

Bullhorn Surge Arrester



American Innovations' High Energy Surge Arrester reliably handles stresses found in field environments – effectively protecting rectifiers and Bullhorn remote monitoring units (RMU's).

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Key Benefits

Designed with a full 40 kA surge capability

Four times the level of traditional secondary surge arresters

Incorporates Metal Oxide Varistors (MOV)

Superior energy handling assures long service life even in the most severe conditions

Fully enclosed stainless steel housing

Easy to install – internally or externally

American Innovations' High Energy Surge Arrester reliably handles stresses found in field environments – effectively protecting rectifiers and Bullhorn remote monitoring units (RMU's). The High Energy Surge Arrester provides superior protection of electrical equipment. It is specifically designed for easy installation internally or externally to the rectifier. The High Energy Surge Arrester passes all design tests for arresters per IEEE Std C62.11TM-1993.

Bullhorn Surge Arrester Specifications

Performance Test Characteristics¹

| Description | Characteristic |
|-------------------------------|--|
| High-current, short duration: | 2 discharges of 40 kA crest, 4/10 μ s |
| Low-current, Long-duration: | 20 surges of 75 A-2000 microsecond duration |
| Duty Cycle: | 22 operations of 5 kA crest, 8/20 μ s current wave |

Insulation Withstand Voltages

| | | | |
|------------------|---------------------------|--------------------|---------------------|
| Arrester Rating: | 1.2/50 Impulse (kV Crest) | 1 min Dry (kV rms) | 10 Sec Wet (kV rms) |
| All ratings: | 10 | 6 | 6 |

Protective Characteristics²

| Arrester Rating (V rms) | Maximum Continuous Operating Voltage (v rms) | Maximum Energy Capability (Joules / Phase) | Front of Wave Protective Level (kV Crest) | 8/20 μ s Current Maximum Discharge Voltage (kV Crest) | | | | |
|-------------------------|--|--|---|---|-------|-----|-------|-------|
| | | | | 5kA | 1.5kA | 5kA | 10 kA | 20 kA |
| 240 | 240 | 3405 | 1.8 | 1.5 | 1.7 | 1.9 | 2.2 | 2.6 |

¹ Tests were performed in accordance with applicable sections of IEEE Std C62.11™ - 1993 standard (Metal Oxide Surge Arresters for Alternating Current Power Circuits).

² Based on a current impulse, which results in a discharge voltage cresting in 0.5 μ s.

For More Information

Services

Expect Relentless Service from our Remote Monitoring Technical Services team.

- Technical support is provided by NACE-certified professionals via phone and email.
- Approximately 98 times out of 100, a highly-qualified professional will answer your very first phone call and handle your questions. No call backs; no phone tag.
- We set you up for success with product training, offered at your place of business or ours.

Contact

For more information, email us at remote_monitoring_sales@aiworldwide.com, call us at [800-229-3404](tel:800-229-3404), or visit us online at aiworldwide.com.

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[Surge Arrester High Energy Installation Quick Reference Guide](#)

About American Innovations

American Innovations (AI) protects people and the environment by helping our customers safely and efficiently manage the world's energy infrastructure. We deliver proven compliance solutions to virtually every oil and gas transmission pipeline company in North America – from the field to the office. We provide an integrated family of hardware, software and professional services backed by relentless customer service. Our products include: Bullhorn® Remote Monitoring, MicroMax® Current Interrupters, Allegro Field Data PC™, PCS™ compliance software, and Risk Intelligence Platform (RIPL™) software. AI also provides a wealth of professional services including data migration, risk analysis, high consequence area (HCA) analysis, and regulatory compliance consulting.



aiworldwide.com

12211 Technology Blvd. • Austin, TX 78727
800-229-3404 • info@aiworldwide.com