



SHAPING THE FUTURE OF LIGHT



Utilize a patented technology which makes our varistors incredibly stable. Our technology was tested and certified without an internal fuse by Underwriters Laboratories (UL). We offer the lowest connected voltage protection rating in the industry, keeping levels at 10% above the rated RMS voltage. With a response time of less than a nanosecond when installed with 6 inch leads (15.24 cm), Clean~Volt is the clear industry leader.

ULTIMATE PROTECTION

Clean~Volt was originally approved as a Type 1 Surge Protection Device by CSA C233.1-1987. Also, we have the Surge Arrester Certification by CSA. This implies two important facts:

- The product passed a series of 8 x 20 μ s lightning simulation tests. Those strikes are up to 30 KA.
- The product can be installed on the supply side.

While other surge protection devices let-through equipment damaging occurrences, Clean~Volt is a surge arrester with unique properties that can address these common issues by clamping down within the connected equipment rating.

WHAT TO LOOK FOR IN A SURGE PROTECTOR

When selecting protection, it is important to look for these specifications and abilities:

- Does not use internal fuses
- Remove transients, EMI and RFI noises
- Reduces harmonics effect
- Helps electronic components reach intended life span
- Correction in power consumption up to 20%
- Ability to dissipate heat
- Clamps at 130volt or 10% above the rated voltage coming to the service panel.
- Reaction time is less than nanosecond (with 6 inch leads)
- Lifetime warranty (40 - year warranty beats industry standard of lifetime meaning 25- years)
- Reduction in maintenance cost and production downtime.
- Total protection from lightning.
- Application area: Agriculture, Industrial, Commercial and Residential



Certified to CSA C22.2 No.269.2-17



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PRODUCT	CV1	CV2	CVS 120 V	CVS 240 V	CV4	CV6
Electrical Specifications						
Voltage and Phase	120/240 V 1 Ø	120/208 V 3 Ø	120 V 1 Ø	240 V 1 Ø	347/600 V WYE 3 Ø 4 Wire	600 V Delta 3 Ø 3 Wire
Maximum Panel Rating	Up to 600 Amps	Up to 1000 Amps	Up to 600 Amps	Up to 600 Amps	Up to 3000 Amps	Up to 3000 Amps
Nominal Discharge Rating (In)	N/A	N/A	N/A	N/A	N/A	N/A
Response Time With 6-Inch Lead	< 1 NS	< 1 NS	< 1 NS	< 1 NS	< 1 NS	< 1 NS
Clamping Voltage	132/250 V	132/230 V	132 V	250 V	395/660 V	710 V
Discharge Capacity 1 Ø to Neutral/Ground 8x20 Micro Second Pulse	10,000 A	20,000 A	10,000 A	10,000 A	30,000 A	30,000 A

PRODUCT	CV3	CV5-3	CV7-4	CV8	CVR RESIDENTIAL
Electrical Specifications					
Voltage and Phase	277/480 V 3 Ø 4 wire	240 V 3 Ø Delta	480 V 3 Ø Delta	120/208/120 3 Ø Tapped Delta	120/240 V Residential
Maximum Panel Rating	Up to 3000 Amps	Up to 1000 Amps	Up to 3000 Amps	Up to 1000 Amps	Up to 400 Amps
Nominal Discharge Rating (In)	N/A	N/A	N/A	N/A	N/A
Response Time With 6-Inch Lead	< 1 NS	< 1 NS	< 1 NS	< 1 NS	< 1 NS
Clamping Voltage	320/510 V	275 V	575 V	132/250 V	132/250 V
Discharge Capacity 1 Ø to Neutral/Ground 8x20 Micro Second Pulse	30,000 A	20,000 A	30,000 A	20,000 A	10,000 A

Agency Certification	cULus 1449 4th Ed., Type 1 / C62.1 / CSA protection-Arresters 9084-01
CSA Standard	C22.2 #No. 0-M1982, 233.1-1987 and C22.2 No. 269.2-17
ANSI/IEEE Category	*Previously Tested & Passed Under C62.1*
Flammability	Category UL #94V-0