

Cirprotec

EN 50550

European Standard

Power Frequency Overvoltage
Protectors (POP)



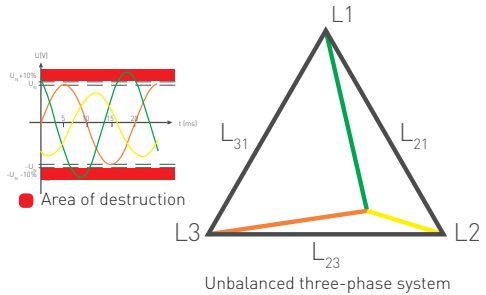
Product standardisation

CPT cirprotec

EN 50550. Power Frequency Overvoltage Protectors (POP)

What are power frequency overvoltages?

These are increases of hundreds of volts for an indefinite period caused by unbalanced phases. They are usually caused by breakage of the neutral conductor in the three phase power supply. This results in reduced receptor-life, their immediate destruction or even fire.



What does the EN 50550 standard say?

EN 50550 "Power frequency overvoltage protective devices for household and similar applications (POP)" **published on March 16, 2011**, is the first standard for power frequency overvoltage protection.

Objective: To mitigate the effects of power frequency overvoltages between phase and neutral conductor caused by breakage of neutral.

Scope of the standard: Power frequency overvoltage protectors (POP) for household and similar applications.

SALIENT POINTS:

- **Progressive Voltage/Time tripping curve.**

The tripping time depends on the magnitude of the overvoltage, ensuring quick tripping in the case of severe disturbances while avoiding unwanted activation in the event of small voltage increases.

- **Common manufacturer** of the power frequency overvoltage protector and the MCB.

- **Prohibition on using earth leakage or current differential** as operating principles.

What does the EN 50550 standard involve?

Before the publication of EN 50550 there was no standard covering power frequency overvoltage protection. The design of such protective devices is now standardised.



BENEFITS:

- Ensures high standards of quality and reliability.
- Guarantees operation and power frequency overvoltage protection.
- Avoids untimely tripping

The new EN50550 product standard supports mandatory private technical specifications of power generation companies in Spain in the field of power frequency overvoltages, and paves the way for standardisation in the rest of Europe.

Cirprotec has the complete power frequency overvoltage protection range

The Cirprotec range has been adapted and tested according to the new EN 50550 standard.



Combined protection (SPD + POP)

V-CHECK MPT

Protector equipped with MCB, ideal for overhead electrification facilities and common areas.



V-CHECK MR

Protector equipped with MCB, ideal for facilities requiring maximum service continuity.



V-CHECK 4R

Protector with high discharge capacity (SPD) for MCCB, with **undervoltage** release actuation. Ideal for industrial facilities and on-site panels.



V-CHECK 4RPT

Protector with high discharge capacity (SPD) for MCCB, with **shunt release** actuation. Ideal for industrial facilities



V-CHECK 4RC

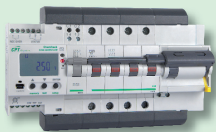
Protector with high discharge capacity (SPD) for **contactor** actuation. Ideal for public lighting systems.



Power Frequency Overvoltage Protection (POP)

OVERCHECK

Programmable control unit for comprehensive protection of the electrical supply: power frequency overvoltages, earth leakage and overcurrent. Max. service continuity.



V-CHECK MB

POP Protector equipped with MCB, to complement transient overvoltage protection solutions (SPD).



Demand products which comply with EN50550 for quality and safety. Trust a specialist.

Trust Cirprotec



More information at
www.cirprotec.com/EN50550



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For more information contact our technical sales department or go to www.cirprotec.com/products.



Surge Protection



Power Frequency
Overvoltage
Protectors (POP)



Surge protection
for telecom
and signalling
networks



External
lightning
protection
systems



Monitoring
of grounding
systems



Insulation
monitoring



Beacon
systems

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