

CL008 IEC61000-4-13 Test validation



File Help

CL008 IEC 61000-4-13 Test Validation Hardware Name: SIMULATION Software Version: 1.2.2.0 of 2014-12-29 Date and Time: 2015-02-17 15:25:15

Acquisition Test verification

Check Generator Flat Curve Over Swing Meister Curve

Automatic Test
START

Test Results
Check Generator
Flat Curve
Over Swing
Meister Curve

Filename: *
17-02-2015 15-25
Save Report

Class Selection:
Class 2
Change test limits
Spectrum Graph

	V1	V2	V3	Limit %	V1	V2	V3
RMS	230,0006	230,0006	230,0006	---	---	---	---
Main Frequency	50,0000	50,0000	50,0000	---	---	---	---
THD [%]	0,0000	0,0000	0,0000	---	---	---	---
THV [V]	0,0000	0,0000	0,0000	---	---	---	---
CF	1,414	1,414	1,414	1,40-1,42	OK	OK	OK
Angle at Max	90,000	90,000	90,000	87,00-93,00	OK	OK	OK
0	0,000	0,000	0,000	---	---	---	---
1	100,000	100,000	100,000	---	---	---	---
2	0,000	0,000	0,000	0,00-0,20	OK	OK	OK
3	0,000	0,000	0,000	0,00-0,90	OK	OK	OK
4	0,000	0,000	0,000	0,00-0,20	OK	OK	OK
5	0,000	0,000	0,000	0,00-0,40	OK	OK	OK
6	0,000	0,000	0,000	0,00-0,20	OK	OK	OK
7	0,000	0,000	0,000	0,00-0,30	OK	OK	OK
8	0,000	0,000	0,000	0,00-0,20	OK	OK	OK
9	0,000	0,000	0,000	0,00-0,20	OK	OK	OK
10	0,000	0,000	0,000	0,00-0,20	OK	OK	OK
11	0,000	0,000	0,000	0,00-0,10	OK	OK	OK
12	0,000	0,000	0,000	0,00-0,10	OK	OK	OK
13	0,000	0,000	0,000	0,00-0,10	OK	OK	OK
14	0,000	0,000	0,000	0,00-0,10	OK	OK	OK
15	0,000	0,000	0,000	0,00-0,10	OK	OK	OK
16	0,000	0,000	0,000	0,00-0,10	OK	OK	OK
17	0,000	0,000	0,000	0,00-0,10	OK	OK	OK
18	0,000	0,000	0,000	0,00-0,10	OK	OK	OK

Example of test validation results

CL008 IEC61000-4-13 Test validation software verifies power source and disturbance signals during the harmonic and inter-harmonic immunity test according to IEC61000-4-13.

The Software is able to verify for each of 3 phases:

- The voltage generator distortion
- The parameters of the Flat Curve test
- The parameters of the Over Swing test
- The parameters of the Meister Curve test



AUT HW 008 3V30 3 Channels Analog Input

In order to provide the compliance with the standard, the **Test Verification** window allows the user to verify power supply generator performance during different tests required by the standard IEC 61000-4-13.

It is possible to run the tests in manual and automatic mode, since the software is able to detect the different tests which are part of this verification.

Benefits

- Include all instruments (Inter-Harmonics Analyzer, Oscilloscope) needed to verify the power source generator during the immunity test
- Evidence of compliance during test with judgment according to IEC61000-4-13
- Meister Curve analysis at 60Hz, with the ability to consider inter-harmonics components in multiples of 6Hz

SOFTWARE KEY FEATURES & SPECIFICATIONS

- Connection mode : USB
- Quick test setup and execution
- Collect, monitor and manage data
- Present data graphically
- Export data to other applications for presentation and analysis.

STANDARD REFERENCE

- IEC 61000-4-13. Testing and measurement techniques - Harmonics and inter-harmonics including mains signaling at a.c. power port, low frequency immunity tests

HARDWARE SUPPORTED

- 3V30 3-Channels, 300 Vrms Analog Input Module (AUT HW 008)
- Calibration services available

For more information or to try a demo, email Dario.Rivoltella@ul.com or Matteo.Fancello@ul.com