



DIR2

DIR2, Reactive relay

Code: R11211.

- > Alarm relay: No
- > Power supply (Vac): 400 Vac
- > Nr steps: 1
- > Input current: .../250 mA
- > Switching unit: Contactor

Description

The **DIR2** Power Factor Relay is capable of acting on a circuit in accordance with the reactive inductive or capacitive current transmitted through it. The **DIR2** relay measures reactive current in mA of the secondary of a .../250 mA current transformer **MC1** or **MC3** type. The front of the relay has a control panel that is used to adjust the reactive current where the relay will act. It has a LED that indicates the status of the relay.

Application

The **DIR2** relay is easy to install and program, making it the best solution in the following applications:

- Individual compensation of small, medium or large power loads.
- Partial compensation in installations with automatic equipment available.
- Partial or total regulator in low-power installations. Instantaneous and total disconnection of capacitor banks when there is a high capacitive current in the network.
- Control of reactive currents- capacitive and inductive - triggering an alarm signal when a high current is detected.



DIR2

Code: R11211.

Specifications

AC power supply

| | |
|-----------------|--------------|
| Consumption | < 3 VA |
| Frequency | 50-60 Hz |
| Nominal voltage | 400 V ~ ±10% |

Mechanical characteristics

| | |
|----------------------------------|-------------------|
| Size (mm) width x height x depth | 35 x 85 x 73 (mm) |
| Weight (kg) | 0,1 |

Environmental characteristics

| | |
|--|----------------|
| Protection class | IP 40 |
| Relative humidity (without condensation) | 95% |
| Working temperature | -10 ... +50 °C |

Standards

| | |
|---------------------------------------|--|
| Certifications | UL |
| Electrical safety, Maximum height (m) | 2000 |
| Standards | EN 61010, EN 61000-3-2, EN 61000-3-3, EN 50081-2, EN 50082-1, EN 50082-2, EN 61000-4-2, EN 61000-4-4, EN 61000-4-8, EN 61000-4-5, EN 61000-4-11, UL 94 |

Current measurement circuit

| | |
|----------------------|-----------|
| Consumption | < 0,05 VA |
| Nominal current (In) | 0,25 A ~ |
| Allowable overload | 1,2 In |
| Permanent overload | 1,2 In |

Electrical safety

| | |
|------------|---|
| Insulation | Double-insulated electric shock protection class II (IEC 61010-1) |
|------------|---|

Idle current tripping

| | |
|---------------------------|------------|
| C/K trip adjustment range | 0,15 ... 2 |
| Connection delay Tc | 5 s |
| Disconnection delay Tr | 2 s |

Digital relay outputs

| | |
|-----------------------|------------------------------|
| AC11 Ie/Ue | 10 A / 250 V ~ |
| DC11 Ie/Ue | 0,3 A / 110 V dc |
| Thermal current (Ith) | 10 A |
| Electrical life | 10x10 ⁴ maniobras |
| Mechanical life | |



DIR2

Code: R11211.

10x10⁶ operations

DIR2

Power factor relay 1 step. DIN rail

| CODE | TYPE | Switching unit | Nr steps | Input current |
|---------|------|----------------|----------|---------------|
| R11211. | DIR2 | Contactora | 1 | .../250 mA |

Requires the use of MC transformers (not included). See section M - Measuring current transformers and shunts



DIR2

Code: R11211.

Dimensions

