



Monitoring relays - ENYA series

Undercurrent monitoring

1 change over contact

Width 17.5 mm

Installation design



Technical data

1. Functions

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

UNDER Undercurrent 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 output relay

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: 230V AC

Terminals: Li-N

Tolerance: -15% to +15% of U_N

Rated voltage: 5VA (0.8W)

Rated frequency: AC 48 to 63Hz

Duration of operation: 100%

Reset time: 500ms

Wave form: Sinus

Hold-up time: -

Drop-out voltage: >20% of rated voltage

Overvoltage category: III (in accordance with IEC 60664-1)

Rated surge voltage: 4kV

6. Output circuit

1 potential free change over contact

Rated voltage: 250V AC

Switching capacity: 1250VA (5A / 250V)

Fusing: 5A fast acting

Mechanical life: 20 x 10⁶ operations

Electrical life: 2 x 10⁵ operations

at 1000VA resistive load

Switching frequency: max. 6/min at 1000VA resistive load

(in accordance with IEC 60947-5-1)

Overvoltage category: III (in accordance with IEC 60664-1)

Rated surge voltage: 4kV

7. Measuring circuit

Measuring variable: AC sinus, 48 to 63Hz

Measuring input: 500mA AC

Terminals: Li, Lk

Overload capacity: 2.2A ($I > 1.6A$ - distance > 5mm)

Starting current:

1s 12.6A

3s 6.3A

Input resistance: 100m Ω

Switching threshold I_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)

Rated surge voltage: 4kV

8. Accuracy

Base accuracy: $\leq 5\%$ of nominal value

Adjustment accuracy: $\pm 5\%$ of nominal value

Repetition accuracy: $\leq 2\%$ of nominal value

Voltage influence: -

Temperature influence: $\leq 0.1\%$ / °C

9. Ambient conditions

Ambient conditions: -25 to +55°C

Storage temperature: -25 to +70°C

Transport temperature: -25 to +70°C

Relative humidity: 15% to 85%

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

Pollution degree: 2, if built-in 3

(in accordance with IEC 60664-1)

10. Weight

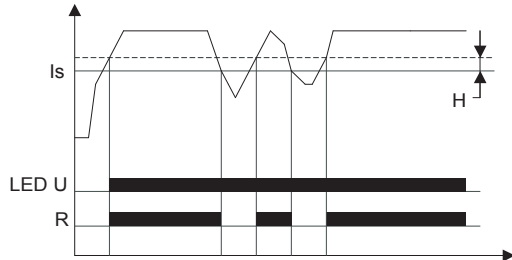
Single packing: 70g

Package of 10pcs: 660g per package

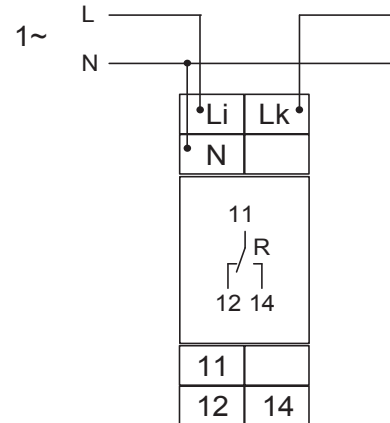
Functions

Undercurrent monitoring (UNDER)

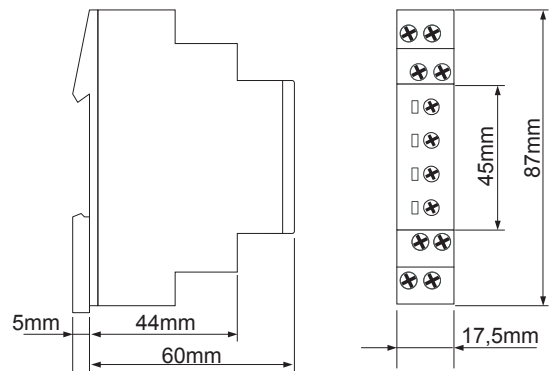
When the measured current falls below the value adjusted at the Min-regulator, the output relay R switches into off-position (yellow LED not illuminated). When the measured current exceeds the value adjusted at the Min-regulator plus the hysteresis, the output relay R switches into on-position again (yellow LED illuminated),



Connections



Dimensions



Ordering information

Type	Rated voltage U_N	Functions	Switching threshold U_s	Delay	Hysteresis	Part. No.
E1IU500mAAC01	230V	U	10% to 110% of I_N	-	fixed 10%	1340204