# UES PROMURA

## Current product-code edition

Report: PDL-26.160.07

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# TEST REPORT

# PDL-26.160.07

DAMSTRALAB
ELECTRICAL POWER TESTING

| | |
|---|---|
| Client: | Band-it IDEX |
| Order number: | EL7880 |
| Date of tests: | 10th and 11th of September 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: CFEC-F1230M*** / CFEC-F1230M***

**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: 15 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<br>CO 80216<br>Denver<br>United States | |
| Test location: | Prof. Ir. Damstra Laboratory<br>Hengelo, The Netherlands | |
| Tested by: | B. Stange | Prof. Ir. Damstra Laboratory |
| Observed by: | P. Moreno<br>M. Dietsche<br>S. Galante | Band-it IDEX<br>Band-it IDEX<br>Band-it IDEX |

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**DOCUMENT CONTROL**

| Revision | Amendment | By | Date |
|---|---|---|---|
| PDL-26.160.07 | Creation | B.S. | 18-09-2026 |
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## 1 Object identification




Photo 1 Cable cleats for electrical installations
Manufacturer: Band-it IDEX
Test rig number: 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 cleats for electrical installations |
| Type | CFEC-F1230M*** / CFEC-F1230M*** |
| 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] |
|---|---|---|---|---|---|---|
| 5 | CFEC-F1230M*** (double wrapped, uncoated with rubber channel) | 300 | Trefoil | Class 5 | 115 | 100 |
| 12 | CFEC-F1230M*** (double wrapped, uncoated with rubber channel) | 600 | | | 110 | |
| 15 | CFEC-F1230M*** (double wrapped, uncoated with rubber channel and with D70309 bracket) | 300 | | | 120 | |
| Remarks: | | | | | | |

**Table 1**

### 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 |
|---|---|---|---|---|---|---|---|
| 5 | CFEC-F1230M*** (double wrapped, uncoated with rubber channel) | 115<br>75,1<br>107 | 300 | 127 | 9.5.2 | 18 | Pass |
| | | 115<br>75,2<br>107 | | 120 | 9.5.3 | 19[1)] | |



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| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 12 | CFEC-F1230M*** (double wrapped, uncoated with rubber channel) | 112<br>73,8<br>105 | 600 | 124 | 9.5.2 | 34 | Pass |
| 15 | CFEC-F1230M*** (double wrapped, uncoated with rubber channel and with D70309 bracket) | 118<br>83,1<br>103 | 300 | 124 | | 48 | |
| | | 117<br>81,1<br>104 | | 124 | 9.5.3 | 49[2)] | |
| Remark: | 1). Dielectric properties after Osc.6 at 1000Va.c. for 60sec: OK<br>2). Dielectric properties after Osc.49 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<br>Short-circuit withstand tests<br>PDL-26.160.07 | Date:<br>10/11-09-2026 | Sheet:<br>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: 5<br>Cleat type: CFEC-F1230M*** / CFEC-F1230M*** (double wrapped, uncoated with rubber channel)<br>Cable configuration: Trefoil<br>Cable type: Class 5<br>Cleat spacing: 300 mm | | | | | | |
| 18 | 115<br>75,1<br>107 | 51,1<br>50,9<br>51,6 | 127 | - | 652 | Clause 9.5.2 passed |
| 19 | 115<br>75,2<br>107 | 51,4<br>50,9<br>51,8 | 120 | - | 654 | Clause 9.5.3 passed |
| Test rig number: 12<br>Cleat type: CFEC-F1230M*** / CFEC-F1230M*** (double wrapped, uncoated with rubber channel)<br>Cable configuration: Trefoil<br>Cable type: Class 5<br>Cleat spacing: 600 mm | | | | | | |
| 34 | 112<br>73,8<br>105 | 49,9<br>49,8<br>50,5 | 124 | - | 654 | Clause 9.5.2 passed |
| Test rig number: 15<br>Cleat type: CFEC-F1230M*** / CFEC-F1230M*** (double wrapped, uncoated with rubber channel and with D70309 bracket)<br>Cable configuration: Trefoil<br>Cable type: Class 5<br>Cleat spacing: 300 mm | | | | | | |
| 48 | 118<br>83,1<br>103 | 50,1<br>49,7<br>51,1 | 124 | - | 454 | Clause 9.5.2 passed |
| 49 | 117<br>81,1<br>104 | 50,2<br>49,7<br>51,2 | 124 | - | 454 | 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.19 at 1000Va.c. for 60sec: OK

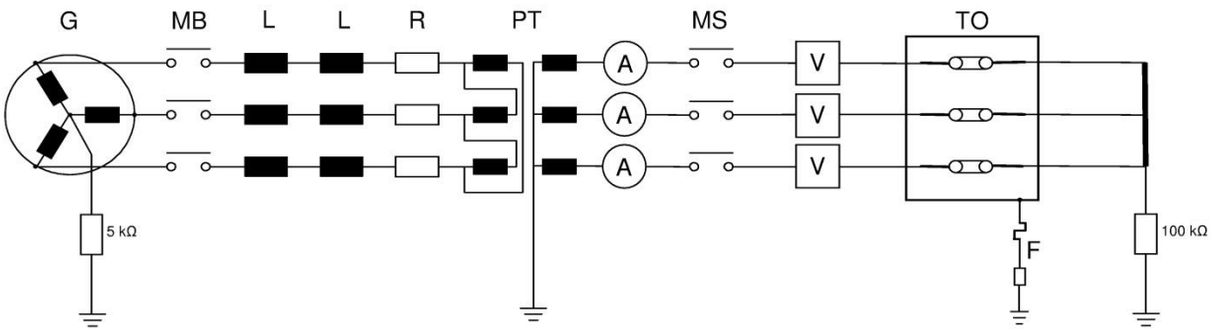


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## A.2 Test circuit diagram

| DAMSTRALAB ELECTRICAL POWER TESTING | **TEST CIRCUIT DIAGRAMS**<br><br>Short-circuit laboratory | Test report:<br><br>PDL-26.160.07 |
|---|---|---|

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 2: After Osc.19




Photo 3: After Osc.34




Photo 4: Before Osc.48

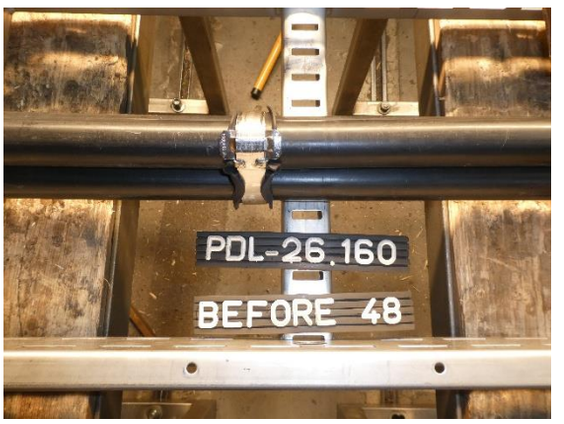
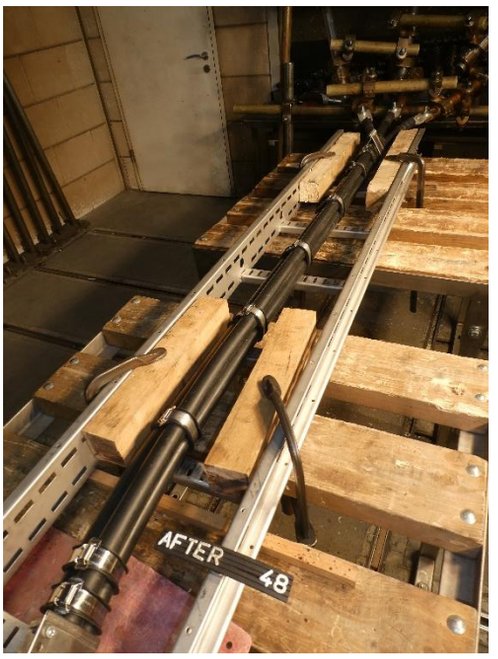



Photo 5: Before Osc.48



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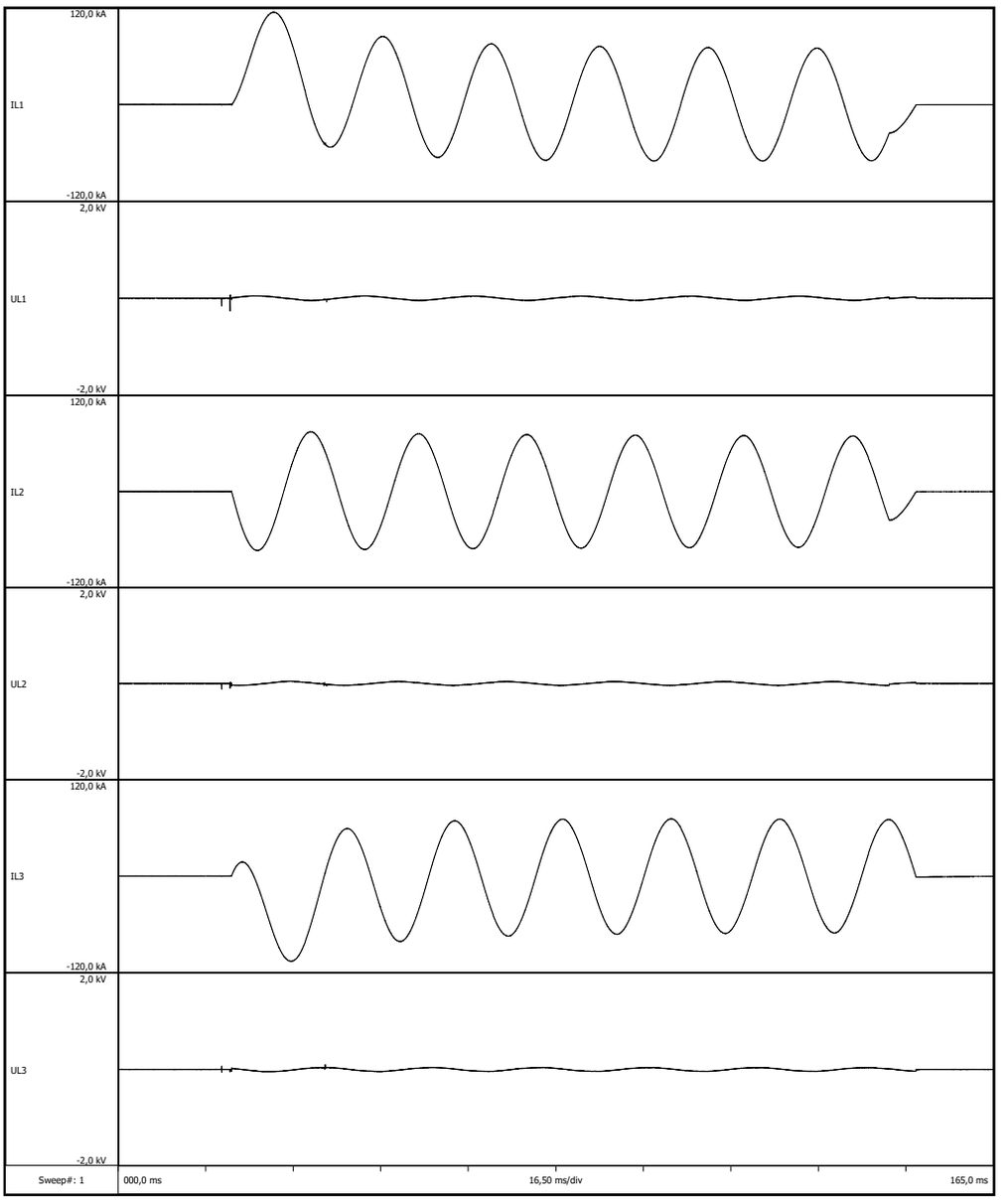
| | |
|---|---|
|   |   |
| Photo 6: After Osc.48 | Photo 7: After Osc.49 |



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## A.4 Oscillograms

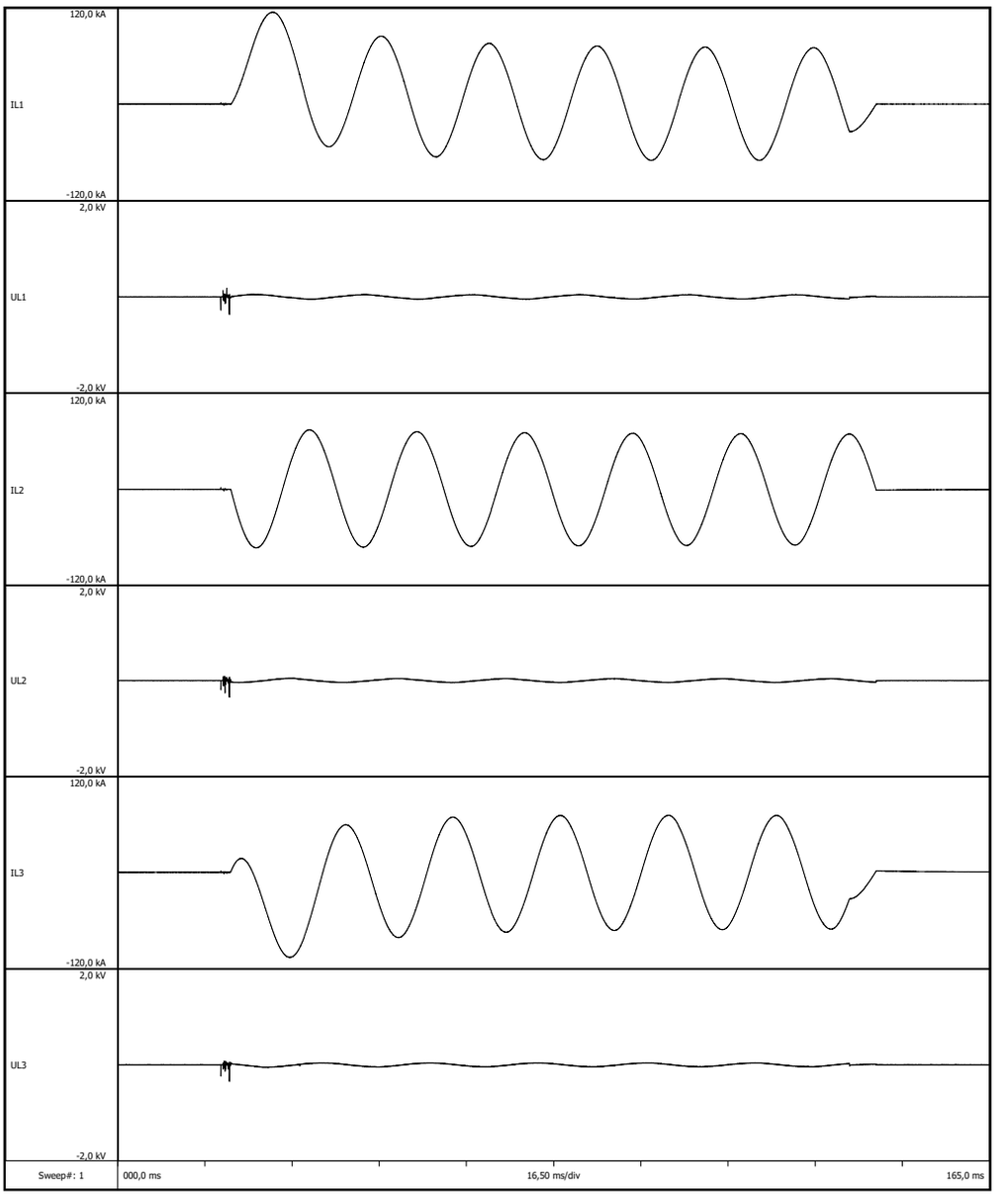
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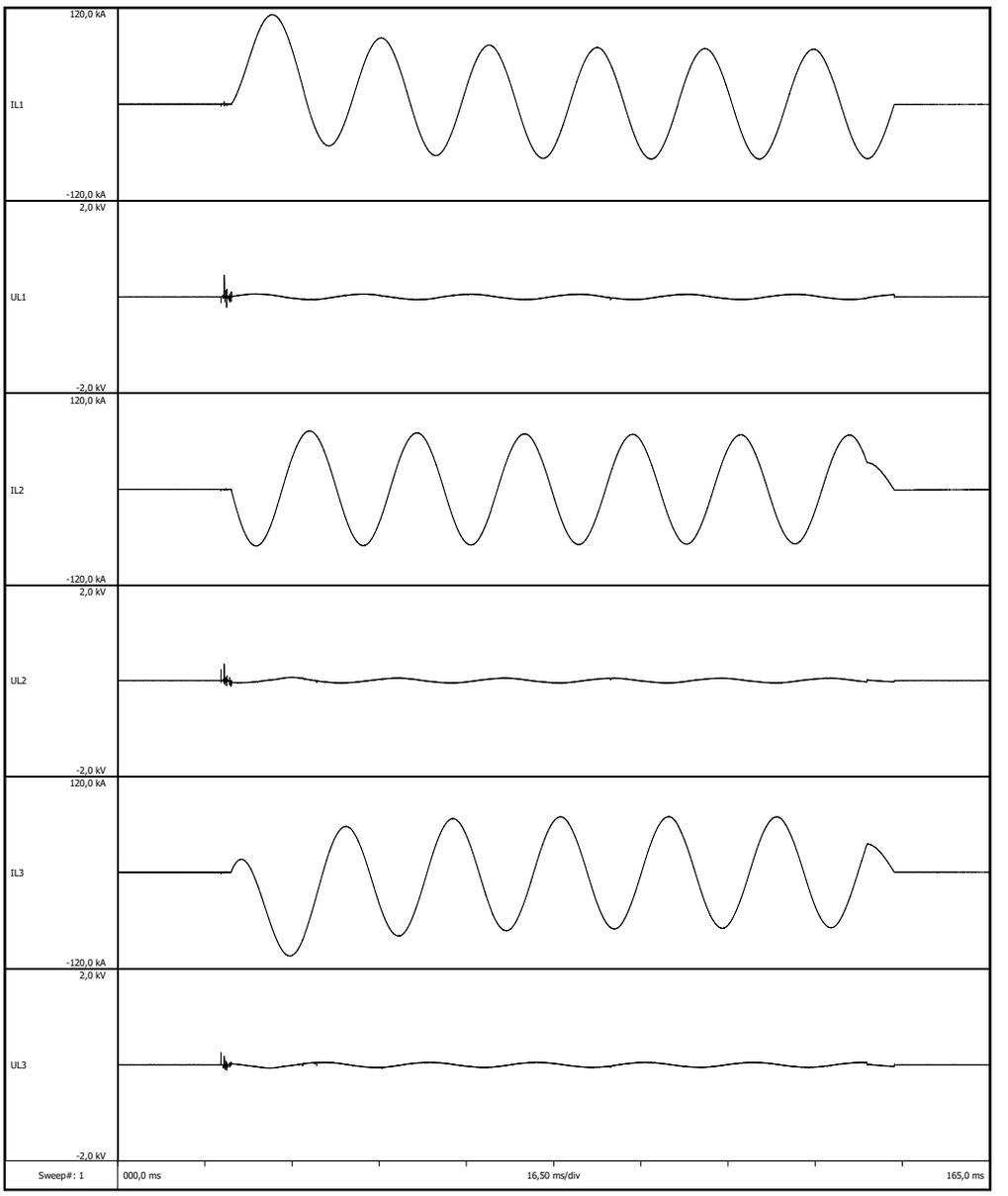
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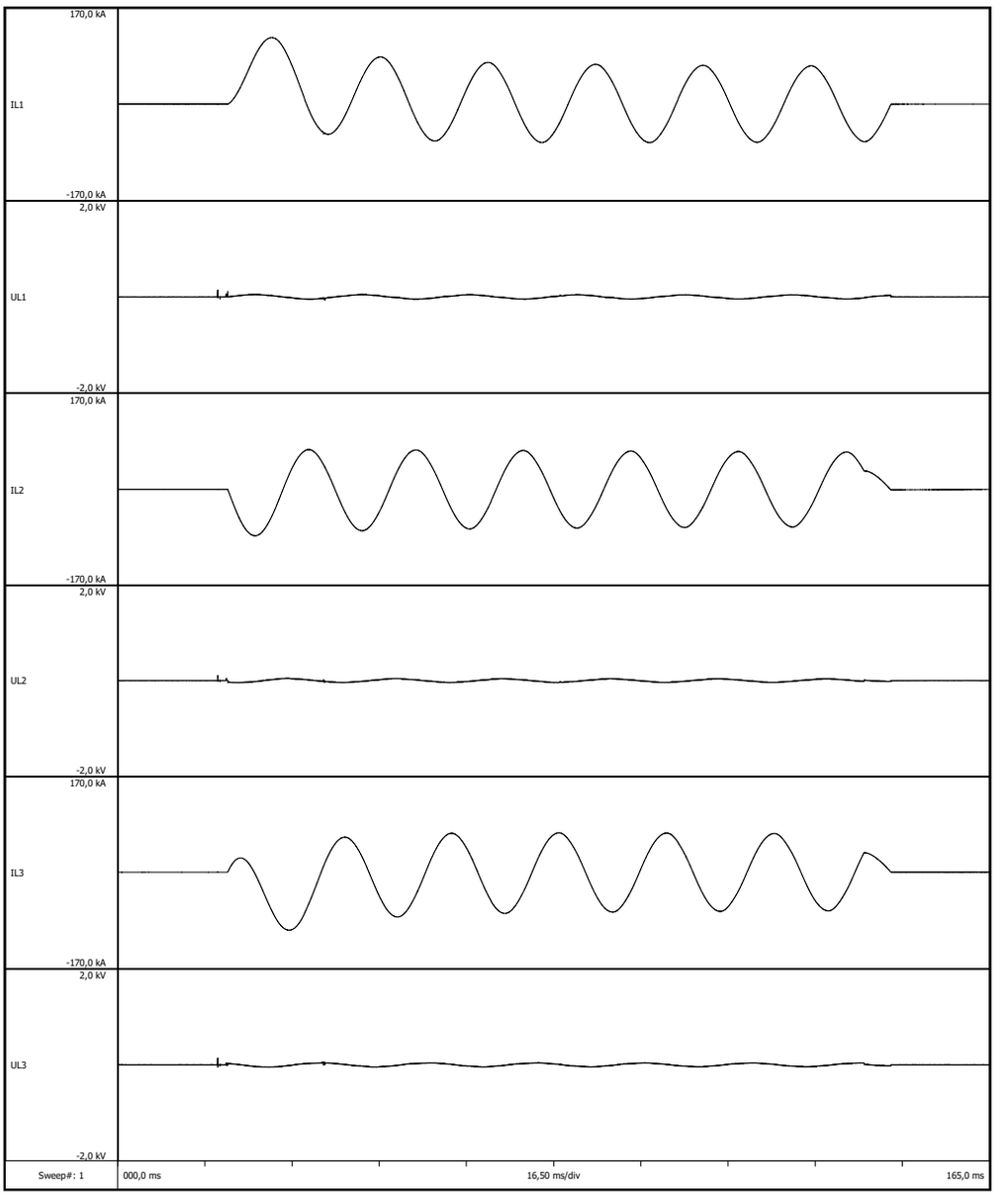
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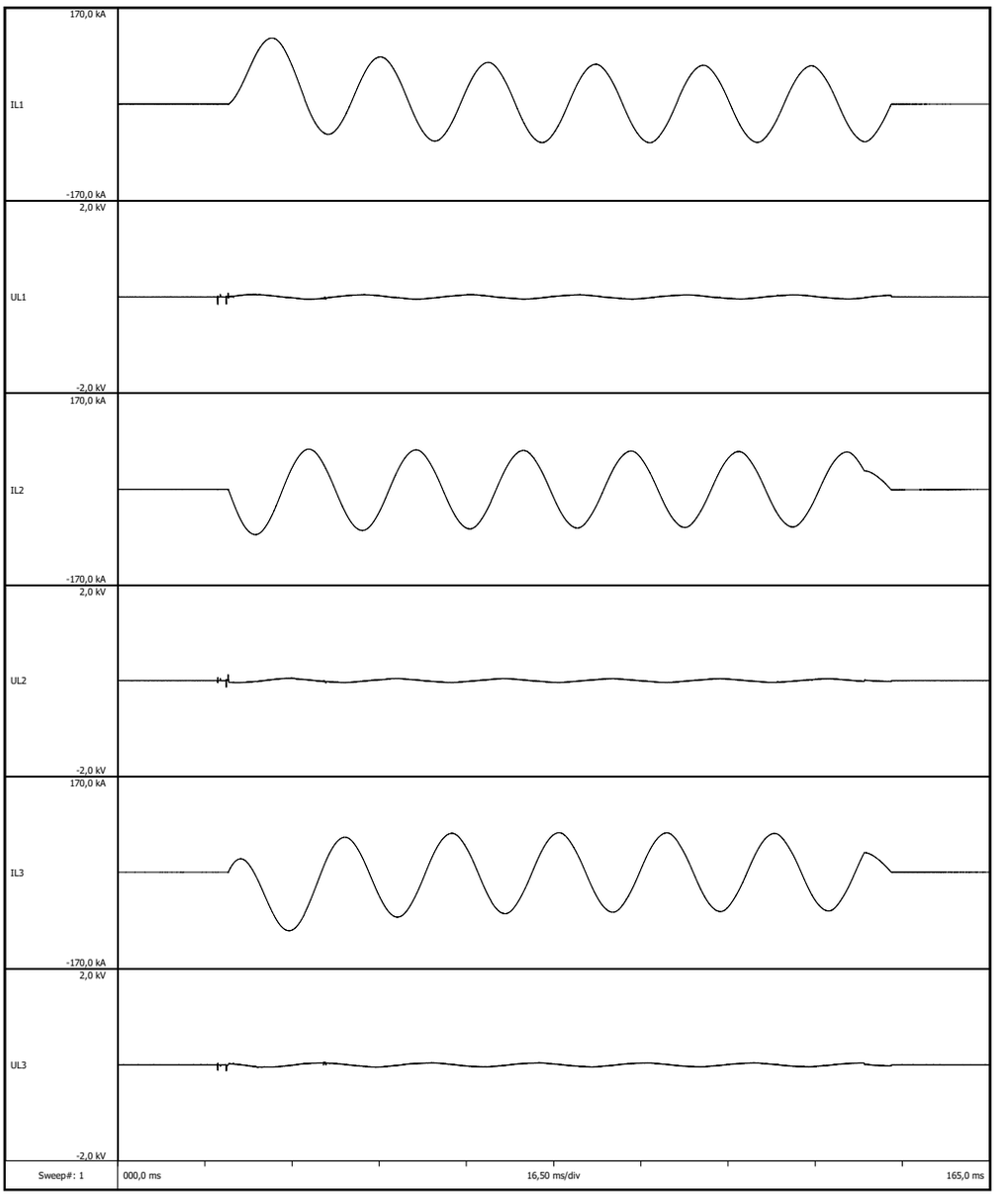
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**Appendix B Decision rule, measurement uncertainty and used equipment**

- 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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