

AlphaTVSS™

Surge Protection Systems



- Isolates the load from damaging transients and all other abnormal line conditions
- Lifetime of 20+ years
- NEMA 4-IP65 rated enclosure
- UL recognized surge suppression Type 2 UL 1449 3rd Ed. 2011

The AlphaTVSS uses an innovative design based on years of market research to safely conduct to ground all power surges.

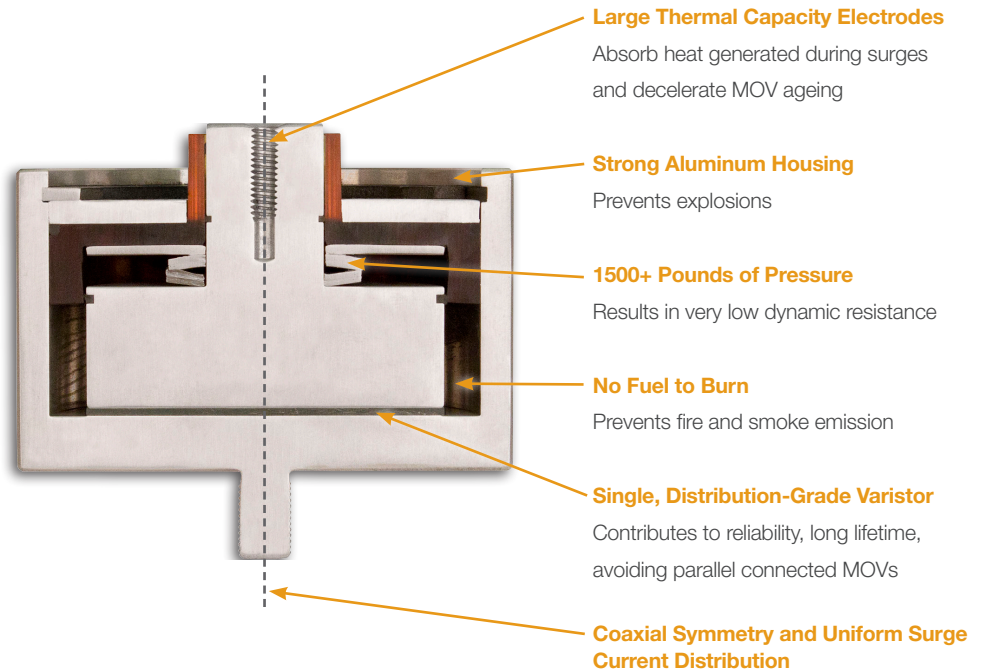
Its rigid metal construction and its ability to handle particularly high energy levels, in conjunction with the use of single, high-capacity industrial heavy-duty Metal Oxide Varistors offer excellent performance against transient lightning currents of up to 200,000 A. The explosion and fire risks common to most conventional protection systems are eliminated. The AlphaTVSS's unique design ensures more than 20 years of trouble and maintenance free operation.

The Strikesorb® surge suppression module's unique design provides low internal contact resistance, excellent thermal management of the MOV, and uniform distribution of the surge current over the total area of the protection element, resulting in an extremely high energy handling capability and very low let-through voltages. Strikesorb's patented design minimizes the effects of ageing and completely eliminates the risk of catastrophic failure, explosion, or fire.

AlphaTVSS Specifications

Strikesorb® Surge Suppression Module

The Strikesorb surge suppression module incorporates state-of-the-art developments in metal oxide technology that provide superior protection throughout its long service life. The module has been designed to withstand repeated surges, providing cost-effective and maintenance-free operation in harsh environments. Strikesorb is the only UL (1449 – 3rd edition) recognized surge protection module rated for safe operation without the use of additional internal fuses. Strikesorb fully complies to the latest UL1449 revisions, 2011. This technology, combined with the capability to be connected directly on the power lines (feed-through connection) makes Strikesorb the most reliable surge protection device available.



| Electrical Characteristics | ATVSS-2-120 | ATVSS-3-120/240 | ATVSS-4-120/208 | ATVSS-2-240 | ATVSS-4-220/380 |
|--------------------------------------|--------------|-----------------|-----------------|----------------|-----------------|
| Nominal Operation Voltage | 120V | 120V/240V | 120V/208V | 240V | 240V |
| Maximum Continuous Operating Voltage | 150V | 150V | 150V | 300V | 300V |
| Vref (Peak) @ 5mA AC (peak) | 263V | 263V | 263V | 526V | 526V |
| Operating Frequency Range | 25-500Hz | 25-500Hz | 25-500Hz | 25-500Hz | 25-500Hz |
| Leakage Current at Vn | 0.30mA | 0.30mA | 0.30mA | 0.35mA | 0.35mA |
| Surge Protection Levels | | | | | |
| Surge Voltage Rating | 500V | 500V | 500V | 800V | 800V |
| Response Time | <1ns | <1ns | <1ns | <1ns | <1ns |
| Maximum Surge Current | 140kA | 140kA | 140kA | 140kA | 140kA |
| Maximum Lightning Current | 7.5kA | 7.5kA | 7.5kA | 7.5kA | 7.5kA |
| Let-Through Voltage | | | | | |
| For Surge Current 10kA' (8/20) | 435V | 435V | 435V | 895V | 895V |
| Enclosure | | | | | |
| | IP65-NEMA4 | IP65-NEMA4 | IP65-NEMA4 | IP65-NEMA4 | IP65-NEMA4 |
| Dimensions (in) | 6W X 8H X 6D | 10W X 12H X 6D | 10W X 12H X 6D | 10W X 12H X 6D | 10W X 12H X 6D |
| Operating Temperature | -40°C –85°C | -40°C –85°C | -40°C –85°C | -40°C –85°C | -40°C –85°C |

Strikesorb® is a registered trademark of Raycap Corporations



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