



> ATCONTROL/R series

> ATCONTROL/R P(T)-M 1DIN

Self-configurable self-reclosing permanent and transient overvoltage protector for single-phase power supply lines



> PERMANENT OVERVOLTAGES

ATCONTROL/R P-M 1DIN series protectors actuate when they detect a permanent overvoltage, tripping the connected contactor (normally open) (S1, S2). This contactor disconnects the line, thus protecting any equipment installed downstream. When the permanent overvoltage comes to a halt, the protector reconnects the contactor.

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/R PT-M 1DIN protectors also actuate when they detect 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. Appropriate for category I, II, III and IV equipment according to REBT (ITC-BT-23).

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

They must be installed **in parallel** with the low voltage supply line, downstream from the MCB, connected to the phase, neutral and ground. The contactor should be installed **in series** with the low voltage supply line, downstream from the protector. Installation should be carried out without power in the line.

Connect the S1 and S2 terminals to the contactor, always without voltage.

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

> TECHNICAL DATASHEET

Reference:		ATCONTROL/R P-M 1DIN AT-8763	ATCONTROL/R PT-M 1DIN AT-8764
Nominal voltage:	U_n	120 or 230 V _{AC}	
Maximum overvoltage:	U_c	400 V _{AC}	
Actuation voltage:	U_a	150 or 275 V _{AC}	
Actuation time:		@150 V _{AC} → 3 - 5 s / @230 V _{AC} → 0.1 - 0.2 s @275 V _{AC} → 3 - 5 s / @400 V _{AC} → 0.1 - 0.2 s	
Test type according to UNE-EN61643-11:		-	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 ⁽¹⁾ :		-	80 A gl/gG
Dimensions:		18 x 90 x 80 mm (2 modules DIN 43880)	
S1, S2 cable range:		Maximum section: 2.5 mm ²	
Protector cable range:		Maximum section: 6 mm ²	

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.