

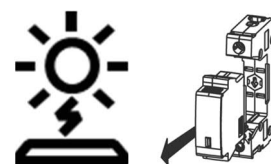
OVR PV T2 40-1000 P TS (2CTB802401R1000)

EAN: 4053546050165

Type 2 SPDs for Photovoltaic applications are capable of discharging the lightning currents within an electrical system resulting from indirect lightning events. They have effective voltage protection ratings keeping damaging voltage peaks from exceeding the withstand voltages of the protected equipment.

They are typically installed inside the string/combiner boxes or inside the PV Inverter.

Additional PV SPDs may be required for an optimal protection if cable lengths between SPDs are greater than 10 meters.



Key features

Protection mode	DC+ to DC- / DC+ to G / DC- to G		
Number of protected lines	2		
End of life indicator	Green = functional / Red = replace		
Technology	Thermally protected varistor		
Packing quantity	1		Piece

Electrical performances

Total Impulse discharge current	I_{total} (10/350 μ s)	-	
Impulse discharge current	I_{imp} (10/350 μ s)	-	kA
Maximal discharge current	I_{max} (8/20 μ s)	40	kA
Nominal discharge current	I_n (8/20 μ s)	20	kA
Maximal continuous operating voltage	UCPV	1000	VDC
Intended power system application (UL)	VPVDC	1000	VDC
Voltage protection level	U_p (DC+ to DC- / DC+ to G / DC- to G)	4	kV
Voltage protection rating (UL)	VPR	3	kV
Surge circuit current rating	I_{scpv}	10	kA
Surge circuit current rating (UL)	SCCR	10	kA
Back up protection	Not needed up to I_{scpv}		
Leakage current	I_{cpv} , I_{pc}	Check Installation Leaflet	μ A
Response time		< 25	ns

Mechanical features

Dimensions	L x W x D	99 x 54 x 73	mm
Max. Solid/ Stranded wire (max)		35 / 25	mm ²
Stripping length		12	mm
Tightening torque		4	Nm
Maximal altitude		2000	m
Operating temperature		-40 to +80	°C
Relative humidity		95 (non condensing)	%HR
Degree of protection		IP 20	
Enclosure material rating and color		UL 94 V-0 / Grey RAL 7035	
Weight		300	g

Replacement cartridge

Product ID / Model no	OVR PV T2 40-1000 C	2CTB802402R1000
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Auxiliary contact (TS)

Contacts information	1 NO - 1 NC		
Min. & Max load d.c	250 V / 0.1 A; 125 V / 0.2 A; 75 V / 0.5 A		
Connection cross-section max	1.5		mm ²
Tightening torque	0.2		Nm
Stripping length	12		mm

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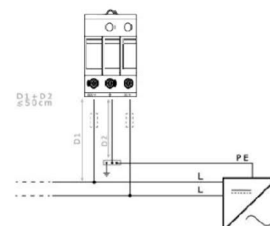
Type 2 / UL Type 1 C.A

 I_{max} : 40 kA

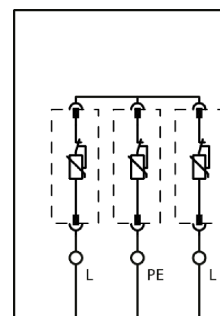
 U_p < 4 kV

IEC 61643-31
UL 1449 5th ed

Installation wiring



Internal diagram



Physical dimensions

