TECHNICAL PRODUCT DATASHEET 9AKK107992A4590

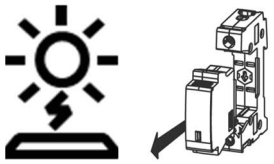
OVR PV T2 40-1000 P (2CTB802400R1000)

EAN: 4053546050110

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	Itotal (10/350µs)	-	
Impulse discharge current	Iimp (10/350µs)	-	kA
Maximal discharge current	Imax (8/20µs)	40	kA
Nominal discharge current	In (8/20µs)	20	kA
Maximal continuous operating voltage	UCPV	1000	VDC
Intended power system application (UL)	VPVDC	1000	VDC
Voltage protection level	Up (DC+ to DC- / DC+ to G / DC – to G)	4	kV
Voltage protection rating (UL)	VPR	3	kV
Surge circuit current rating	Iscpv	10	kA
Surge circuit current rating (UL)	SCCR	10	kA
Back up protection		Not needed up to Iscpv	
Leakage current	Icpv, Ipe	Check Installation Leaflet	µA
Response time		< 25	ns
Mechanical features			
Dimensions	L x W x D	90 x 54 x 73	mm
Max. Solid/ Stranded wire (max)		35 / 25	mm²
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	
Auxiliary contact (TS)			
Contacts information		-	
Min. & Max load		-	
Connection cross-section max		-	mm²
Tightening torque		-	Nm
Stripping length		-	mm

T Type 2 / UL Type 1 C.A

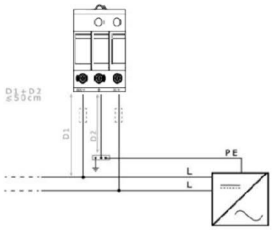
Imax : 40 kA

Up < 4 kV

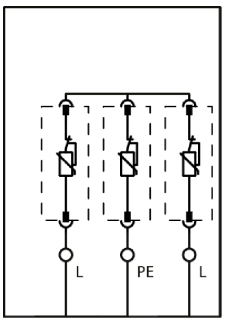
IEC 61643-31

UL 1449 5th ed

Installation wiring



Internal diagram



Physical dimensions

