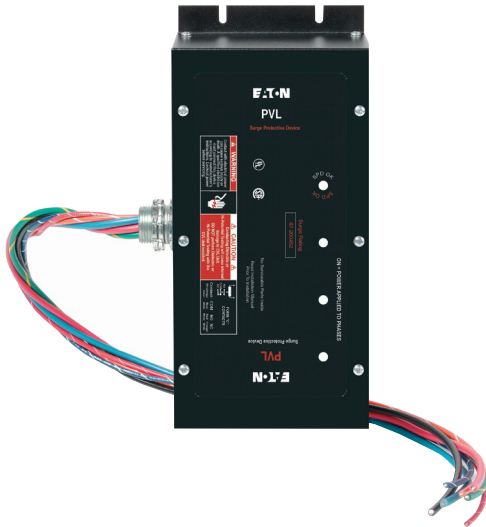


Eaton PVL



Surge Protective Device to Prevent Downtime or Equipment Damage

Eaton® PVL is our standard surge protective device (SPD) that combines surge suppression components and EMI/RFI filtering to provide effective protection for sensitive electronic loads. Surges—also known as transients—due to lightning, utility grid switching, switching of external/internal inductive or capacitive loads and other sources travel on power line conductors throughout the electrical distribution system, causing system operating problems and equipment downtime.

Six surge current ratings are available to meet a variety of applications—50, 80, 100, 120, 160, and 200 kA/ phase.

PVL Features

- SurgePlane™ technology to ensure reliability and performance by using a low impedance copper platform
- Compact design that enables close mounting to electrical distribution equipment
- Parallel hybrid filter technology
- Individually fused surge suppression components
- Status indicator lights to monitor supply power, surge suppression component status, and fusing
- Remote monitoring capability using Form C contacts
- Audible alarm
- Ideal for OEM panel applications
- Proven track record in international applications
- Independently tested at lightning laboratories to verify published surge current ratings
- UL 1449 Second Edition Listed, UL 1283 Listed, CSA Approved, CE Marked

A leading global provider of power quality and management solutions, Eaton addresses the needs of today's digital economy through our comprehensive line of power quality solutions. We have applied our extensive power quality experience to the development of the PVL.

| PVL SPECIFICATIONS | PVL050 | PVL080 | PVL100 | PVL120 | PVL160 | PVL200 |
|--|-------------|-------------|-------------|-------------|-------------|-------------|
| Surge Current Per Phase | 50 kA | 80 kA | 100 kA | 120 kA | 160 kA | 200 kA |
| Surge Current Per Mode | 25 kA | 40 kA | 50 kA | 60 kA | 80 kA | 100 kA |
| Let-through Voltage Ratings | | | | | | |
| IEEE Cat C3 Combination Wave (20 kV, 10 kA) | 655V | 655V | 655V | 655V | 655V | 655V |
| IEEE Cat C1 Combination Wave (6 kV, 3 kA) | 440V | 440V | 440V | 440V | 440V | 440V |
| IEEE Cat B3 Ringwave (6 kV, 500A, 100 kHz) | 380V | 380V | 380V | 380V | 380V | 380V |
| UL 1449 2nd Edition (6 kV, 500A) (L-N mode 120/208V) | 500V | 500V | 500V | 500V | 500V | 500V |
| Filter Attenuation | | | | | | |
| (MIL-STD-220A@100 kHz) | 0-40 dB | 0-40 dB | 0-40 dB | 0-40 dB | 0-40 dB | 0-40 dB |
| Multiple Surge Withstand Capabilities | | | | | | |
| (IEEE C3 Wave 20kV, 10 kA) | >1500 | >1500 | >1500 | >1500 | >1500 | >1500 |
| Circuit Construction | | | | | | |
| | Surge-Plane | Surge-Plane | Surge-Plane | Surge-Plane | Surge-Plane | Surge-Plane |
| UL 1449 Second Edition, UL 1283 Listed, CSA Approved, CE Marked | | | | | | |
| | Yes | Yes | Yes | Yes | Yes | Yes |
| Enclosure | | | | | | |
| NEMA 1 | Standard | Standard | Standard | Standard | Standard | Standard |
| Warranty | | | | | | |
| | 10 Years | 10 Years | 10 Years | 10 Years | 10 Years | 10 Years |

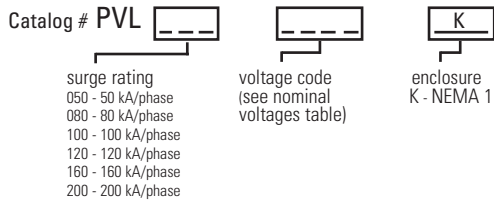
† Contact Eaton for let-through voltage ratings for other system voltages. All PVLs have been independently tested to verify all suppressor components can survive published surge current ratings. Test documents are available upon request.

PHYSICAL SPECIFICATIONS

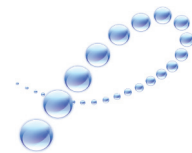
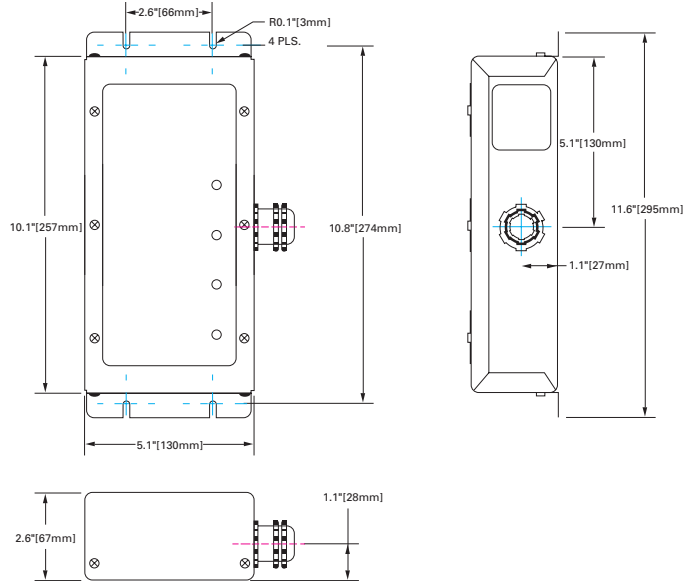
| | |
|--------------------|--|
| Temperature | -40° to 60°C |
| Altitude | <13,000 feet (4,000 m) |
| Dimensions (HxWxD) | 5.1 x 11.6 x 2.6 in. (130 x 295 x 67 mm) |
| Weight | 3.5 lbs (1.6 kg) |

| NOMINAL VOLTAGES (Use these codes to complete the model number) | VOLTAGE CODE | |
|--|--------------|---------|
| | 120/208 | 277/480 |
| 120/240 Single/Split-phase (3W plus G) | 240S | |
| Three-phase Wye (4W plus G) | 208Y | 480Y |
| Three-phase Wye (3W plus G) | 240D | 480D |

PVL Ordering Guidelines:



Below are dimensions for standard PVL suppressor.



PowerChain Management®

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8609 Six Forks Road
Raleigh, NC 27615 U.S.A.
Toll Free: 1.800.356.5794
or 919.872.3020

www.eaton.com/powerquality

CANADA
Ontario: 416.798.0112
Toll free: 1.800.461.9166

LATIN AMERICA
Argentina: 54.11.4124.4000
Brazil: 55.11.3616.8500
México: 52.55.9000.5252

EUROPE/MIDDLE EAST/AFRICA
Denmark: 45.3686.7910
Finland: 358.94.52.661
France: 33.1.6012.7400
Germany: 49.0.7841.604.0
Italy: 39.02.66.04.05.40
Norway: 47.23.03.65.50
Portugal: 55.11.3616.8500
Sweden: 46.8.598.940.00
United Kingdom: 44.1753.608.700

ASIA PACIFIC
Australia: 61.2.9693.9366
New Zealand: 64.0.3.343.3314
China: 86.21.6361.5599
HK/Korea/Taiwan: 852.2745.6682
India: 91.11.2649.9414 to 18
Singapore/SEA: 65.6825.1668

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