



Powering Innovation



PROTECTION + AUTOMATION + CONTROL

HIGH SPEED TRIPPING RELAY SINGLE ELEMENT RELAY JRV 181

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FEATURES

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



APPLICATION

High speed interface between the protection system and the circuit breaker Functions requiring a number of simultaneous switching operations, interlocks in control and closing circuits

PRINCIPLE OF OPERATION

High speed tripping relays are voltage operated, attracted armature type with 5 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 tripping 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	: 24,30,48,110,220,250V DC
Operating range	: 50-120% of rated voltage for DC relays
Burden	: 150 watts(maximum) at rated voltage
Operating time	: Less than 10 ms at rated voltage(nominal)
Operation indicator	: Self reset flag or Hand reset flag

CONTACTS RATINGS

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

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	: JRV 181
Number of Elements	: 1 Element
Rated voltage	: 24,30,48,110,220,250V DC
Flag	: Self reset flag or Hand reset flag
Contacts	: 4 NO + 1 NC or 2 NO + 3 NC