

- ▶ Installation design
- ▶ Width 35mm
- ▶ AC current monitoring in 1-phase mains
- ▶ 1 change over contact



## Technical data

### 1. Functions

AC overcurrent monitoring in 1-phase mains with adjustable threshold and fixed hysteresis

### 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 2.5mm<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:		
24V AC/DC	terminals A1-A2	
110V AC	terminals A1-A2	(CIH10AAC3X 110VAC)
230V AC	terminals A1-A2	(CIH10AAC3X 230VAC)
Tolerance:		
24V AC/DC	-15% to +10%	
110V AC	-20% to +15%	(CIH10AAC3X 110VAC)
230V AC	-20% to +15%	(CIH10AAC3X 230VAC)
Rated frequency:	45 to 65Hz	
Rated consumption:		
24V AC/DC	1VA	
110V AC	4VA	(CIH10AAC3X 110VAC)
230V AC	8VA	(CIH10AAC3X 230VAC)
Duration of operation:	100%	
Reset time:	-	
Residual ripple for DC:	-	
Drop-out voltage:	>30% of the supply voltage	

### 6. Output circuit

1 potential free change over contact  
 Switching capacity : 1250VA (5A / 250V AC)  
 Fusing: 5A  
 Mechanical life: 20 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

Input:	10A AC	terminals k-l(+)
Overload capacity:	15A	
Input resistance:	<5Ω	
Switching threshold I <sub>max</sub> :	1 to 10A AC	
Hysteresis:	fixed, approx. 10%	
Terminal voltage k,l:	max. 250V AC	

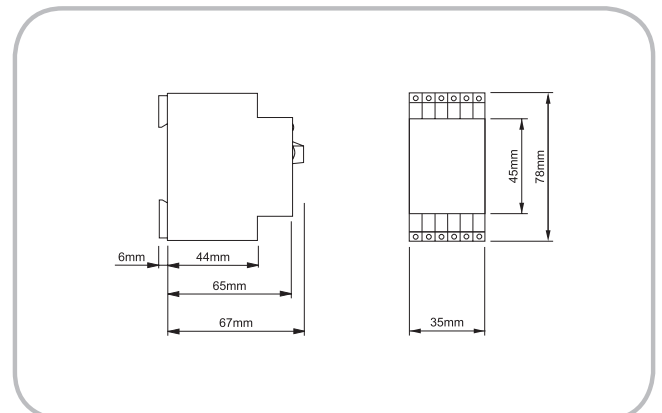
### 8. Accuracy

Base accuracy:	±5% (of maximum scale value)
Adjustment accuracy:	≤5% (of maximum scale value)
Repetition accuracy:	≤2%
Voltage influence:	-
Temperature influence:	≤0.1% / °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:	2, if built-in 3 (according to IEC 664-1)

### 10. Dimensions



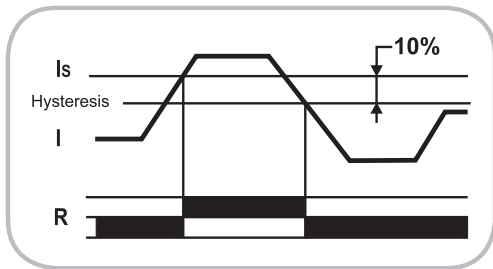
## Functions

AC overcurrent monitoring in 1-phase mains with adjustable threshold and fixed hysteresis

### Overcurrent 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 value adjusted at the I<sub>s</sub>-regulator. The output relay switches into off-position (yellow LED not illuminated) when the measured value for the current falls below the set value by more than the fixed hysteresis.



## Connections

