



## WDH/020-30

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Code: P32023. 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  $\varnothing$  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/020-30

Harmonics detector control relay

Code: P32023.

### Specifications

#### AC power supply

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

#### Environmental characteristics

Protection class	IP 40
Operating 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 <sub>n</sub> )	20 A
Allowable overload	2 I <sub>n</sub>
Permanent overload	2 I <sub>n</sub>

#### Digital relay outputs

AC11 I <sub>e</sub> /U <sub>e</sub>	0,8 A / 240 V~
DC11 I <sub>e</sub> /U <sub>e</sub>	1,6 A / 110 Vdc
Thermal current (I <sub>th</sub> )	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 (t <sub>Δ</sub> )	0,5 ... 30 s
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#### WDH

Current detector relay AC

CODE	TYPE
P32022.	WDH/010-30
P32023.	WDH/020-30