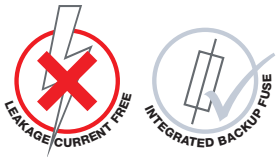
Lightning and Overvoltage Protection with Integrated Fuse

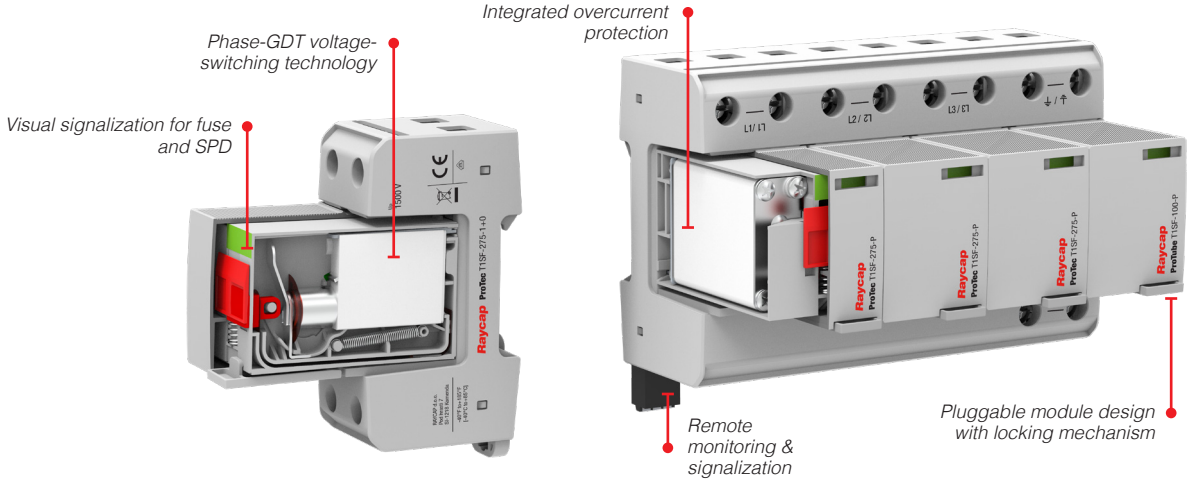
Raycap's SPD technology with integrated fuse combines surge protection and fuse functionality in a single device, reducing installation space within the cabinet. In networks with both low and high prospective short-circuit currents, SPDs with integrated fuse provide enhanced safety and fault-current protection due to coordinated tripping between the thermal disconnector and the integrated fuse.

- Reduced installation space, installation costs, wiring time and complexity
- Shorter connecting cables improve the protection level across installation points
- Suitable for installation in networks with low prospective short-circuit currents
- Visual and remote signalization of fuse and SPD status

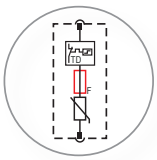
ProTec T1SF Series



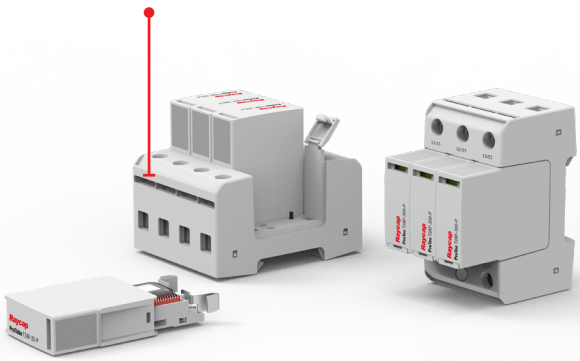
Raycap's ProTec T1SF Series is based on Phase Gas Discharge Tube (PGDT) technology, and an integrated fuse technology. The products ensure safe thermal and fault-current disconnection in networks with prospective short-circuit currents ranging from as low as 300 A up to 100 kA. A coordinated thermal disconnector ensures safe interruption at low fault currents (<300 A), extending the fault-tripping characteristic down to 1 A.



ProTec T2AF Series



The practical 2-in-1 device simplifies planning, installation, and maintenance. The Type 2 SPD has an integrated back-up fuse, a protection level of 1,500 V, a maximum discharge capacity of 40 kA 8/20 µs and a rated discharge current of 20 kA 8/20 µs. The in-house developed fuse is tailor-made for SPD performance and provides improved low fault current performance – Isccr min 300 A within 1 s. The ProTec T2AF series offers protection independent of the fuses installed in equipment within large industrial installations.





- Faster and space-saving installation – no back-up fuse needed
- Improved voltage protection level
- 6 mm² wiring can always be used
- Visual and remote signalization of fuse and SPD status
- Improved power availability in case of SPD failure

Raycap

Product Selector

	Combinations		Network Systems	Product Name	Order Code
TYPE 1+2+3	Single pole		TN-S, TN-C, TT*	ProTec T1SF-275-1+0	59.A500
				ProTec T1SF-275-1+0-R	59.A501
	2 pole		TN-S	ProTec T1SF-275-2+0	59.C245
				ProTec T1SF-275-2+0-R	59.C246
	3 pole		TN-C	ProTec T1SF-275-3+0	59.C170
				ProTec T1SF-275-3+0-R	59.C171
	4 pole		TN-S	ProTec T1SF-275-4+0	59.C247
				ProTec T1SF-275-4+0-R	59.C248
	2 pole		TT & TN-S	ProTec T1SF-275-1+1	59.C672
				ProTec T1SF-275-1+1-R	59.C673
	4 pole		TT & TN-S	ProTec T1SF-275-3+1	59.C172
				ProTec T1SF-275-3+1-R	59.C173
TYPE 2+3	Single pole		TN-S, TN-C, TT*	ProTec T2AF-300-1+0	59.E101
				ProTec T2AF-300-1+0-R	59.E102
	2 pole**		TN-S	ProTec T2AF-300-2+0	59.E103
				ProTec T2AF-300-2+0-R	59.E104
	3 pole**		TN-C	ProTec T2AF-300-3+0	59.E105
				ProTec T2AF-300-3+0-R	59.E106
	4 pole**		TN-S	ProTec T2AF-300-4+0	59.E107
				ProTec T2AF-300-4+0-R	59.E108
	2 pole**		TT & TN-S	ProTec T2AF-300-1+1	59.E109
				ProTec T2AF-300-1+1-R	59.E110
	4 pole**		TT & TN-S	ProTec T2AF-300-3+1	59.E113
				ProTec T2AF-300-3+1-R	59.E114
	4 pole**		TT & TN-S	ProTec T2AF-300-3+1-40	59.E120
				ProTec T2AF-300-3+1-40-R	59.E121

**For TT Networks, L-N connection only.*
***Two PE terminals available per request.*

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