

E1IUM230V01

Monitoring relays - ENYA series Multifunction 1 change over contact Width 17.5 mm Installation design



Technical data

1. Functions

AC/DC voltage monitoring in 1-phase mains with adjustable threshold and hysteresis.

- UNDER WIN
- Undervoltage monitoring Monitoring the window between Min and Max

2. Time ranges

Adjustment range Start-up suppression time (Start): Tripping delay (Delay):

3. Indicators

Green LED ON/OFF: indication of supply voltage Red LED ON/OFF: indication of failure of the corresponding threshold 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 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: Terminals: 230V AC 24V AC 24V DC Rated voltage Un:

Tolerance: Rated consumption: 230V AC 24V AC 24V DC Rated frequency: Duration of operation: Reset time: Wave form:

Hold-up time: Drop-out voltage:

Overvoltage category: Rated surge voltage:

(= measuring voltage)

E-F3 E-F2 E-F1(+) see table ordering information or printing on the unit -25% to +20% of Un

10VA (0.6W) 1.3VA (0.8W) 0.6W AC 48 to 63Hz 100% 500ms DC, AC Sinus

determined by undervoltage detection (see measured circuit) III (according to IEC 60664-1) 4kV

6. Output circuit

1 potential free change over contact Rated voltage: Switching capacity: Fusing: 5A fast acting Mechanical life: Electrical life: Switching frequency:

Overvoltage category: Rated surge voltage:

7. Measuring circuit

Measuring variable: Measuring input: Terminals: 230V AC 24V AC

24V DC Overload capacity: Input resistance: Switching threshold Us:

Hysteresis H:

printing on the unit see table ordering information or printing on the unit III (according to IEC 60664-1) Overvoltage category:

4kV

250V AC

4kV

E-F3

E-F1(+)

120% of Un

1250VA (5A / 250V)

20 x 10⁶ operations

2 x 10⁵ operations at 1000VA resistive load max. 60/min at 100VA resistive load

max. 6/min at 1000VA resistive load

E-F2 Distance between the devices

(according to IEC 947-5-1)

III. (according to IEC 60664-1)

DC or AC Sinus, 48 to 63Hz

musst be greater than 5mm!

see table ordering information or

-25 to +55°C (according to IEC 68-1)

(according to IEC 721-3-3 class 3K3)

(= supply voltage)

8. Accuracy

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

Rated surge voltage:

≤5% of nominal value ±5% of nominal value ≤2% of nominal value

≤0,05% / °C

-25 to +70°C -25 to +70°C

15% to 85%

2, if built in 3

15g 11ms

Temperature influence: 9. Ambient conditions

Ambient temperature: Storage temperature: Transport temperature: Relative humidity: Pollution degree: Vibration resistance:

Shock resistance:

10. Weight Single packing : Package of 10pcs: (according to IEC 68-2-27) 75a

(according to IEC 664-1)

(according to IEC 68-2-6)

10 to 55 Hz 0.35mm

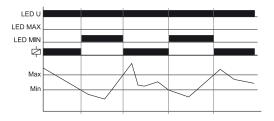
684g per package

E1IUM230V01

Functions

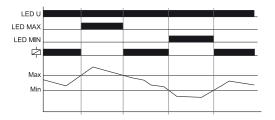
Undervoltage monitoring (UNDER)

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

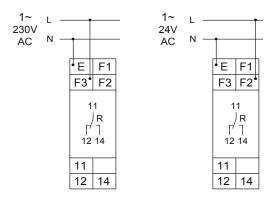


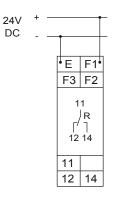
Window function (WIN)

When the supply voltage U is applied, the output relay R switches into on-position, if the measured voltage is within the adjusted window. When the measured voltage left the window between Min and Max, the output relay R switches into off-position. The output relay R switches into on-position again, if the voltage re-enter the adjusted window.

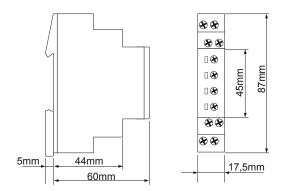


Connections





Dimensions



Ordering information

Types	Rated voltage $U_{_N}$	Functions	Switching threshold U _s	Delay	Hysteresis	Part. No.
E1IUM230V01	24V AC/DC 230V	U. W	Max 80% to 120% of U _N Min 75% to 115% of U _N	-	adjustable	1340101
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RELEASE 2009/07						
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