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The triggered vacuum switch test based on the electromagnetic pulse welding

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Abstract: A new triggered vacuum switch (TVS) was designed and tested . The TVS was successfully tested up from 500V to 10kV peak charging voltage. Compared to other typical switches, the tested switch showed high reliability of trigger voltage, trigger current. The TVS is used for a high-current pulse generator of 112.5kJ capacitor bank, which has been developed for electromagnetic pulse welding. The equipment is made up of six paralleled 18.75kJ modules, every module is mainly made up of four paralleled capacitors and a TVS

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