- Installation design
- Width 35mm
- Voltage monitoring in 3-phase mains
- 1 change over contact

Technical data

1. Functions

Monitoring of phase sequence, phase failure and asymmetry with adjustable asymmetry, connection of the neutral wire optional

2. Time ranges

	Adjustment range
Start-up suppression time:	-
Tripping delay:	fixed, approx. 100ms

3. Indicators

Green LED ON:	indication of supply voltage
Red LED ON/OFF:	indication of fault

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:	3(N)~ 400/230V	terminals (N)-L1-L2-L3 (= measuring voltage)
Tolerance:	-30% to +35%	
Rated frequency:	48 to 63Hz	
Rated consumption:	8VA (1.2W)	
Duration of operation:	100%	
Reset time:	<1s	
Residual ripple for DC:	-	
Drop-out voltage:	>20% of the supply voltage	

6. Output circuit

1 potential free change over contact

Switching capacity (distance < 5mm):	750VA (3A / 250V AC)
Switching capacity (distance > 5mm):	1250VA (5A / 250V AC)
Fusing:	5A fast acting
Mechanical life:	20 x 10^6 operations
Electrical life:	2 x 10^5 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:	3(N)~ 400/230V	terminals (N)-L1-L2-L3 (= supply voltage)
Overload capacity:	3(N)~ 550/317V	
Input resistance:	-	
Asymmetry:	5% to 20%	

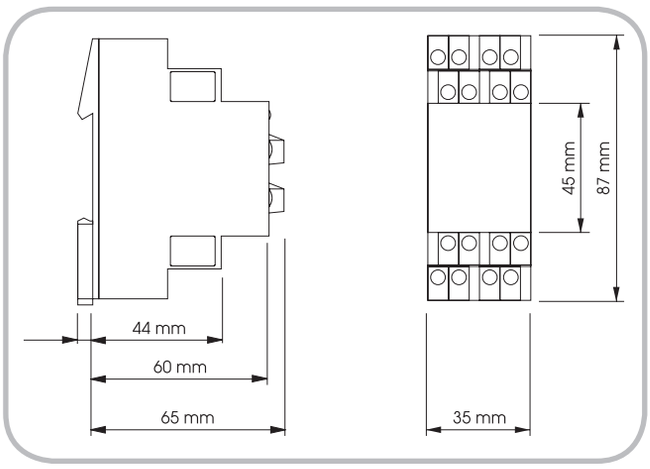
8. Accuracy

Base accuracy:	±5% (of maximum scale value)
Adjustment accuracy:	≤10% (of maximum scale value)
Repetition accuracy:	±10%
Voltage influence:	-
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:	2, if built-in 3 (according to IEC 664-1)

10. Dimensions



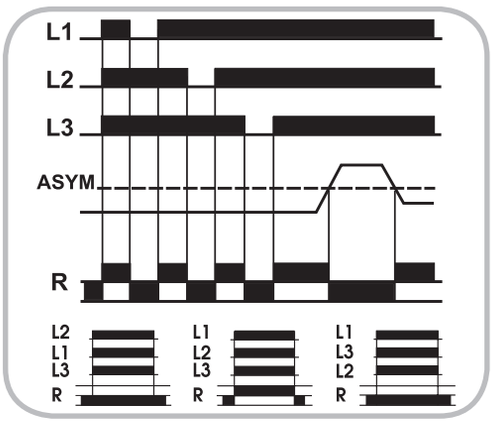
Functions

Monitoring of phase sequence, phase failure and asymmetry with adjustable asymmetry, connection of the neutral wire optional

Phase sequence monitoring
When all the phases are connected in the correct sequence and the measured asymmetry is less than the value set at the ASYM-regulator the output relay switches into on-position (red LED not illuminated). When the phase sequence changes, the output relay switches into off-position (red LED illuminated)

Phase failure monitoring
The output relay R switches into off-position (red LED illuminated), when one of the three phases fails. Reverse voltages of a consumer (e.g. a motor which continues to run on two phases only) do not effect the disconnection.

Asymmetry monitoring
The output relay R switches into off-position (red LED illuminated) when one of the phase voltages deviates from the mean value of all the three phase voltages more than the value set at the ASYM-regulator.



Connections