



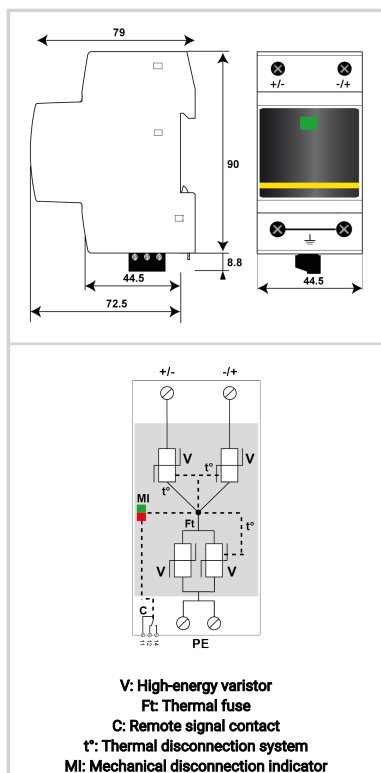
# CITEL



## Type 2+3 PV surge protector - CTC Technology

### DPVN40CS-21Y-1200

- 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



#### Electrical Characteristics

|                                                                                                 |                        |             |
|-------------------------------------------------------------------------------------------------|------------------------|-------------|
| SPD type                                                                                        | IEC                    | 2+3         |
| Network                                                                                         |                        | PV 1000 Vdc |
| Nominal PV voltage                                                                              | Uocstc                 | 1000 Vdc    |
| Max. PV operating voltage                                                                       | Ucpv                   | 1200 Vdc    |
| Residual Current<br>Leakage current to Ground                                                   | Ipe                    | < 0.2 mA    |
| PV Permanent Operating current<br>Current consumption at Ucpv                                   | Icpv                   | < 0.1 mA    |
| Follow current                                                                                  | If                     | None        |
| Nominal discharge current<br>15 x 8/20 $\mu$ s impulses                                         | In                     | 20 kA       |
| Max. discharge current<br>max. withstand @ 8/20 $\mu$ s by pole                                 | I <sub>max</sub>       | 40 kA       |
| Total Maximum discharge current<br>max. total withstand @ 8/20 $\mu$ s                          | I <sub>max</sub> Total | 60 kA       |
| Withstand on Combination waveform IEC 61643-11<br>Class III test: 1.2/50 $\mu$ s - 8/20 $\mu$ s | Uoc                    | 6 kV        |
| Current withstand short circuit PV                                                              | Iscpv                  | 15 000 A    |
| Connection mode(s)                                                                              |                        | +/-/PE      |
| Protection level +/-<br>@ In (8/20 $\mu$ s)                                                     | Up                     | 4.3 kV      |
| Protection level +/-PE (-/PE)<br>@ In (8/20 $\mu$ s)                                            | Up                     | 4.1 kV      |
| Protection level at 5 kA<br>@ 5 kA (8/20 $\mu$ s)                                               | Up                     | 3.5 kV      |
| Protection level at Uoc<br>@ Uoc (1.2/50 $\mu$ s)                                               | Up                     | 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                     | Tu | -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                                                   |
| Environmental standards |  | EU RoHS                                                |

#### Part number

**65112102**

