

APS- SPD PV 3P- CLASS I+2 600VDC

PVB12.5/600-V-CD-S



MAIN FEATURES

Type 1+2 surge arrester designed for low voltage system protection, against surges at the boundaries from lightning protection zone OB-2 and higher.

- Class I+II SPD for use in photovoltaic systems
- In accordance: IEC61643-11, EN50539-11, UL1449-4th
- Common mode and differential mode surge protection
- High surge capability of 12.5kA 10/350 per mode
- Reliable supervision due to disconnection device
- Fault indication by red indication flag in window
- With remote alarm terminal optional

TECHNICAL SPECIFICATIONS

| | | |
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| Part. No | PVB12.5-600-V-CD-S | |
| In accordance with | EN 50539-11:2012; IEC 61643-11:2011; UL1449-4th | |
| Category IEC / VDE | I+II / B+C | |
| Protection Mode | Common Mode | |
| Nominal Voltage (VDC) | Un | 600 |
| Max. Continuous Operating Voltage (VDC) | Uc | 640 |
| Nominal Discharge Current (8/20) | In | 12.5kA |
| Max. Discharge Current (8/20) | I _{max} | 100kA |
| Lightning Impulse Current (10/350) | I _{imp} | 12.5kA |
| Voltage Protection Rating (+ to E, - to E) | In | 1.8kV |
| | VPR | 1.3kV |
| Response Time | ≤25 ns | |
| Follow Current | No | |
| Backup Fuse (only if not provided by mains) | 160A gR / gPV (700 Vdc) | |
| Operating Temperature Range | - 40 °C ~ + 80 °C | |
| Cross-section of Connection Wire | Single-strand 35mm ² ; multi-strand 25mm ² | |
| Mounting | 35mm DIN-rail in accordance with EN 50022 / DIN46277-3 | |
| Enclosure Material | Thermoplastic; extinguishing degree UL94 V-0 | |
| Degree of Protection | IP20 | |
| Installation Width | 4 modules, DIN 43880 | |
| Thermal Disconnecter | Internal green – normal; red – failure | |
| Remote Alarm Contact | Optional | |
| Approvals, Certifications | CE | |
| Additional Data for Remote Alarm Contacts | | |
| Remote Alarm Contact Type | Isolated Form C | |
| Switching Capability Un / In | AC: 250V/0.5A | |
| | DC: 250V/0.1A; 125V/0.2A; 75V/0.5A | |
| Max. Size of Connecting Wire | Max. 1.5mm ² (or # 16AWG) | |