



**PERMANENT DOCUMENT**

**ENEC 303  
Annex AX**

**Annex AX  
to Routine Test Requirements for manufacturers  
(as per Article 9 of the Agreement)**

**Low-voltage surge protective devices – Part 11: Surge  
protective devices connected to low-voltage power  
systems – Requirements and test methods  
EN 61643-11**

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## Annex AX to PD ENEC 303

# Low-voltage surge protective devices – Part 11: Surge protective devices connected to low-voltage power systems – Requirements and test methods EN 61643-11

## 1 ROUTINE TESTS (100%)

### 1.1 General

During manufacturing of the surge protective device (SPD), it should be verified that the SPD is capable of meeting its performance. Each SPD shall be subjected to a routine test at the end of the production, to demonstrate the correct functioning of the SPD.

### 1.2 Measured limiting voltage

The correct functioning of the SPD (see EN 61643-11, clause 7.2.3) shall be checked at limited current/voltage (as to prevent damage to the protective unit).

The routine test shall be done by the tests in accordance with clause 8.3.3 Measured limiting voltage.

Pass criteria

The measured limiting voltage of the SPD shall not exceed the voltage level that is specified by the manufacturer.

## 2 PERIODIC TESTS

### 2.1 Operating duty test

This test shall be performed once per year for each model or type of SPD according to clause 8.3.4 of EN 61643-11.

This test is performed with a new set of three identical samples.

If a SPD has more than one mode of protection, each mode of protection shall be tested with a separate set of samples.

Pass criteria

All three samples shall pass this test and shall fulfil the requirements of all pass criteria as given in clause 8.3.4.6.