



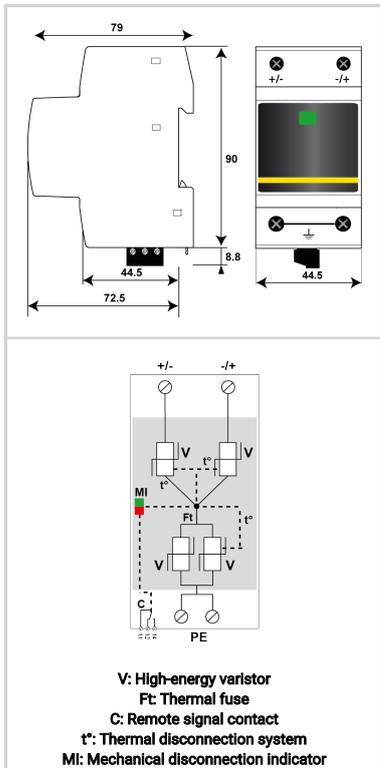
CITEL

Type 2+3 PV surge protector - CTC Technology

DPVN40CS-21Y-850



- Type 2+3 surge protector for Photovoltaic
- CTC Technology
- Discharge currents I_{max}/I_{total} : 40/60 kA (8/20 μ 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 710 Vdc |
| Nominal PV voltage | Uocstc | 710 Vdc |
| Max. PV operating voltage | Ucpv | 850 Vdc |
| Residual Current <i>Leakage current to Ground</i> | Ipe | < 0.2 mA |
| PV Permanent Operating current <i>Current consumption at Ucpv</i> | Icpv | < 0.1 mA |
| Follow current | If | None |
| Nominal discharge current <i>15 x 8/20 μs impulses</i> | In | 20 kA |
| Max. discharge current <i>max. withstand @ 8/20 μs by pole</i> | I _{max} | 40 kA |
| Total Maximum discharge current <i>max. total withstand @ 8/20 μs</i> | I _{max} Total | 60 kA |
| Withstand on Combination waveform IEC 61643-11 <i>Class III test: 1.2/50μs - 8/20μs</i> | Uoc | 6 kV |
| Current withstand short circuit PV | Iscpv | 15 000 A |
| Connection mode(s) | | +/-/PE |
| Protection level +/- <i>@ In (8/20μs)</i> | Up | 3.3 kV |
| Protection level +/-PE (-/PE) <i>@ In (8/20μs)</i> | Up | 3.0 kV |
| Protection level at 5 kA <i>@ 5 kA (8/20μs)</i> | Up | 2.6 kV |
| Protection level at Uoc <i>@ Uoc (1.2/50 μs)</i> | Up | 2.3 kV |
| Mechanical Characteristics | | |
| Technology | | MOV |
| Connection to Network | | By screw terminals: 2.5-25mm ² (35mm ²) / 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 |
| 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 | | |
| 65112104 | | |

