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Current product-code edition

Report: PDL-26.102.02

Product-family identifiers in the following report use the current CFFC and CFEC codes.

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The original report numbers, dates, test arrangements, measurements and recorded results are retained. Printed report page numbers remain unchanged; this cover adds one PDF page.

Original source copies are retained in the website source archive. Refer to the complete report and the tested arrangement when assessing a proposed installation.

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TEST REPORT

PDL-26.102.02

DAMSTRALAB
ELECTRICAL POWER TESTING

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

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: CFFC-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.

Author: B. Stange
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:	Band-it IDEX	
Address:	4799 Dahlia street CO 80216 Denver United States	
Test location:	Prof. Ir. Damstra Laboratory Hengelo, The Netherlands	
Tested by:	B. Stange	Prof. Ir. Damstra Laboratory
Observed by:	P. Moreno T. Lambert G. Li	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

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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	CFFC-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

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2 Test program

Configuration	Cleat type	Centers between fixed cleats [mm]	Cable formation	Type of cable	Target peak current [kA]	Duration [ms]
5	CFFC-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	CFFC-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

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Appendix A Tests for the resistance to electromechanical forces

A.1 Tables with test results

DAMSTRALAB ELECTRICAL POWER TESTING	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: CFFC-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

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DAMSTRALAB ELECTRICAL POWER TESTING	**TABLE WITH TEST RESULTS** Short-circuit withstand tests PDL-26.102.02	Date: 29-05-2026	Sheet: SC2

Object: Cable cleats for electrical installations
Manufacturer: Band-it

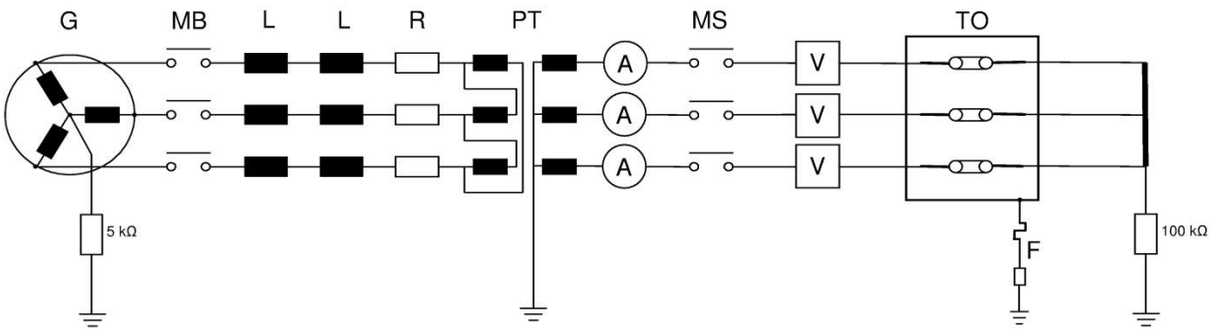
Test and Osc no	Current				Test voltage	Remarks
	peak [A]	rms [A]	duration [ms]	Energy [I²t]	[V]	
Configuration 5 Cleat type: CFFC-F0815M***-A900 / CFFC-F0815M***-A900 Cable type: Class 5 Cleat spacing: 300 mm						
31	23,8 17,9 21,6	11,8 11,8 12,0	118	-	104	
32	50,2 36,0 46,3	25,0 25,1 25,4	121	-	220	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						

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A.2 Test circuit diagram

DAMSTRALAB ELECTRICAL POWER TESTING	**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)

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



Photo 2: Before Osc.4



Photo 3: After Osc.5

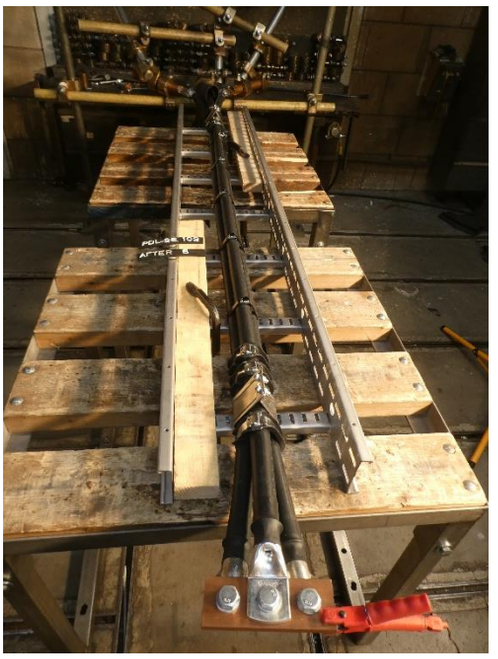


Photo 4: After Osc.6



Photo 5: Before Osc.31

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Photo 6: Before Osc.31



Photo 7: After Osc.32

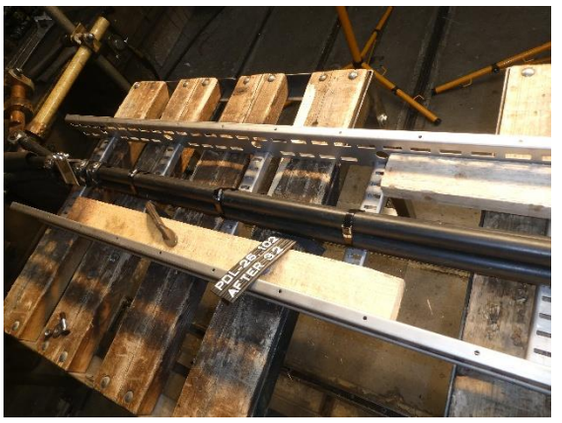


Photo 8: After Osc.32

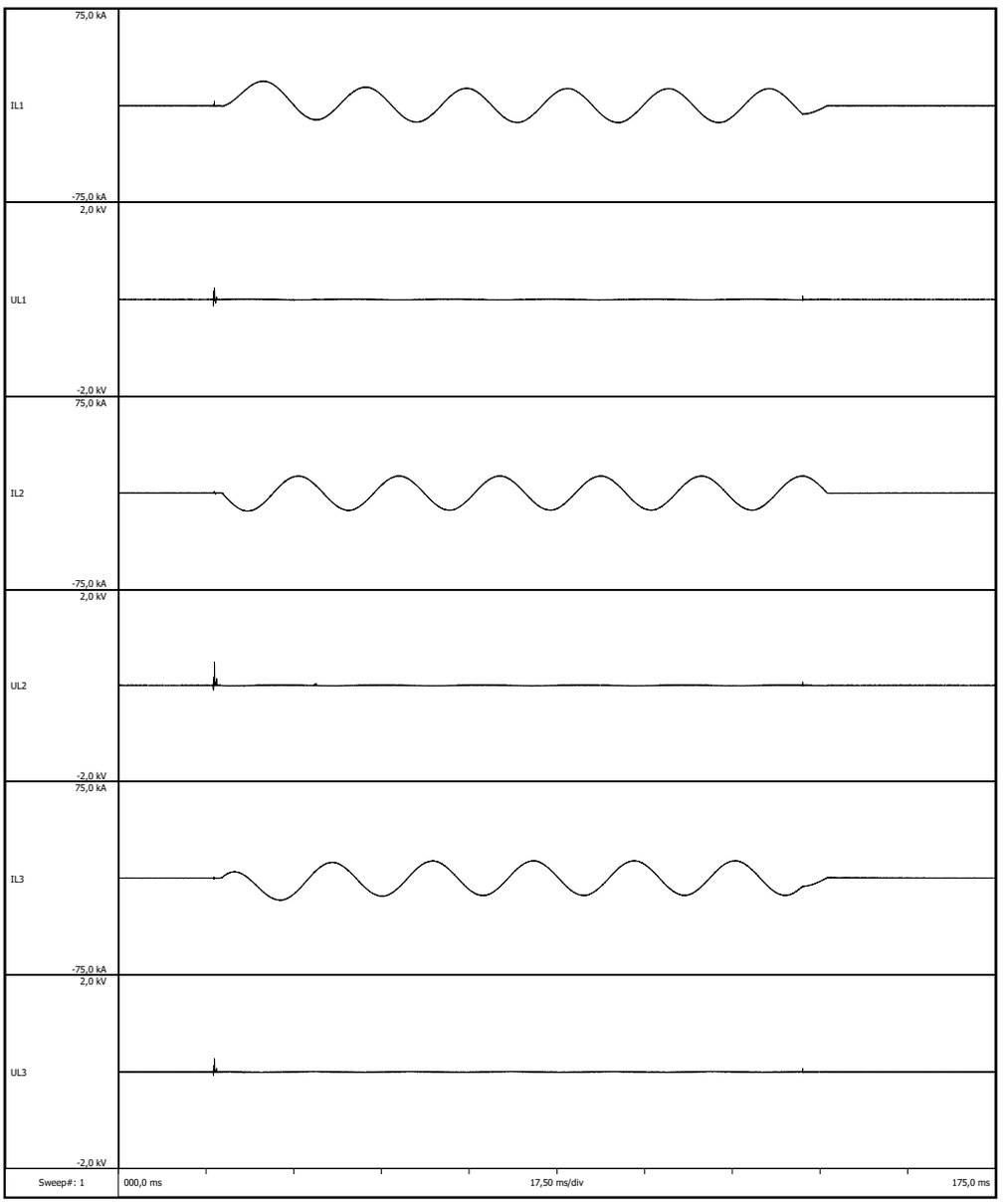


Photo 9: After Osc.36

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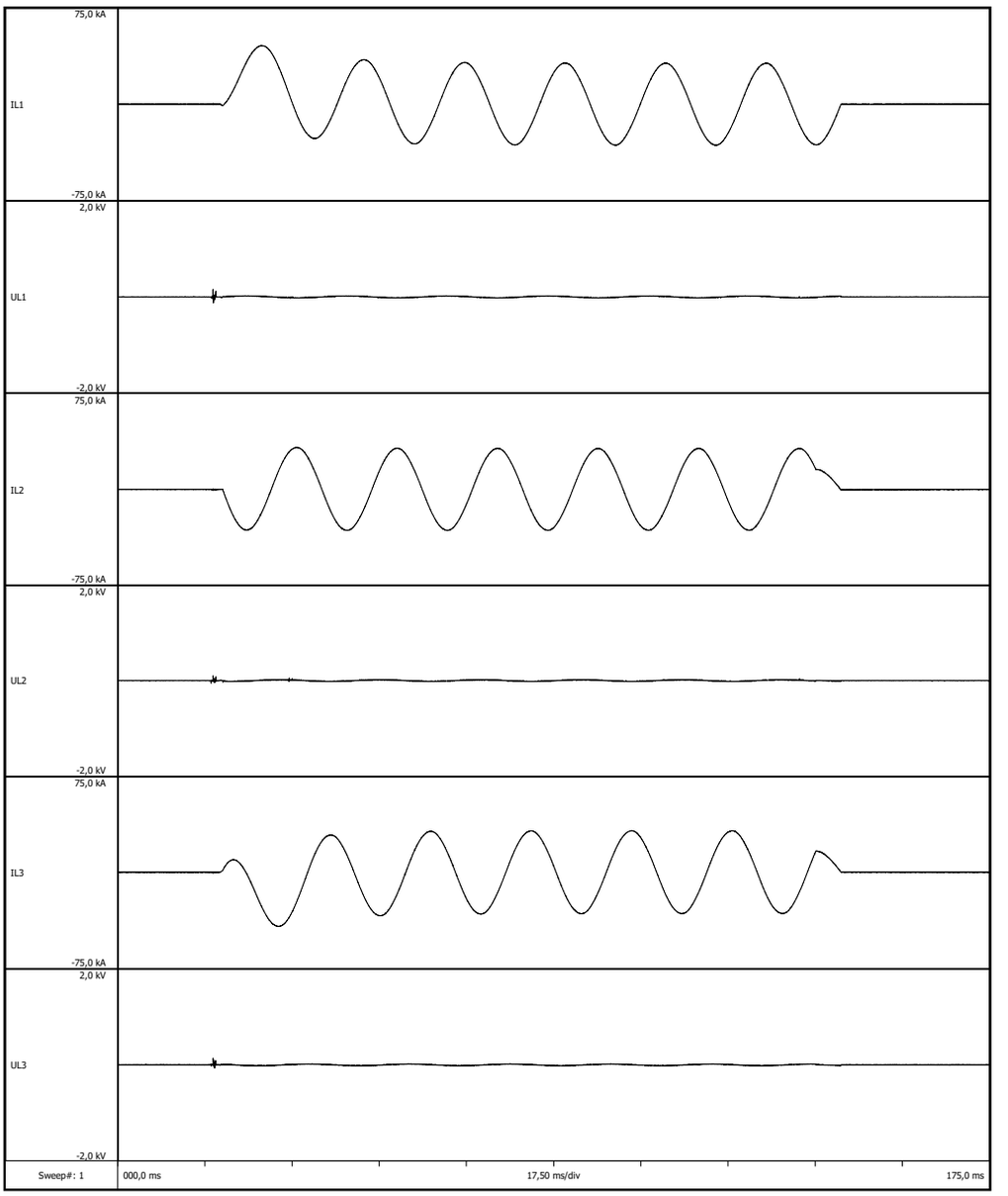
A.4 Oscillograms

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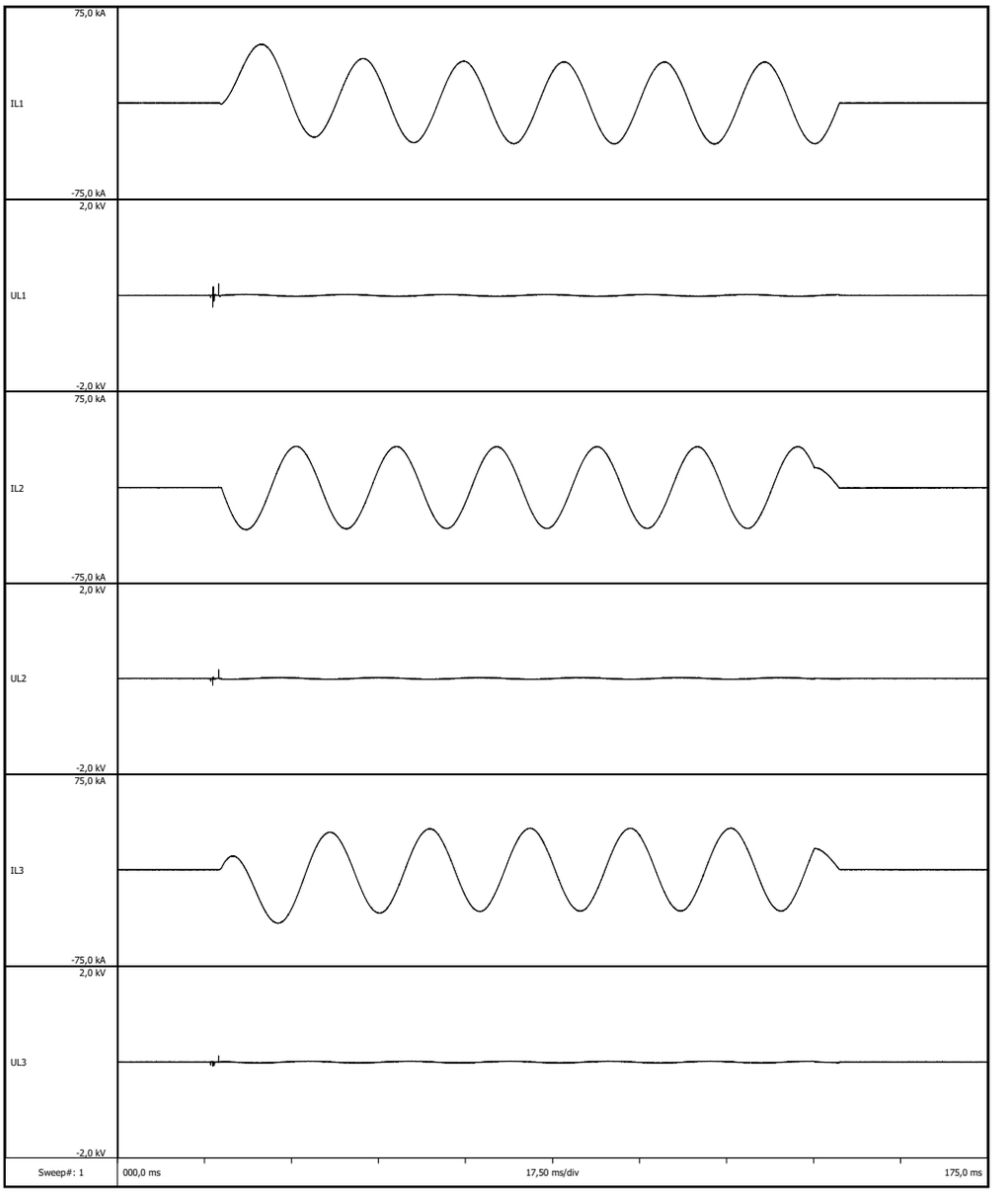
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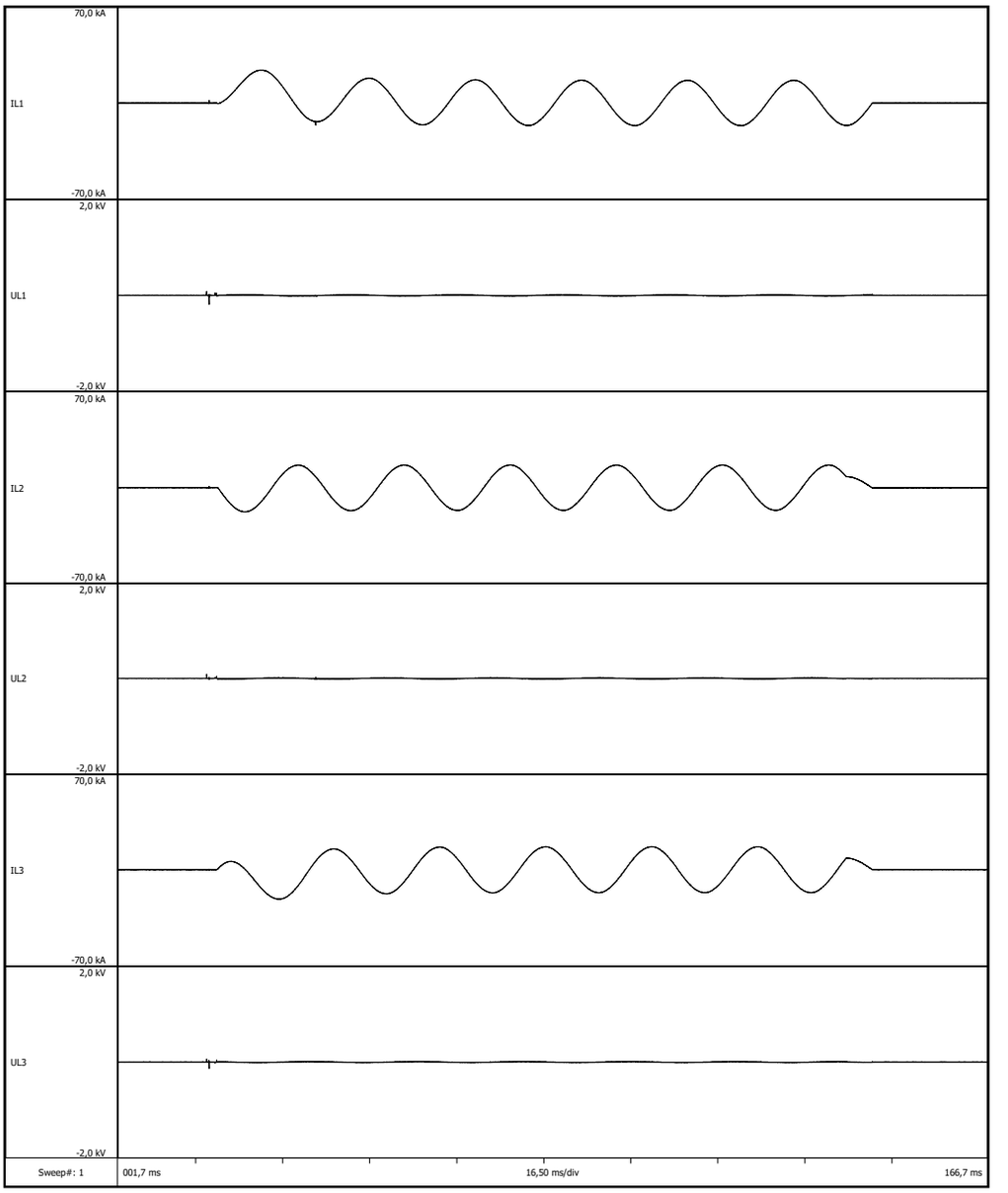
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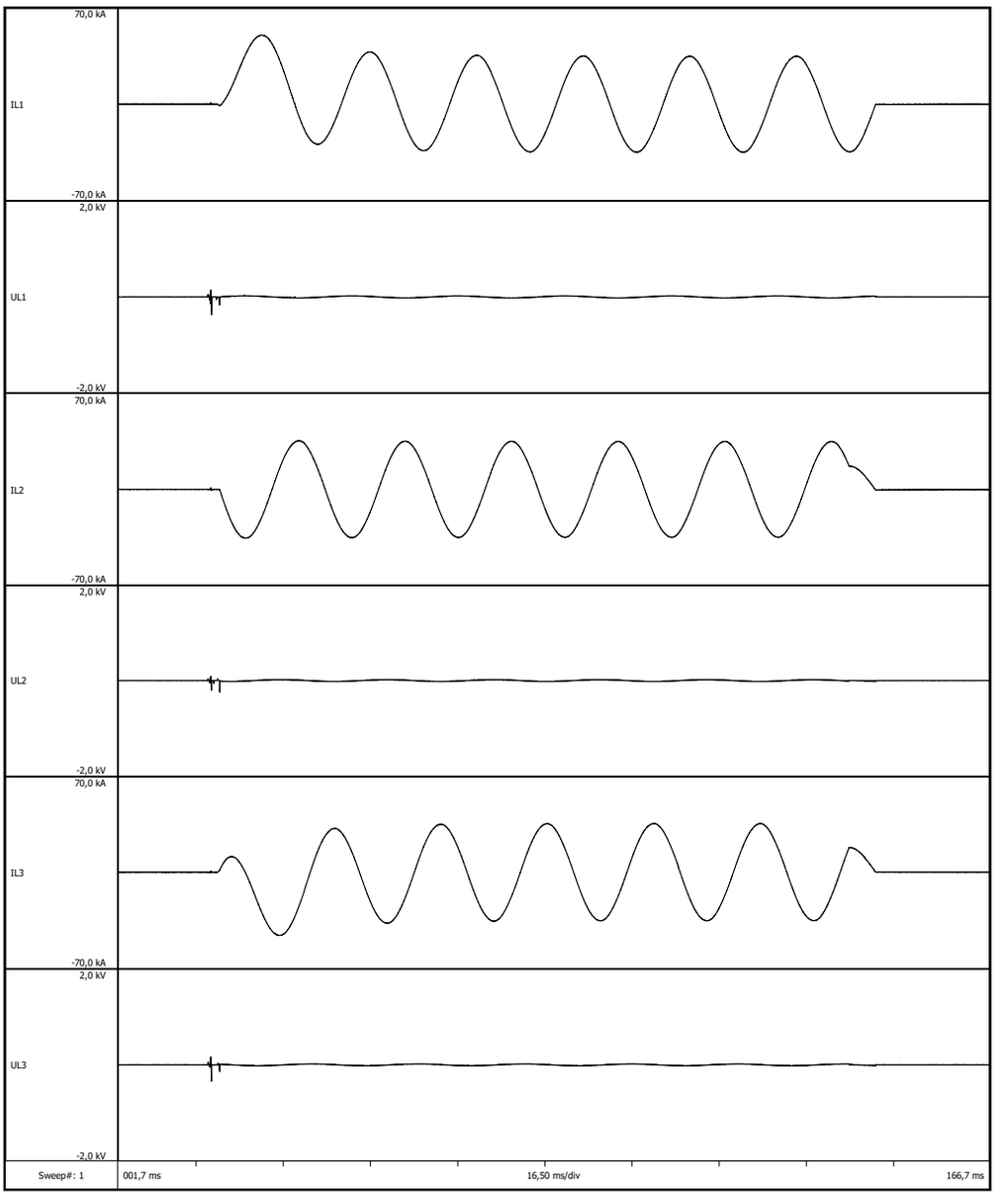
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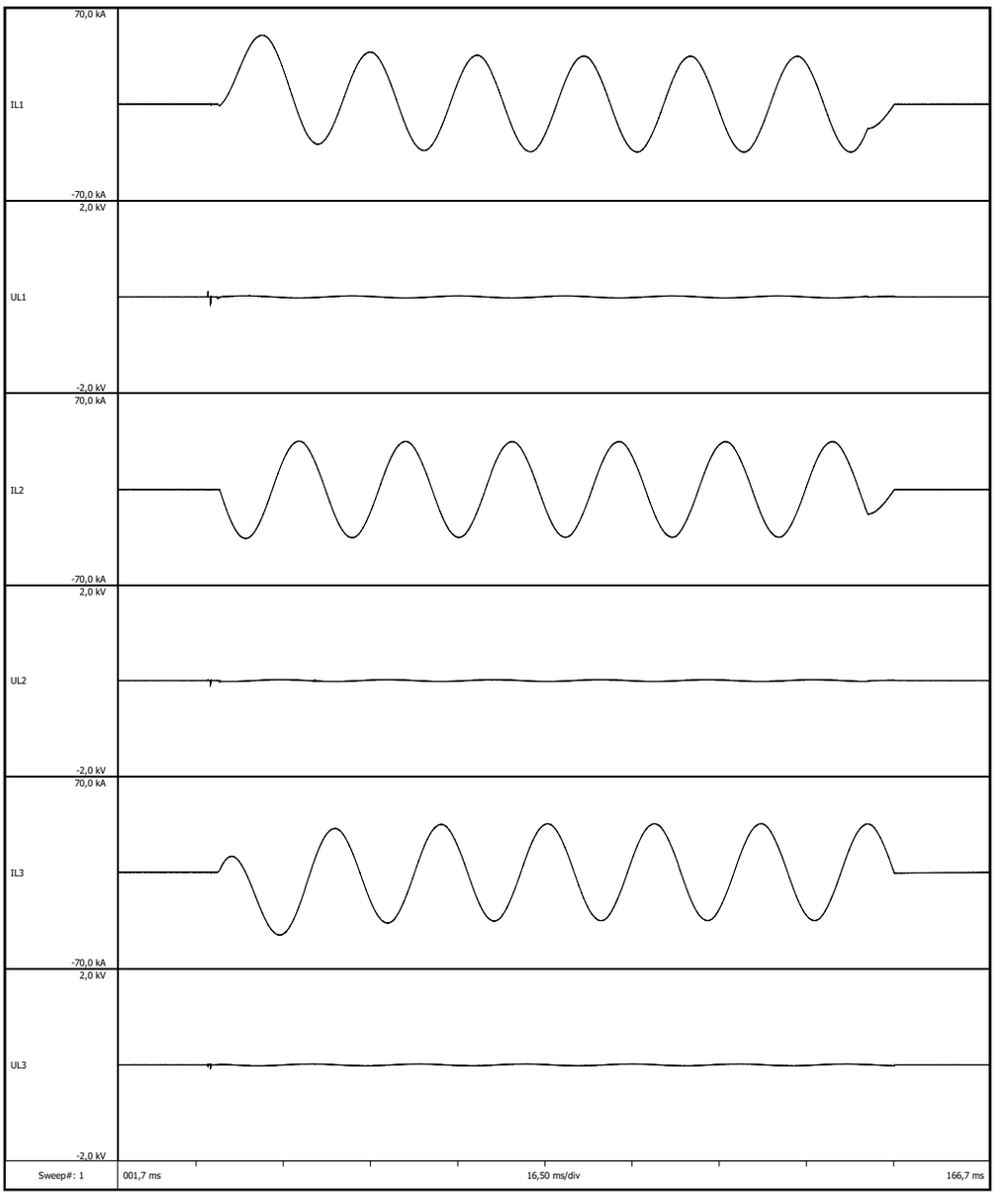
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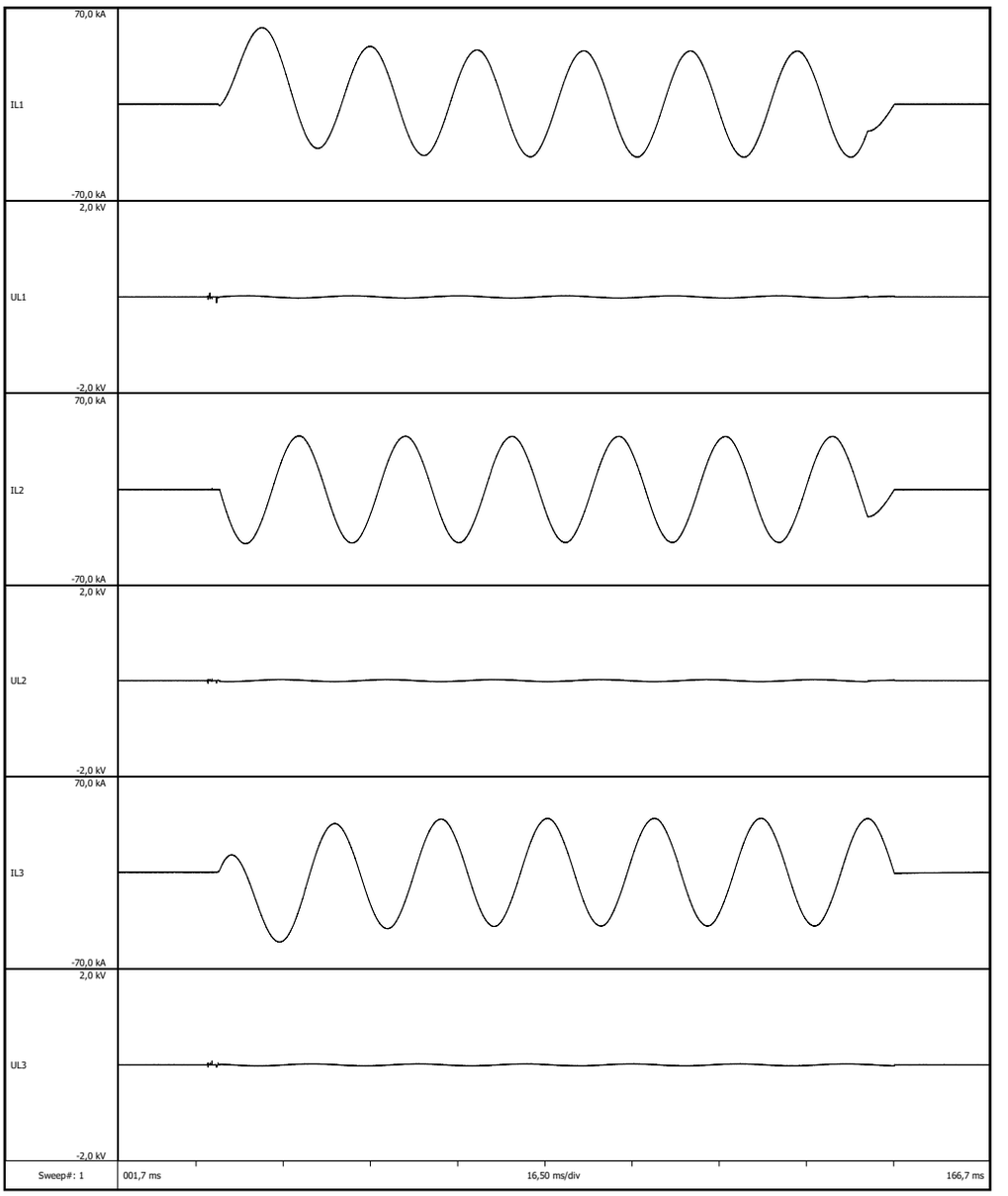
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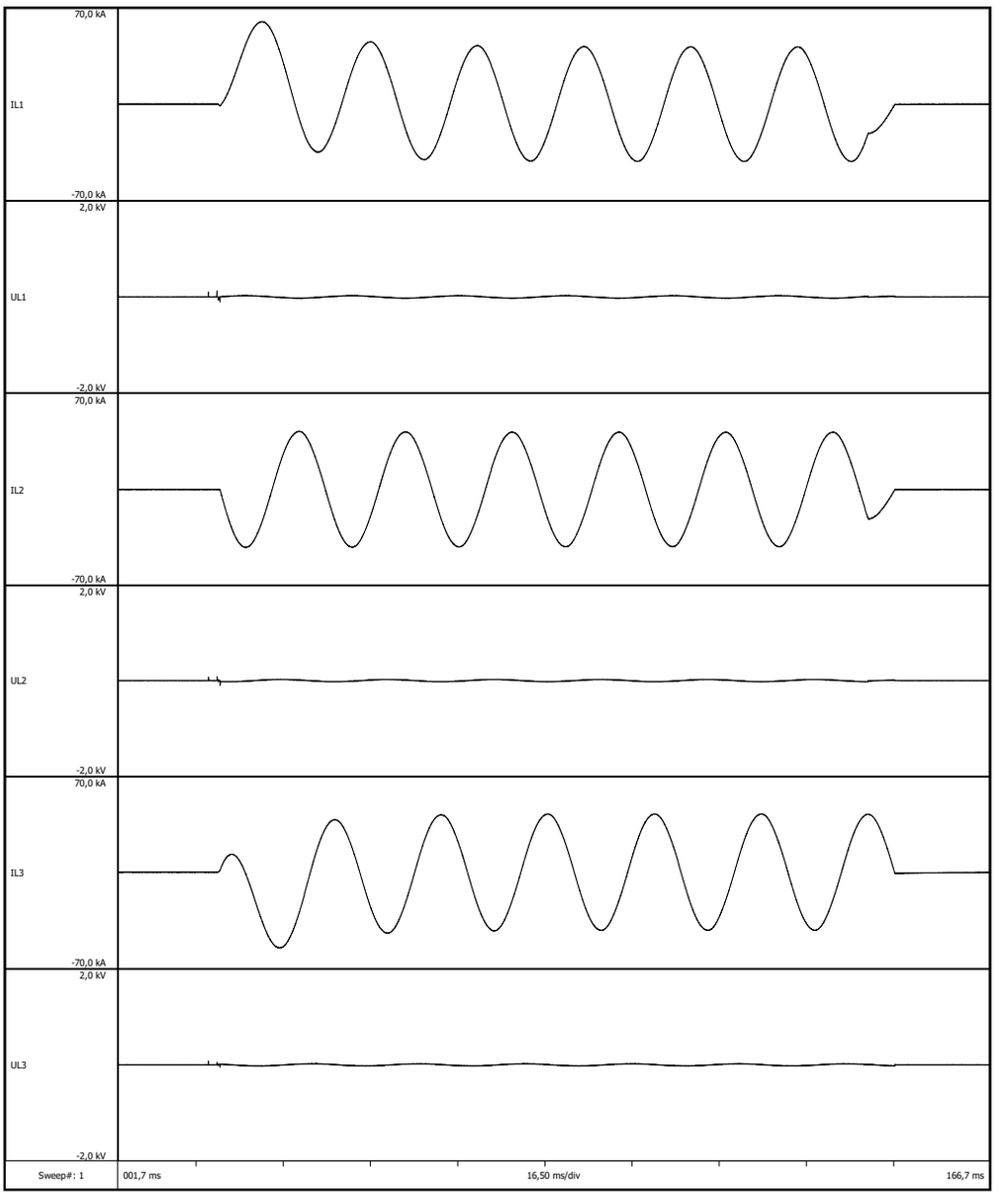
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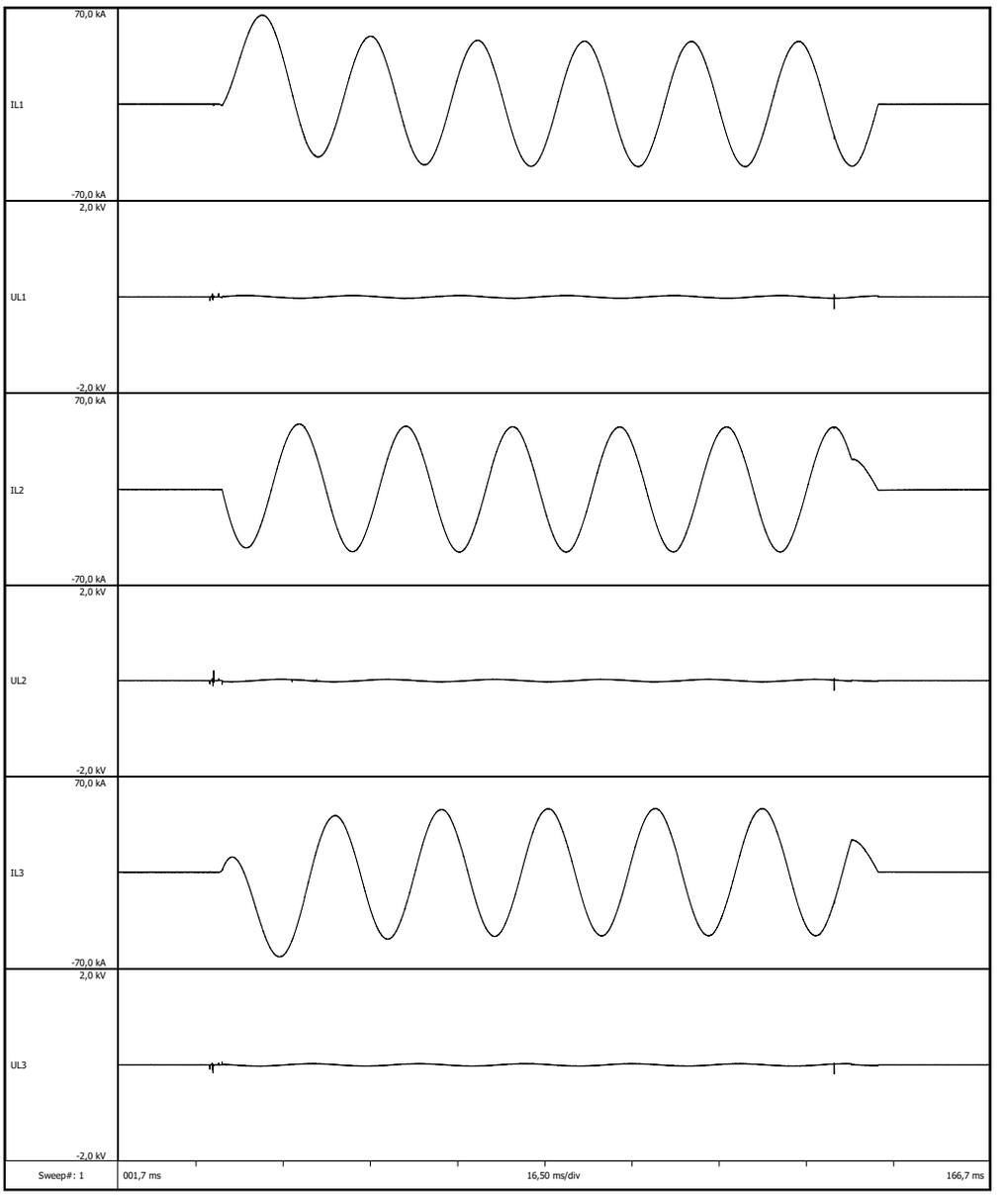
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Appendix B Decision rule, measurement uncertainty and used equipment

- 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.

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