



## WDH/010-30

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Code: P32022. DESCATALOGADO

> 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 Ø 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.



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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 (In)	10 A
Allowable overload	2 In
Permanent overload	2 In
Digital relay outputs	
AC11 Ie / Ue	0,8 A / 240 V~
DC11 Ie / Ue	1,6 A / 110 Vdc
Thermal current (Ith)	5 A
Insulation voltage	250 V~
Electrical life	2 x 10 <sup>6</sup>
Mechanical life	2 x 10 <sup>6</sup>
Differential protection	
Delay time (tΔ)	0,5 ... 30 s