TE's Raychem SCREENED SURGE ARRESTERS FOR INTERFACE F RSTF-SA

With gapless ZnO surge arrester modules for U_R up to 75 kV

TE Connectivity (TE) combines over 60 years experience and engineering excellence to offer reliable and innovative switchgear connection systems. As part of this commitment, we have developed the RSTF: an outer cone screened separable T-connector for 72.5 kV type F bushings including the Screened T-connector Surge Arresters RSTF-SA.

TE's Raychem Screened T-connector Surge Arrester RSTF-SA is an integral part of the RSTF product programme to support voltage stability and prevent negative effects on installed equipment due to overvoltages.

KEY FEATURES AND BENIFITS

TE's Raychem Screened T-connectors Surge Arresters RSTF-SA up to 72.5 kV

- Proven gapless ZnO surge arrester design
- Maintenance free and corrosion resistant
- Available integrated in base or coupling T-connector
- High performance and longevity in extreme conditions
- Meet EN 50673 standard
- Tested according to IEC 60840:2011 and IEC 60099-4:2014
- 100% routine tested
- End-to-end components traceability

AN OPTIMIZED DESIGN FOR HIGH RELIABILITY

1. Screened T-connector
A standard RSTF base or coupling connector with a thin-walled conductive outer screen and silicone rubber insulating body.

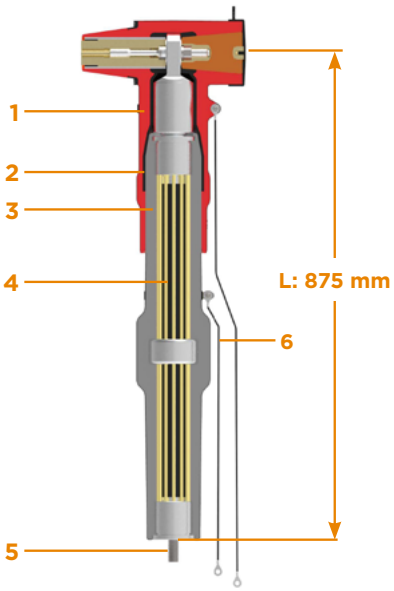
2. Inner screen
A conductive inner layer around surge arrester terminal that works as a Faraday cage to prevent corona at rated voltage.

3. Surge arrester insulation
Silicone insulation layer around the surge arrester module.

4. Surge Arrester ZnO stack
Gapless stack of Zinc-Oxide varieties.

5. Grounding terminal
Grounding terminal for the surge arrester module and connection point for mechanical support.

6. Ground lead
Insulated ground lead for earthing of the surge arrester's outer screen.



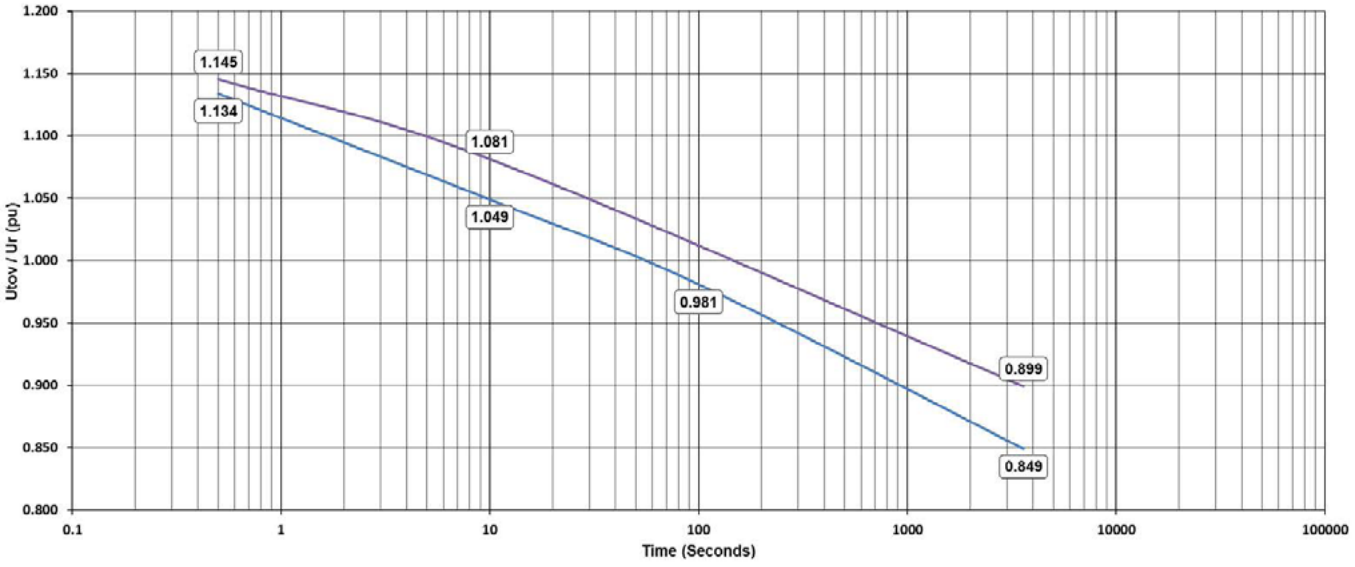
RESIDUAL VOLTAGES			
Lightning impulse 8/20 µs	**5 kA** 185 kV	**10 kA** 197 kV	**20 kA** 217 kV
Steep lightning impulse 1/20 µs	-	**10 kA** 207 kV	**20 kA** 227 kV
Switching impulse 30/60 µs	-	**125 A** 148 kV	**500 A** 159 kV

RATED DATA	
Rated voltage U_R	75 kV
Continous operating voltage U_C	60 kV
Nominal Discharge Current I_N	10 kA
Charge transfer rating Q_{rs}	1.6 C
Rated thermal energy W_{th}	412.5 kJ
Arrester Class	SL
Short circuit current I_S	31.5 kA
High current impulse 4/10 µs	100 kA
Long duration current impulse (2ms)	760 A

DIMENSIONS AND WEIGHT	
Length L (bushing to grounding terminal)	875 mm
Weight (pc)	25 kg

RSTF-SA SURGE ARRESTER TYPE TOV CAPABILITY (UP TO U_R = 75 kV)

With prior energy
Without prior energy
U_{tov} = TOV withstand voltage
U_r = Rated voltage



Samples preheated to 85°C per IEC 60099-4; Ed. 3.0, 2014 for screened separable surge arresters.

TOV Curves for RSTF-SA with and without being pre-stressed by energy prior to TOV verifications.

The pre-stress is its rated thermal energy Wth per the power-frequency voltage-versus-time test according to IEC 60099-4:2014.

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