

PVT1 PHOTOVOLTAIC SURGE PROTECTION CLASS I+II, 1,500 VDC 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): 1500

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

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

Total Discharge Current (Itotal): 10;40

Voltage Protection Level (Up): 5000V

Response Time: 25 ns Max

Short Circuit Current Rating (Iscrr): 11kA

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

Voltage Protection Rating (VPR): 4000V

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

Short Circuit Current Rating (SCCR): 65kA

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

Altitude: 6562' Max

Humidity: 5 - 95

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): 3.3 ft·lbf Max

Remote Contact Switching Capacity: 1 A @ 125 VAC; 1 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): 3.35"

Height (H): 3.54"

Width (W): 2.13"

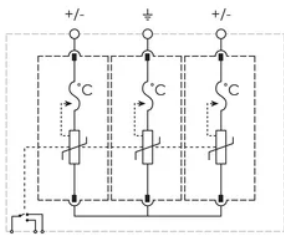
Unit Weight: 1.1 lb

Replacement Module: PVT1750M;PVT1750SM

Certification Details: UL® 1449 Edition 4 Type 1CA

Complies With: EN IEC 61643-31, 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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