

- Installation design
- Width 35mm
- Mains decoupler
- All-pole disconnection
- 2 normally open contacts



## ► Technical data

### ► 1. Functions

- 0 Automatic OFF
- I Automatic ON

### ► 2. Time ranges

- |                 |                     |
|-----------------|---------------------|
| Tripping delay: | Adjustment range    |
| Rise time:      | fixed, approx. 6s   |
|                 | fixed, approx. 0.5s |

### ► 3. Indicators

- |                |                              |
|----------------|------------------------------|
| Green LED ON:  | indication of supply voltage |
| Yellow LED ON: | indication of relay output   |

### ► 4. Mechanical design

- Self-extinguishing plastic housing, IP rating IP40
- Mounted on DIN-Rail TS 35 according to EN 50022
- Mounting position: any
- Shockproof terminal connection according to VBG 4 (PZ1 required), IP rating IP20
- Initial torque: max. 1Nm
- Terminal capacity:
  - 1 x 0.5 to 2.5mm<sup>2</sup> with/without multicore cable end
  - 1 x 4mm<sup>2</sup> without multicore cable end
  - 2 x 0.5 to 1.5mm<sup>2</sup> with/without multicore cable end
  - 2 x 2.5mm<sup>2</sup> flexible without multicore cable end

### ► 5. Input circuit

- |                         |                            |                                       |
|-------------------------|----------------------------|---------------------------------------|
| Supply voltage:         | 230V AC                    | terminals L↑-N↑<br>(bottom of device) |
| Tolerance:              | -15% to +10%               |                                       |
| Rated frequency:        | 48 to 63Hz                 |                                       |
| Rated consumption:      | 11VA (1.6W)                |                                       |
| Duration of operation:  | 100%                       |                                       |
| Reset time:             | -                          |                                       |
| Residual ripple for DC: | -                          |                                       |
| Drop-out voltage:       | >10% of the supply voltage |                                       |

### ► 6. Output circuit

- 2 potential free normally open contacts
- Switching capacity: 4000VA (16A / 250V AC)
- Fusing: 16A fast acting
- Mechanical life: 30 x 10<sup>6</sup> operations
- Electrical life: 2 x 10<sup>5</sup> operations at 1000VA resistive load
- Switching frequency: max. 60/min at 100VA resistive load  
max. 6/min at 1000VA resistive load (according to IEC 947-5-1)
- Insulation voltage: 250V AC (according to IEC 664-1)
- Surge voltage: 4kV, overvoltage category III (according to IEC 664-1)

### ► 7. Measuring circuit

- |                                      |   |
|--------------------------------------|---|
| Output:                              | terminals L↑-L↑-N↑-N↑<br>(top of device)    |
| Measuring voltage:                   | 200 to 250mV DC                             |
| Activation current I <sub>ON</sub> : | 5 to 200mA                                  |
| Release current:                     | fixed,<br>approx. 70% of activation current |

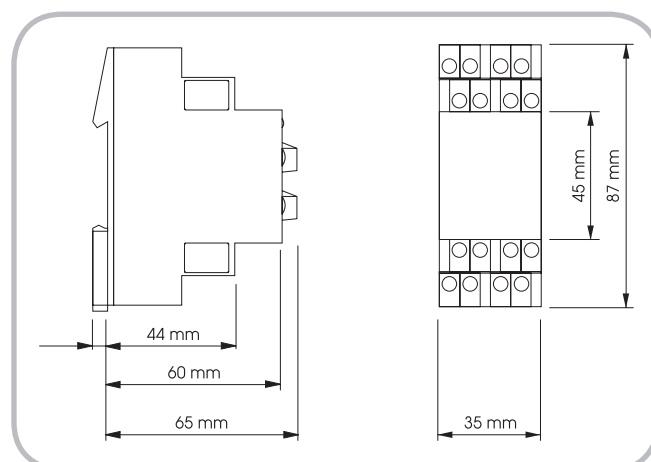
### ► 8. Accuracy

- |                        |                               |
|------------------------|-------------------------------|
| Base accuracy:         | ±10% (of maximum scale value) |
| Adjustment accuracy:   | ≤5% (of maximum scale value)  |
| Repetition accuracy:   | ≤2%                           |
| Voltage influence:     | ≤0.5% / V                     |
| Temperature influence: | ≤0.1% / °C                    |

### ► 9. Ambient conditions

- |                        |  |
|------------------------|--|
| Ambient temperature:   | -25 to +55°C<br>(according to IEC 68-1)            |
| Storage temperature:   | -25 to +70°C                                       |
| Transport temperature: | -25 to +70°C                                       |
| Relative humidity:     | 15% to 85%<br>(according to IEC 721-3-3 class 3K3) |
| Pollution degree:      | 2, if built-in 3<br>(according to IEC 664-1)       |

### ► 10. Dimensions



## Functions

For the proper functioning of the device the DC-resistance of the consumer should be sufficiently low. In order to ensure this the consumer has to be equipped if necessary with a base load component (Type GLE). The base load component is connected to the voltage along with the consumer.

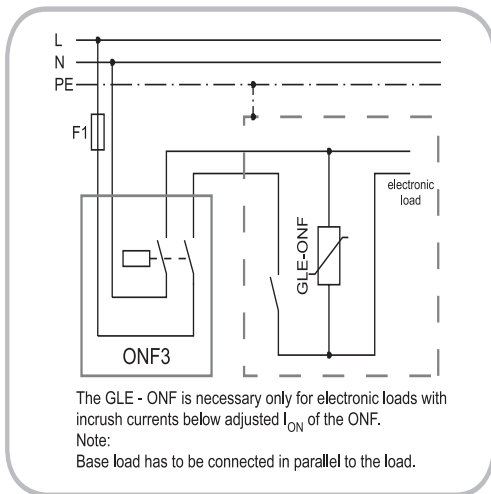
### Automatic OFF (0)

The automatic monitoring is cut off for testing purposes. The circuit is constantly connected with the mains and the output relay switches into on-position on applying the supply voltage (yellow LED illuminated).

### Automatic ON (I)

When the current required by the connected consumers falls below 70% of the making current set at the  $I_{ON}$ -regulator, the fixed interval of the release time (approx. 6s) begins. After the interval has expired, the output relay switches into off-position (yellow LED not illuminated) and the circuit is separated from the mains.

With a very small DC-voltage the line is now monitored for the activation of one of the consumers. If due to the activation of a consumer the current exceeds the set value, the output relay again switches into on-position (yellow LED illuminated) and the circuit is reconnected with the mains.



## Connections

