

PVT1 PHOTOVOLTAIC SURGE PROTECTION CLASS I+II, 1,500 VDC MAX CONTINUOUS OPERATING VOLTAGE (UCPV)

CATALOG NUMBER

PVT11500R



CERTIFICATIONS



FEATURES

Uniquely designed for protection of centralized solar inverters on the DC input side and string boxes

Thermal protection included to ensure safe failure modes

Compact, yet high surge rated pluggable design, using minimum DIN rail width

PRODUCT ATTRIBUTES

Max Continuous Operating Voltage (Ucpv): 1,500 VDC

Nominal Discharge Current (In), IEC: 20 kA 8/20 μ s

Impulse Current (Iimp): 5 kA 10/350 μ s

Total Discharge Current (Itotal): 10 kA 10/350 μ s; 40 kA 8/20 μ s

Voltage Protection Level (Up): 5,000 V

Response Time: 25 ns Max

Short Circuit Current Rating (Iscrr): 11 kA

Max Continuous Operating Voltage (Vpvdc): 1,500 VDC

Voltage Protection Rating (VPR): 4,000 V

Nominal Discharge Current (In), UL: 20 kA 8/20 μ s

Short Circuit Current Rating (SCCR): 65 kA

Protection Modes: -ve to PE;-ve to +ve;+ve to PE

Altitude: 6,562' Max

Humidity: 5 – 95 % RH

Temperature: -40 to 185 °F

Connection, Flexible: #4

Connection, Solid: #2

Connection, Stranded: #2

Enclosure Material: UL® 94V-0 Thermoplastic

Enclosure Rating: IP 20

Mounting: 35 mm top hat DIN rail

Torque (TQ): 3.30 ft lb Max

Remote Contact Switching Capacity: 1.0 A @ 125 VAC;1.0 A @ 250 VAC;0.5 A @ 12 VDC;0.5 A @ 24 VDC;0.5 A @ 48 VDC

Remote Contacts: Yes

Status Indication: Mechanical flag

Depth (D): 3.350"

Height (H): 3.540"

Width (W): 2.130"

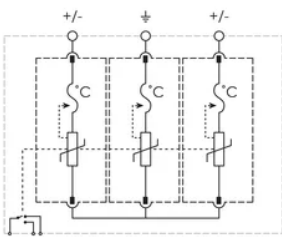
Unit Weight: 1.100 lb

Replacement Module: PVT1750M;PVT1750SM

Certification Details: UL® 1449 Edition 5 Type 1CA

Complies With: EN 50539-11 Type 1, Type 2

DIAGRAMS



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at www.nvent.com and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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