



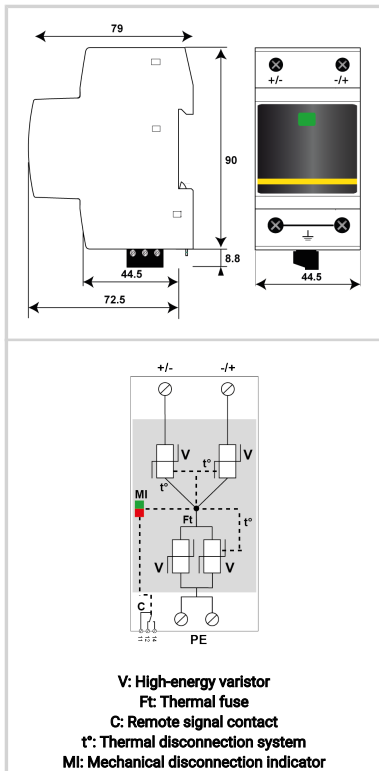
CITEL

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 (8/20μs)
- ▶ 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	U _{ocstc}	1000 Vdc
Max. PV operating voltage	U _{cpv}	1200 Vdc
Residual Current <i>Leakage current to Ground</i>	I _{pe}	< 0.2 mA
PV Permanent Operating current <i>Current consumption at U_{cpv}</i>	I _{cpv}	< 0.1 mA
Follow current	I _f	None
Nominal discharge current <i>15 x 8/20 μs impulses</i>	I _n	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>	U _{oc}	6 kV
Current withstand short circuit PV	I _{scpv}	15 000 A
Connection mode(s)		+/-/PE
Protection level +/- <i>@ I_n (8/20μs)</i>	U _p	4.3 kV
Protection level +/-PE (-/PE) <i>@ I_n (8/20μs)</i>	U _p	4.1 kV
Protection level at 5 kA <i>@ 5 kA (8/20μs)</i>	U _p	3.5 kV
Protection level at U _{oc} <i>@ U_{oc} (1.2/50 μs)</i>	U _p	3.1 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	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
Environmental standards		EU RoHS

Part number

65112102

