



## > ATCONTROL/B Series

### > ATCONTROL/B P(T)-M 1DIN

Self-configurable single-phase permanent and transient overvoltage protector



#### > PERMANENT OVERVOLTAGES

**ATCONTROL/B PT-M 1DIN** protector actuates when it detects a permanent overvoltage, tripping the shunt release (S1, S2). The shunt release causes the m circuit breaker to trip, protecting the equipment installed downstream.

The warning system for permanent overvoltages consists of two luminous indicators: green (correct power supply) and red (overvoltage). It has a test button to check that installation has been executed correctly.

#### > TRANSIENT OVERVOLTAGES

**ATCONTROL/B PT-M 1DIN** protector also actuates when 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 a **type 2** protector in **official and independent laboratories** according to standards UNE-EN 61643-11 and GUÍA-BT-23 from the REBT. Suitable for categories I, II, III and IV equipment according to ITC-BT-23 from the REBT.

It has a thermodynamic control device that disconnects from the electrical network in case of deterioration, and also a warning system for transient overvoltages. When the warning light is red, replace the protector.



#### > INSTALLATION

Installation should be carried out **without power running through the line**. They must be installed **in parallel** with the low voltage supply line, downstream from the linked circuit breaker, connected to line, neutral and ground. Connect the S1 and S2 terminals, always without voltage, to the shunt release acting on the circuit breaker.

This protector is self-configurable. It automatically detects the voltage and programmes the permanent overvoltage limits.

#### > TECHNICAL DATASHEET

Reference:		ATCONTROL/B P-M 1DIN AT-8881	ATCONTROL/B PT-M 1DIN AT-8882
Nominal voltage:	$U_n$	120 or 230 V <sub>AC</sub>	
Maximum overvoltage:	$U_c$	400 V <sub>AC</sub>	
Actuation voltage:	$U_a$	150 - 275 V <sub>AC</sub>	
Actuation time:		@150 V <sub>AC</sub> → 3 - 5 s / @230 V <sub>AC</sub> → 0.1 - 0.2 s @275 V <sub>AC</sub> → 3 - 5 s / @400 V <sub>AC</sub> → 0.1 - 0.2 s	
Nominal voltage for the shunt release:		110 - 415 V <sub>AC</sub> / 110 - 250 V <sub>AC</sub>	
Test type according to UNE-EN 61643-11:		-	Type 2
Nominal discharge current (8/20 μs wave):	$I_n$	-	5 kA
Maximum discharge current (8/20 μs wave):	$I_{max}$	-	15 kA
Protection level (wave 1.2/50 μs):	$U_p$	-	1.1 kV
Backup fuse <sup>(1)</sup> :		-	80 A gL/gG
Dimensions:		18 x 90 x 80 mm (1 module DIN 43880)	
S1, S2 cable range:		Maximum section: 2.5 mm <sup>2</sup>	
Cable range:		Maximum section: 6 mm <sup>2</sup>	

Tests certified according to standards: UNE-EN 61643-11

Relevant standards: UNE 21186, NF C 17-102, IEC 62305

(1) Required when there is no equal or less nominal current protection installed upstream from the protector.