

# **WDH**

Harmonics detector control 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 Aac

## Application

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

#### Features

Power supply circuit				
Voltage*	230 Vac (-15 +10 %)			
Frequency*	50 Hz			
Consumption	2 VA			
Testing voltages between the circuits and the grid				
Measurement circuit	2,500 V			
Relay contacts	1,500 V			
Output relay				
Insulation voltage $(U_i)$	250 Vac			
Thermal current $I_{\rm th}$	5 A			
Interrupting power	(10 <sup>5</sup> operations) with resistive load $U_e/I_e$ : 240 Vac / 3.2 A with inductive load $U_e/I_e$ : 240 Vac / 0.8 A 30 Vdc / 1.6 A			
Build features				
Fixing	DIN rail			
Dimensions	4 modules			
Weight	250 g			
Degree of protection	IP 41			
Operating temperature	0 +50 ° C			
Standards				
IEC 605, IEC 1010-1, EN 61010-1, EN 50 081, EN 50 082, IEC 255, UL 94, UNE 20 607, UNE 21 136, VDE 0110				

(\*) Other voltages and frequencies on demand.

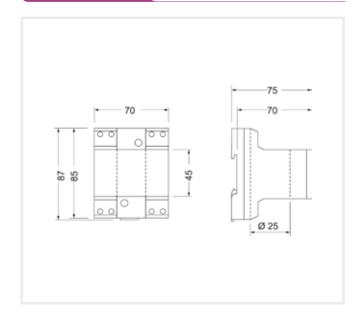




# **WDH**

Harmonics detector control relay

# Dimensions





# References

Trigger time (adjustable)	Nominal current I <sub>n</sub>	Туре	Code
0.5 30 s	10 A	WDH / 010-30	P32022
0.5 30 s	20 A	WDH / 020-30	P32023
0.5 30 s	50 A	WDH / 050-30	P32024
0.5 30 s	s / transformer / 5 A	WDH / TS	P32020

# Connections

