 50Hz AC
Operating range	:	75-120% of rated voltage for DC relays
	:	75-120% of rated voltage for DC relays
Reset value	:	Above 10% of the rated voltage
Burden	:	4 watts (maximum) at rated voltage Less
Operating time	:	than 20 ms at rated voltage(nominal) less
Reset time	:	than 10 ms
Operation indicator	:	a) self reset flag or b) hand reset flag or c) hand reset reverse flag for AC/DC fail indication or d) no flag

### **CONTACTS RATINGS**

- Make & Carry continuous (AC - DC) : 2500 VA with maxima of 5 A and maxima of 660VAC  
2500 W with maxima of 5A and maxima of 660VDC
- Make & Carry for 3s (AC - DC) : 7500 VA with maxima of 30 A and maxima of 660VAC  
7500 W with maxima of 30A and maxima of 660VDC
- Break (AC-DC) : 2500VA with maxima of 5 A and maxima of 660VAC  
: 100W (resistive) 50W (inductive) with maxima of 5A  
and maxima of 250V DC
- Insulation : 1) 2 KV RMS, 50Hz. For 1 minute / 2.5 KV for 1s. Between  
all terminals and case as per IEC 60255  
2) 1 KV RMS, 50Hz. For 1 minute across open contacts as  
per IEC 60255
- Operating temperature : -10 deg. To +55 deg.C

### **MECHANICAL DESIGN**

<b>Case dimensions in mm</b>			
Relay type	front face dimensions width X Height in Sq. mm	Panel cutout dimensions width X Height in mm Tolerance +1 / -0	Depth in mm
Single element relay	96	92x92	115

### **TERMINAL DIAGRAM**

- Note : Wiring diagram of relay types are given on request

### **ORDERING INFORMATION**

- Relay type : Single element relay JRV 151
- Rated voltage : 24/30/48/50/110/220 VDC 63.5/110/230