

# OVR T1-T2 12.5-440s P QS

## 2CTB815710R4100

31/01/2018

|   |
|---|
| Type  |
| <b>T1-T2</b>  |
|  |
| <b>I<sub>max</sub> : 80 kA</b><br><b>I<sub>imp</sub> : 12,5 kA</b>                |
|  |
| <b>U<sub>p</sub> : 1,9 kV</b>   |
| System  |
| <b>TT/TN-C/TN-S: 400/690 V</b><br><b>IT: 230/400 V</b>                            |
|  |
| <b>IEC 61643-11</b><br><b>EN 61643-11</b>   |

Type 1 + 2 SPD's have characteristics of type 1 but also type 2, they are capable of discharging a very high lightning current (T1 10/350µs) and they have as well a low residual voltage (U<sub>p</sub>).

They are installed in the main distribution switchboard but also in sub-distribution board.

Because of their power, Type 1 + 2 SPD's can let pass through a too high residual voltage, if the announced U<sub>p</sub> 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 OVR T2-T3, OVR T3 will be needed.

Thanks to the patented Safety Reserve system, you can extend the lifespan of the installation plan maintenance to reduce downtime risk.

- Patented QuickSafe® technology
- Safety Reserve system
- Din rail mounting
- Pluggable
- Improved safety
- Back up protection up to 160 A Fuse or 125 A Mcb



| Key characteristics                        |                           |                 |                 |
|--|---------------------------|-----------------|-----------------|
| Protection mode                            | L-N/L-PE                  |                 |                 |
| Number of protected lines                  | 1                         |                 |                 |
| Test class                                 | I - II                    |                 |                 |
| Integrated thermal disconnecter            | Yes                       |                 |                 |
| End of life indicator                      | Yes                       |                 |                 |
| Safety reserve                             | Yes                       |                 |                 |
| Electrical characteristics                 |                           |                 |                 |
| Nominal discharge current                  | I <sub>n</sub> (8/20)     | kA              | 20              |
| Maximal discharge current                  | I <sub>max</sub> (8/20)   | kA              | 80              |
| Impulse current                            | I <sub>imp</sub> (10/350) | kA              | 12,5            |
| Maximal continuous operating voltage       | U <sub>C</sub>            | V               | 440             |
| Maximal continuous operating voltage d.c   | U <sub>C d.c</sub>        | V               | 560             |
| Type of current / frequency                |                           | Hz              | a.c. 47-63      |
| Voltage protection level at I <sub>n</sub> | U <sub>p</sub> (L-PE)     | kV              | 1,9             |
| Voltage protection level at I <sub>n</sub> | U <sub>p</sub> (L-N)      | kV              | 1,9             |
| Voltage protection level at I <sub>n</sub> | U <sub>p</sub> (N-PE)     | kV              | -               |
| Short circuit withstand                    | I <sub>SCCR</sub>         | kA              | 100             |
| Total current                              | I <sub>TOTAL</sub>        | kA              | 12,5            |
| Follow current interrupted                 | I <sub>fi</sub>           | kA              | - / -           |
| Ground residual current                    | I <sub>PE</sub>           | µA              | <1000           |
| TOV withstand (L-N : 5s / N-PE : 200 ms)   | U <sub>T</sub>            | V               | 581 / -         |
| Voltage Combination Wave                   | U <sub>OC</sub>           | kV              | -               |
| Required thermal/back up protection        |                           |                 |                 |
| Curve B or C Circuit breaker               | A                         |                 | ≤ 125           |
| gG - gL fuse                               | A                         |                 | ≤ 160           |
| Comments                                   |                           |                 |                 |
| Mechanical characteristics                 |                           |                 |                 |
| Dimensions                                 | H x W x D                 | mm              | 88x35.6x69.4    |
| Wire range : Solid wire                    |                           | mm <sup>2</sup> | 2.5 ... 35      |
| Wire range : Stranded wire                 |                           | mm <sup>2</sup> | 2.5 ... 25      |
| Stripping length                           |                           | mm              | 12.5            |
| Packing quantities                         |                           | piece           | Per 1           |
| Miscellaneous characteristics              |                           |                 |                 |
| Maximal altitude                           | m                         |                 | 2 000           |
| Weight                                     | g                         |                 | 300             |
| Response time                              | ns                        |                 | <25             |
| Fire resistance according to UL 94         |                           |                 | V-0             |
| Replacement cartridges                     |                           |                 |                 |
| Phase / Product ID                         | OVR T1-T2 12.5-440s C QS  |                 | 2CTB815710R5500 |
| Neutral / Product ID                       |                           |                 | -               |

CHARACTERISTICS

