

OVR PV T2 40-1000 P TS QS

2CTB804153R2500

03/06/2016

Type

T2

Type 2 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.

I_{max} : 40 kA

Higher is the I_{max}, more powerful they are.

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

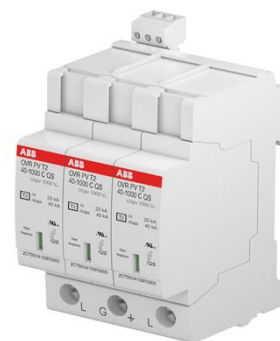
U_p : 3,8 kV

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.

System

PV : 1100 V d.c

- Certified to last UL 1449 4ed and according to EN 50539
- No back up protection required up to I_{scpv}/SCCR : 10 kA
- Bottom wiring
- Patented QuickSafe technology
- 3 MOV varistors (L+/L-; L+/PE; L-/PE)

EN 50539-11
UL 1449 4 ed

CHARACTERISTICS

Key characteristics

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

Electrical characteristics

Nominal discharge current	I _n (8/20)	kA	20
Maximal discharge current	I _{max} (8/20)	kA	40
Impulse current	I _{imp} (10/350)	kA	2
Maximal continuous operating voltage	U _{CPV} (L-L)	V	1100
Maximal continuous operating voltage according to ④	MCOV	V	1100
Voltage protection level at I _n	U _p (L-PE)	kV	3,8
Voltage protection level at I _n	U _p (L-L)	kV	3,8
Voltage protection rating according to ④	VPR (L+/G, L-/G, L+/L-)	kV	2,5 / 2,5 / 2,5
Short circuit current	I _{SCP}	kA	10
Short circuit withstand according to ④	SCCR	kA	10
Ground residual current	I _{PE}	μA	< 10

Required thermal/back up protection

Curve B or C Circuit breaker	A	-
gG - gL fuse	A	-
Comments		

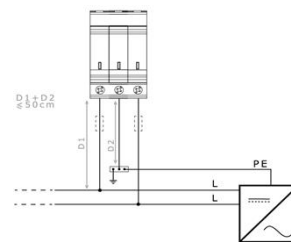
Mechanical characteristics

Dimensions	H x W x D	mm	95x53.4x58
Wire range : Solid wire		mm ²	2.5 ... 35
Wire range : Stranded wire		mm ²	2.5 ... 25
Stripping length		mm	12,5
Packing quantities		piece	Per 1

Miscellaneous characteristics

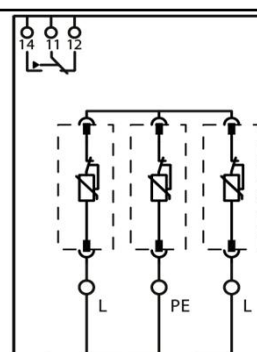
Maximal altitude	m	2000
Weight	g	360
Response time	ns	< 25
Fire resistance according to UL 94		V-0
Replacement cartridges		
Phase / Product ID	OVR PV T2 40-1000 C QS	2CTB804153R3200
Neutral / Product ID	-	-

INSTALLATION



PD1-PD2

DIAGRAM



IP20

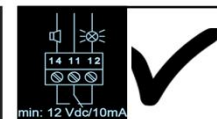


- 40 to +80°C

93 %



2,8 N.m

min: 12 Vdc/10mA
max: 250 Vdc/1A