

Client: Band-it IDEX
Order number: EL7849
Date of tests: 28th of May 2026
Report code: TR

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Subject: Cable cleats for electrical installations.

Purpose: Test for resistance to electromechanical forces on cable cleats for electrical installations based on IEC 61914 ed. 3.0 2021-10, clause 9.5.2 and 9.5.3.

Object: Cable cleats for electrical installations.
Manufacturer: Band-it IDEX
Type: LFFC-F0815M***-A900 / CFFC-F0815M***-A900
Configuration: 5

Conclusion: The test results of the performed tests are stated in the table with test results and are shown in the pictures of the tests for resistance to electromechanical forces.

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Test Engineer

Checked by: R. Wanschers
Test Coordinator



This report consists of: 19
pages

P.A.H. van Gestel BSc
Manager Prof. Ir. Damstra Laboratory



Hengelo, 01-07-2026

The test results concern only the investigated test objects.



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Client:

Address:

Test location:

Tested by:

Observed by:

Band-it IDEX

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CO 80216

Denver

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Band-it IDEX

Band-it IDEX

IDEX China

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DOCUMENT CONTROL

Revision	Amendment	By	Date
PDL-26.102.02	Creation	B.S.	17-06-2026

1

Object identification



Photo 1

Cable cleats for electrical installations
Manufacturer: Band-it IDEX
Configuration: 5

1.1

Technical data and characteristics

The technical data and characteristics of the test object are defined by the following parameters as specified by the manufacturer

Test object	Cable cleat for electrical installations
Type	LFFC-F0815M***-A900 / CFFC-F0815M***-A900
Manufacturer	Band-it IDEX
Year of manufacture	2026

Rated characteristics of system	
Rated peak withstand current, I_{pk}	Several peak currents

2 Test program

Configuration	Cleat type	Centers between fixed cleats [mm]	Cable formation	Type of cable	Target peak current [kA]	Duration [ms]
5	LFFC-F0815M***-A900 / CFFC-F0815M***-A900	300	Trefoil	Class 5	45,4	100
Remarks:						

Table 1**2.1 Normative document**

IEC 61914:2021

Cable cleats for electrical installations

3 Test results

Configuration	Cleat type	Peak current [kA]	Centres between fixed cleats [mm]	Duration [ms]	Clause	Osc.	Verdict
5	LFFC-F0815M***-A900 / CFFC-F0815M***-A900	45,6 33,0 42,5	300	121	9.5.2	5	Pass
		45,9 33,3 42,0		121	9.5.3	6	
		50,2 36,0 46,3		121	9.5.2	32	
		50,2 36,2 46,1		123	9.5.3	33	
		55,8 40,0 51,2		123	9.5.2	34	
		60,1 42,7 55,5		124		35	
		65,0 48,2 62,1		122		36	
Remarks: Between Osc.33 and 34 all straps were replaced by new specimens. Between Osc.35 and 36 all straps were replaced by new specimens.							

Table 2

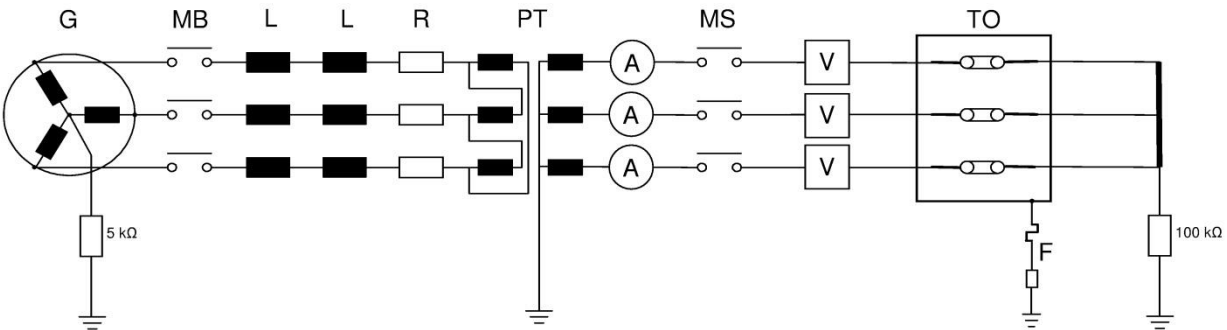
Appendix A Tests for the resistance to electromechanical forces

A.1 Tables with test results

	TABLE WITH TEST RESULTS Short-circuit withstand tests				Date:	Sheet:
	PDL-26.102.02				28-05-2026	SC1
Object: Cable cleats for electrical installations Manufacturer: Band-it						
Test and Osc no	Current				Test voltage	Remarks
	peak [A]	rms [A]	duration [ms]	Energy [I²t]	[V]	
Configuration 5 Cleat type: LFFC-F0815M***-A900 / CFFC-F0815M***-A900 Cable type: Class 5 Cleat spacing: 300 mm						
4	18,8 14,1 17,1	-	108	-	83	
5	45,6 33,0 42,5	-	121	-	201	9.5.2 Pass No visible disturbance.
6	45,9 33,3 42,0	-	121	-	201	9.5.3 Pass Water test at 1000 Vac: Pass No visible disturbance.
Phase values are to be read: L1(R) Supply → L1(R) object L2(S) Supply → L2(S) object L3(T) Supply → L3(T) object						

		TABLE WITH TEST RESULTS Short-circuit withstand tests				Date: 29-05-2026	Sheet: SC2
		PDL-26.102.02					
Object: Cable cleats for electrical installations Manufacturer: Band-it							
Test and Osc no	Current				Test voltage	Remarks	
	peak	rms	duration	Energy			
	[A]	[A]	[ms]	[I²t]	[V]		
Configuration 5 Cleat type: LFFC-F0815M***-A900 / CFFC-F0815M***-A900 Cable type: Class 5 Cleat spacing: 300 mm							
31	23,8 17,9 21,6	11,8 11,8 12,0	118	-	104		
32	50,2 36,0 46,3	25,0 25,1 25,4	121	-	220	9.5.2 Pass No visible disturbance.	
33	50,2 36,2 46,1	25,0 25,0 25,3	123	-	243	9.5.3 Pass Water test at 1000 Vac: Pass No visible disturbance.	
Repetition of Osc.33, all straps were replaced by new specimens.							
34	55,8 40,0 51,2	27,7 27,7 28,1	123	-	243	9.5.2 Pass No visible disturbance.	
35	60,1 42,7 55,5	29,9 29,9 30,2	124	-	263	9.5.2 Pass No visible disturbance.	
Repetition of Osc.35, all straps were replaced by new specimens.							
36	65,0 48,2 62,1	32,6 32,7 33,2	122	-	286	9.5.2 Pass No visible disturbance.	
Phase values are to be read: L1(R) Supply → L1(R) object L2(S) Supply → L2(S) object L3(T) Supply → L3(T) object							

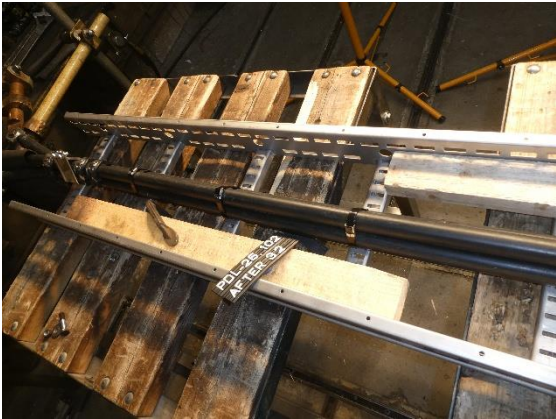
A.2 Test circuit diagram

	TEST CIRCUIT DIAGRAMS Short-circuit laboratory	Test report: PDL-26.102.02
Three phase circuit 		
G : Generator MB : Master Breaker L : Reactor R : Resistance PT : Power Transformer MS : Making Switch TO : Test Object V : Voltage Measurement between phases A : Current Measurement F : Fusible element, with current limiting resistance (not attached during earth fault testing)		

A.3 Pictures of the tests for resistance to electromechanical forces

	
Photo 2: Before Osc.4	Photo 3: After Osc.5
	
Photo 4: After Osc.6	Photo 5: Before Osc.31

PDLF-90810A_V3.0

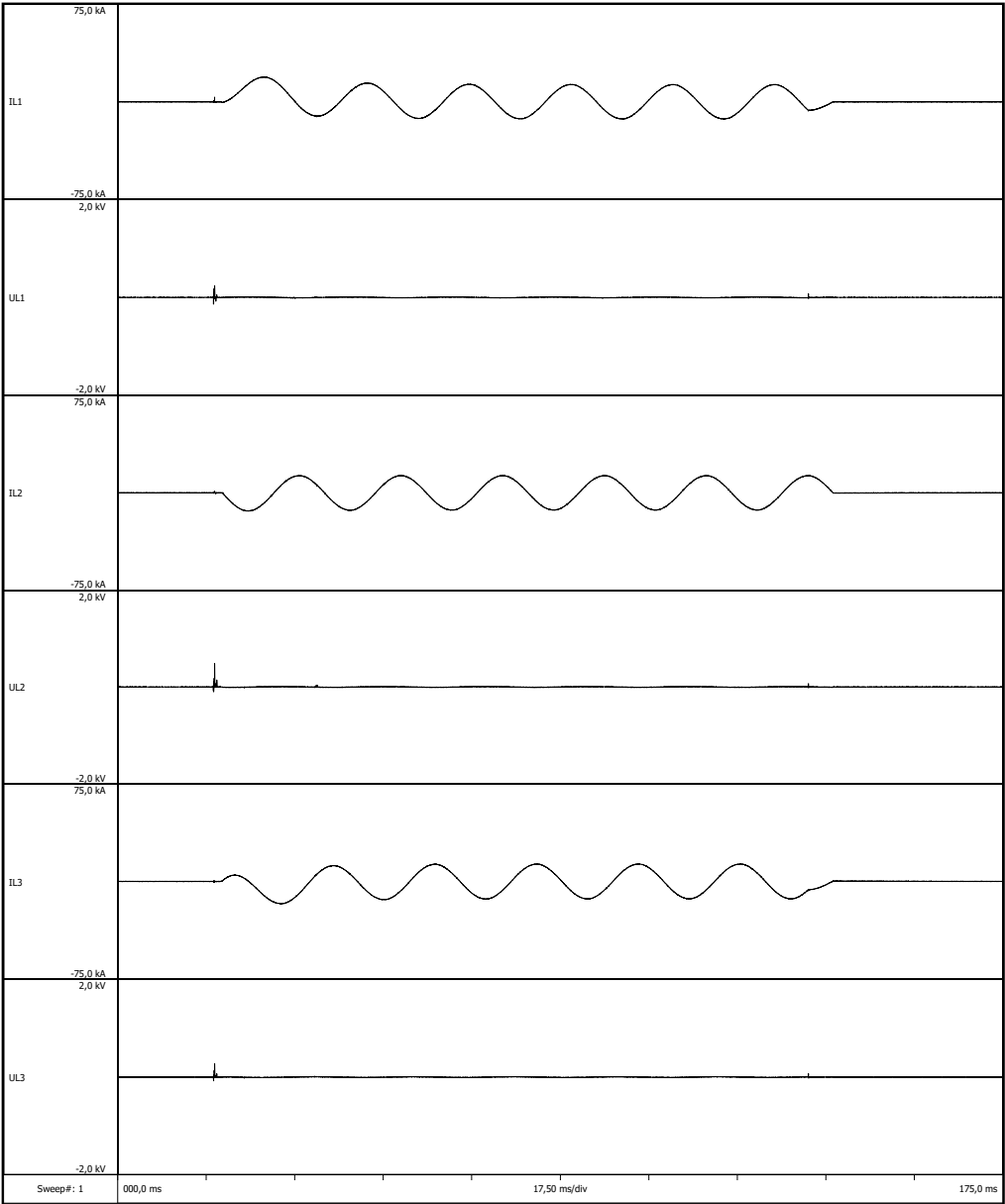
	
Photo 6: Before Osc.31	Photo 7: After Osc.32
	
Photo 8: After Osc.32	Photo 9: After Osc.36

A.4 Oscillograms

PDL-26.102

Osc004

28-5-2026

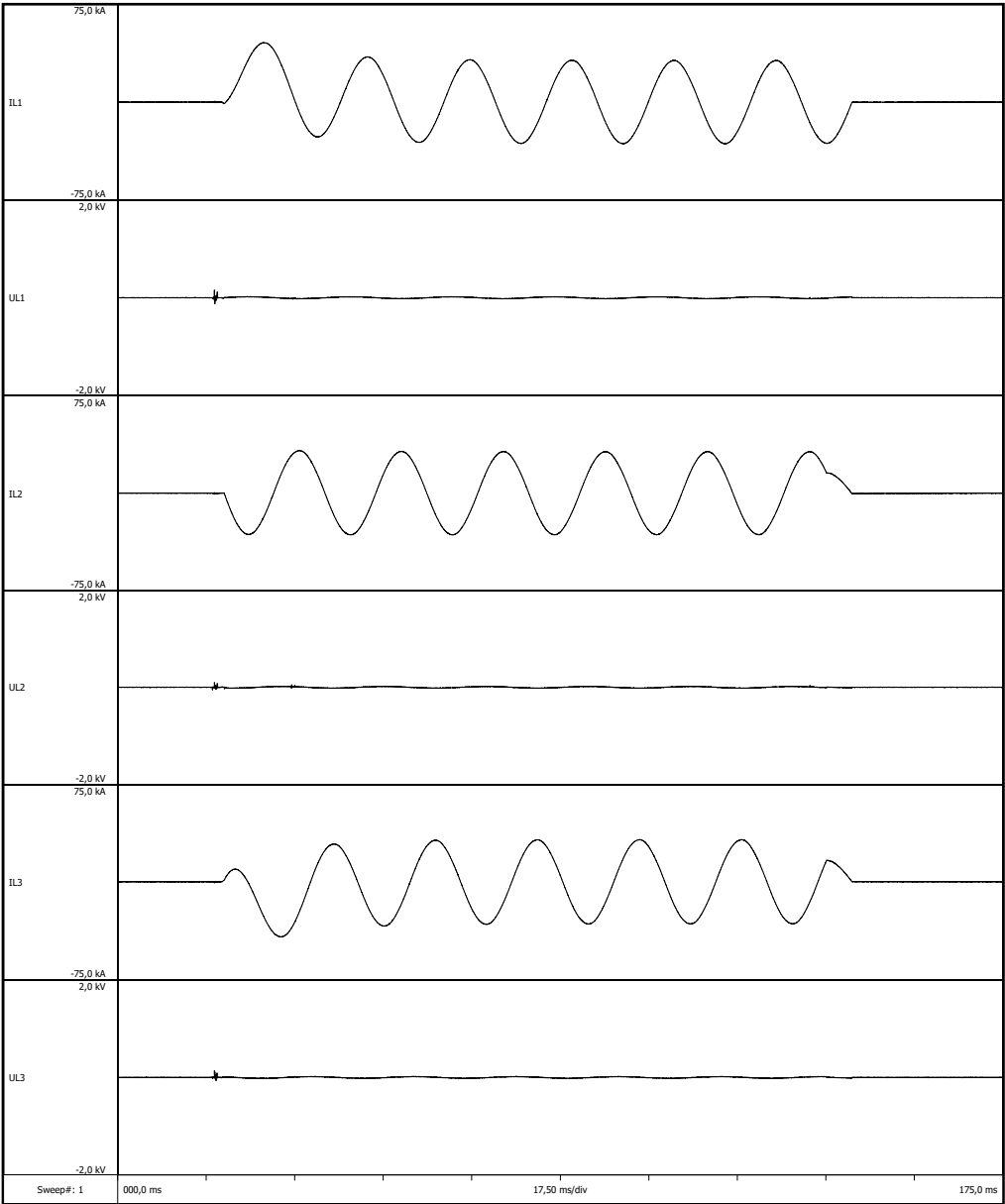


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PDL-26.102

Osc005

28-5-2026

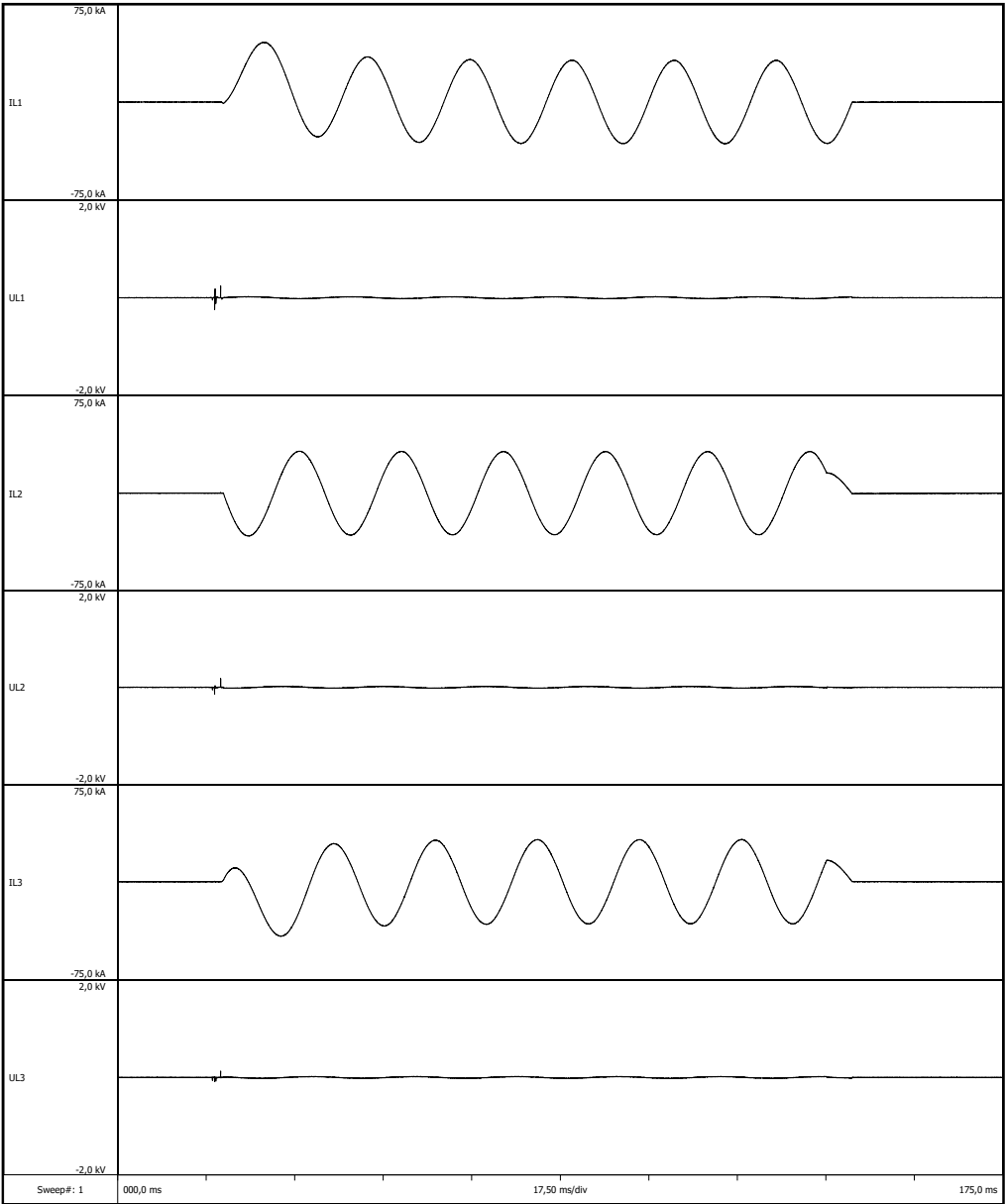


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PDL-26.102

Osc006

28-5-2026

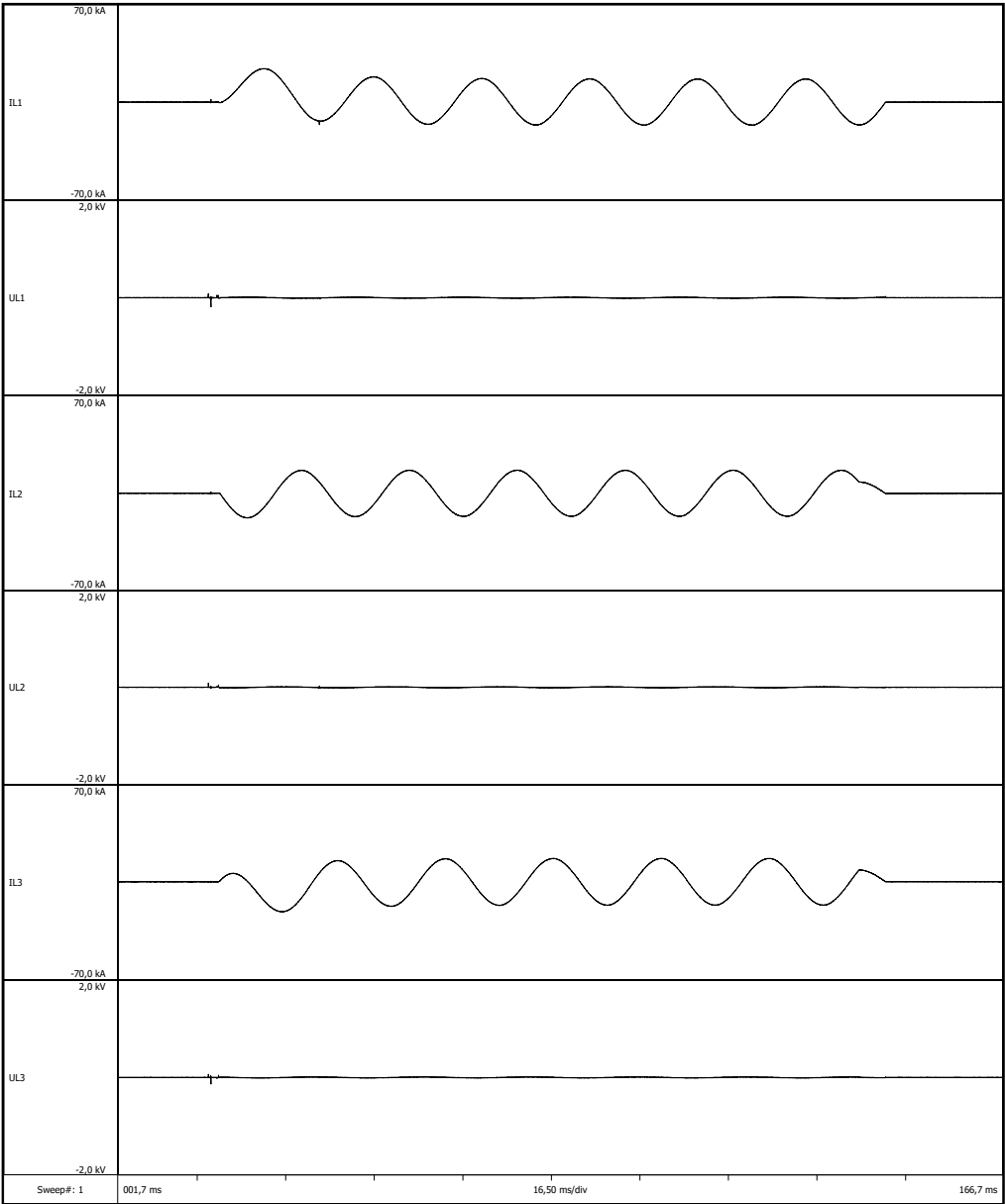


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PDL-26.102

Osc031

29-5-2026

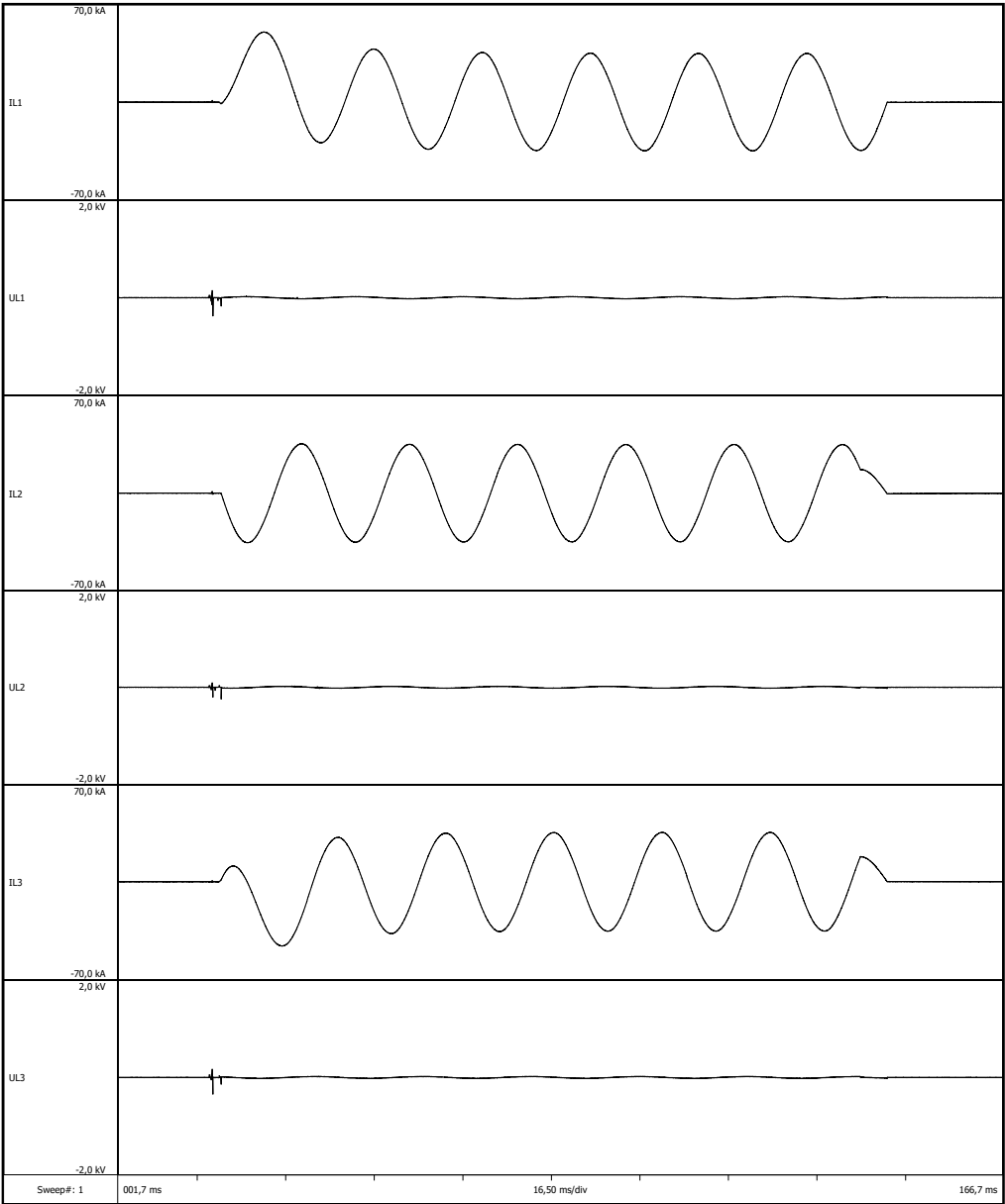


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Osc032

29-5-2026

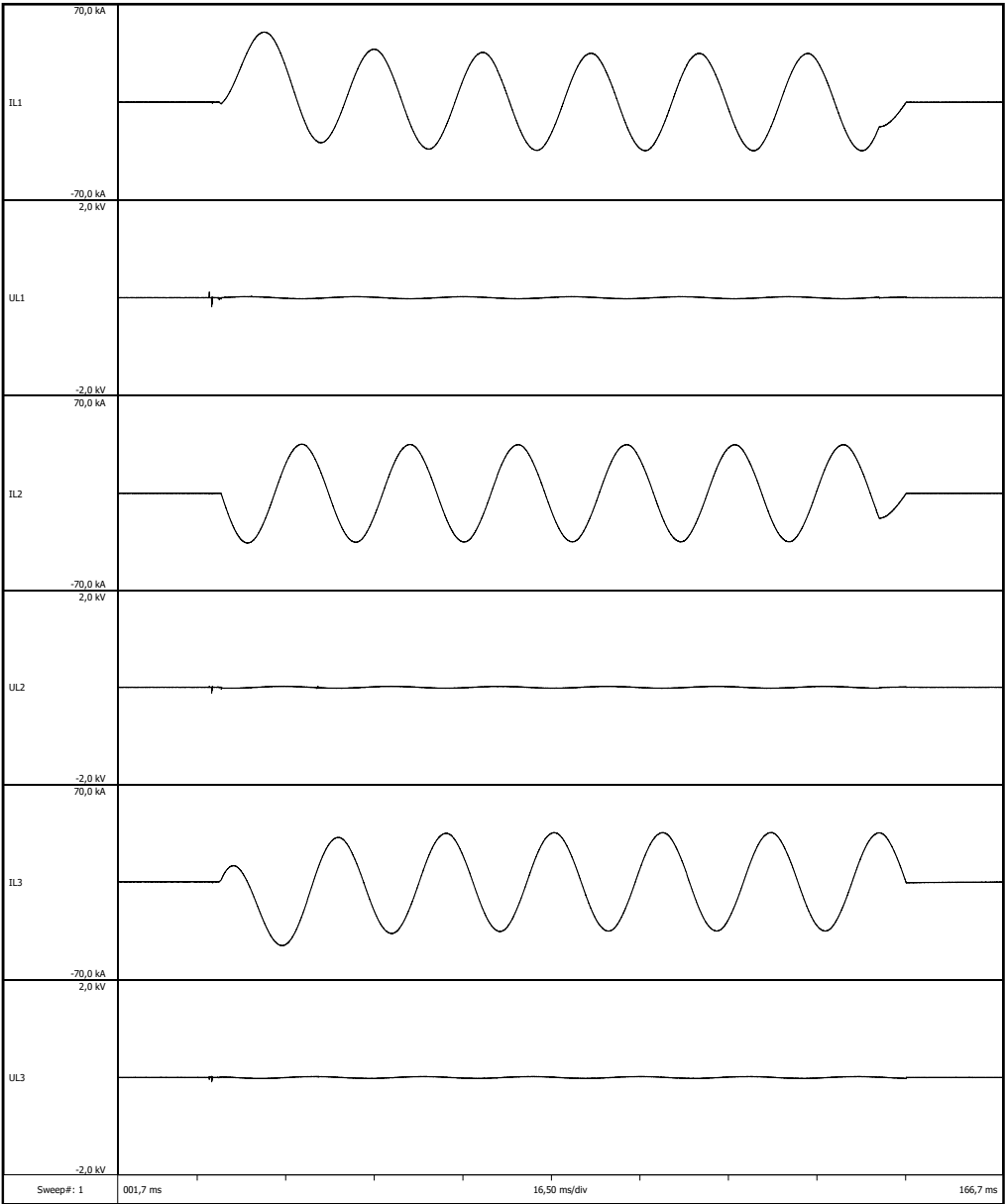


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PDL-26.102

Osc033

29-5-2026

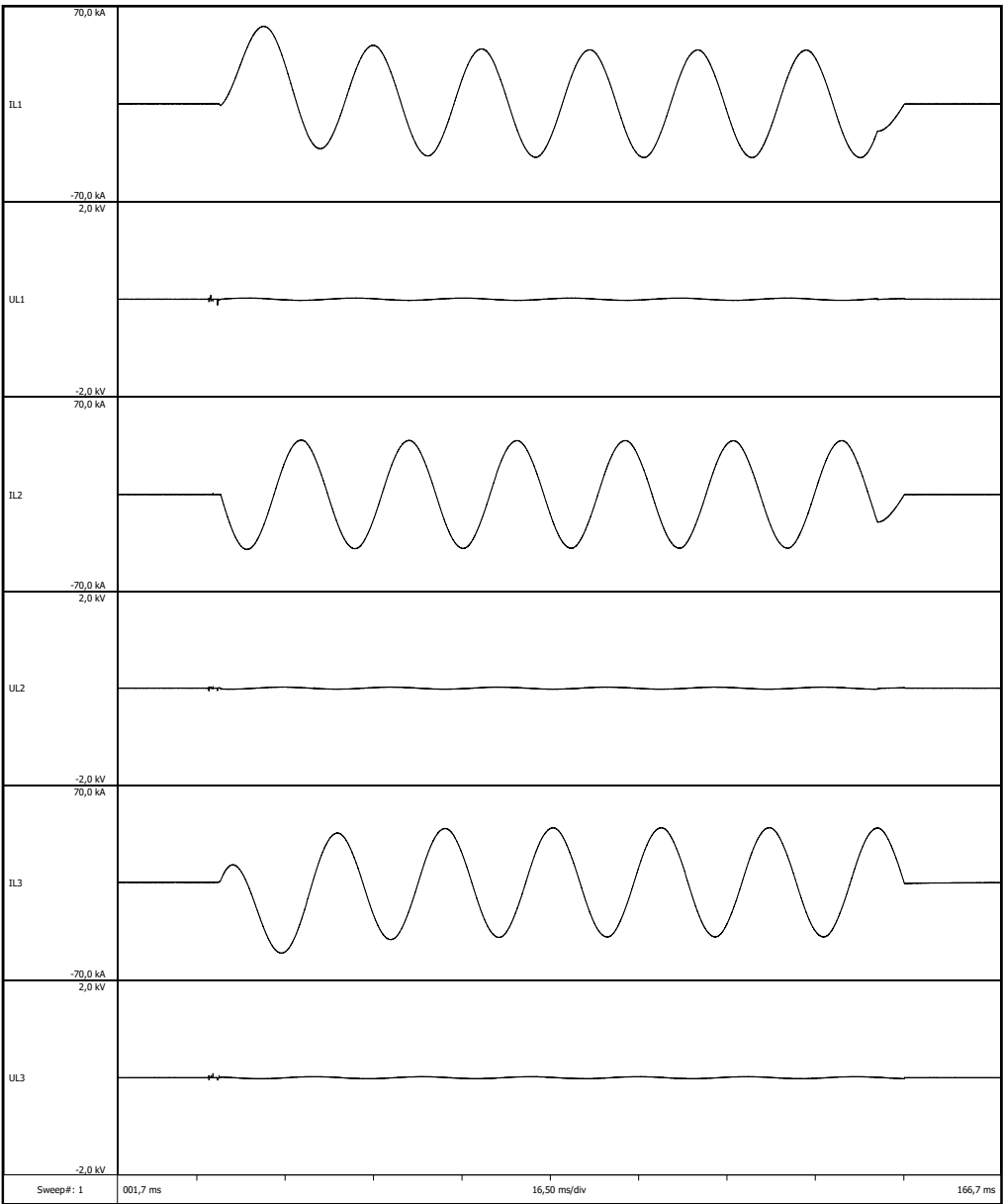


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PDL-26.102

Osc034

29-5-2026

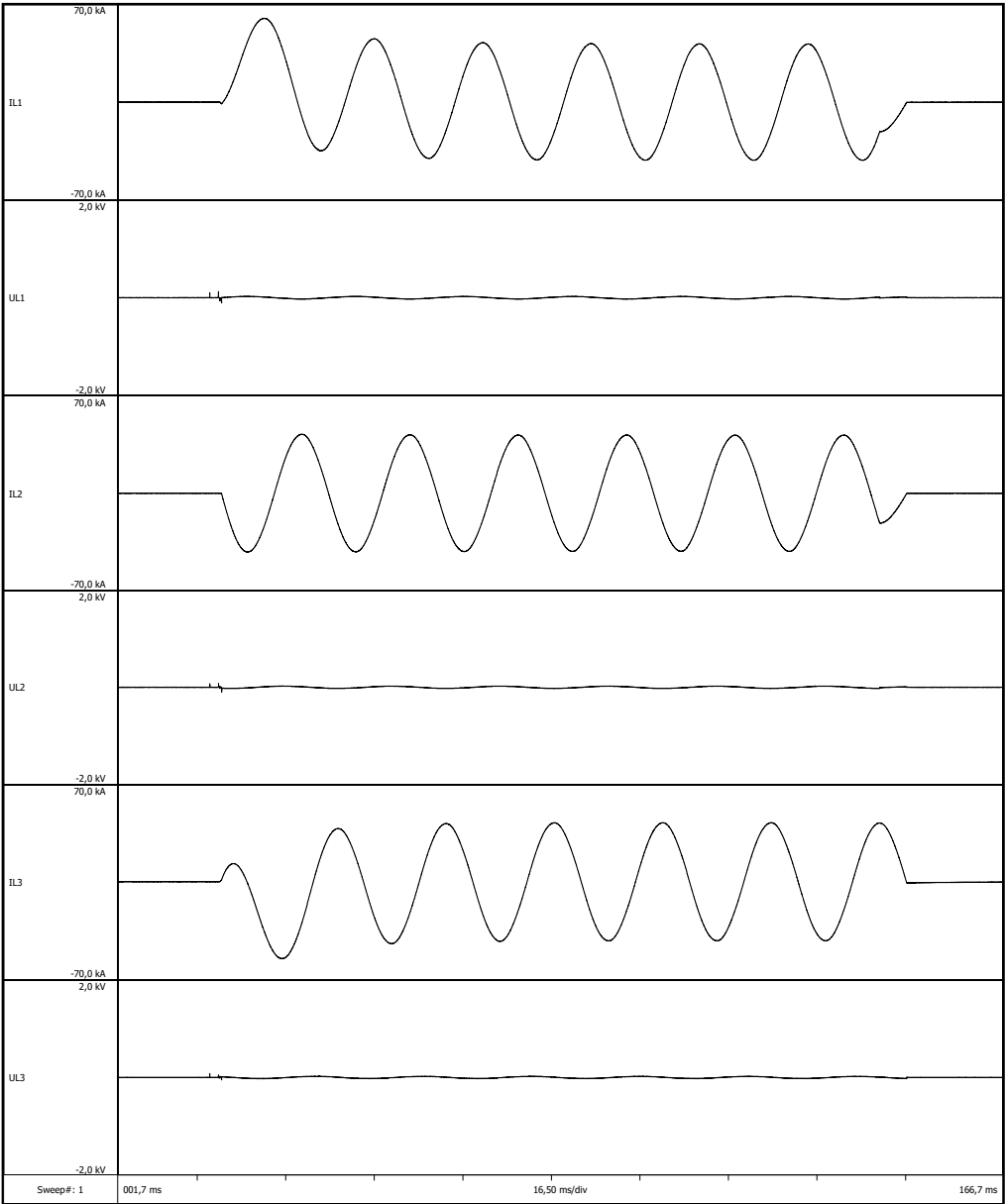


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PDL-26.102

Osc035

29-5-2026

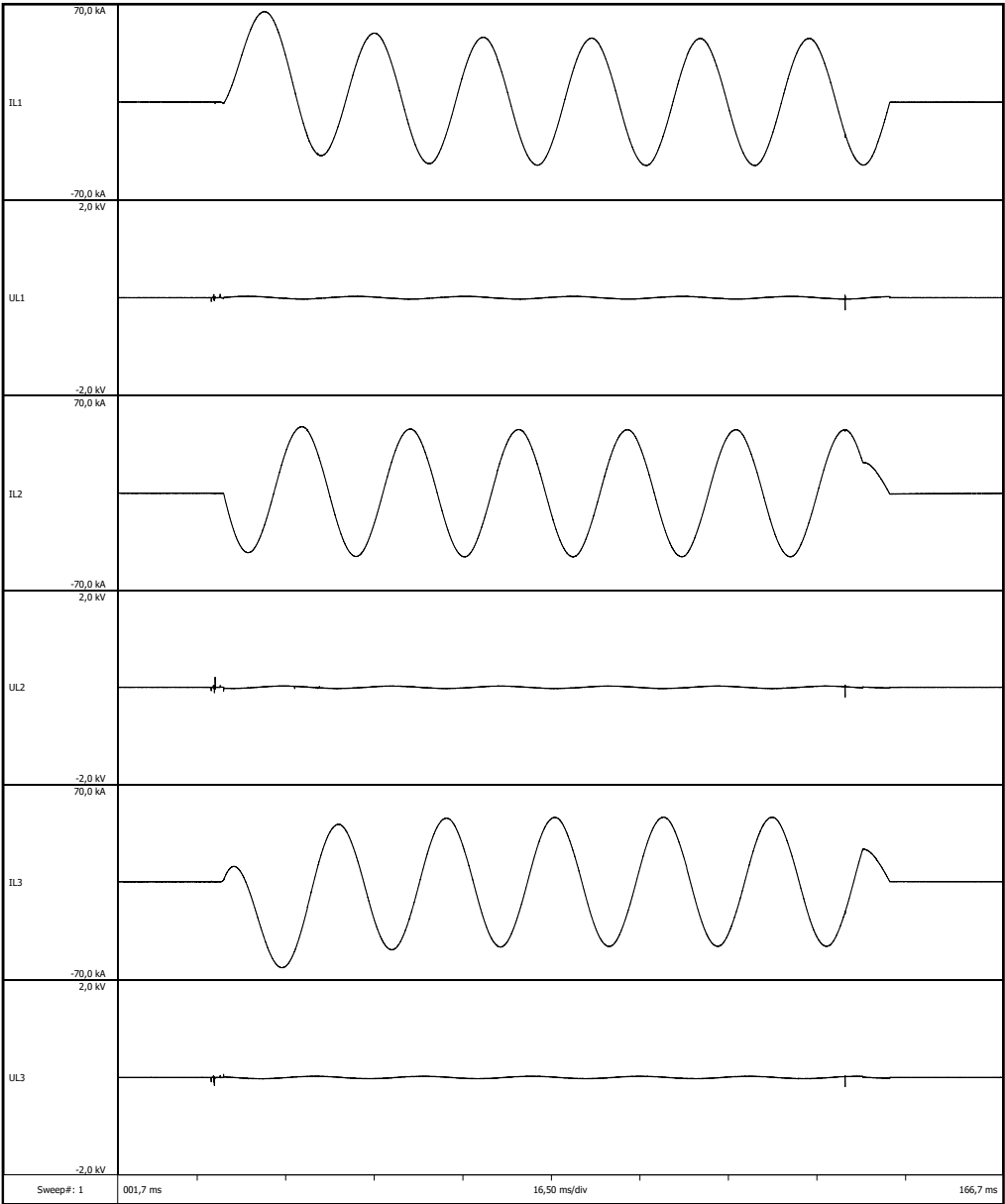


PDLF-90810A_V3.0

PDL-26.102

Osc036

29-5-2026



PDLF-90810A_V3.0

Appendix B Decision rule, measurement uncertainty and used equipment

- The decision rule for the statement of conformity is based on "Simple Acceptance" in accordance with IEC Guide 115:2023. This implies that the measurement uncertainty is not considered for the statement of conformity. Unless otherwise required by the standard or requested by the client on the front page of this Test report.
- The measurement uncertainty is available on request.
- The used measurement equipment is calibrated by an ISO/IEC 17025 accredited calibration laboratory and traceable to national and international standards. Information of the used measurement equipment is available on request.