



> PROTECTION OF POWER SUPPLY LINES

> ATSUB SERIES

> ATSUB-D T

Three-phase compact protector



- > **AT-8217 ATSUB-D T**: peak current 15 kA. U_n 230 V
- > **AT-8017 ATSUB40-D T**: peak current 40 kA. U_n 230 V

Effective protection against transient overvoltages for three-line electrical supply lines with TT type neutral, using metal oxide varistors and gas discharge tubes. Medium protection according to the cascade protection recommended in the Spanish Low Voltage Regulations (REBT ITC23). Especially made to be installed in houses according to ITC-25 from REBT.

Tested and certified as a **type 2 and 3** protector according to the standard EN 61643-11 and GUÍA-BT-23 from the REBT. Suitable for **categories I, II, III and IV equipment** according to the REBT.

- > Can be coordinated with other protectors such as ATSHOCK, ATSHIELD and ATCOVER series.
- > Made up of zinc oxide varistors and gas discharge tubes able to withstand very high currents.
- > Short response time.
- > Do not produce deflagration.
- > Compact protection.
- > Their activation causes no interruption in power supply.
- > Thermodynamic control device, mechanical warning and remote alarm. When the warning light is yellow, the protector is in good condition. If not, replace.

ATSUB series protectors have been tested in **official, independent laboratories**, obtaining their characteristics according to relevant standards (listed in the table).



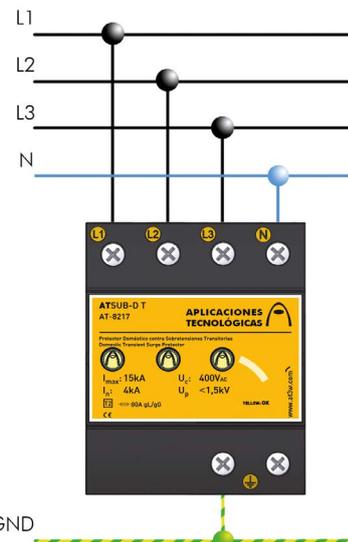
Connection to earth is a must. Earthing in the whole installation must be bonded either directly or by a spark gap and resistance should be lower than 10Ω . If the indications on this datasheet are not fulfilled during use or installation of the protectors, the protection provided by this device could be compromised.

> INSTALLATION

They are installed **in parallel** with the low voltage line, with connections to the phase that is to be protected and to neutral and/or ground.

Installation should be carried out **without power running through the line**.

They are recommended for installations where large overvoltages can occur after the main switchboard and when these lines are not connected to very sensitive equipment.





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> TECHNICAL DATASHEET

| Reference: | | ATSUB-D T AT-8217 | ATSUB40-D AT-8017 |
|--|-------------|---|----------------------|
| Protection categories according to the REBT: | | I, II, III, IV | |
| Type of tests according to EN 61643-11: | | Type 2 | |
| Nominal voltage: | U_n | 400 V _{AC} (L-L) / 230 V _{AC} (L-N, L-GND) | |
| Maximum continuous operating voltage: | U_c | 460 V _{AC} (L-N, L-GND) | |
| Nominal frequency: | | 50 - 60 Hz | |
| Nominal discharge current (8/20 μs wave): | I_n | 5 kA | 15 kA |
| Maximum discharge current per pole (8/20 μs wave): | I_{max} | 15 kA | 40 kA |
| Protection level, 8/20 μs wave at I_n : | $U_p(I_n)$ | 1500 V | 1800 V |
| Response time: | t_r | < 25 ns | |
| Backup fuses ⁽¹⁾ : | | 80 A gL/gG | |
| Maximum short-circuit current: | | 25 kA (for maximum fuse) | |
| Working temperature: | ϑ | -40 °C to +70 °C | |
| Protector location: | | Indoor | |
| Type of connection: | | Parallel (one port) | |
| No. of poles: | | 4 | |
| Dimensions: | | 72 x 90 x 80 mm (2 modules DIN 43880) | |
| Fixing: | | DIN Rail | |
| Enclosure material: | | Polyamide | |
| Enclosure protection: | | IP20 | |
| Insulation resistance: | | > 10 ¹⁴ Ω | |
| Self-extinguishing enclosure: | | V-0 Type according to UNE-EN 60707 (UL94) | |
| Connections L/N/G: | | Min/Max multi-stranded section: 4 / 35 mm ² Min/Max single-stranded section: 1 / 35 mm ² | |

Certificated tests according to: UNE-EN 61643-11

Complies with requirements of: UL 1449

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

(1) Required in cases where there is higher nominal current installed upstream from the protector

> DIMENSIONS (MM)

