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TEST REPORT

PDL-26.160.04

DAMSTRALAB
ELECTRICAL POWER TESTING

Client:	Band-it IDEX
Order number:	EL7880
Date of tests:	10th and 11th of September 2026
Report code:	TR

Prof. Ir. Damstra Laboratory
P.O. Box 23, 7550 AA Hengelo
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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: CFFC-F1015M***-A900 / CFFC-F1015M***-A900

Conclusion: The test results of the performed test 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: 31 pages

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

Hengelo, 21-09-2026

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 M. Dietsche S. Galante	Band-it IDEX Band-it IDEX Band-it IDEX

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DOCUMENT CONTROL

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1 Object identification

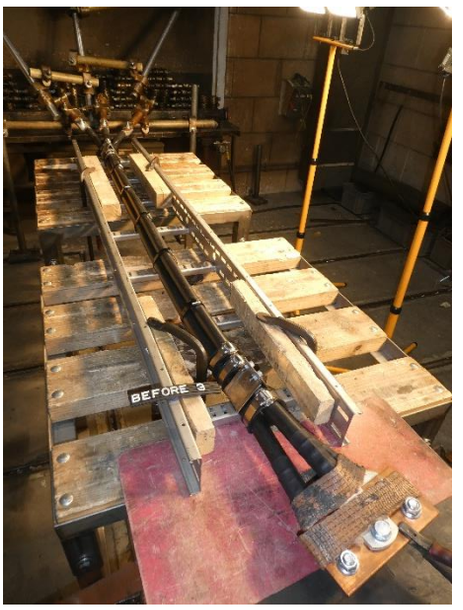




Photo 1 and 2 Cable cleats for electrical installations
Manufacturer: Band-it IDEX
Test rig number: 1

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 cleats for electrical installations
Type	CFFC-F1015M***-A900 / CFFC-F1015M***-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

Test rig number	Cleat type	Centers between fixed cleats [mm]	Cable formation	Type of cable	Target peak current [kA]	Duration [ms]
1	CFFC-F1015M***-A900 (double normally wrapped)	300	Trefoil	Class 5	70	100
2	CFFC-F1015M***-A900 (double cross-wrapped)				65	
3	CFFC-F1015M***-A900 (triple cross-wrapped)				85	
8	CFFC-F1015M***-A900 (double wrapped, PPA coated)	600			65	
9	CFFC-F1015M***-A900 (double cross wrapped, PPA coated)					
10	CFFC-F1015M***-A900 (triple cross wrapped, PPA coated)				80	
17	CFFC-F1015M***-A900 (double wrapped, PPA coated and with D70109 bracket)	300			70	
16a	CFAC-F0430M*** (double wrapped, uncoated with rubber channel)	600			45	
Remarks:						

Table 1

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2.1 Normative document

IEC 61914:2021 Cable cleats for electrical installations

3 Test results

Test rig number	Cleat type	Peak current [kA]	Centres between fixed cleats [mm]	Duration [ms]	Clause	Osc.	Verdict
1	CFFC-F1015M***-A900 (double normally wrapped)	65,3 46,6 57,6	300	118	9.5.2	5	Pass
		65,0 45,8 57,8		118	9.5.3	6[1)]	
		70,0 49,0 62,3		123	9.5.2	7	
2	CFFC-F1015M***-A900 (double cross-wrapped)	71,5 52,2 61,8		119	9.5.2	9	
		70,8 49,9 62,4		118	9.5.3	10[2)]	
3	CFFC-F1015M***-A900 (triple cross-wrapped)	90,8 62,4 81,7		123	9.5.2	11	
		90,9 62,9 81,2		120	9.5.3	12[3)]	
8	CFFC-F1015M***-A900 (double wrapped, PPA coated)	55,3 39,9 48,4	600	122	9.5.2	22	
		55,5 40,3 48,5		122	9.5.3	23[4)]	

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9	CFFC-F1015M***-A900 (double cross wrapped, PPA coated)	65,5 48,2 56,3	600	118	9.5.2	25	Pass
		65,4 46,7 57,4		125	9.5.3	26[6].	
10	CFFC-F1015M***-A900 (triple cross wrapped, PPA coated)	80,5 55,9 72,0		119	9.5.2	28	
		81,6 57,6 71,8		123	9.5.3	29[5].	
17	CFFC-F1015M***-A900 (double wrapped, PPA coated and with D70109 bracket)	62,7 45,9 54,3	300	124	9.5.2	51	
		63,3 46,3 55,1		124	9.5.3	52[6].	
Remark:	1). Dielectric properties after Osc.6 at 1000Va.c. for 60sec: OK 2). Dielectric properties after Osc.10 at 1000Va.c. for 60sec: OK 3). Dielectric properties after Osc.12 at 1000Va.c. for 60sec: OK 4). Dielectric properties after Osc.23 at 1000Va.c. for 60sec: OK 5). Dielectric properties after Osc.29 at 1000Va.c. for 60sec: OK 6). Dielectric properties after Osc.52 at 1000Va.c. for 60sec: OK						

Table 2

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Appendix A Short-circuit tests

A.1 Tables with test results

DAMSTRALAB ELECTRICAL POWER TESTING	TABLE WITH TEST RESULTS Short-circuit withstand tests PDL-26.160.04	Date: 10-09-2026	Sheet: 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]	
Test rig number: 1 Cleat type: CFFC-F1015M***-A900 / CFFC-F1015M***-A900 (double normally wrapped) Cable configuration: Trefoil Cable type: Class 5 Cleat spacing: 300 mm						
1	39,8 29,5 34,7	17,6 17,5 17,8	121	-	230	Calibration shot
5	65,3 46,6 57,6	28,8 28,6 29,0	118	-	373	Clause 9.5.2 passed
6	65,0 45,8 57,8	28,7 28,5 28,9	118	-	373	Clause 9.5.3 passed
Re-strapped the test rig with new straps Same configuration as before Osc.5						
7	70,0 49,0 62,3	30,7 30,6 31,1	123	-	400	Clause 9.5.2 passed
Test rig number: 2 Cleat type: CFFC-F1015M***-A900 / CFFC-F1015M***-A900 (double cross-wrapped) Cable configuration: Trefoil Cable type: Class 5 Cleat spacing: 300 mm						
9	71,5 52,2 61,8	31,1 30,9 31,4	119	-	404	Clause 9.5.2 passed
10	70,8 49,9 62,4	31,0 30,8 31,3	118	-	404	Clause 9.5.3 passed

Phase values are to be read: L1(R) Supply → L1(R) object
L2(S) Supply → L2(S) object
L3(T) Supply → L3(T) object

Dielectric properties after Osc.10 at 1000Va.c. for 60sec: OK
Dielectric properties after Osc.6 at 1000Va.c. for 60sec: OK

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DAMSTRALAB ELECTRICAL POWER TESTING	**TABLE WITH TEST RESULTS** Short-circuit withstand tests PDL-26.160.04	Date: 10-09-2026	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]	
Test rig number: 3 Cleat type: CFFC-F1015M***-A900 / CFFC-F1015M***-A900 (triple cross-wrapped) Cable configuration: Trefoil Cable type: Class 5 Cleat spacing: 300 mm						
11	90,8 62,4 81,7	39,9 39,8 40,4	123	-	516	Clause 9.5.2 passed
12	90,9 62,9 81,2	40,0 39,7 40,4		-	516	Clause 9.5.3 passed
Test rig number: 8 Cleat type: CFFC-F1015M***-A900 / CFFC-F1015M***-A900 (double wrapped, PPA coated) Cable configuration: Trefoil Cable type: Class 5 Cleat spacing: 600 mm						
20	31,2 23,3 26,9	13,8 13,7 13,8	114	-	182	Calibration shot
22	55,3 39,9 48,4	24,2 24,2 24,5	122	-	321	Clause 9.5.2 passed
23	55,5 40,3 48,5	24,3 24,3 24,6	122	-	324	Clause 9.5.3 passed
Test rig number: 9 Cleat type: CFFC-F1015M***-A900 / CFFC-F1015M***-A900 (double cross wrapped, PPA coated) Cable configuration: Trefoil Cable type: Class 5 Cleat spacing: 600 mm						
25	65,5 48,2 56,3	28,4 28,4 28,7	118	-	379	Clause 9.5.2 passed
26	65,4 46,7 57,4	28,5 28,6 28,7	125	-	382	Clause 9.5.3 passed

Phase values are to be read: L1(R) Supply → L1(R) object
L2(S) Supply → L2(S) object
L3(T) Supply → L3(T) object

Dielectric properties after Osc.12 at 1000Va.c. for 60sec: OK
Dielectric properties after Osc.23 at 1000Va.c. for 60sec: OK
Dielectric properties after Osc.26 at 1000Va.c. for 60sec: OK

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DAMSTRALAB ELECTRICAL POWER TESTING	**TABLE WITH TEST RESULTS** Short-circuit withstand tests PDL-26.160.04	Date: 10/11-09-2026	Sheet: SC3

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]	
Test rig number: 10 Cleat type: CFFC-F1015M***-A900 / CFFC-F1015M***-A900 (triple cross wrapped, PPA coated) Cable configuration: Trefoil Cable type: Class 5 Cleat spacing: 600 mm						
28	80,5 55,9 72,0	35,3 35,2 35,6	119	-	469	Clause 9.5.2 passed
29	81,6 57,6 71,8	35,4 35,6 35,9	123	-	473	Clause 9.5.3 passed
Test rig number: 17 Cleat type: CFFC-F1015M***-A900 / CFFC-F1015M***-A900 (double wrapped, PPA coated and with D70109 bracket) Cable configuration: Trefoil Cable type: Class 5 Cleat spacing: 300 mm						
51	62,7 45,9 54,3	26,9 26,7 27,3	124	-	248	Clause 9.5.2 passed
52	63,3 46,3 55,1	27,3 27,0 27,6	124	-	251	Clause 9.5.3 passed

Phase values are to be read: L1(R) Supply → L1(R) object
L2(S) Supply → L2(S) object
L3(T) Supply → L3(T) object

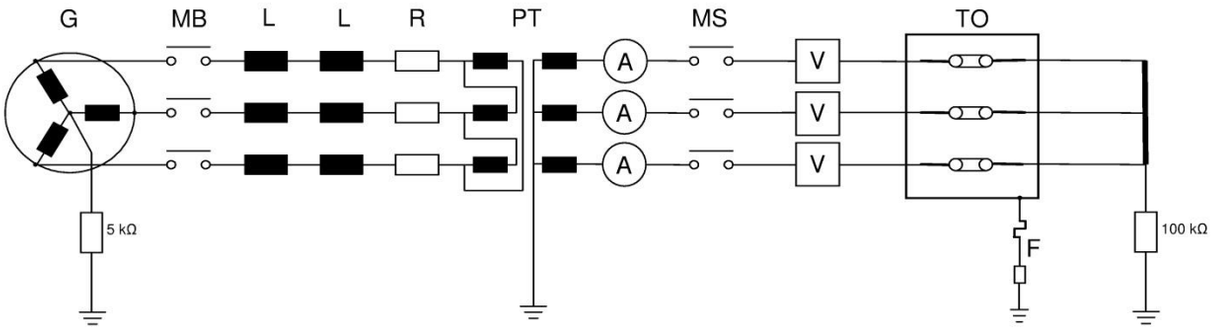
Dielectric properties after Osc.29 at 1000Va.c. for 60sec: OK
Dielectric properties after Osc.52 at 1000Va.c. for 60sec: OK

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A.2 Test circuit diagram

DAMSTRALAB ELECTRICAL POWER TESTING	**TEST CIRCUIT DIAGRAMS** Short-circuit laboratory	Test report: PDL-26.160.04

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 short-circuit tests



Photo 3: After Osc.6



Photo 4: After Osc.10



Photo 5: After Osc.12

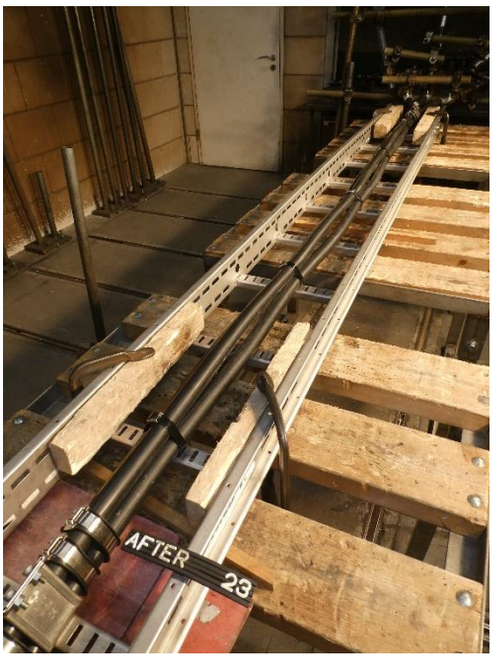


Photo 6: After Osc.23

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Photo 7: After Osc.25



Photo 8: After Osc.26



Photo 9: After Osc.28



Photo 10: After Osc.29

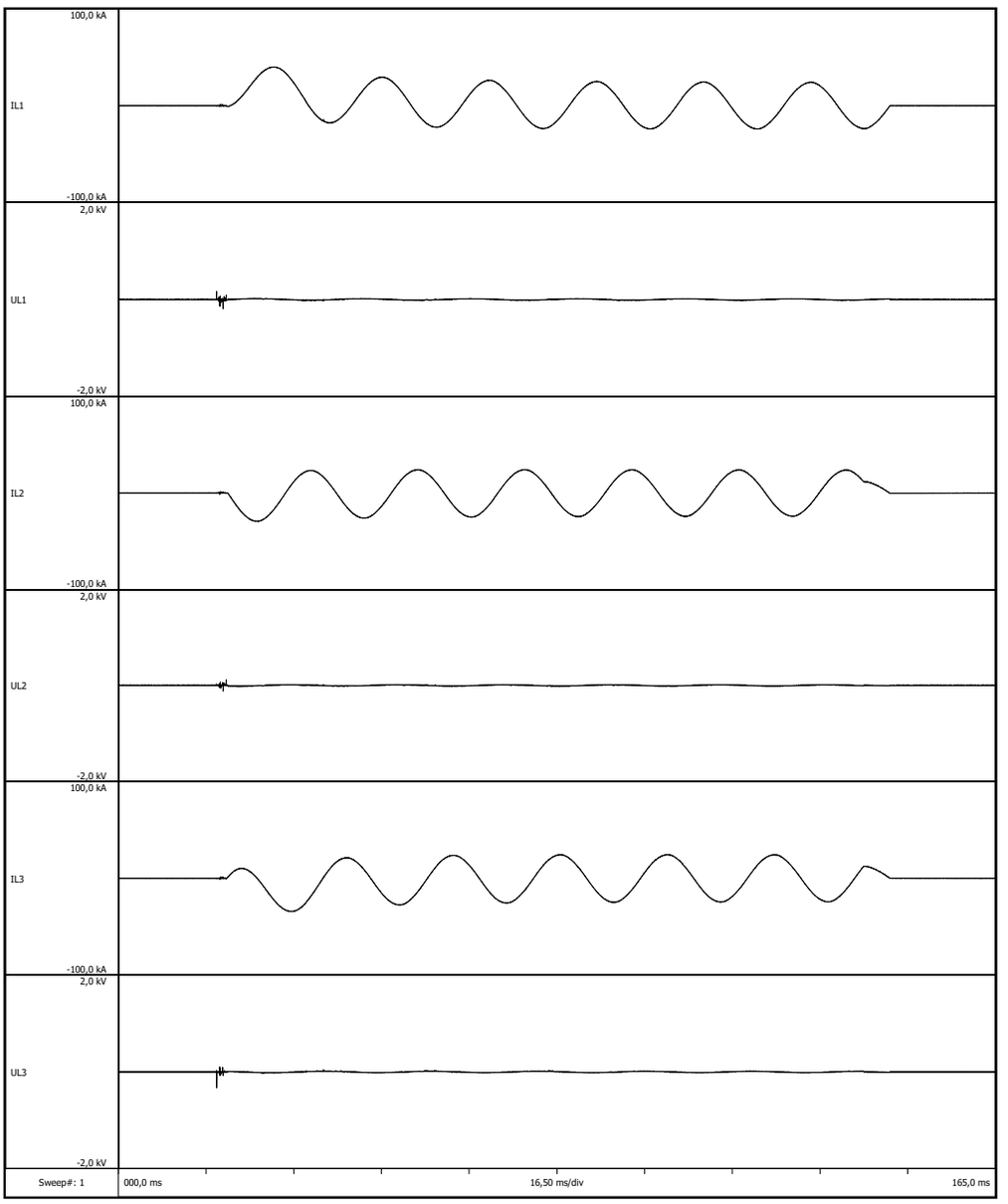
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Photo 11: After Osc.51	Photo 12: After Osc.52

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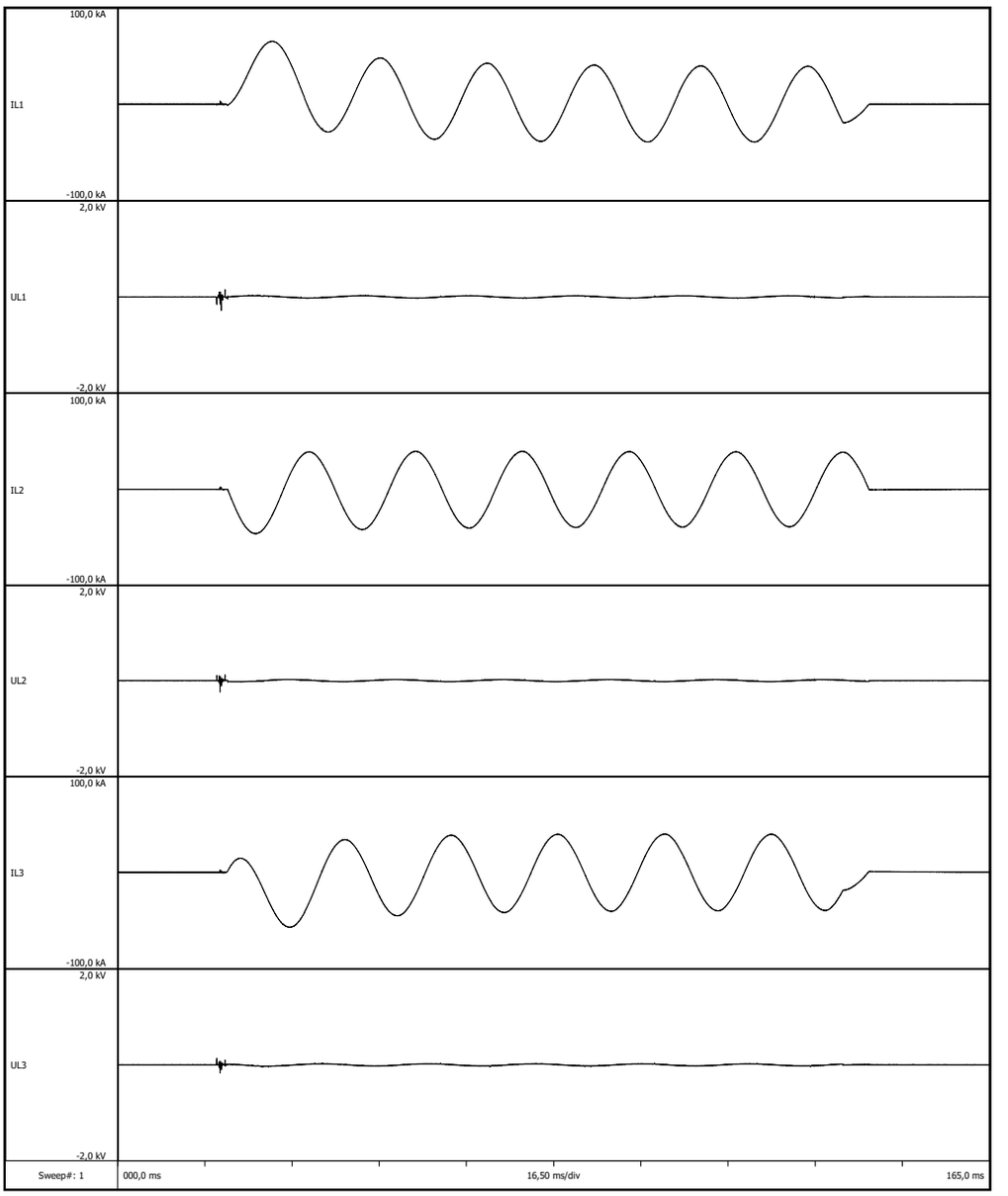
A.4 Oscillograms

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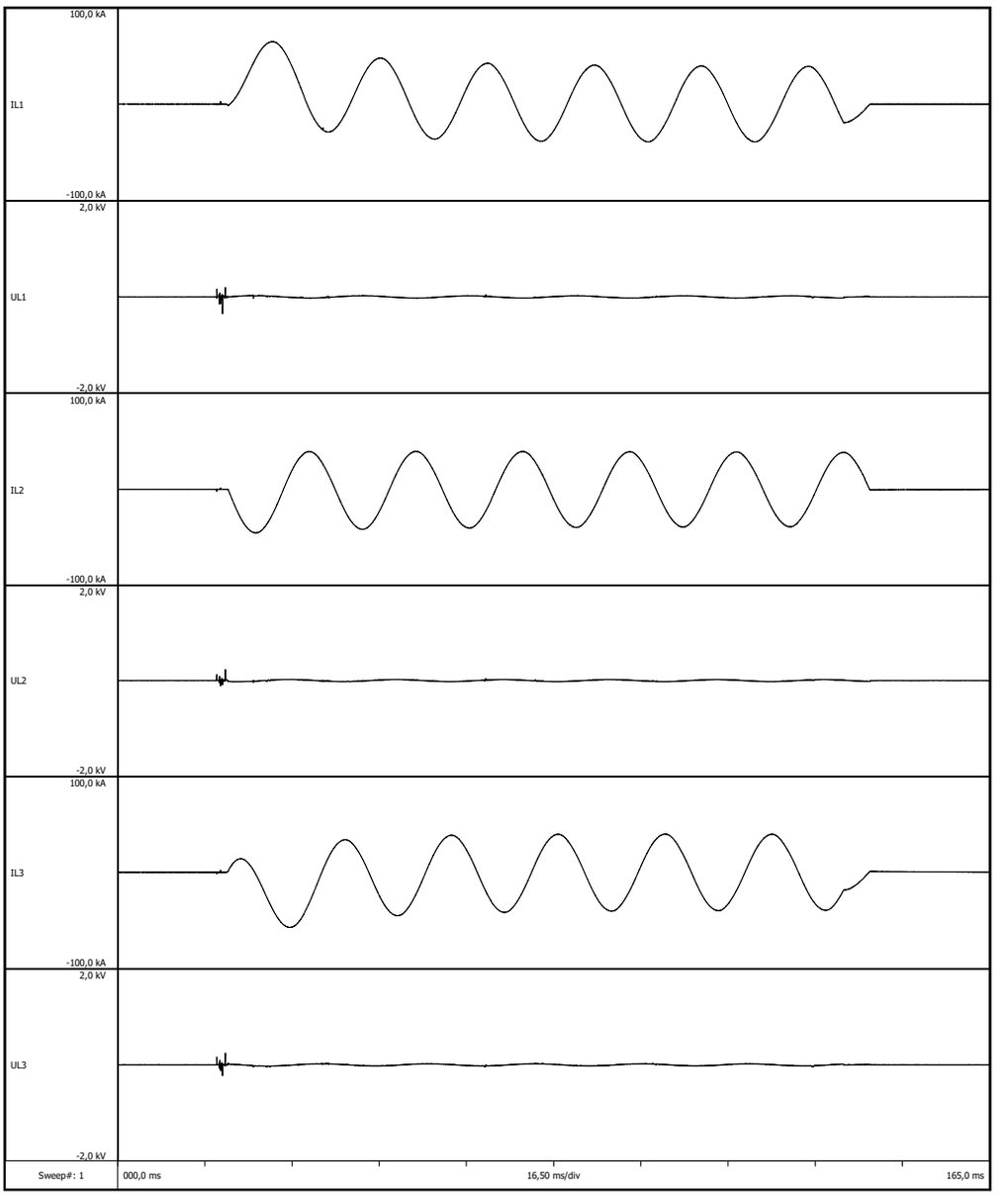
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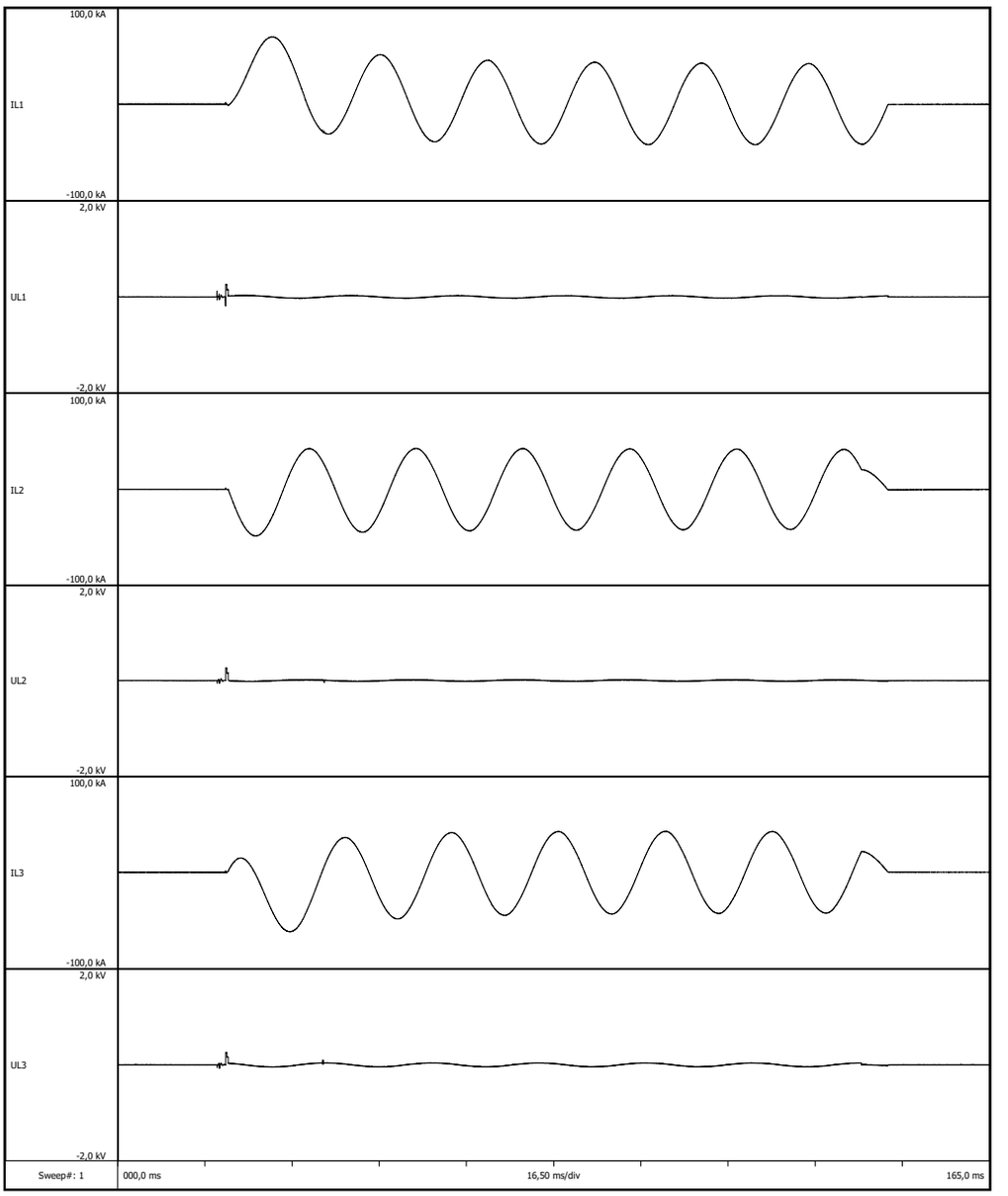
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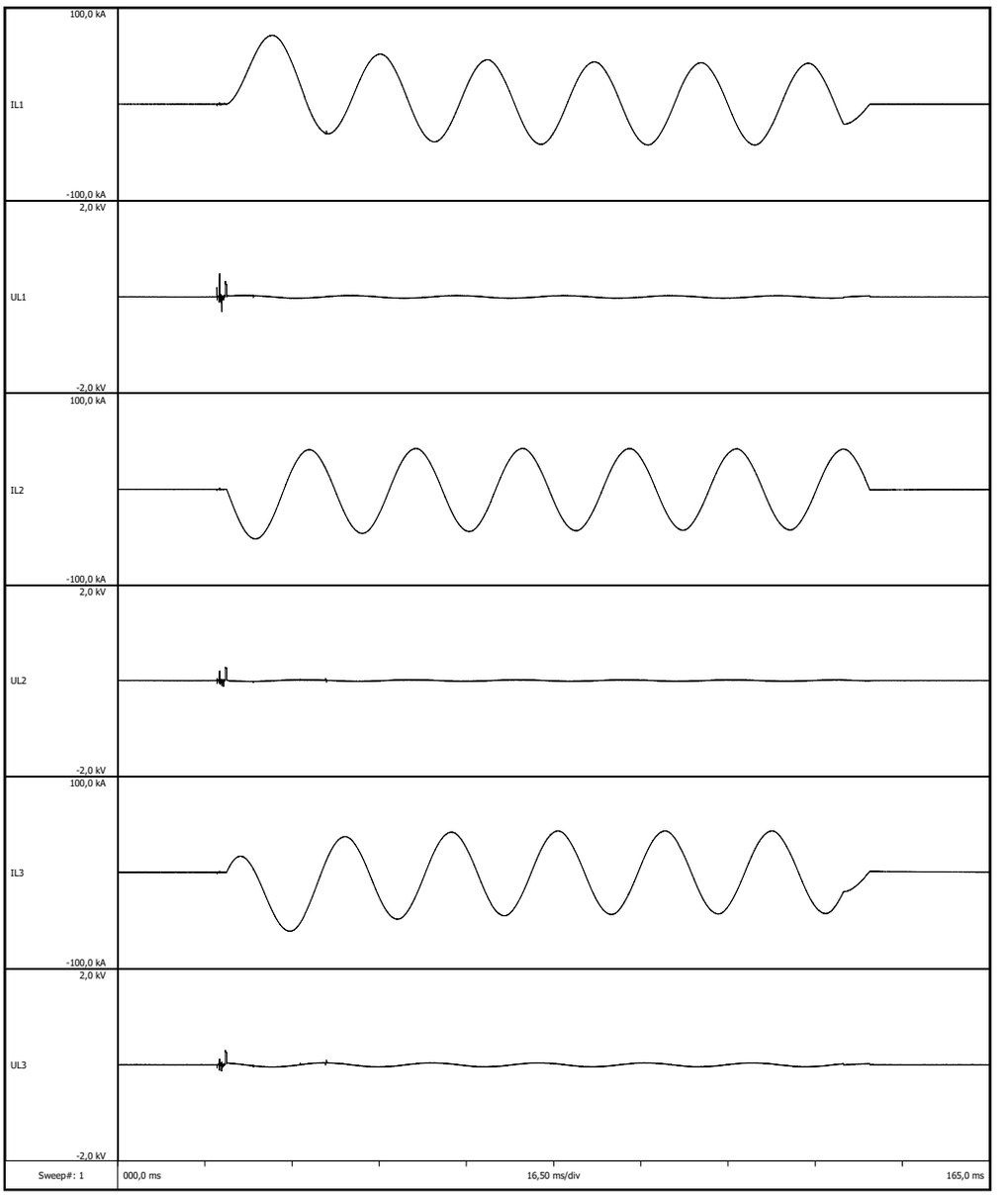
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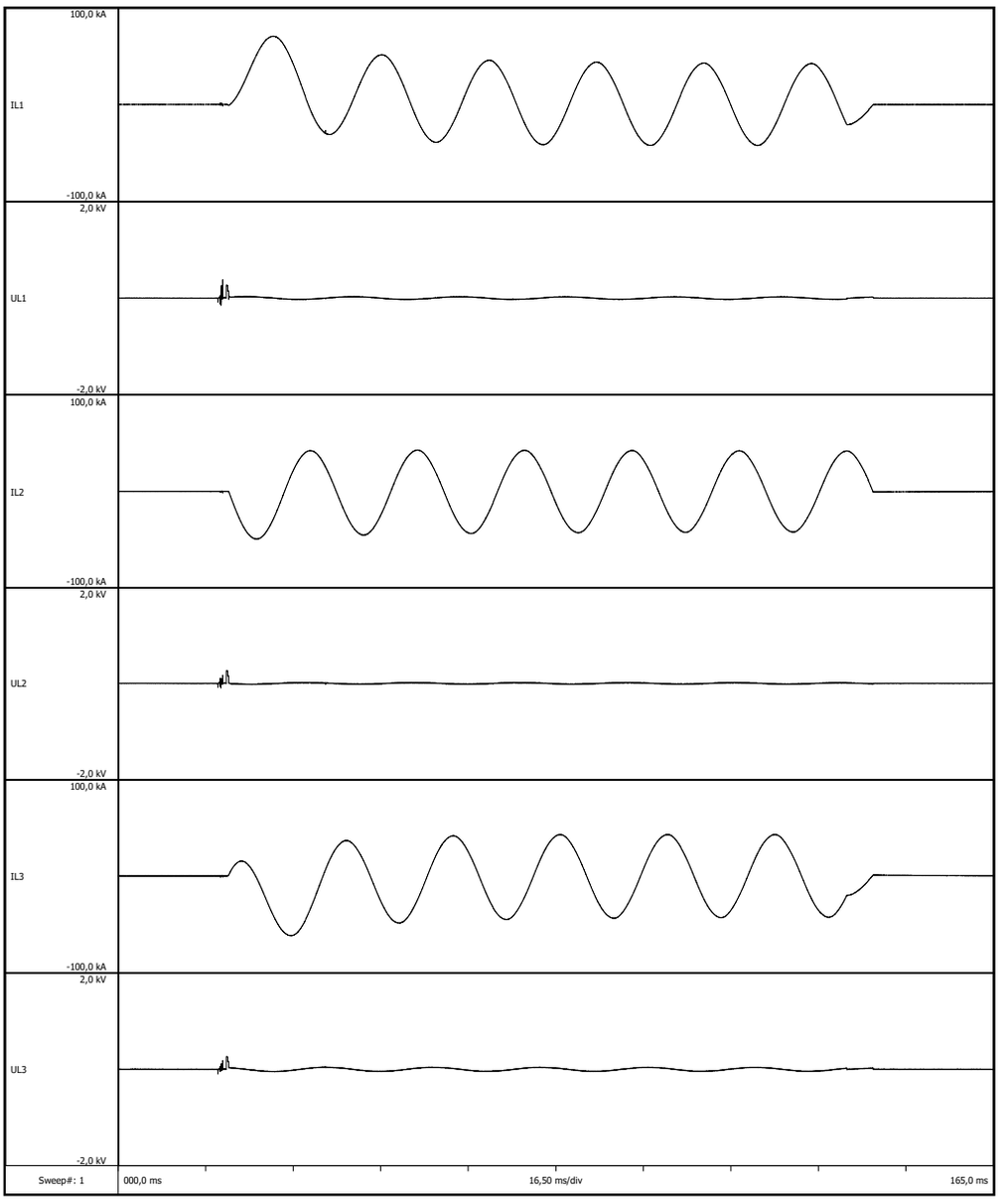
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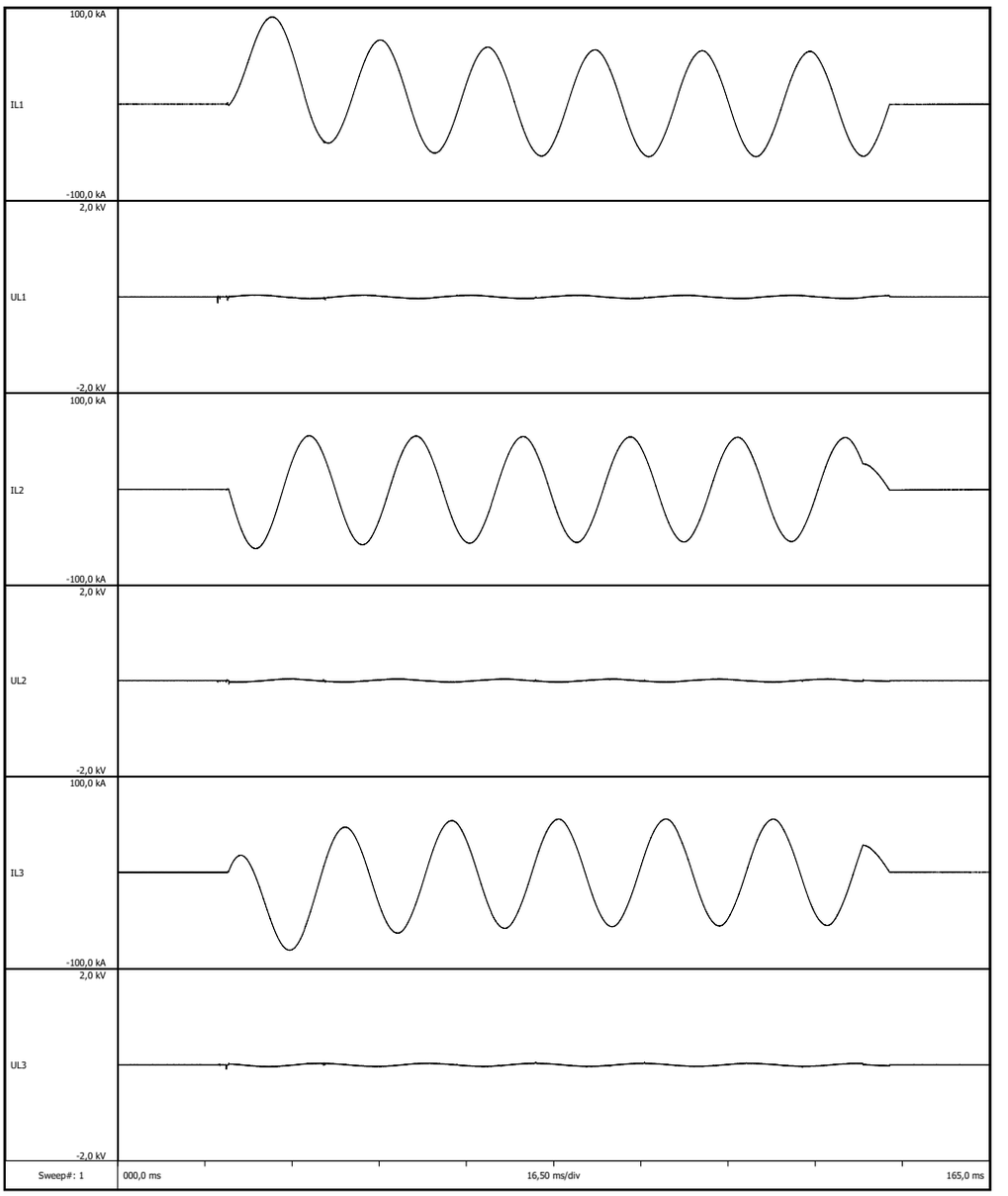
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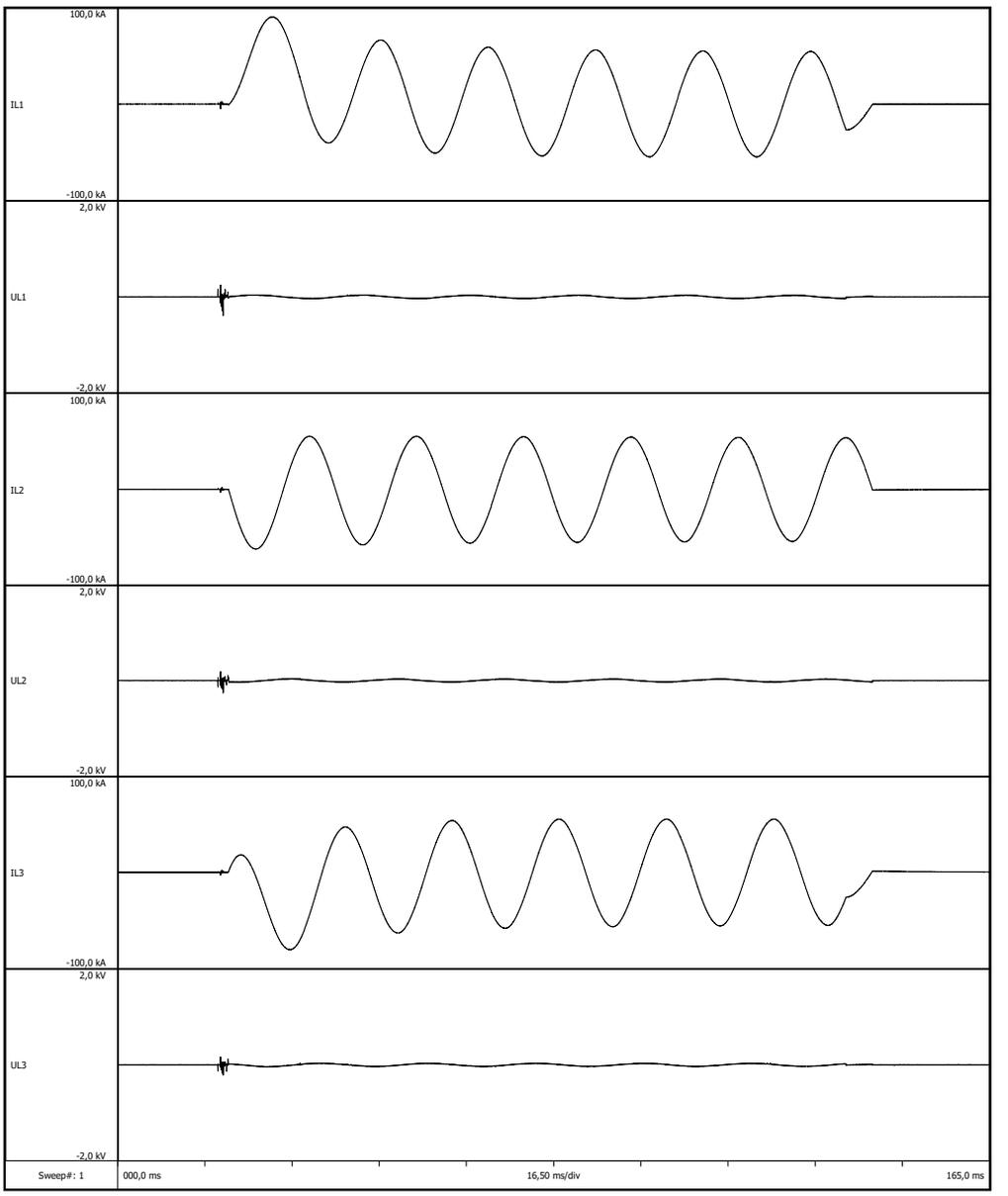
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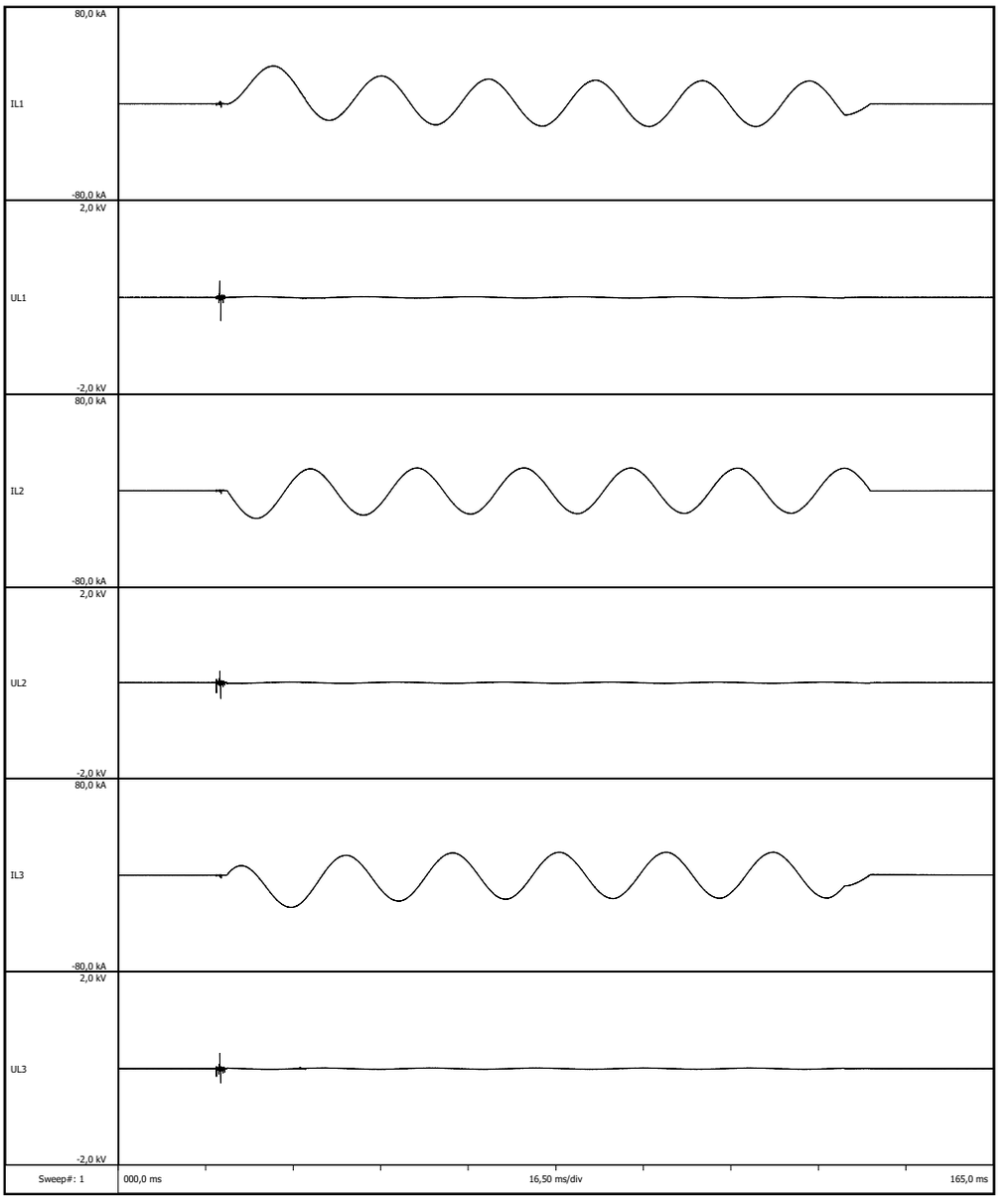
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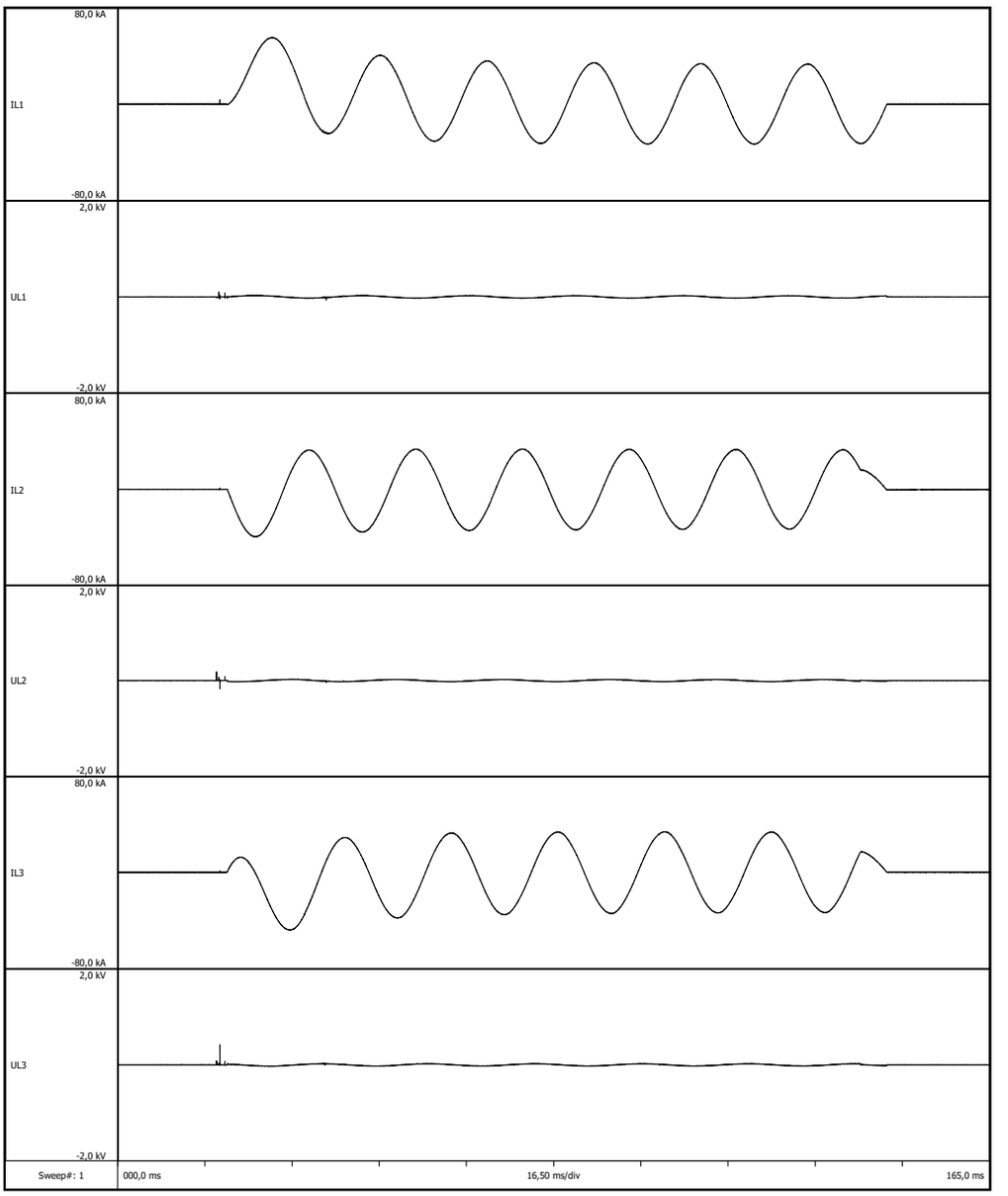
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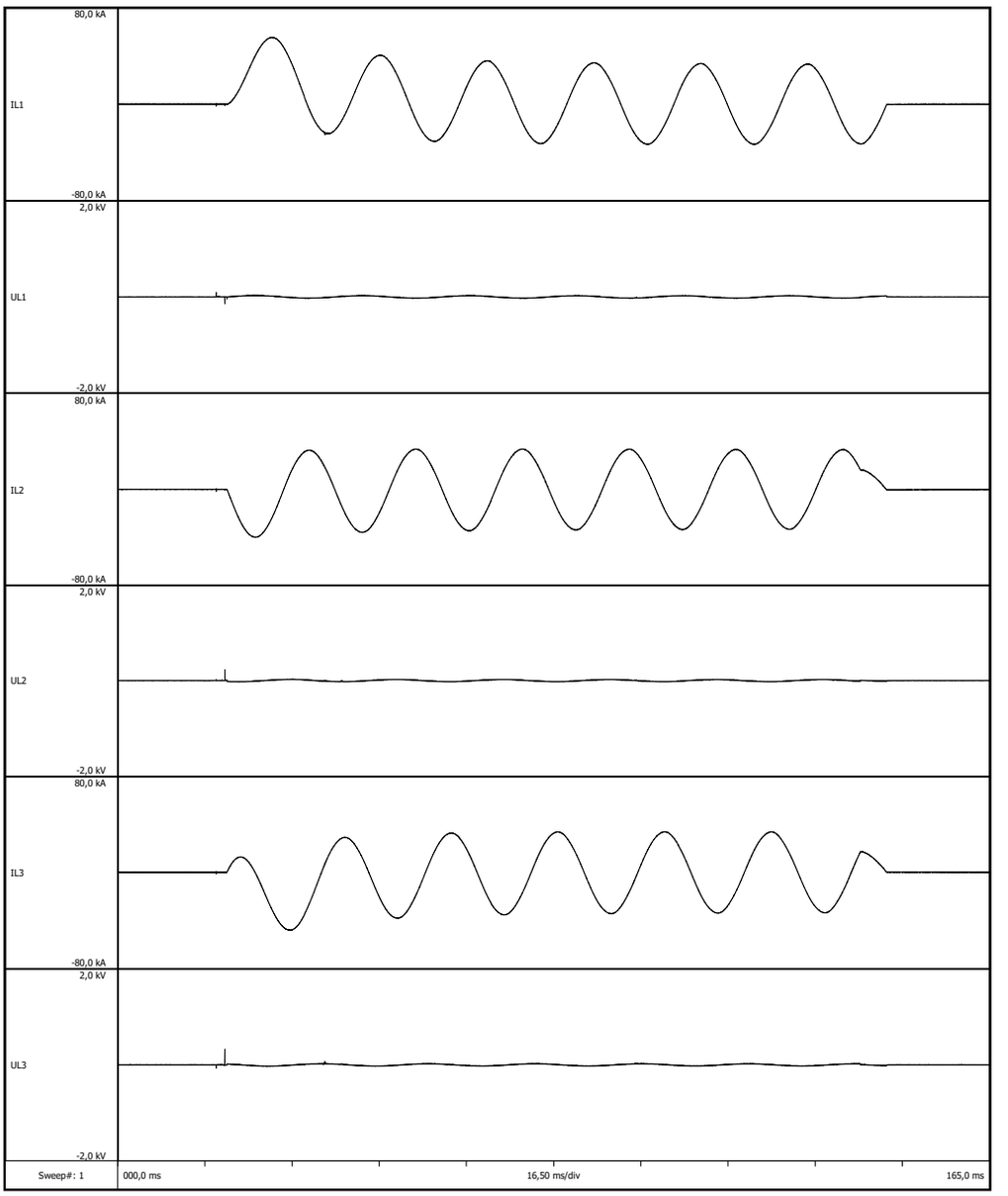
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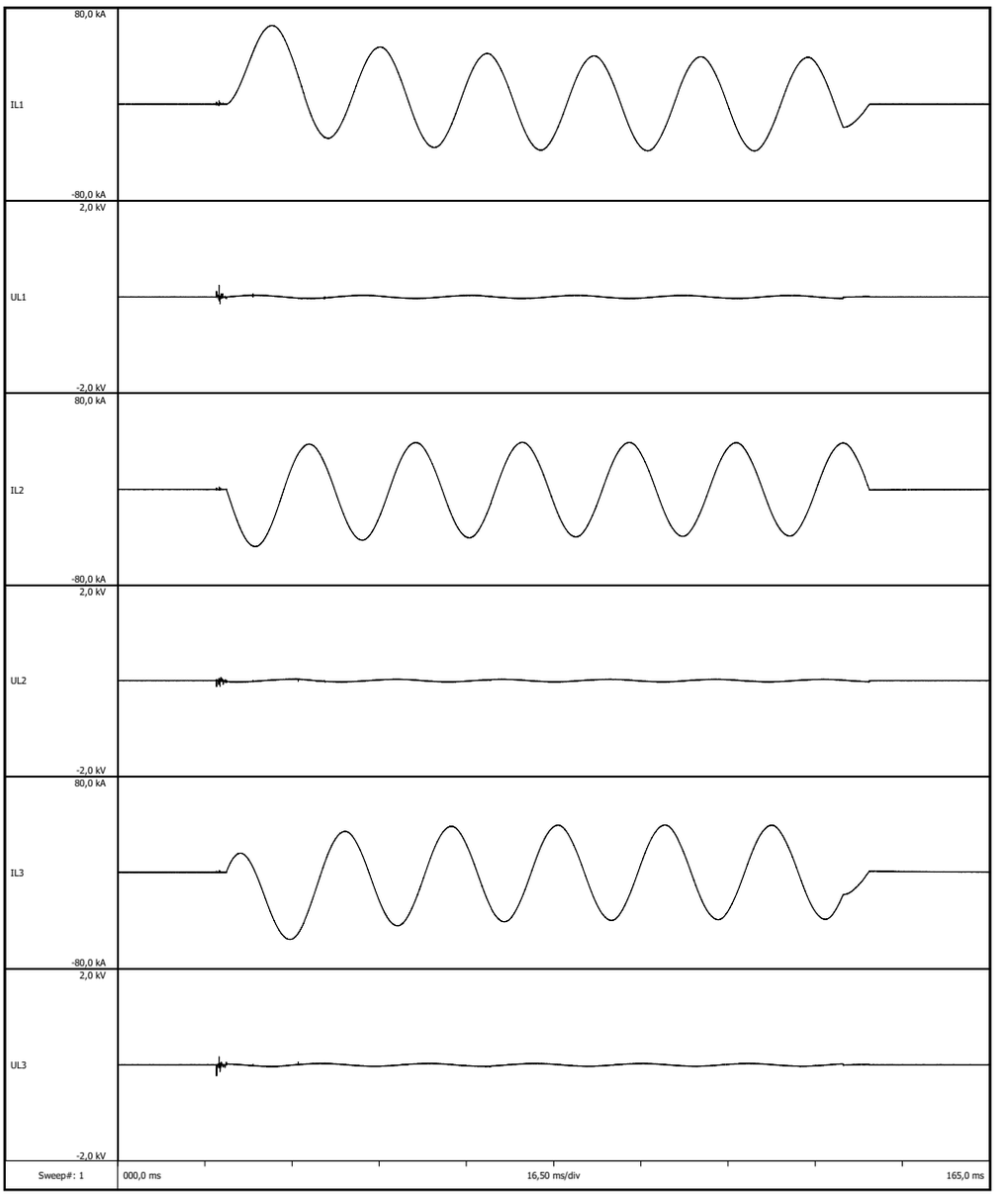
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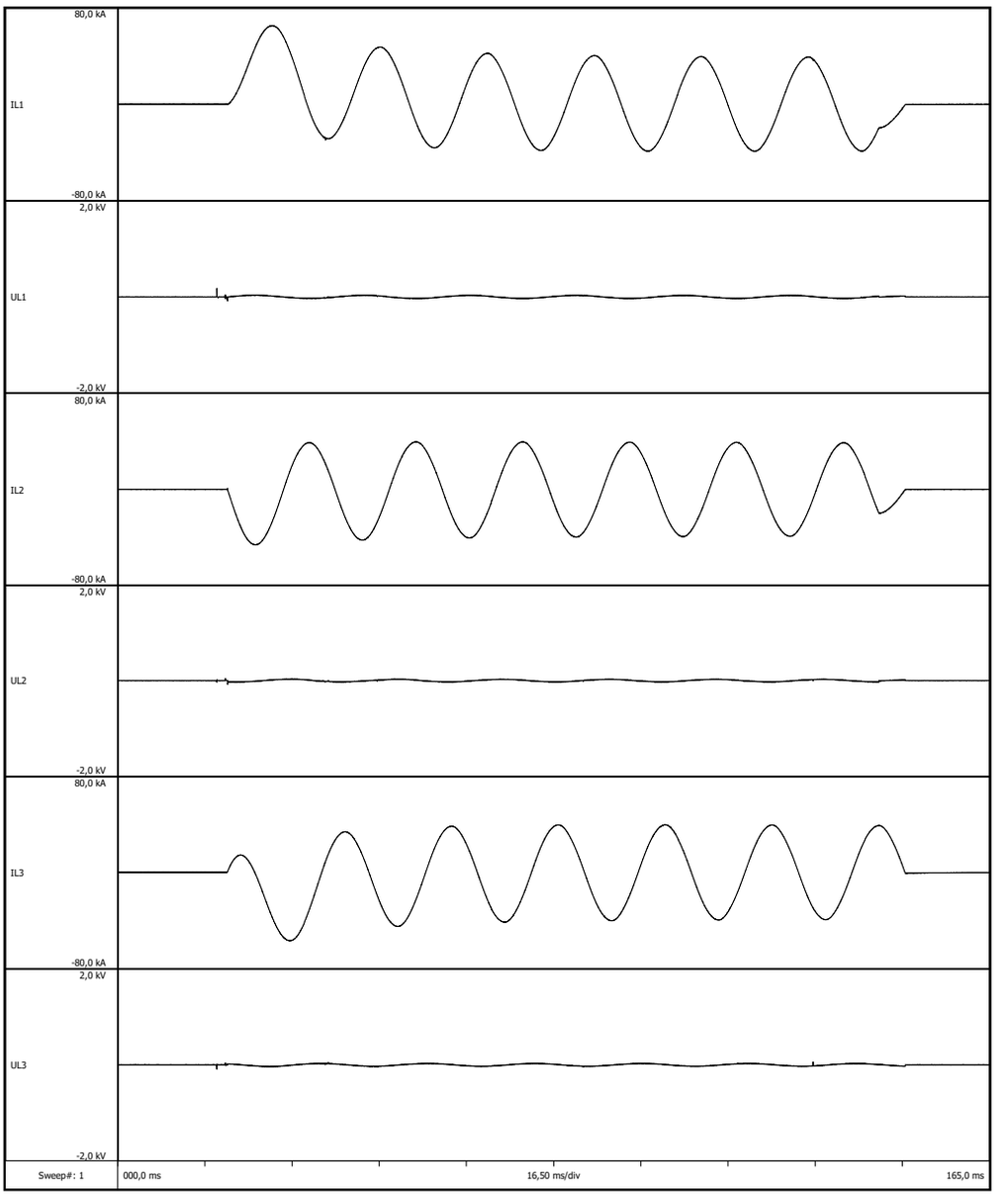
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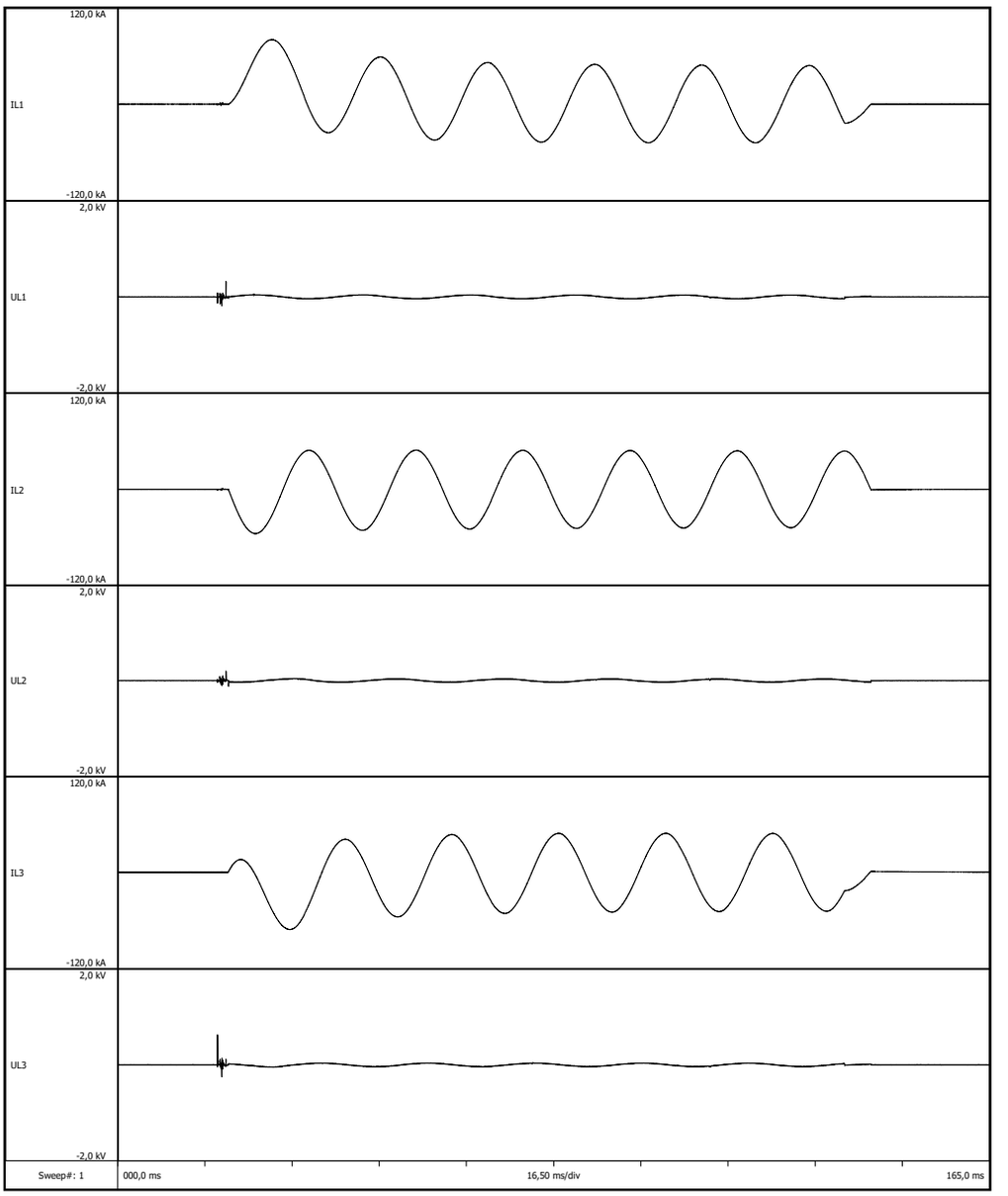
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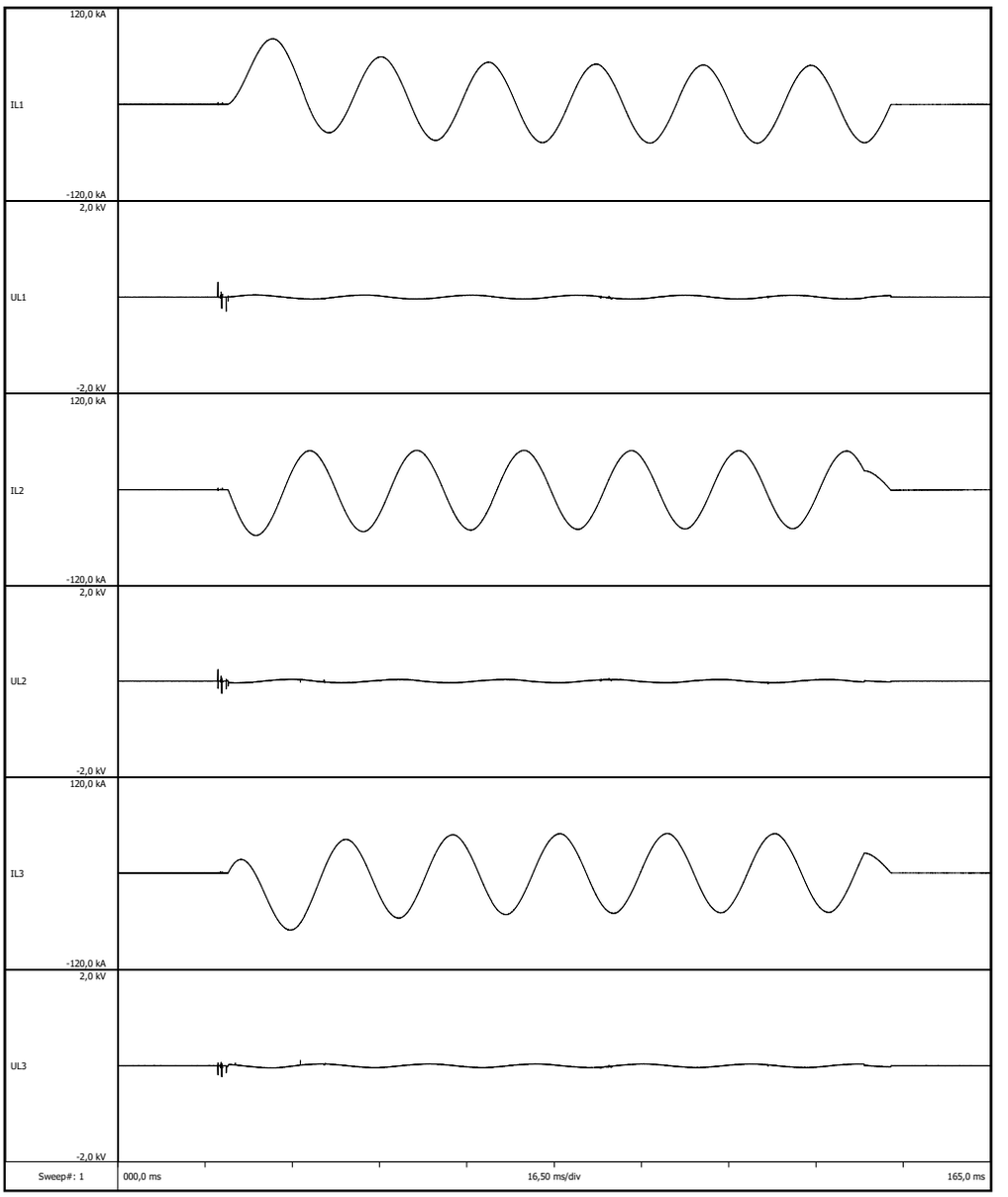
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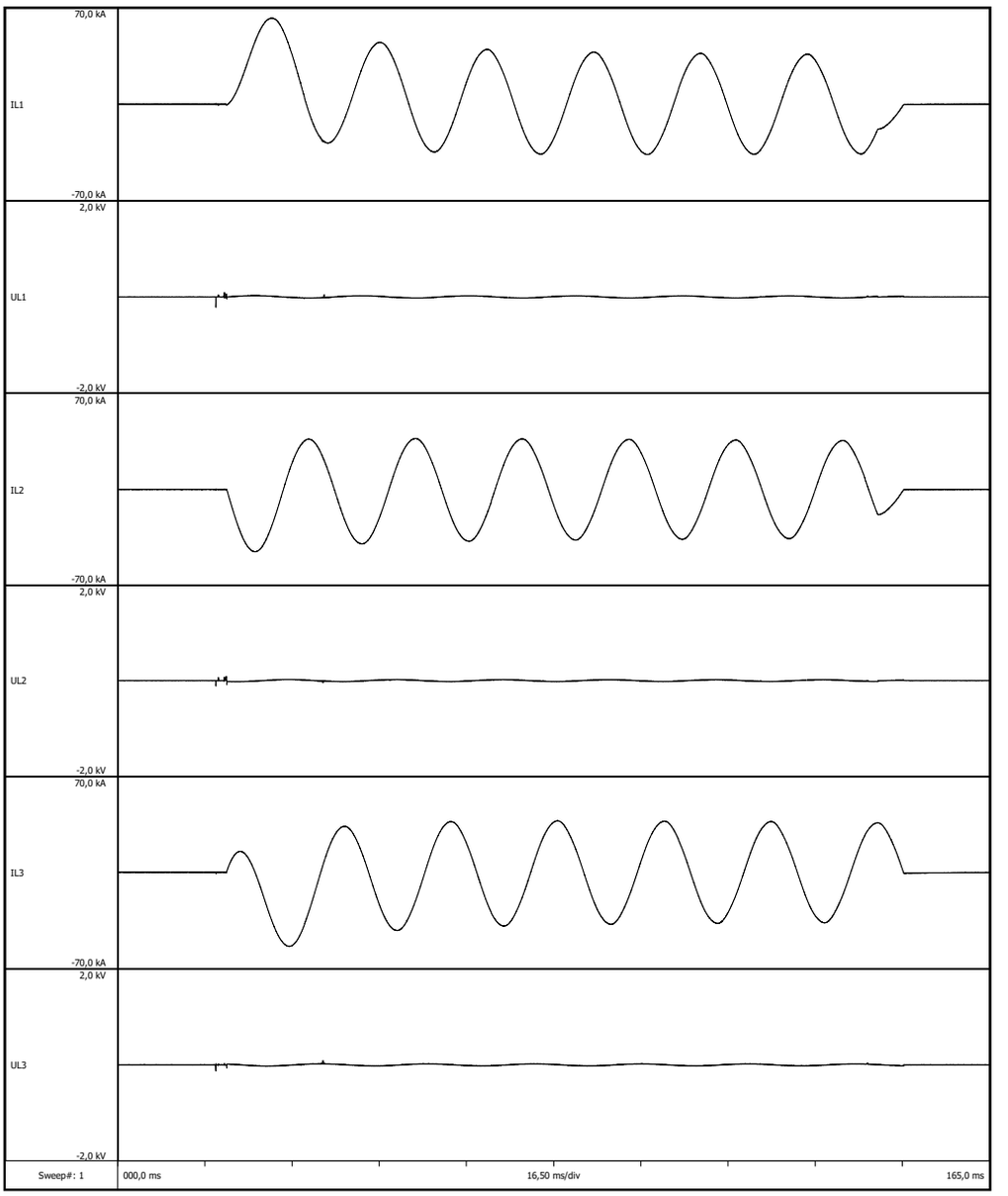
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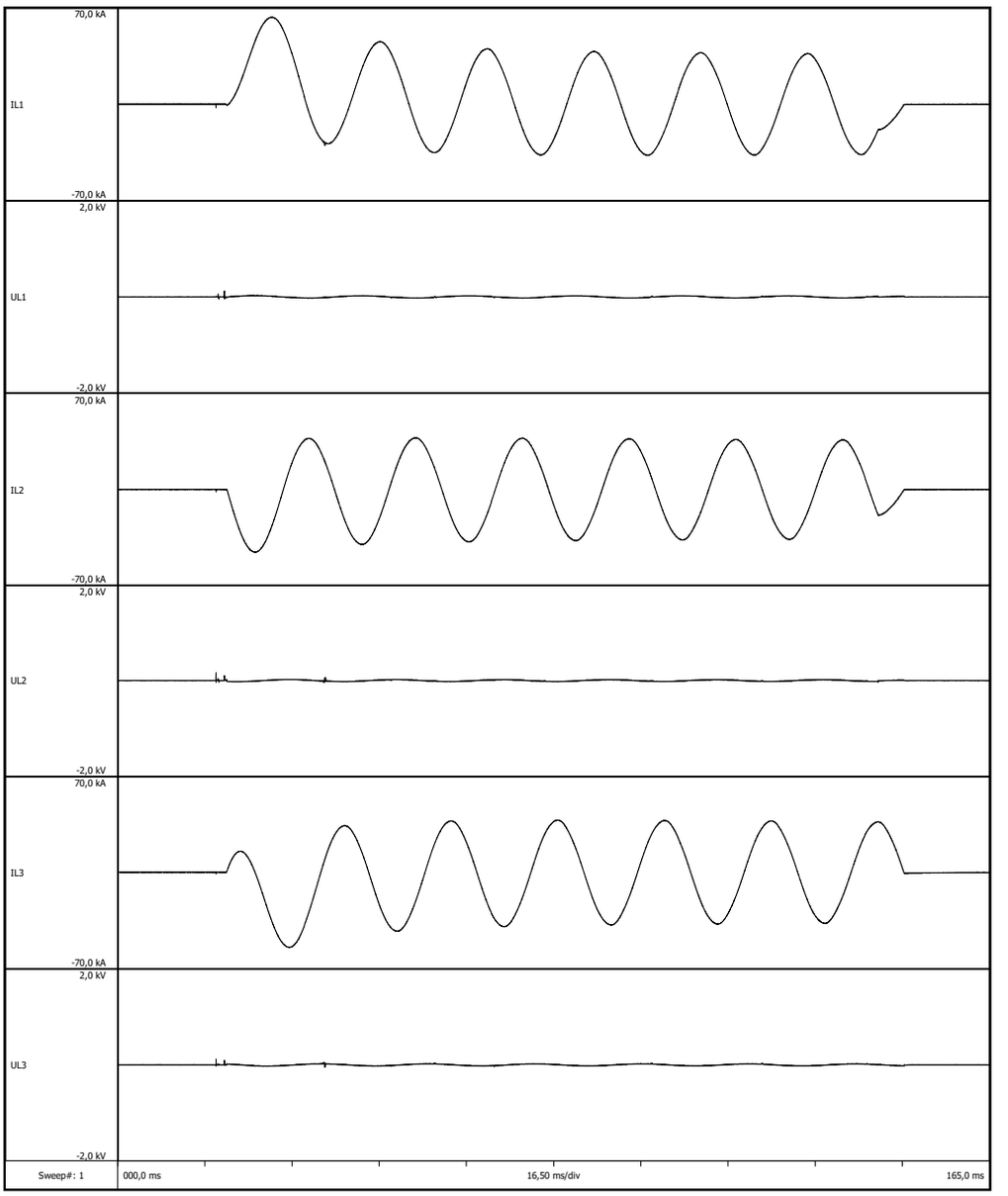
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Appendix B Decision rule, measurement uncertainty and used equipment

- 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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