PF400VS2X

- Industrial design
- Width 22.5mm
- Voltage monitoring in 3-phase mains
- 2 change over contacts

Technical data

1. Functions
Monitoring of phase sequence and phase failure with fixed tripping delay

2. Time ranges

	Adjustment range
Start-up suppression time:	-
Tripping delay:	fixed, approx. 500ms

3. Indicators
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:	3~ 400V	terminals L1-L2-L3 (= measuring voltage)
Tolerance:	-50% to +25%	
Rated frequency:	48 to 63Hz	
Rated consumption:	12VA (1.5W)	
Duration of operation:	100%	
Reset time:	500ms	
Residual ripple for DC:	-	
Drop-out voltage:	>10% of the supply voltage	

6. Output circuit
2 potential free change over contacts

Switching capacity:	1250VA (5A / 250V)
Fusing:	5A fast acting
Mechanical life:	20 x 10^6 operations
Electrical life:	1 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:	3~400V	terminals L1-L2-L3 (= supply voltage)
Overload capacity:	3~ 550V	
Input resistance:	-	

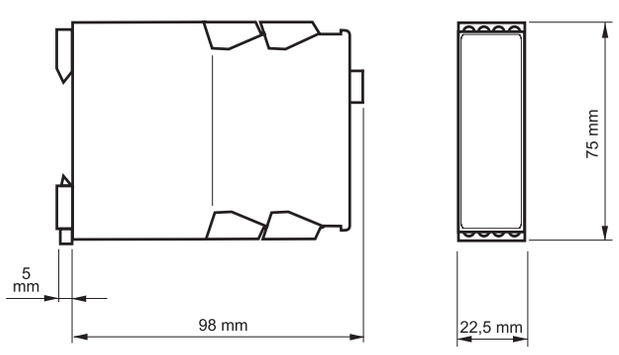
8. Accuracy

Base accuracy:	-
Adjustment accuracy:	-
Repetition accuracy:	-
Voltage influence:	-
Temperature influence:	-

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

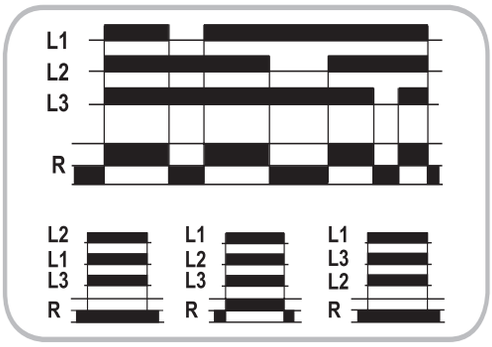


Functions

Monitoring of phase sequence and phase failure with fixed tripping delay

Phase sequence monitoring
When all the phases are connected in the correct sequence the output relay switches into on-position (yellow LED illuminated). When the phase sequence changes the fixed interval for the tripping delay begins. After the interval has expired, the output relay switches into off-position (yellow LED not illuminated)

Phase failure monitoring
When one of the three phases fails, the output relay R switches into off-position (yellow LED not illuminated) after the fixed interval of the tripping delay has expired.
If on account of a consumer there is a reverse voltage, no fault is displayed.



Connections