## TRIP AND LOCKOUT RELAYS (I)

### High burden configuration
- BF-3R: not available
- BF-4R: See page 15 for technical details
- BJ-8R: See page 15 for technical details
- BI-16R: See page 15 for technical details

### Construction characteristics
- **Contacts no.**
  - BF-3R: 3 Changeover
  - BF-4R: 4 Changeover
  - BJ-8R: 8 Changeover
  - BI-16R: 16 Changeover

### Connections
- Diagram showing connections for each model.

### Options
- **Weight (g)**
  - BF-3R: 300
  - BJ-8R: 600
  - BI-16R: 1250

- **Dimensions (mm)**
  - BF-3R: (A) 45 x (B) 45 x (C) 95.5 (F large Type)
  - BJ-8R: (A) 90 x (B) 50 x (C) 100.5 (J large Type)
  - BI-16R: (A) 120 x (B) 110 x (C) 105

### Coil characteristics
- **Standard voltages:** 24, 48, 72, 110, 125, 220 Vdc / 63.5, 110, 127, 230 Vac (50-60 Hz)
- **Voltage range:** +10% -20% Ue
- **Pick-up voltage:** See pick-up voltage / temperature curves for Latching relays
- **Average consumptions only in the change-over:**
  - BF-3R: 17 W
  - BJ-8R: 17 W
  - BI-16R: 45 W
- **Operating time:**
  - BF-3R: <10 ms (Vdc) <20 ms (Vac)
- **Contact material:** AgNi
- **Distance between contacts:** 1.8 mm
- **Permanent current:** 10 A
- **Instantaneous current:** 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 A)
- **Max. breaking capacity:** See value for 50,000 operations
- **Umax opened contact:** 250 Vdc / 400 Vac
- **Performance data:**
  - Mechanical endurance: 10\(^6\) operations

### Temperature and humidity
- **Operating temperature:** -40°C +70°C
- **Storage temperature:** -40°C +85°C
- **Max. operating humidity:** 93% / +40°C
- **Operating altitude:** <2000 m

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\(^{(a)}\) Other voltage upon request
\(^{(b)}\) Ask for higher altitudes

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**Auxiliary relays | Trapping applications**
# TRIP AND LOCKOUT RELAYS (II)

<table>
<thead>
<tr>
<th>Model</th>
<th>BF-4RP</th>
<th>BJ-8RP</th>
<th>BI-16RP</th>
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</table>

- **Applications**: Intended for tripping and locking applications where high quality requirements in operating time and breaking capacity are needed, with manual reset.

## High burden configuration

- **Connections**: See page 15 for technical details

### Contacts no.

- **4 Changeover**
- **8 Changeover**
- **16 Changeover**

<table>
<thead>
<tr>
<th>Connections</th>
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### Options

- **Weight (g)**: Options are not available
- **Dimensions (mm)**:
  - BF-4RP: (A) 45 x (B) 45 x (C) 96.5
  - BJ-8RP: (A) 90 x (B) 50 x (C) 100.5
  - BI-16RP: (A) 120 x (B) 110 x (C) 105
- **Coil characteristics**
  - **Standard voltages**:
    - BF-4RP: 24, 48, 72, 110, 125, 220 Vdc, 63.5, 110, 127, 230 Vac (50-60 Hz)
    - BJ-8RP: 48, 110, 125, 220 Vcc
- **Voltage range**: +10% -20% $U_{nc}$
- **Pick-up voltage (20°C)**: See pick-up voltage / temperature curves for Latching relays
- **Average consumptions only in the change-over**: 17 W, 45 W, 90 W
- **Operating time**
  - BF-4RP: <10 ms (Vdc), <13 ms (Vac)
  - BJ-8RP: <10 ms (Vdc), <20 ms (Vac)
  - BI-16RP: <10 ms
- **Contacts**
  - **Contact material**: AgNi
  - **Distance between contacts**: 1.8 mm
  - **Permanent current**: 10 A
  - **Instantaneous current**: 80 A during 200 ms / 200 A during 10 ms
  - **Max. breaking capacity**: 40 A / 0.5 s / 110 Vdc
  - **Breaking capacity**
  - **Max. breaking capacity**: See breaking capacity curves (Contact configuration type A)
  - **U_{nc} opened contact**: 250 Vdc / 400 Vac
  - **Performance data**
    - **Mechanical endurance**: 10^7 operations / 10^9 operations
    - **Operating temperature**: -40°C to 70°C
    - **Storage temperature**: -40°C to 85°C
    - **Max. operating humidity**: 93% / 40°C
    - **Operating altitude**: <2000 m

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1) Other voltage upon request
2) Ask for higher altitudes