**Type**

T2

**Imax** : 40 kA

**Up** : 1,4 kV

**System**

PV : 600 V d.c.

**Product Data Sheet 2CTC432079D0201**

**OVR PV 40-600 P TS**

2CTB803953R5400

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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 (Up), which is compatible with the withstand voltage of the Panel and the PV Inverter. Higher is the Imax, more powerful they are.

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

If the announced residual voltage (Up) 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.

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- Din rail mounting
- No back up protection required up to 300 A
- Pro M compact design
- High performance
- 2 MOV varistors (L+/L-) and spark gap (L+/G; L-/G)
- Special “High d.c voltage” design

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**Key characteristics**

- Protection mode: L-U-L-P-E
- Number of protected lines: 3
- Test class: II
- Integrated thermal disconnector: Yes
- End of life indicator: Yes
- Safety reserve: N.D.
- Electrical characteristics:
  - Nominal discharge current: Iₚ (8/20) kA: 20
  - Maximal discharge current: Iₓₚ (16/350) kA: 2
  - Impulse current: Iₓₚ (16/350) kA: 2
  - Maximal continuous operating voltage: Uₚₜ (L-L) V: 6/10
  - Maximal continuous operating voltage according MOOV: V: 6/10
  - Voltage protection level at In: Uₓₚ (L-P-E) V: 1.2
  - Voltage protection level at In: Uₓₙ (L-L) V: 2.2
  - Voltage protection rating: Vₚₙ (L+G, L-/G, L+/L-) V: 1.4 / 1.4 / 2.8
  - Short circuit current: Iₛₚₚ kA: 10.4
  - Short circuit withstand according: Iₛₚₚ kA: 10.4
  - Ground residual current: Iₑₚₚ µA: < 10
- Required thermal/back up protection:
  - Curve B or C Circuit breaker: Yes
  - gGl - gL fuse: A -
- Comments: SPD autoprotected up to Iₛₚₚ up to 0.3 kA

**Mechanical characteristics**

- Dimensions: H x W x D mm: 95 x 53.4 x 58
- Wire range: Solid wire: 2.5…25
- Wire range: Stranded wire: 2.5…16
- Stripping length: mm: 12.6
- Packing quantities: piece 75
- Miscellaneous characteristics:
  - Maximal altitude: m / f: 2,500 / 6,562
  - Weight: g / P: 250 / 0.75
  - Response time: ms: < 25
- Fire resistance according to UL 94: V-0
- Replacement cartridges: Yes / PVC

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**Installation**

**Diagram**

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**ABB**