



## PFW2

### Phase rotation relay

- Phase control unit PFW2 for analysis of correct phase rotation
- Destructions or damages caused by false direction of rotation are prevented effectively.
- The PFW2 unit evaluates correct phase rotation and phase loss. The unit consists of a changer whose contact close at clockwise 3 phase-rotation.
- The PFW2 unit is powered directly out of three phases..

### Product description

If there is a need for correct 3-phase rotation in installations and circuitry the PFW2 eliminates malfunctions. This is extremely important when activating motor equipment. False phase rotation could cause serious damages or even destruction of the equipment.

### Connecting instructions

The PFW2 unit is connected parallel to the electric consumer and evaluates 3 phase rotation. When using clockwise 3 phase rotation (L1-L2-L3) the relay operates and closes contacts 11 and 14. If there is a wrong phase rotation the relay will not switch. To assure precise functionality engage all phases simultaneously. The **BONTRONIC** control unit is used also as phase loss monitor. The energetic recovery reaction has to be proved in a field test. It is advisable to install the PFW2 unit before the electrical contacts of the motor protection. During clockwise phase rotation the unit operates and switches the working contact of the electric contactor coil.

### Ordering information

Case colour grey

| Typ  | Best.-Nr. |
|------|-----------|
| PFW2 | 909209    |

### Technical specifications

PFW2

#### Input data

|                          |                                     |
|--------------------------|-------------------------------------|
| Input voltage (3 phases) | 200 V bis 690 V $\pm$ 10%, 50-60 Hz |
| Current demand           | 4mA max. per phase                  |
| Power consumption        | 4VA max.                            |
| 3 Phase rotation         | L1 - L2 - L3                        |

#### Output data

|                                 |                          |
|---------------------------------|--------------------------|
| Contact loadings                | 1 Changer                |
| Switching voltage               | 250V AC                  |
| Constant current                | 5A                       |
| Starting current                | 8A                       |
| Switching power AC max.         | 1200 VA (Resistive load) |
| Switching power DC max.         | 120 W (Resistive loadt)  |
| Isolation voltage coil/contactt | 4 kV eff.                |

#### General data

|                       |                 |
|-----------------------|-----------------|
| Operating temperature | 0°C to +40°C    |
| Storage temperature   | - 20°C to +80°C |
| Degree of protection  | IP 20           |
| Wire alignment        | AWG 12          |
| Dimensions            | 85 x 58 x 35 mm |

### Wiring diagram

