

# IEC/EN 61000-4-11 Monitoring measurements (options 06/07)

*The relating standards:*

IEC/EN 61000-4-11

IEC/EN 61000-2-8

The IEC/EN 61000-4-11 voltage dips, short interruptions and variations test can be carried out using an oscilloscope together with the Spitzenberger & Spies Software package "SPS EMC" for the best test documentation and test reports.

## Test conditions:

Voltage / Frequency: 230.0 V / 50Hz

Test phase: 1

Executed test: Dip example 1: Total drop

Test description: Total drop out, time increasing from 1 period up to 100 periods

Disturbances per step: 3 (per phase angle) / with 10.5 sec delay

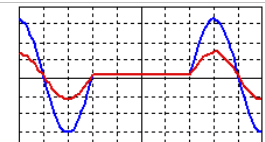
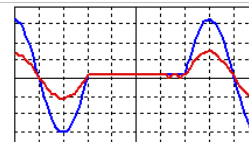
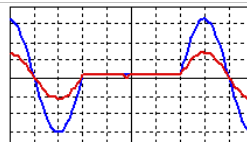
### Step 1

Voltage dip / short interruption

Test level: 0 %

Duration: 1 period

Phase angle (Ref. Phase 1): 0°



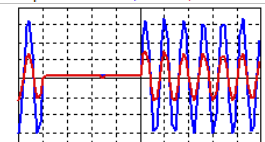
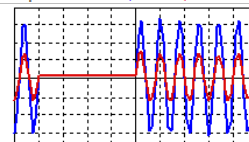
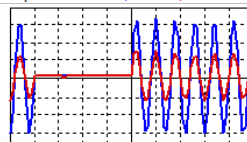
### Step 2

Voltage dip / short interruption

Test level: 0 %

Duration: 5 periods

Phase angle (Ref. Phase 1): 0°



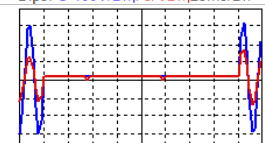
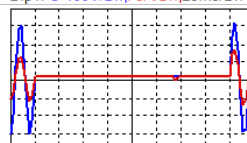
### Step 3

Voltage dip / short interruption

Test level: 0 %

Duration: 10 periods

Phase angle (Ref. Phase 1): 0°



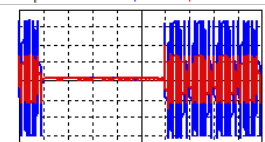
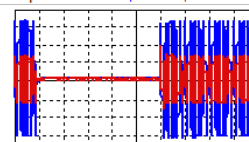
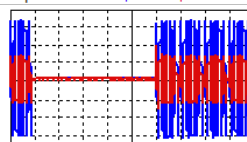
### Step 4

Voltage dip / short interruption

Test level: 0 %

Duration: 25 periods

Phase angle (Ref. Phase 1): 0°



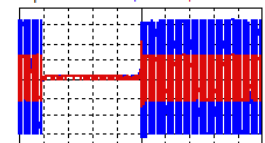
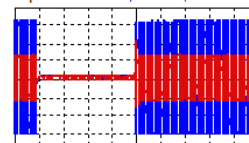
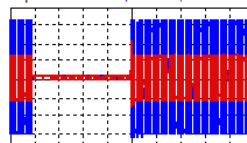
### Step 5

Voltage dip / short interruption

Test level: 0 %

Duration: 50 periods

Phase angle (Ref. Phase 1): 0°



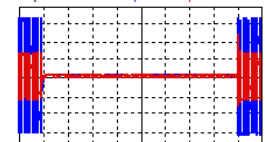
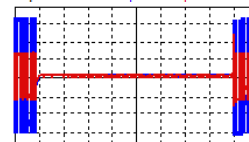
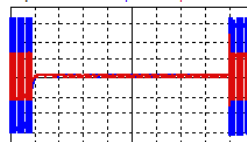
### Step 6

Voltage dip / short interruption

Test level: 0 %

Duration: 100 periods

Phase angle (Ref. Phase 1): 0°



## IEC/EN 61000-4-11 Test evaluation results:

- Normal performance within the specification limits
- Temporary degradation or loss of function or performance which is self-recoverable
- Temporary degradation or loss of function or performance which requires operator intervention or system reset
- Degradation or loss of function which is not recoverable due to damage of equipment or software or data loss