

OVR PV 40-1000 P TS U

2CTB802340R3300

18/06/2015

Type

UL : Type 1 CA
IEC : Type 2I_{max} : 40 kAU_p : 4 kV

System

PV : 1000 V d.c



UL 1449 Ed3

Type 1 UL (Type 2 IEC) PV SPD's have characteristics of type 2, they are capable of discharging indirect lightning strikes causing induced or conducted overvoltages generally from earth to the Panel they have a low residual voltage (U_p), which is compatible with the withstand voltage of the Panel and the PV Inverter. Higher is the I_{max}, more powerful they are.

They are installed inside the string/combiner boxes but inside near the PV Inverter.

If the announced residual voltage (U_p) is not compatible with the withstand voltage of the equipment to protect or if the cable length to the equipment is longer than 10m, another level of coordination with another OVR PV T2 will be needed.

- Din rail mounting
- No back up protection required
- Pro M compact design
- High performance
- 3 MOV varistors (L+/L-; L+/G; L-/G)



CHARACTERISTICS

Key characteristics

Protection mode	L-L/L-PE		
Number of protected lines	2		
Test class	II		
Integrated thermal disconnecter	Yes		
End of life indicator	Yes		
Safety reserve	No		

Electrical characteristics

Nominal discharge current	I _n (8/20)	kA	10
Maximal discharge current	I _{max} (8/20)	kA	40
Impulse current	I _{imp} (10/350)	kA	-
Maximal continuous operating voltage	U _{CPV} (L-L)	V	1250
Maximal continuous operating voltage according to ☼	MCOV	V	1250
Voltage protection level at I _n	U _p (L-PE)	kV	4
Voltage protection level at I _n	U _p (L-L)	kV	4
Voltage protection rating according to ☼	VPR (L+/G, L-/G, L+/L-)	kV	4 / 4 / 4
Short circuit current	I _{SCPV}	kA	10
Short circuit withstand according to ☼	I _{SCCR}	kA	1
Ground residual current	I _{PE}	μA	< 10

Required thermal/back up protection

Curve B or C Circuit breaker	A	-
gG - gL fuse	A	-
Comments	* SPD autoprotected up to I _{SCCR} up to 1 kA	

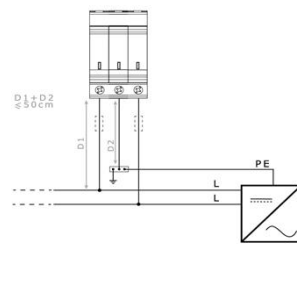
Mechanical characteristics

Dimensions	H x W x D	mm	95 x 53.4 x 58
Wire range : Solid wire		mm ²	2.5...25
Wire range : Stranded wire		mm ²	2.5...16
Stripping length		mm	12.5
Packing quantities		piece	Per 1

Miscellaneous characteristics

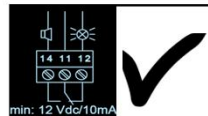
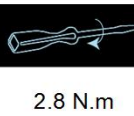
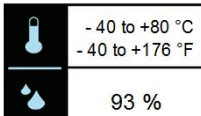
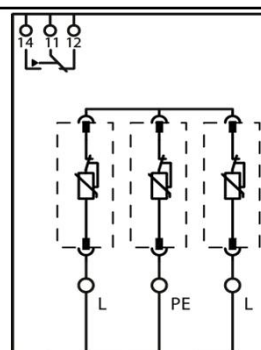
Maximal altitude	m / f	2 000 / 6 562
Weight	g / p	360 / 0.75
Response time	ns	< 25
Fire resistance according to UL 94		V-0
Replacement cartridges		
Phase / Product ID	OVR PV 40-1000 C U	2CTB802349R1600

INSTALLATION



PD1-PD2

DIAGRAM



US
VZCA2.E322885



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ABB