

Phase GDT based Technology Lightning and Overvoltage Protection with Integrated Fuse

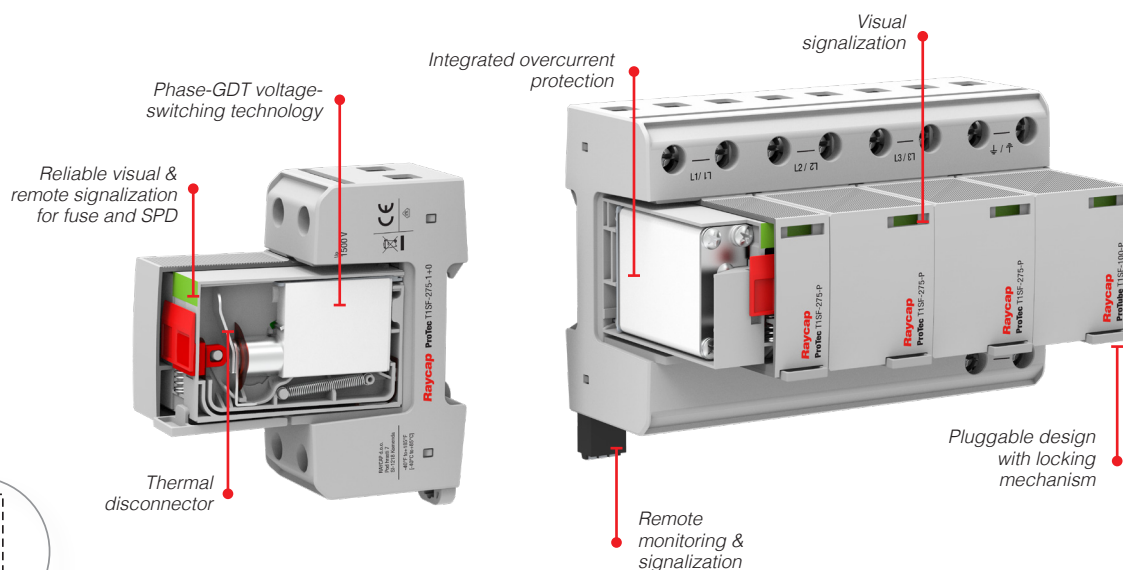
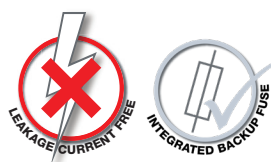
Raycap's technology with back up fuse combines the protection of a separate fuse into one unit, saving space in the control cabinet. On networks with high prospective short circuit currents, SPDs with integrated fuses provide enhanced safety and fault-current protection due to the coordinated tripping characteristics of the thermal disconnect and the integrated fuse.

Main features:

- 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

ProTec T1SF Series

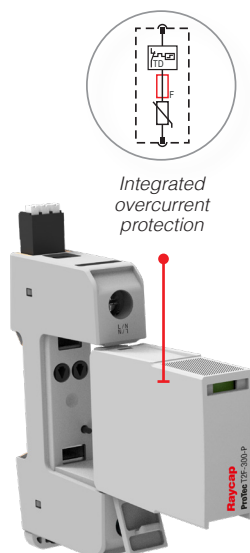
Raycap's new ProTec T1SF Series is based on Phase Gas Discharge Tube (PGDT) technology, and a new integrated fuse technology. The products ensure safe thermal and fault-current disconnection on networks with prospective short circuit currents as low as 300 A and as high as 75,000 A. A coordinated thermal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














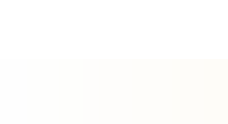



ProTec T2F Series

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 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 315 A without backup fuse, the T2F Series with integrated backup fuse offers protection independent of installed fuses found in equipment inside large industrial installations.



Combinations			Network Systems	Product Name	Order Code
TYPE 1+2	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 T2F-300-1+0	59.A250
	ProTec T2F-300-1+0-R			59.A251	
	2 pole		TN-S	ProTec T2F-300-2+0	59.A252
	ProTec T2F-300-2+0-R			59.A253	
	3 pole		TN-C	ProTec T2F-300-3+0	59.A254
	ProTec T2F-300-3+0-R			59.A255	
	4 pole		TN-S	ProTec T2F-300-4+0	59.A256
	ProTec T2F-300-4+0-R			59.A257	
	2 pole		TT & TN-S	ProTec T2F-300-1+1	59.A259
	ProTec T2F-300-1+1-R			59.A260	
4 pole		TT & TN-S	ProTec T2F-300-3+1	59.A261	
ProTec T2F-300-3+1-R			59.A262		
TYPE 2+3	Single pole		IT**	ProTec T2F-440-1+0	59.A942
	ProTec T2F-440-1+0-R			59.A943	
	2 pole			ProTec T2F-440-2+0	59.A944
	ProTec T2F-440-2+0-R			59.A945	
	3 pole			ProTec T2F-440-3+0	59.A946
	ProTec T2F-440-3+0-R			59.A947	
	4 pole			ProTec T2F-440-4+0	59.A948
	ProTec T2F-440-4+0-R			59.A949	

* Only L-N ** Only 440V

