

DATASHEET

CATEGORY: ATSUB
 NAME: **ATSUB-4P-NR 40 TT**
 REFERENCE: **AT-8030**

PRODUCT DESCRIPTION

ATSUB-4P-NR 40 TT - Protector for TT power supply lines. Protection neutral-earth. With pluggable module. 4-pole. Type 2. $U_c = 460 \text{ VAC (L-L)}$. $I_{max} = 40 \text{ kA}$. $U_p(I_n) = 1400 \text{ V}$. $U_p(1,2/50) = 700 \text{ V}$. Size 4DIN.



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

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

With removable modules for replacement in the event of a breakdown or fault.

Compact multi-pole protection.

Containing zinc oxide varistors able to withstand very high currents.

Coordinable with protectors of series ATSHOCK, ATSHIELD and ATCOVER.

Short response time.

Does not produce deflagration.

Their activation causes no interruption in power supply.

Thermodynamic control device.

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

DATASHEET

Reference	AT-8030
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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 μs wave)	I_n	20 kA

Maximum discharge current per pole (8/20 μ s wave)	I_{max}	40 kA
Protection level for 8/20 μ s wave at In	U_p	1400 V
Level protection for 1.2/50 μ s wave		700 V
Protection level for 5 kA; 8/20 μ s wave		1000 V
Response time	t_r	25 ns
Backup fuse		125 A gL/gG
Maximum short-circuit current		25 kA

> DIMENSIONS

Length	72 mm
Height	96 mm
Width	80 mm
Weight	420 gr
Number of DIN modules (DIN 43880)	4

> 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 2
Power supply system	TT

> 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	Warning mechanism. Yellow: protector status ok. Black: Replace.

> 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

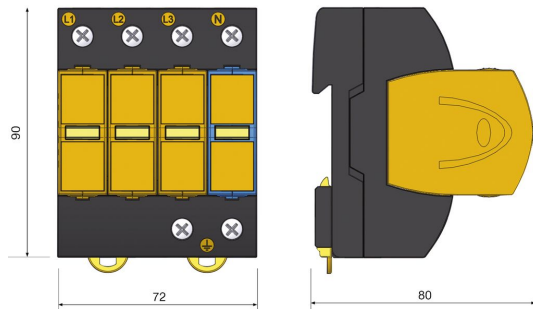
Certificated tests according to EN IEC 61643-11.

Complies with requirements of UL 1449.

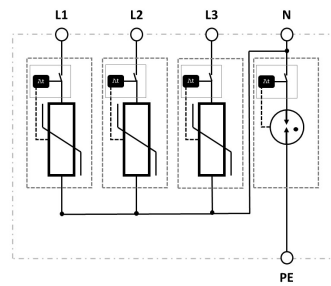
Relevant standards: NF C 17102, UNE 21186, EN IEC 62305.

Products compliant with EC requirements.

> Diagram (mm)



> SCHEMATICS



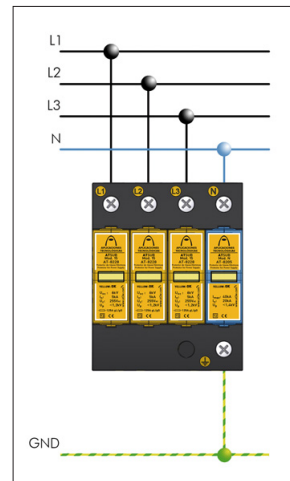
INSTRUCTIONS

> INSTALLATION

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

When installed as medium protection, 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

> OTHER REFERENCES

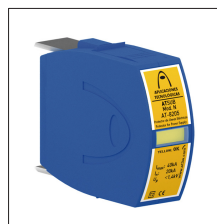
AT-8034: ATSUB-4P-NR 15 TT

AT-8036: ATSUB-4P-NR 65 TT

> ACCESSORIES



AT-8248
ATSUB Mod. 40



AT-8205
ATSUB Mod. N

> RELATED PRODUCTS



AT-8285
ATSUB-4P 40 TT



AT-8017
ATSUB 40-D T



AT-8001
ATSUB-4P 40 TNS