

## MTSA Technopower injection timers



*3-phase injection timer*



*Rogowski coil for injection timer*



*Test system for injection timer*

In short-circuit laboratories high power equipment is tested for e.g. the ability to switch off short circuit currents. Hereto the test object is exposed to a high current when the contacts are closed and a high voltage when the contacts are opened. During Synthetic tests the high current and the high voltage come from different circuits. This greatly increases the testing power of a High Power Lab. At the zero crossing of the current the voltage circuit must be activated. For a proper test result, in case of current injection, the activation must be at an adjustable time before the current in the test object goes through zero; for voltage injection this must be an adjustable time after the current zero. This moment can not be predicted by the master timer, which is coupled to the speed of the generator.

An injection timer accurately predicts when the current will pass zero for different types of current and automatically triggers ignition commands for the ignition installation, to activate the current or voltage injection.

MTSA Technopower designs and builds customer-specific injection timers. The injection timer's functionality is an absolute must in order for your test to succeed. The object to be tested is often significantly damaged during the test. There is therefore no chance to re-test the object. Thanks to MTSA Technopower's specific knowledge, experience and customer-specific approach, the injection timer's functionality and therefore your test success rate will be optimal.

**MTSA Technopower B.V.**  
Westervoortsedijk 67  
6827 AT Arnhem  
The Netherlands

**Telephone** : +31 (0)26 3636310  
**Telefax** : +31 (0)26 3646717  
**E-mail** : mail@mtsa.nl  
**Internet** : www.mtsa.nl