



a.c./d.c. voltage monitoring in 1-phase mains

Monitoring relays - ENYA series

Undervoltage monitoring

1 change over contact

Width 17.5 mm

Installation design



Technical data

a.c./d.c. undervoltage monitoring in 1-phase mains with adjustable threshold and fixed hysteresis.

UNDER Undervoltage monitoring

2. Time ranges

Adjustment range

Tripping delay (Delay):

3. Indicators

Green LED ON/OFF: 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 60715

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 x 2.5mm² flexible without multicore cable end

5. Input circuit

Supply voltage: (= measuring voltage)

Terminals:

230V a.c. E-F3

24V a.c. E-F2 (distance > 5mm)

24V d.c. E-F1(+)

Rated voltage U_N: see table ordering information or

printing on the unit

-25% to +20% of U. Tolerance:

Rated consumption:

10VA (0.6W) 230V a.c. 24V a.c. 1.3VA (0.8W) 24V d.c. 0.6W a.c. 48 to 63Hz Rated frequency: Duration of operation: 100% Reset time: 500ms d.c., a.c. Sinus

Wave form: Hold-up time:

>60% of supply voltage Drop-out voltage: Overvoltage category: III (according to IEC 60664-1)

Rated surge voltage:

6. Output circuit

1 potential free change over contact Rated voltage: 250V a.c.

1250VA (5A / 250V a.c.) Switching capacity: 5A fast acting Fusing: Mechanical life: 20 x 106 operations 2 x 10⁵ operations Electrical life: at 1000VA resistive load Switching frequency: Overvoltage category: max. 6/min at 1000VA resistive load (in accordance with IEC 60947-5-1) III (in accordance with IEC 60664-1)

Rated surge voltage: 4kV

7. Measuring circuit

Measuring variable: d.c. or a.c. Sinus, 48 to 63Hz Measuring input: (= supply voltage) Terminals:

230V a.c. E-F3 24V a.c.

Distance between the devices must be

greater than 5mm!

24V d.c. E-F1(+) Overload capacity: 120% of U, Input resistance:

Switching threshold U_s: see table ordering information or

printing on the unit Hysteresis H:

see table ordering information or

printing on the unit Overvoltage category: III (in accordance with IEC 60664-1)

4kV Rated surge voltage:

8. Accuracy

≤5% of nominal value Base accuracy: Adjustment accuracy: ±5% of nominal value Repetition accuracy: ≤2% of nominal value

Voltage influence:

Temperature influence: ≤0,05% / °C

9. Ambient conditions

-25 to +55°C (in accordance with IEC 60068-1) Ambient temperature:

-25 to +70°C Storage temperature: Transport temperature: -25 to +70°C Relative humidity: 15% to 85%

(in accordance with IEC 60721-3-3 class 3K3)

2 (in accordance with IEC 60664-1)

10. Weight

Pollution degree:

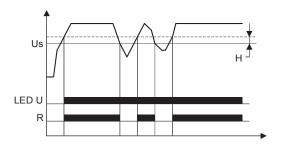
Single packing: 74g

676g per Package Package of 10pcs:

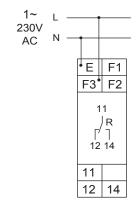
Functions

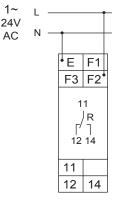
Untervoltage monitoring (UNDER)

When the supply voltage U is applied, the output relay R switches into on-position, if the measured voltage is beyond the adjusted value. When the measured voltage falls below the adjusted value, the output relay R switches into off-position. The output relay R switches into on-position again, if the voltage exceeds the adjusted value plus the hysteresis.

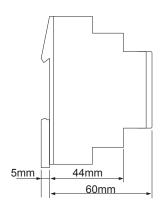


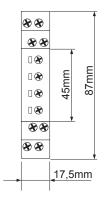
Connections





Dimensions





Ordering information

Туре	Rated voltage U _N	Function	Switching threshold ${\rm U_s}$	Delay	Hysteresis	Part. No.
E1UU230V01	24V a.c./d.c. 230V a.c.	U	Min 5% to 115% of $U_{_{\rm N}}$	-	fixed 5%	1340102

RELEASE 2012/04

Subject to alterations and errors

