



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 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

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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)	20 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
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