

RFG110

GROUND FAULT RELAY



INPUT SPECIFICATIONS

Voltage: 110 Vdc \pm 36 %
 Terminals:
 +B, positive pole DC circuit
 -B, negative pole DC circuit
 DT, installation ground

OUTPUT SPECIFICATIONS

Type: Relays
 Quantity: 2
 Function: fault indication
 positive pole fault +B
 negative pole fault -B
 Rated: 5 A @ 220 Vac, 0.4 A @ 110 Vdc
 Terminals: C, NO, NC

VISUAL INDICATIONS

Type: LEDs
 Quantity: 2
 Color: red
 Function: ground fault indication
 positive pole fault +B
 negative pole fault -B

REMOTE INDICATIONS

Type: LEDs
 Quantity: 2
 Terminals: Wire connectors
 Current: 5 mA
 Voltage: 24 V
 Maximum distance: 1 m

POWER SUPPLY

Self supplied from +B and -B
 Consumption lower than 70 mA @ 110 Vdc
 Power supply LED indicator

FAULT DETECTION

Adjustment range: 25 kW to 50 kW
 Typical hysteresis: 21 kW \pm 20%
 Time delay: 1 s

Weight 200 g

ENCLOSURE

For internal panel mount
 Standard DIN rail EN 50035 (asymmetric) and EN 50022 (symmetric)

FUNCTION

Detects ground faults in isolated DC systems. Indicates positive and negative pole faults.

FEATURES

- Solid state.
- Adjustable detection point.
- Remote indications with LEDs.
- Independent indication for each pole.
- Time delay in the return to normal state.

OPERATION

When the resistance between the positive pole and ground or between the negative pole and ground is lower than the adjusted value, it indicates ground fault for the corresponding pole. It doesn't indicate ground fault if both poles have similar ground resistances. A variable resistance lets to adjust the ground fault resistance value.

TYPICAL APPLICATION

Ground fault detection in distribution systems.

OPTIONS

Other voltages: 24 Vdc, 48 Vdc, 220 Vdc.

TYPICAL CONNECTION

