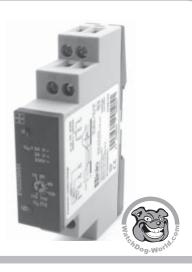
Monitoring relays - ENYA series

- AC/DC voltage monitoring in 1-phase mains
- Undervoltage monitoring
- 1 change over contact
- Width 17.5 mm
- Installation design



Technical data

1. Functions

AC/DC 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 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 x 2.5mm² flexible without multicore cable end

5. Input circuit

Supply voltage: (= measuring voltage)

Terminals:

230V AC E-F3 24V AC E-F2 (distance > 5mm)

24V DC E-F1(+)

Rated voltage Un: see table ordering information or

printing on the unit

Tolerance: -25% to +20% of Un

Rated consumption:

230V AC 10VA (0.6W)
24V AC 1.3VA (0.8W)
24V DC 0.6W

Rated frequency: AC 48 to 63Hz
Duration of operation: 100%

Reset time: 500ms

Wave form: DC, AC Sinus

Hold-up time:

Drop-out voltage: >60% of supply voltage
Overvoltage category: III (according to 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. 60/min at 100VA resistive load

max. 6/min at 1000VA resistive load

(according to IEC 947-5-1)
III. (according to IEC 60664-1)

Rated surge voltage: 4k

7. Measuring circuit

Overvoltage category:

Measuring variable: DC or AC Sinus, 48 to 63Hz
Measuring input: (= supply voltage)
Terminals:

230V AC E-F3

24V AC E-F2 Distance between the devices musst be greater than 5mm!

24V DC E-F1(+)
Overload capacity: 120% of Un

Input resistance: -

Switching threshold Us: see table ordering information or

printing on the unit

Hysteresis H: see table ordering information or

printing on the unit

Overvoltage category: III (according to IEC 60664-1)

Rated surge voltage: 4kV

8. Accuracy

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

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)
Vibration resistance: 10 to 55 Hz 0.35mm
(according to IEC 68-2-6)
Shock resistance: 15g 11ms

k resistance: 15g 11ms (according to IEC 68-2-27)

► 10. Weight

Single packing: 74g

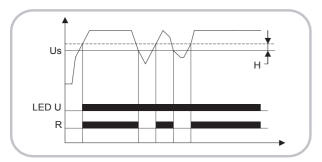
Package of 10pcs: 676g per Package

Subject to alterations and errors

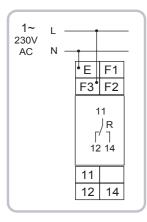
Functions

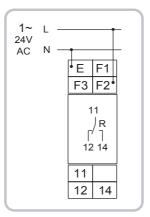
Untervoltage monitoring (UNDER)

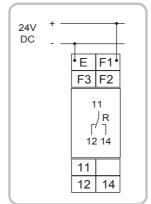
When the supply voltage U is applied, the output relay R switches into on-position, if the measured voltage is beyond the adjusted value. When the measured voltage falls below the adjusted value, the output relay R switches into off-position. The output relay R switches into on-position again, if the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



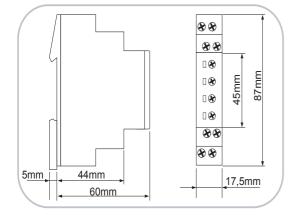
Connections







Dimensions



Ordering informations

T	уре	Rated voltage Un	Functions	Switching threshold Us	Delay	Hysteresis	Part Nr. (PQ 1)
F	11112301/01	24VAC/DC 230VAC	U	Min: 75% to 115% of Un	-	fixed 5%	1340102

