

DATASHEET

CATEGORY: ATSHOCK
NAME: ATSHOCK T25
REFERENCE: AT-8089

PRODUCT DESCRIPTION



Tested and certified as a protector Type 1 and 2 according to the standard EN IEC 61643-11.

Suitable for Categories I, II, III, IV according to ITC-BT-23.

Double connection in order to facilitate wiring (limited to 63 A).

Compact multi-pole protection.

Containing gas discharge tubes able to withstand very high currents.

Coordinable with protectors of series ATSUB, ATSHIELD and ATCOVER.

Short response time.

Does not produce deflagration.

Their activation causes no interruption in power supply.

Thermodynamic control device.

Test button for checking protector status. Green light indicates correct operation. If not, replace.

This indicator does not generate any fault current during normal operation.

Complies with IBERDROLA requirements for type 1 overvoltage protection on the Meter Board.

ATSHOCK series protectors have been tested in official and independent laboratories, obtaining their characteristics according to relevant standards.

DATASHEET

Reference	AT-8089
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> ELECTRICAL

Nominal voltage	U_n	400 VAC (L-L)
Nominal voltage of other lines	U_n	230 VAC (L-N,L-GND)

Maximum continuous operating voltage	U_c	460 VAC (L-L)
Maximum continuous operating voltage of other lines	U_c	275 VAC (L-N,L-GND)
Nominal frequency	f	50 - 60 Hz
Nominal discharge current per pole (8/20 μ s wave)	I_n	25 kA
Impulse current per pole (10/350 μ s wave)	I_{imp}	25 kA
Specific energy (W/R)		156 kJ/ Ω
Follow current extinguishing capability		50 kA _{eff}
Protection level for 8/20 μ s wave at I_n	U_p	1500 V
Response time	t_r	100 ns
Backup fuse		160 A gL/gG
Maximum short-circuit current		50 kA

> DIMENSIONS

Weight	1000 gr
Number of DIN modules (DIN 43880)	8

> ENVIRONMENTAL

Working temperature	-40 °C to +70 °C
Protector location	Indoor
Enclosure protection	IP20

> GENERAL

Protection categories according to the REBT	I, II, III, IV
Test type according to UNE-EN61643-11	Type 1 and 2

> CONSTRUCTION

Fixing	DIN Rail
Enclosure material	Polyamide
Insulation resistance	$> 10^{14} \Omega$
Self-extinguishing enclosure	V-0 Type according to EN IEC 60707 (UL94)
Type of connection	Parallel (one port)
Nr. of poles	4
Warning	The protector works correctly if the green light gets on when pushing the button.

> CONNECTION

Minimum multi-stranded section	4 mm ²
Maximum multi-stranded section	35 mm ²
Minimum single-stranded section	1 mm ²
Maximum single-stranded section	35 mm ²
Screw	Philips H2

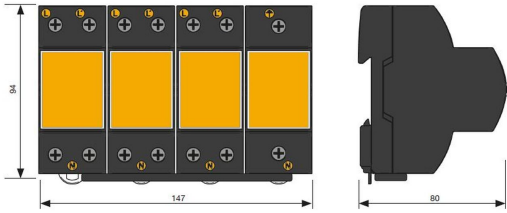
Tightening

3 N·m

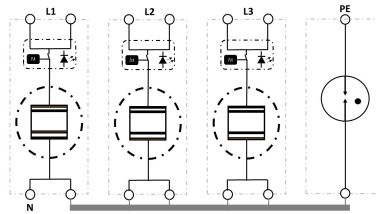
> TESTS AND CERTIFICATIONS

Certificated tests according to EN IEC 61643-11.
 Complies with requirements of UL 1449.
 Relevant standards: NF C 17102, UNE 21186, EN IEC 62305.
 Products compliant with EC requirements.

> Diagram (mm)



> SCHEMATICS



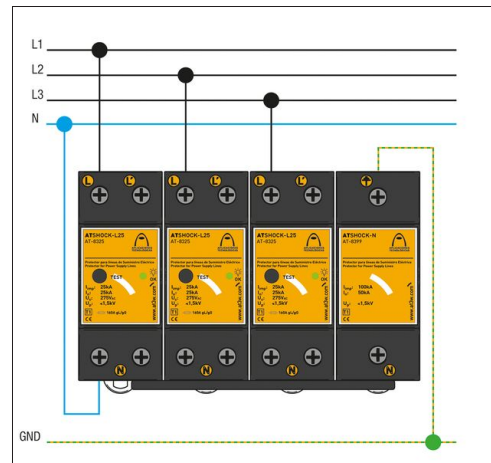
INSTRUCTIONS

> INSTALLATION

ATSHOCK surge protection devices must be installed in parallel with the low voltage power supply line.

When combined with other protectors, they should be separated from the coarse and/or tight protection by at least 10 metres of cable or, if this is not possible, by an ATLINK decoupling inductor, in order to achieve correct coordination between them.

Installation should be carried out without power in the line and can only be done by authorized professionals.



> SAFETY AND MAINTENANCE

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 10 Ω.

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.

OTHER INFORMATION

> RELATED PRODUCTS



AT-8616
ATSHIELD TT 400T



AT-8603
ATSHIELD 400T



AT-8287
ATSUB-4P 65 TT