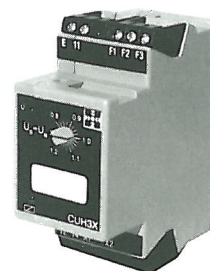


Monitoring relays series *clip* CUH...3X

- ❑ installation profile according to VDE 43880
- ❑ single-phase AC monitoring
- ❑ no auxiliary voltage required

2.2



Technical Data:

Supply voltages: = measuring voltage

Nominal consumption:

230 VAC/ approx 8 VA

110 VAC/ approx 4 VA

24VAC/DC/ approx 1 VA

Frequency range 45-65 Hz

Duty cycle 100% IEC class 1c

Environmental conditions:

Permissible ambient temperature - 25°C to + 55°C

Class of application HVF to DIN 40040

Mechanical data/specifications:

Enclosure in self-extinguishing plastic. Type of protection IP 40

Type of connections:

Contact-protected terminals

Dimensions and standards:

78.5 x 35 x 66 mm (h x b x d)

Mounting on DIN rails to DIN 46277/3 (European standard EN 50 0222)

Connection via terminals up to 4 mm² with protection against accidental contact.

Type of protection IP20

Contact protection to VDE 0106 and VBG 4

Terminal arrangement and connection markings to DIN 46 199

Output stage:

1 changeover

Max. switching voltage: max. 250VAC

Continuous current: max. 5A

Switching capacity: 250VAC cosφ = 1 1250VA

Max. switching rate

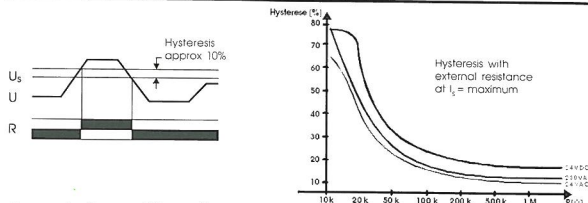
without load 72000/h

with nominal load 3000/h

Mechanical life >30 . 10⁶ switching operations.

single-phase voltage monitoring + hysteresis function

Function diagram:



Description of function:

The CUH voltage monitoring relay can monitor 24VDC, 24VAC, 110VAC or 230VAC. The auxiliary voltage must be applied continuously to the unit. The nominal value is selected by connecting to the appropriate terminals. At 24VDC care must be taken that the positive pole is connected to terminal F1. Infinitely variable adjustment of the switching point from 0.8 to 1.2 U_N can be obtained with a potentiometer.

The hysteresis has a fixed setting of about 10%, but can be increased with an external resistance ($R = 15 \text{ k}\Omega$ to $1 \text{ M}\Omega$, 0.25 W) across the terminals X1 and X2. The smaller the resistance, the greater the hysteresis. Also see diagram above. If the set switching point U_s is exceeded the output relay immediately energises. This state is also indicated by the yellow LED. Only if the hysteresis is undershot (standard: approx 10% below) is the output relay deenergised and the LED extinguished.

Sensing range:

Input	U_N voltage effective	max. overload
E-F1	24 VDC	32 V _{eff}
E-F2	24 VAC	30 V _{eff}
E-F3	110 VAC	137 V _{eff}
E-F3	230 VAC	285 V _{eff}

Range of adjustment:

Switching point: $U_s = 0.8$ to $1.2 U_N$

Hysteresis: fixed approx 10% of U_s (can be altered with external resistance)

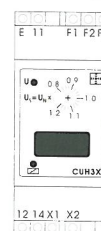
Time delays:

Release delay : none

Start-surge delay: none

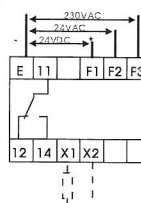
Front view

CUH ...3X

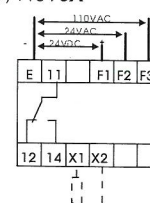


Connection:

CUH 24V/230V3X



CUH 24V/110V3X



Types:

CUH 24V AC/DC / 110VAC 3X

CUH 24V AC/DC / 230VAC 3X

Accessories:

Mounting plate MP