



Product Features

- Tested in accordance with IEC60099-4 (May 2004)
- State-of-the-art gapless design
- Excellent protection margins
- Low residual voltages
- Excellent short circuit performance
- Excellent TOV performance
- Maintenance free

The screened gapless surge arresters are "T"-shaped products. They are designed for direct connection onto outer cone bushings in accordance with EN50180 or EN50181 with interface type "C" or for parallel connection mating to the rear entry of the RSTI-58 base screened t-connectors designed for system voltage up to 24 kV.

Easily accessible rear plug with capacitive test point.

RSTI-SA-05 Applications

Single connection

Material required for 3 phases: 1 x RSTI-58SAxx05 (screened surge arrester kit for direct bushing connection)

Parallel connection

Material required for 3 phases: 1 x RSTI-58xx (Base connector kit) 1 x RSTI-CC-58SAxx05 (screened surge arrester kit with coupling connection)

(screened sur coupling con-



A thin-walled screen is permanently bonded onto the insulation and protects the connection system against unintentional contact. The active part is a metal oxide arrester which meets the requirements of IEC-60099-4 for separable and dead-front arresters.

The combination of screened connectors and surge arresters exceeds CENELEC HD 629.1 S1 requirements, which includes BS, VDE and other international specifications.

Few accessories required for system test and earth connection.

Complete kit including screened surge arresters, threaded pin and ground lead for three phases facilitates installation and storage.



Dimensions in mm

Design and construction



1 Screened body

A thin walled conductive outer screen is permanently bonded to the silicone rubber insulating material.

2 Inner screen

A conductive inner layer, as a Faraday cage around the top end electrode prevents corona at rated voltage.

3 Threaded lug

Pre-installed threaded lug, specially designed, facilitates the connection of the surge arrester to the base connector or bushing.

4 Surge arrester core

Gapless surge arrester core assembly consisting of ZnO (Zinc Oxide) varistors and a mechanical robust structure.

5 Earthing eye and ground lead

Provides a connection point for earthing the screen.

6 Threaded pin

A threaded pin together with a spring washer and hex nut ensure a high performance electrical and mechanical contact with the base connector or bushing.

7 Rear plug with test point

Removable rear plug with capacitive test point.

8 Test point

The test point is used to determine whether the circuit is energised; alternatively it can be used for phasing.

9 Conductive end cap

Electrical screen and protection of the rear end of the separable surge arrester.

RSTI-SA-05 Accessories

Test rod

Ref. no.: RSTI-68TR; Length: 310 mm RSTI-68TRL; Length: 460 mm RSTI-68TRA; Kit includes 2 short and 1 long testrod



Note: When test rod is in use, surge arrester assembly must be removed.

Earthing adapter

Ref. no.: RSTI-68EA20; Ball diameter: 20 mm RSTI-68EA25; Ball diameter: 25 mm



TECHNICAL DATA FOR SINGLE AND PARALLEL CONNECTION						
Rated Discharge Current I _N	5 kA					
Operating duty High current Impulse 4/10 µs	65 kA					
Short Circuit Current I _S	16 kA					
Long duration current impulse (1ms)	75 A					
Continuous operating voltage U _C	6	12	18	24		
Rated Voltage U _R	7.5	15	22.5	30		
LIGHTNING CURRENT IMPULSE 8/20 μ S						
Residual Voltages (kV)						
2.5 kA	19	38	57	76		
5 kA	20	40	60	80		
10 kA	21.7	43.5	65.2	87		
STEEP LIGHTNING CURRENT IMPULSE 1/20 μ S						
5 kA	21	42	63	84		

TOV with 65 kA single shot high current prior to energy



Temperature of samples (pre-heated): 60°C according to IEC 60099-4, Ed 2.0 2004. TOV Curve applies to an arrester which has a pre-stress applied prior to TOV verification. This prestress is equivalent to one high current impulse of 65 kA, 4/10 µs as per the switching surge operating duty test.

Uw = TOV withstand voltage; Uc = continuous operating voltage

ORDERING INFORMATION					
VOLTAGE CLASS (kV)	6.0	12.0	18.0	24.0	
Reference Number Single Connection	RSTI-58SA0605	RSTI-58SA1205	RSTI-58SA1805	RSTI-58SA2405	
Reference Number Parallel Connection	RSTI-CC- 58SA0605	RSTI-CC- 58SA1205	RSTI-CC- 58SA1805	RSTI-CC- 58SA2405	
DIMENSION AND WEIGHT					
Length L* (mm)	285.0	285.0	400.0	400.0	
Weight (kg/pc)					
(58SA)	2.4	2.7	3.0	3.3	
(-CC-58SA)	2.5	2.8	3.1	3.4	
* see page 2	FOR MORE INFORMATION:				

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