

TRIP RELAYS (II)

Model	RJ-8R	RJ-8XR	RJ-4XR4
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Applications

Intended for tripping applications where high quality requirements in operating time (with models even tripping in less than 3 ms) and breaking capacity are needed, that is the case of tripping HV and MV circuit breakers.

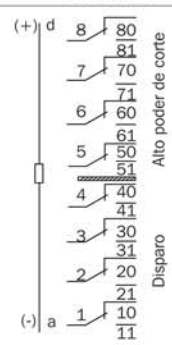
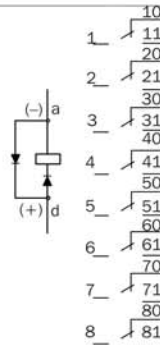
Construction characteristics

Contacts no.

8 Changeover

4 Changeover +
4 Fast Singles-Inversors without
break power

Connections



Options

With OP options • LED included • Diode in parallel with the coil included

Weight (g)

500

335

Dimensions (mm)

82,5 x 50,4 x 72 (J short type)

42,5 x 50,4 x 82,5
(F short Type)

Coil characteristics

Standard voltages⁽¹⁾

24, 48, 110, 125, 220, 250⁽⁴⁾
Vdc/110, 127, 230
Vac (50-60 Hz)

24, 48, 110, 125, 220,
250⁽⁴⁾ Vdc

110, 125, 220, 250⁽⁴⁾ Vdc

Voltage range

+10% -20% U_N

+15% -20% U_N

Pick-up voltage

Release voltage

See pick-up/release voltage-temperature curves

Consumptions

In permanence (U_N)

1,4 W

6,5 W

Peak • ≤96 Vdc

0,8 A / 20 ms

2,5 A / 20 ms

25 W / 5 ms

Peak • >96 Vdc

0,3 A / 20 ms

0,8 A / 20 ms

Operating time

Pick-up time

<8 ms Vdc (<10 ms Vac)
(Range 24 Vdc <10 ms)

<6,5 ms

Contacts 1-4: <3 ms
Contacts 5-8: <20 ms

Drop-out time

Vdc: <40 ms
Vac: <50 ms

Vdc: <40 ms

Contacts 1-4: <25 ms
Contacts 5-8: <50 ms

Contacts

Contact material

AgNi

Contacts 1-4: AgNi 10
Contacts 5-8: Ag1000

Contacts resistance⁽²⁾

≤30 mΩ

Distance between contacts

1,2 mm

Contacts 5-8: 1,2 mm

Distance between contacts

10 A

Contacts 5-8: 15 A
Contacts 1-4: 8 A

Instantaneous current

30 A during 1 s / 80 A during 200 ms / 200 A during 10 ms

Max. making capacity

40 A / 0,5 s / 110 Vdc

Breaking capacity

See breaking capacity curves (Contact configuration type B)

Max. breaking capacity

See value for 50,000 operations

Max. switching voltage

250 Vdc / 400 Vac

Performance data

Mechanical endurance

10⁷ operations

Operating temperature

-25°C +70°C

Storage temperature

-30°C +70°C

Max. operating humidity

93% / +40°C

Operating altitude⁽³⁾

<2000 m

⁽¹⁾ Other voltage upon request

⁽³⁾ Ask for higher altitudes

⁽²⁾ Guarantee data for relays just manufactured

⁽⁴⁾ Voltage not recognized by UL