### Characteristics

#### Key characteristics
- **Protection mode:** L-L/L-PE
- **Number of protected lines:** 3
- **Test class:** II
- **Integrated thermal disconnector:** Yes
- **End of life indicator:** No
- **Safety reserve:** N2

#### Electrical characteristics
- **Nominal discharge current (Iₘₐₓ):** 40 kA
- **Maximal discharge current (Iₘₚₙₚₚ):** 80 kA
- **Impulse current (Iₘₚₙₚₚₚₚₚₚₚₚₚ):** 100 kA
- **Maximal continuous operating voltage (Up):** 750 V
- **Voltage protection level at In:** UP (L-L) 750 V
- **Voltage protection level at In:** UPE (L-L) 750 V
- **Voltage protection level at In:** ULV (L+G; L-/G; L+/L-) 750 V
- **Short circuit current (Iₛₚₚₚₚₚₚₚₚ):** 10 kA
- **Short circuit withstand according to In:** 360 / 0.75 kV
- **Ground residual current (Iₚₚₚₚₚₚₚ):** < 10 μA

#### Required thermal/back up protection
- Curve B or C Circuit breaker: Yes
- GL - fuse: No

#### Mechanical characteristics
- **Dimensions (H x W x D):** 95 x 53.4 x 58 mm
- **Wire range - Solid wire:** 2.5…25 mm²
- **Stripping length:** 12.5 mm
- **Packing quantities:** piece 1

#### Miscellaneous characteristics
- **Maximal altitude:** up to 2000 / 6562 m
- **Weight:** 0.3 kg / 0.7 kg
- **Response time:** < 25 ms
- **Fire resistance according to UL 94:** V-0

#### Phase / Product ID
- **Product Data Sheet:** 2CTB802340R0900
- **EAN:** 3660308521118
- **OVR PV 40-600 P TS U**

### 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 (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 inside near 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 10 m, 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)

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**Type:** UL: Type 1 CA  
**IEC:** Type 2  
**Imax:** 40 kA  
**Up:** 3 kV  
**System:**  
**PV:** 600 V dc  
**UL 1449 Ed3**
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**Installation Diagram:**

**Power and productivity for a better world™**

**ABB**