Monitoring relays - ENYA series

- Voltage monitoring in 3-phase mains
- Monitoring of phase sequence and phase failure
- Connection of neutral wire optional
- Supply voltage = measured voltage
- 1 change over contact
- Width 17.5mm
- Installation design

Technical data

1. Functions

Monitoring of phase sequence and phase failure, connection of neutral wire N optional.

2. Time ranges

Tripping delay:

Adjustment range fixed, approx. 100ms

3. Indicators

Green LED ON: Yellow LED ON/OFF: indication of supply voltage 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 Tightening 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
- $2 \times 2.5 \text{mm}^2$ flexible without multicore cable end

5. Input circuit

Supply voltage: Terminals: Rated voltage U_N:

Rated consumption:

Rated frequency: Duty cycle:

Tolerance:

Reset time:

Hold-up time: Drop out voltage: (N)-L1-L2-L3 see table ordering information or printing on the unit -30% to +30% of U_N 8VA (0,8W) AC 48 to 63Hz 100% 500ms >20% of the supply voltage III (in accordance with IEC 60664-1) 4kV

(= measured voltage)

Rated surge voltage: 6. Out

Overvoltage categorie:

1 poten Rated v Switchi Fusing: Mechar Electric Switching A resistive load (in accordance with IEC 60947-5-1) Overvoltage categorie: III (in accordance with IEC 60664-1) Rated surge voltage: 4kV

7. Measuring circuit

Measuring variable: Measuring input: Terminals: Overload capacity:

Input resistance: Overvoltage categorie: Rated surge voltage:

8. Accuracy

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

9. Ambient conditions

Ambient temperature: Storage temperature: Transport temperature: Relative humidity:

Pollution degree:

10. Weight

Package of 10pcs:

3(N)~, sinus, 48 to 63Hz (= supply voltage) (N)-L1-L2-L3 determined by tolerance specified for supply voltage

III (in accordance with IEC 60664-1) 4kV

±5% ≤5% ±2%

≤0.05% / °C

-25 to +55°C -25 to +70°C -25 to +70°C 15% to 85% (in accordance with IEC 60721-3-3 class 3K3) 2 if built in 3 (in accordance with IEC 60664-1)

670g per Package



tput circuit	
ntia free change over co	ontact
voltage:	250V AC
ing capacity:	1250VA (5A / 250V AC)
:	5A fast acting
nical life:	20 x 10 ⁶ operations
cal life:	2 x 10 ⁵ operations
	at 1000VA resistive load
ing frequency:	max. 6/min at 1000VA re

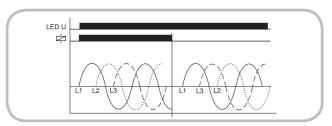
E1PF400VS01

Subject to alterations and errors

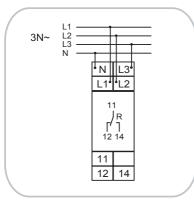
Functions

Phase sequence monitoring

When all the phases are connected in the correct sequence and the measured asymmetry is less than the fixed value, the output relay switches into on-position (yellow LED illuminated). When the phase sequence changes, the output relay switches into off-position (yellow LED not illuminated).

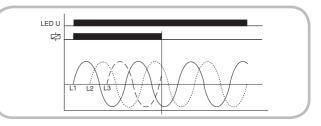


Connections

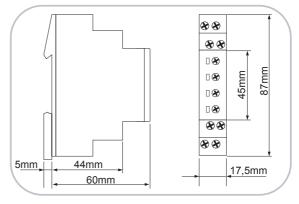


Phase failure monitoring

The output relay switches into off-position (yellow LED not illuminated), when one of the three phases fails.



Dimensions



Ordering information

Туре	Rated voltage U _N	Part Nr. (PQ 10)
E1PF400VS01	3(N)~400/230V	1340301A

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