

Surge-Trap[®] Signal - STS NET

SURGE PROTECTION FOR SIGNAL LINES

DATA NETWORKS



STS NET is the series of surge protection devices for Ethernet signal lines. The range offers a variety of products for different Ethernet categories and also for patch panel format. These are protectors for a final step of very fine protection to be installed as close as possible to particularly sensitive equipment connected to these communications lines. Meets the IEC 61643-21 standard.

TECHNICAL DATA OVERVIEW

| | |
|-----------------------|-------------------|
| Class | C2 |
| U _n | 5V (48V PoE) |
| U _c | 6 V |
| I _n (8/20) | 0.25 kA |
| Body Material | Aluminium |
| System type | RJ45 |
| IL | 0.1 A |
| IP Code | 20 |
| Response Time | 1 ns |
| Bandwidth (fg) | 250 MHz |
| End of life mode | Line interruption |
| Protected Wires | 4 pairs |

FEATURES & BENEFITS

- Nominal discharge current (8/20μs): 250A
- Rated current load (IL): 1A (POE)
- Maximum operating voltage: 6V (55V POE)
- Bandwidth (100Ω): 100-250MHz
- Aerial format / DIN rail available
- Protection for Ethernet lines
- 4 protected wires (1 ethernet line)
- RJ45 connection

APPLICATIONS

- Industry and automation
- Telecom & IT & Data Centers
- Photovoltaic & wind
- Smart grid & LV Metering

STANDARDS

- EN 61643-21



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PRODUCT RANGE



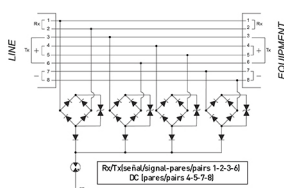
STS-NET-CAT5-1P

1 Pole

| Catalog number | Item number | U _n | U _c | I _n (8/20) | U _p at I _n | IL | Bandwidth (fg) | Protected Wires | Connection type |
|---------------------|-------------|----------------|----------------|-----------------------|----------------------------------|--------------|----------------|-----------------|-----------------|
| CAT 5 | | | | | | | | | |
| STS-NET-CAT5-1P | 83040510 | 5 V | 6 V | 0.25 kA | ≤ 35 V | 0.1 A | 100 MHz | 4 Pairs | RJ45 |
| CAT 6 | | | | | | | | | |
| STS-NET-CAT6-1P | 83040520 | 5 V | 6 V | 0.25 kA | ≤ 35 V | 0.1 A | 250 MHz | 4 Pairs | RJ45 |
| STS-NET-CAT6-PoE-1P | 83040525 | 5 V 48 V | 6 V 55 V | 0.25 kA | ≤ 35 V ≤ 130 V | 0.1 A 1 A | 250 MHz | 4 Pairs | RJ45 |

ELECTRICAL DIAGRAMS

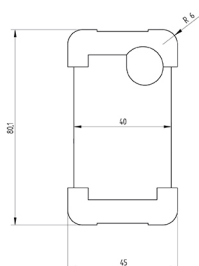
STS-NET 1 pole



DIMENSIONS

CAT5

Front view



CAT6-PoE (DIN Rail)

Front view

