

NEW

Overvoltage Protection Technology with Integrated Fuse



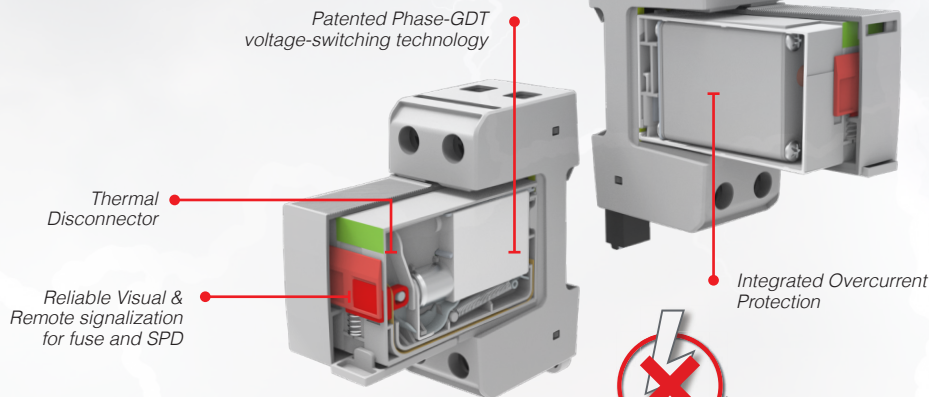
Raycap

Surge Protection with Integrated Fuse

Raycap's technology with back up fuse combines the protection of a separate fuse into one unit, saving space in the control cabinet.

Integrated Fuse Product Family: Type 1 and Type 2

- The coordinated tripping characteristics of the thermal disconnection mechanism and integrated backup fuse provide full-range fault current protection and end-of-life disconnection for enhanced safety
- Reduced installation space requirements, installation costs, wiring time and complexity
- Shorter connecting cables improve voltage protection level across installation points
- Enables installation on networks with low prospective short circuit currents
- Visual and remote signalization of fuse and SPD status
- New integrated fuse technology is available presently in two products: the ProTec T1SF and the ProTec T2F.



ProTec T1SF Series

Raycap's new ProTec T1SF Series is based on its patented Phase Gas Discharge Tube (PGDT) technology, and a new integrated fuse technology. The products ensure safe thermal and fault-current disconnection on networks with prospective short circuit currents as low as 300A and as high as 75,000A. A coordinated thermal disconnecter provides disconnection at low fault currents (<300A), extending a continuous fault-tripping characteristic down to 1A.

Integrated Overcurrent Protection



On networks with high prospective short circuit currents, SPDs with integrated fuses provide enhanced safety and fault-current protection due to the coordinated tripping characteristics of the thermal disconnect and the integrated fuse.

Type 1+2 leakage current free product for installation in the pre-metering area

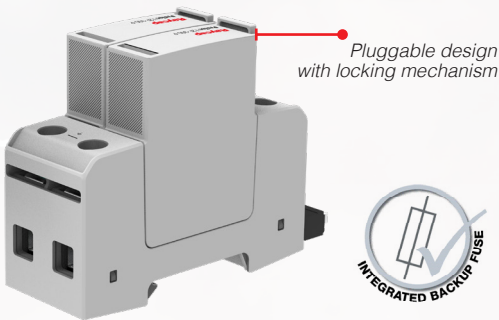
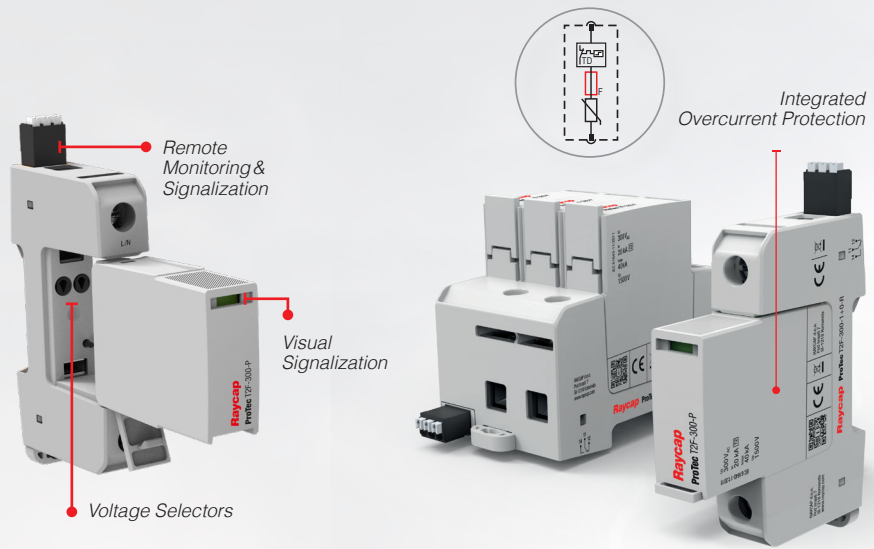
| PRODUCT SERIES | | I_{imp} | I_n | I_{max} | COMBINATION | $U_c = 275V$ |
|----------------|---------------------------------|------------|-------------------|-----------|-------------|--------------|
| TYPE 1+2 | ProTec T1SF | 25 kA | 25 kA | 65 kA | | ✓ |
| | Phase GDT Technology • EN T1+T2 | Order Code | Configuration | | | |
| | ProTec T1SF-275-1+0 | 59.A500 | Basic Version | | 1+0 | |
| | ProTec T1SF-275-1+0-R | 59.A501 | Remote Monitoring | | | |

Type 2+3 DIN Rail mounted surge protection device with integrated fuse

ProTec T2F Series

The practical 2-in-1 device simplifies planning, installation, and maintenance. For example, the need to dimension a backup fuse is not applicable with the ProTec T2F product series as this is already integrated and matched to its performance parameters.

The new Type 2 arrester has an integrated back up fuse, a protection level of 1,500 V, a maximum discharge capacity of 40 kA 8/20 μ s and a rated discharge current of 20 kA 8/20 μ s. In addition to the proven Raycap ProTec T2 technology developed for use in systems with a rated current of up to 315A without backup fuse, the T2F Series with integrated backup fuse offers protection independent of installed fuses found in equipment inside large industrial installations.



| PRODUCT SERIES | | I_n | I_{max} | U_{oc} / I_{cw} | COMBINATION | $U_c = 300V$ |
|---------------------------|----------------------|------------|-------------------|-------------------|-------------|--------------|
| ProTec T2F Series | | 20kA | 40kA | 6kV/3kA | all | ✓ |
| MOV Technology • EN T2+T3 | | Order Code | Configuration | | | |
| TYPE 2+3 | ProTec T2F-300-1+0 | 59.A250 | Basic Version | | 1+0 | |
| | ProTec T2F-300-1+0-R | 59.A251 | Remote Monitoring | | | |
| | ProTec T2F-300-2+0 | 59.A252 | Basic Version | | 2+0 | |
| | ProTec T2F-300-2+0-R | 59.A253 | Remote Monitoring | | | |
| | ProTec T2F-300-3+0 | 59.A254 | Basic Version | | 3+0 | |
| | ProTec T2F-300-3+0-R | 59.A255 | Remote Monitoring | | | |
| | ProTec T2F-300-4+0 | 59.A256 | Basic Version | | 4+0 | |
| | ProTec T2F-300-4+0-R | 59.A257 | Remote Monitoring | | | |
| | ProTec T2F-300-1+1 | 59.A259 | Basic Version | | 1+1 | |
| | ProTec T2F-300-1+1-R | 59.A260 | Remote Monitoring | | | |
| | ProTec T2F-300-3+1 | 59.A261 | Basic Version | | 3+1 | |
| | ProTec T2F-300-3+1-R | 59.A262 | Remote Monitoring | | | |

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