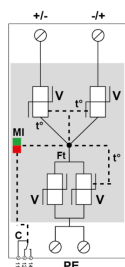
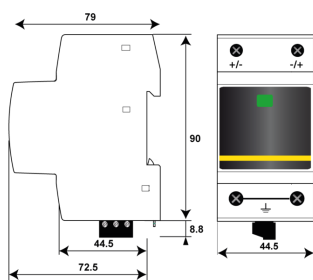




#### NEW CITEL PV SPD

- ✦ Type 2+3 surge protector for Photovoltaic
- ✦ CTC Technology
- ✦ Discharge currents  $I_{max}/I_{total}$ : 40/60 kA (8/20 $\mu$ s)
- ✦ Common/Differential mode protection
- ✦ Remote signaling
- ✦ IEC 61643-31, EN 61643-31, EN 50539-11, UL1449 ed.5 compliance
- ✦ Certified EN 61643-31 and IEC 61643-31



V: High-energy varistor  
Ft: Thermal fuse  
C: Remote signal contact  
t\*: Thermal disconnection system  
MI: Mechanical disconnection indicator

#### Electrical Characteristics

|                                                                                              |             |             |
|----------------------------------------------------------------------------------------------|-------------|-------------|
| SPD type                                                                                     | IEC         | 2+3         |
| Network                                                                                      |             | PV 1000 Vdc |
| Nominal PV voltage                                                                           | $U_{ocstc}$ | 1000 Vdc    |
| Max. PV operating voltage                                                                    | $U_{cpv}$   | 1200 Vdc    |
| Residual Current Leakage current to Ground                                                   | $I_{pe}$    | < 0.2 mA    |
| PV Permanent Operating current Current consumption at $U_{cpv}$                              | $I_{cpv}$   | < 0.1 mA    |
| Follow current                                                                               | $I_f$       | None        |
| Nominal discharge current 15 x 8/20 $\mu$ s impulses                                         | $I_n$       | 20 kA       |
| Max. discharge current max. withstand @ 8/20 $\mu$ s by pole                                 | $I_{max}$   | 40 kA       |
| Withstand on Combination waveform IEC 61643-11 Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s | $U_{oc}$    | 6 kV        |
| Current withstand short circuit PV                                                           | $I_{scpv}$  | 15 000 A    |
| Connection mode(s)                                                                           |             | +/-/PE      |
| Protection level +/- @ $I_n$ (8/20 $\mu$ s)                                                  | $U_p$       | 4.3 kV      |
| Protection level +/-PE (-/PE) @ $I_n$ (8/20 $\mu$ s)                                         | $U_p$       | 4,1 kV      |
| Protection level at 5 kA @ 5 kA (8/20 $\mu$ s)                                               | $U_p$       | 3,5 kV      |
| Protection level at $U_{oc}$ @ $U_{oc}$ (1.2/50 $\mu$ s)                                     | $U_p$       | 3,1 kV      |

#### Mechanical Characteristics

|                                           |       |                                                                         |
|-------------------------------------------|-------|-------------------------------------------------------------------------|
| Technology                                |       | MOV                                                                     |
| Connection to Network                     |       | By screw terminals: 2.5-25mm <sup>2</sup> (35mm <sup>2</sup> ) / by bus |
| Format                                    |       | Compact monobloc box                                                    |
| Mounting                                  |       | Symmetrical rail 35 mm (EN 60715)                                       |
| Housing material                          |       | Thermoplastic UL94 V-0                                                  |
| Operating temperature                     | $T_u$ | -40/+85°C                                                               |
| Protection rating                         |       | IP20                                                                    |
| Failsafe mode                             |       | All pole disconnection from PV network                                  |
| Disconnection indicator                   |       | 1 mechanical indicator - Red/Green                                      |
| Remote signaling of disconnection         |       | Output on changeover contact                                            |
| Max. Voltage/Current for remote signaling |       | 250 V / 0.5 A (AC) / 30 V / 3 A (DC)                                    |
| Dimensions                                |       | See diagram - 2.5TE (EN43880)                                           |

#### Disconnectors

|                           |  |                           |
|---------------------------|--|---------------------------|
| Thermal disconnector      |  | CTC Technology integrated |
| Back-up protection device |  | Without                   |

#### Standards

|                      |  |                                                        |
|----------------------|--|--------------------------------------------------------|
| Standards compliance |  | IEC 61643-31 / EN 61643-31 / EN 50539-11 / UL1449 ed.5 |
| Certification        |  | KEMA                                                   |

#### Part number

65112102