

MTSA Technopower Re-Ignition Stack (RIS)



In short-circuit laboratories high power equipment is tested and exposed to a high current when the contacts are closed and a high voltage when the contacts are opened. In the so-called “Synthetic circuit” the high current and the high voltage come from different circuits. This greatly increases the testing power of a High Power Lab.

With synthetic tests for contact opening there is a requirement for using Multi Loop devices for obtaining the correct arcing time length of the high power switch. These Multi Loop devices typically consist of a charged capacitor, a fast switch and pulse shaping components. The fast switch also has to recover very fast to withstand the voltages in the circuit.

The MTSA Re-Ignition Stack is a fast switching and fast recovering system for injection of a capacitor charge during a synthetic test. The MTSA Re-Ignition Stack consists of 2 to 4 sections. Each section contains a triggered vacuum gap and a light activated trigger circuit. The Re-Ignition Stack is controlled by a MTSA Technopower Injection Timer for ignition at the current zero crossing.

Main specifications:

Minimum optical capacity	50 mW
Delay	< 1,5 μ s
Timing accuracy	< 0,5 μ s
Voltage	10 kV tot 25kV per section
Maximum charge transfer	0,5 Coulomb per injection
Maximum current	5000 A



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