

- ▶ Industrial design
- ▶ Width 45mm
- ▶ AC current monitoring in 1-phase mains
- ▶ 2 change over contacts



Technical data

1. Functions

Consumer failure detection for AC-current in 1-phase mains with 2 fixed thresholds (selectable via bridge x1-x2)

2. Time ranges

	Adjustment range
Start-up suppression time:	-
Tripping delay:	-

3. Indicators

Green LED ON:	indication of supply voltage
Yellow LED ON/OFF:	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 2.5mm² with/without multicore cable end
 1 x 4mm² without multicore cable end
 2 x 0.5 to 1.5mm² with/without multicore cable end
 2 x 2.5mm² flexible without multicore cable end

5. Input circuit

Supply voltage:	230V AC	terminals A1-A2
Tolerance:	-15% to +10%	
Rated frequency:	48 to 63Hz	
Rated consumption:	8VA (1.3W)	
Duration of operation:	100%	
Reset time:	500ms	
Residual ripple for DC:	-	
Drop-out voltage:	>30% of the supply voltage	

6. Output circuit

2 potential free change over contacts
 Switching capacity: 1250VA (5A / 250V AC)
 Fusing: 5A fast acting
 Mechanical life: 20 x 10⁶ operations
 Electrical life: 1 x 10⁵ operations at 1000VA resistive load
 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

Input:	30mA 300mA	terminals k - l terminals k - l (X1-X2 bridged)
Overload capacity:	30mA 300mA	15A 15A
Input resistance:	30mA 300mA	5mΩ 5mΩ

Switching threshold fixed, 30mA
 fixed, 300mA (X1-X2 bridged)
 Hysteresis: fixed, approx. 5%

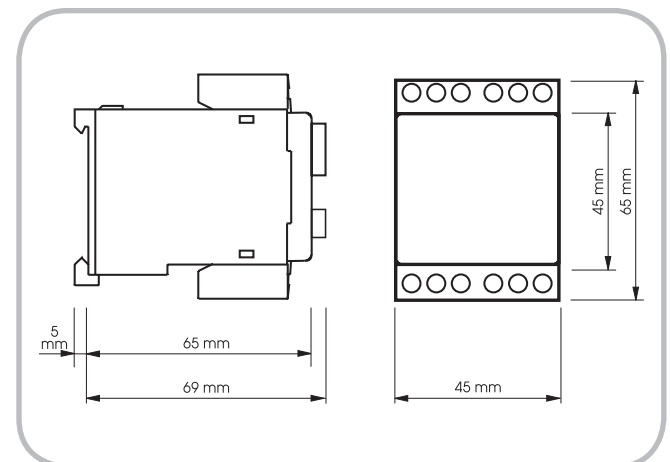
8. Accuracy

Base accuracy:	±20% (of maximum scale value)
Adjustment accuracy:	-
Repetition accuracy:	<2%
Voltage influence:	≤0.02% / 1% supply voltage change
Temperature influence:	≤0.05% / °C

9. Ambient conditions

Ambient temperature:	-25 to +55°C (according to IEC 68-1)
Storage temperature:	-25 to +70°C
Transport temperature:	-25 to +70°C
Relative humidity:	15% to 85% (according to IEC 721-3-3 class 3K3)
Pollution degree:	3 (according to IEC 664-1)

10. Dimensions



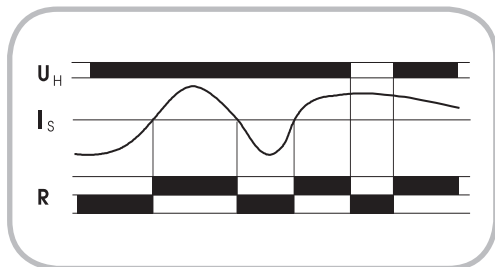
Functions

Consumer failure detection for AC-current in 1-phase mains with 2 fixed thresholds (selectable via bridge x1-x2)

Undercurrent monitoring

The supply voltage U must be constantly applied to the device (green LED illuminated).

The output relay R switches into on-position (yellow LED illuminated), when the measured current exceeds the fixed threshold. When the measured value for the current falls below the set value the output relay switches into off-position (yellow LED not illuminated).



Connections

