

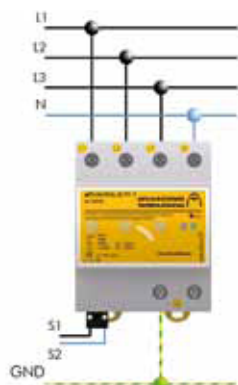
ATCONTROL/B P(T)-T 220

THREE-PHASE PROTECTOR COMBINED AGAINST ANY PERMANENT AND TRANSIENT OVERVOLTAGE ACTUATING ON ANY SHUNT RELEASE

PERMANENT OVERVOLTAGES

ATCONTROL/B P(T)-T protector actuates switching the contact associated to itself (S1, S2) whenever it detects a permanent overvoltage. The shunt release causes the disconnection of the Main Circuit Breaker (MCB) associated, protecting the equipments installed downstream.

The warning system for permanent overvoltages consists in 2 luminous indicators: green (correct power supply) and red (overvoltage). It has a test button to check that the installations have been executed correctly



TRANSIENT OVERVOLTAGES

ATCONTROL/B P(T)-T protector also actuates whenever it detects a transient overvoltage driving the current to earth and reducing the voltage to a level that does not damage the connected equipment.

Tested and certified as Type 2 protector in official and independent laboratories, according to regulations IEC 61643-11 and GUÍA-BT-23 from REBT. Suitable for **Categories I, II, III and IV** equipments according to the ITC-BT-23 from REBT.

It is provided with a thermodynamic control device that disconnects from the electrical network in case of degrading and a warning system. When the warning is yellow the enclosure is in good shape. If not, replace.



Installation

Installation should be made without power in the line.

They must be installed **in parallel** with the Low Voltage supply line, downstream from the MCB associated, connected to line, neutral and ground.

Connect the S1 and S2 terminals, always without voltage, to the shunt release actuating on the MCB.

Technical Datasheet

| | | ATCONTROL/B P(T)-T 220 | |
|---|----------------------------------|--|---------|
| Reference | | AT-8709 | AT-8700 |
| Nominal voltage: | | 220V _{AC} | |
| Maximum overvoltage: | U _n | 230V _{AC} | |
| Nominal frequency: | | 50Hz | |
| Actuating voltage: | U _A | 150V _{AC} | |
| Actuating time: | | @150V _{AC} ≤ 3-5s / @230V _{AC} ≤ 0,1- 0,2s | |
| Nominal voltage for the shunt release: | | 110-415V _{AC} / 110-250V _{DC} | |
| Type of tests according to IEC 61643-11: | | Type 2 | - |
| Protection categories according to REBT: | | I, II, III, IV | - |
| Nominal discharge current (8/20μs wave): | I _n | 15kA | - |
| Maximum discharge current (8/20μs wave): | I _{max} | 40kA | - |
| Protection level for I _n 8/20μs wave: | U _p (I _n) | 1,8kV | - |
| Protection level for 1,2/50μs wave: | U _p | 1,4kV | - |
| Response time: | t _r | < 25ns (L-N) / < 100ns (N-T) | - |
| Backup fuse ⁽¹⁾ : | | 80A gL/gG | - |
| Maximum short-circuit current: | | 25kA (for maximum fuse) | |
| Dimensions: | | 72 x 90 x 80mm (4 mod. DIN43880) | |
| Minimum wiring section: | | 4mm² | |
| Certified test according to regulations: IEC 61643-11 | | | |
| Relevant standards: UNE 21186, NFC 17102, IEC 62305 | | | |

(1) Needed in cases where there is no equal or less nominal current installed "upstream" from the protector.