



Powering Innovation



PROTECTION + AUTOMATION + CONTROL

# AUXILIARY RELAY SINGLE ELEMENT JRV161

**JVS ELECTRONICS PVT. LTD.**

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## FEATURES

- ◆ Wide range of voltage configurations
- ◆ Electromechanical design
- ◆ Hand reset contacts
- ◆ Operation annunciation in the form of S/R or H/R flag
- ◆ Protective transparent cover for the element
- ◆ Compact panel mounting case



## APPLICATION

- ◆ Switching functions in protection, control and alarm circuits
- ◆ Contact multiplication in tripping and signalling circuits of protection relays
- ◆ AC/DC fail supervision

## PRINCIPLE OF OPERATION

The auxiliary relays are voltage operated, attracted armature type with 4 change over contacts per element. 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

Relay Voltage	:	24,30,48,110,220,250V DC or 63.5,110 or 230V, 50 Hz AC
Operating range	:	75-120% of rated voltage for DC relays 80-115% of rated voltage for AC relays
Reset value	:	Above 10% of the rated voltage
Burden	:	4 watts (maximum) at rated voltage
Operating time	:	Less than 20 ms at rated voltage(nominal)
Reset time	:	Less 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 maximum of 5 A and maximum of 660VAC 2500 W with maximum of 5A and maximum of 660VDC
Make & Carry for 3s (AC - DC)	: 7500 VA with maximum of 30 A and maximum of 660VAC 7500 W with maximum of 30A and maximum of 660VDC
Break (AC-DC)	: 2500VA with maximum of 5 A and maximum of 660VAC
Insulation	: 100W (resistive) SOW (inductive) with maximum of 5A and maximum of 250V DC 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

Case dimensions in mm			
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	: JRV161
Number of Elements	: 1 Element
Rated voltage	: 24,30,48,110,220,250V DC or 63.5,110 or 230V, 50 Hz AC
Flag	: S/R, H/R, Forward flag, Reverse flag