

# 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

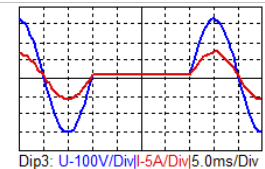
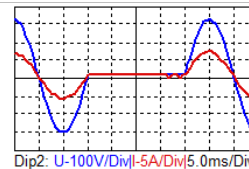
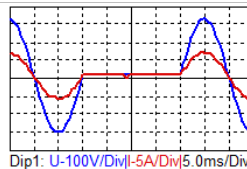
Test phase: 1

Executed test: Dip example 1: Total drop

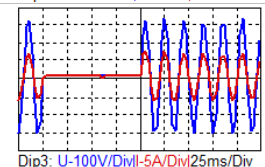
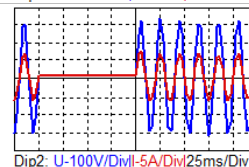
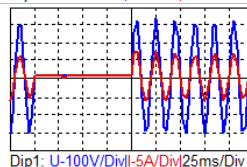
Test description: Total drop out, time increasing from 1 period up to 100 periods

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

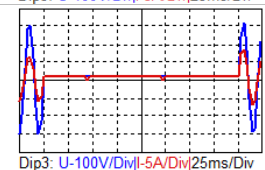
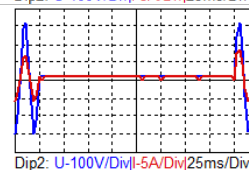
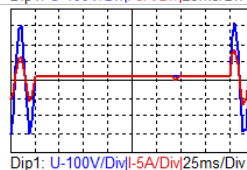
**Step 1**  
Voltage dip / short interruption  
Test level: 0 %  
Duration: 1 period  
Phase angle (Ref. Phase 1): 0°



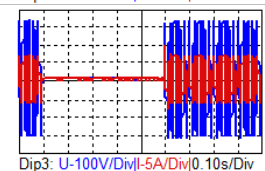
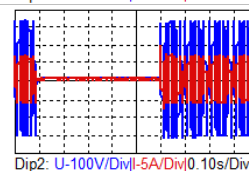
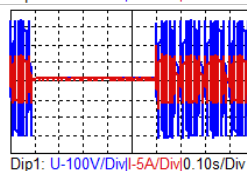
**Step 2**  
Voltage dip / short interruption  
Test level: 0 %  
Duration: 5 periods  
Phase angle (Ref. Phase 1): 0°



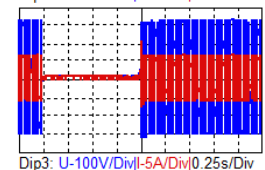
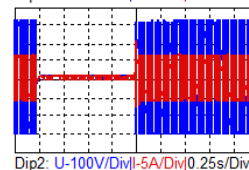
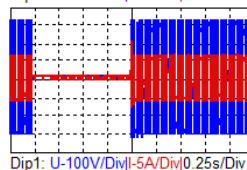
**Step 3**  
Voltage dip / short interruption  
Test level: 0 %  
Duration: 10 periods  
Phase angle (Ref. Phase 1): 0°



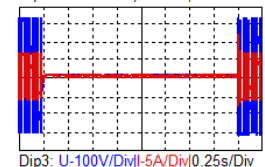
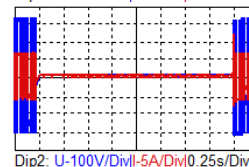
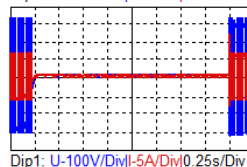
**Step 4**  
Voltage dip / short interruption  
Test level: 0 %  
Duration: 25 periods  
Phase angle (Ref. Phase 1): 0°



**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