



WDH/010-30

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Code: P32022. (CONSULTAR DISPONIBILIDAD)

> Harmonic relay

Description

WDH harmonics detectors are electronic devices with an output relay that is connected when the harmonics current level measured in the circuit exceeds a threshold that can be adjusted.

- It monitors and acts in accordance with the true root mean square of the total harmonic current in a phase. The trigger level is adjusted with the potentiometer on the front of the unit.
- Delay: the output relay activation time can be adjusted (up to 30 s).
- The reset process is automatic with currents under 10% of the trip level (Hysteresis).
- Current measurement, depending on the type:
 - With built-in current transformer (net diameter \varnothing 25 mm)
 - Separate transformer, input.../5 A ac

Application

The WDH current detectors are mainly used to protect transformers, capacitor banks, etc. In general, any receiver subject to harmonic overloads.



WDH/010-30

Harmonics detector control relay

Code: P32022.

Specifications

AC power supply

| | |
|-----------------|---------------------------|
| Consumption | 2 W |
| Frequency | 50 Hz |
| Nominal voltage | 230 / 400 V~ (-15%, +10%) |

Environmental characteristics

| | |
|---------------------|--------------|
| Protection class | IP 40 |
| Working temperature | 0 ... +50 °C |

Standards

| | |
|----------------|---|
| Certifications | UL, VDE |
| Standards | IEC 605, IEC 1010-1, UNE-EN 61010-1, UNE-EN 50081, UNE-EN 50082, IEC 255, UL 94, EN 20607, UNE 20608, UNE 21136, VDE 0110 |

Current measurement circuit

| | |
|-----------------------------------|------------------|
| Nominal current (I _n) | 10 A |
| Allowable overload | 2 I _n |
| Permanent overload | 2 I _n |

Digital relay outputs

| | |
|-------------------------------------|---------------------|
| AC11 I _e /U _e | 0,8 A / 240 V~ |
| DC11 I _e /U _e | 1,6 A / 110 Vdc |
| Thermal current (I _{th}) | 5 A |
| Insulation voltage | 250 V~ |
| Electrical life | 2 x 10 ⁶ |
| Mechanical life | 2 x 10 ⁶ |

Differential protection

| | |
|------------------------------|--------------|
| Delay time (t _Δ) | 0,5 ... 30 s |
|------------------------------|--------------|