

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: LFEC-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.

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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:

Address:

Test location:

Tested by:

Observed by:

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Denver

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Band-it IDEX

Band-it IDEX

Band-it IDEX

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DOCUMENT CONTROL

Revision	Amendment	By	Date
PDL-26.160.07	Creation	B.S.	18-09-2026

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	LFEC-F1230M*** / CFEC-F1230M***
Manufacturer	Band-it IDEX
Year of manufacture	2026

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

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	LFEC-F1230M*** (double wrapped, uncoated with rubber channel)	300	Trefoil	Class 5	115	100
12	LFEC-F1230M*** (double wrapped, uncoated with rubber channel)	600			110	
15	LFEC-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	LFEC-F1230M*** (double wrapped, uncoated with rubber channel)	115 75,1 107	300	127	9.5.2	18	Pass
		115 75,2 107		120	9.5.3	19 ¹⁾ .	

12	LFEC-F1230M*** (double wrapped, uncoated with rubber channel)	112 73,8 105	600	124	9.5.2	34	Pass
15	LFEC-F1230M*** (double wrapped, uncoated with rubber channel and with D70309 bracket)	118 83,1 103	300	124		48	
		117 81,1 104		124	9.5.3	49 ²⁾ .	
Remark: 1). Dielectric properties after Osc.6 at 1000Va.c. for 60sec: OK 2). Dielectric properties after Osc.49 at 1000Va.c. for 60sec: OK							

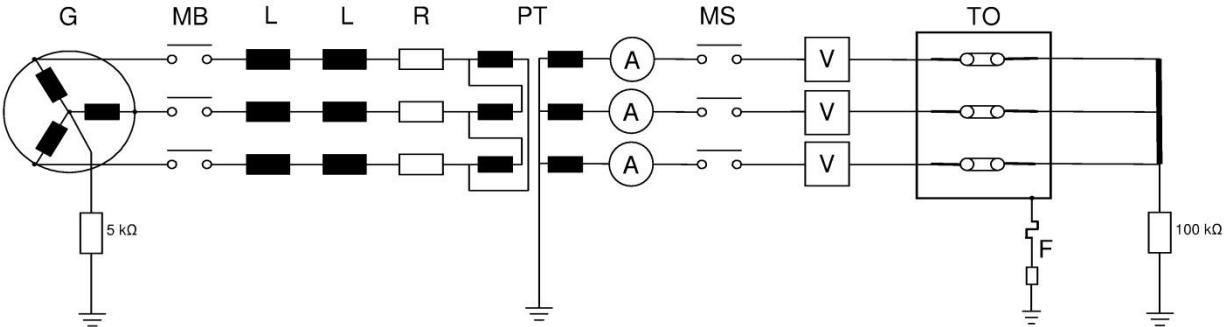
Table 2

Appendix A Short-circuit tests

A.1 Tables with test results

		TABLE WITH TEST RESULTS Short-circuit withstand tests				Date: 10/11-09-2026	Sheet: SC1
		PDL-26.160.07					
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 Cleat type: LFEC-F1230M*** / CFEC-F1230M*** (double wrapped, uncoated with rubber channel) Cable configuration: Trefoil Cable type: Class 5 Cleat spacing: 300 mm							
18	115 75,1 107	51,1 50,9 51,6	127	-	652	Clause 9.5.2 passed	
19	115 75,2 107	51,4 50,9 51,8	120	-	654	Clause 9.5.3 passed	
Test rig number: 12 Cleat type: LFEC-F1230M*** / CFEC-F1230M*** (double wrapped, uncoated with rubber channel) Cable configuration: Trefoil Cable type: Class 5 Cleat spacing: 600 mm							
34	112 73,8 105	49,9 49,8 50,5	124	-	654	Clause 9.5.2 passed	
Test rig number: 15 Cleat type: LFEC-F1230M*** / CFEC-F1230M*** (double wrapped, uncoated with rubber channel and with D70309 bracket) Cable configuration: Trefoil Cable type: Class 5 Cleat spacing: 300 mm							
48	118 83,1 103	50,1 49,7 51,1	124	-	454	Clause 9.5.2 passed	
49	117 81,1 104	50,2 49,7 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							

A.2 Test circuit diagram

	TEST CIRCUIT DIAGRAMS Short-circuit laboratory	Test report: 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)		

A.3 Pictures of short-circuit tests



Photo 2: After Osc.19



Photo 3: After Osc.34



Photo 4: Before Osc.48

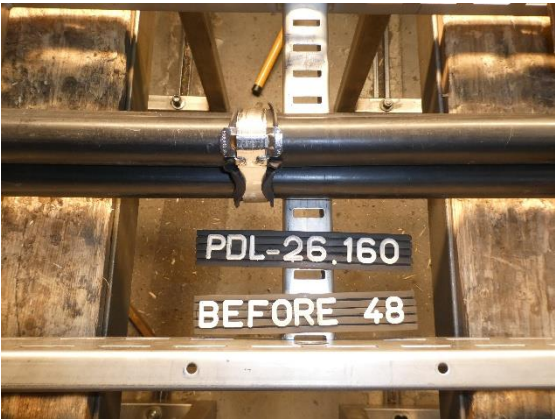


Photo 5: Before Osc.48



Photo 6: After Osc.48



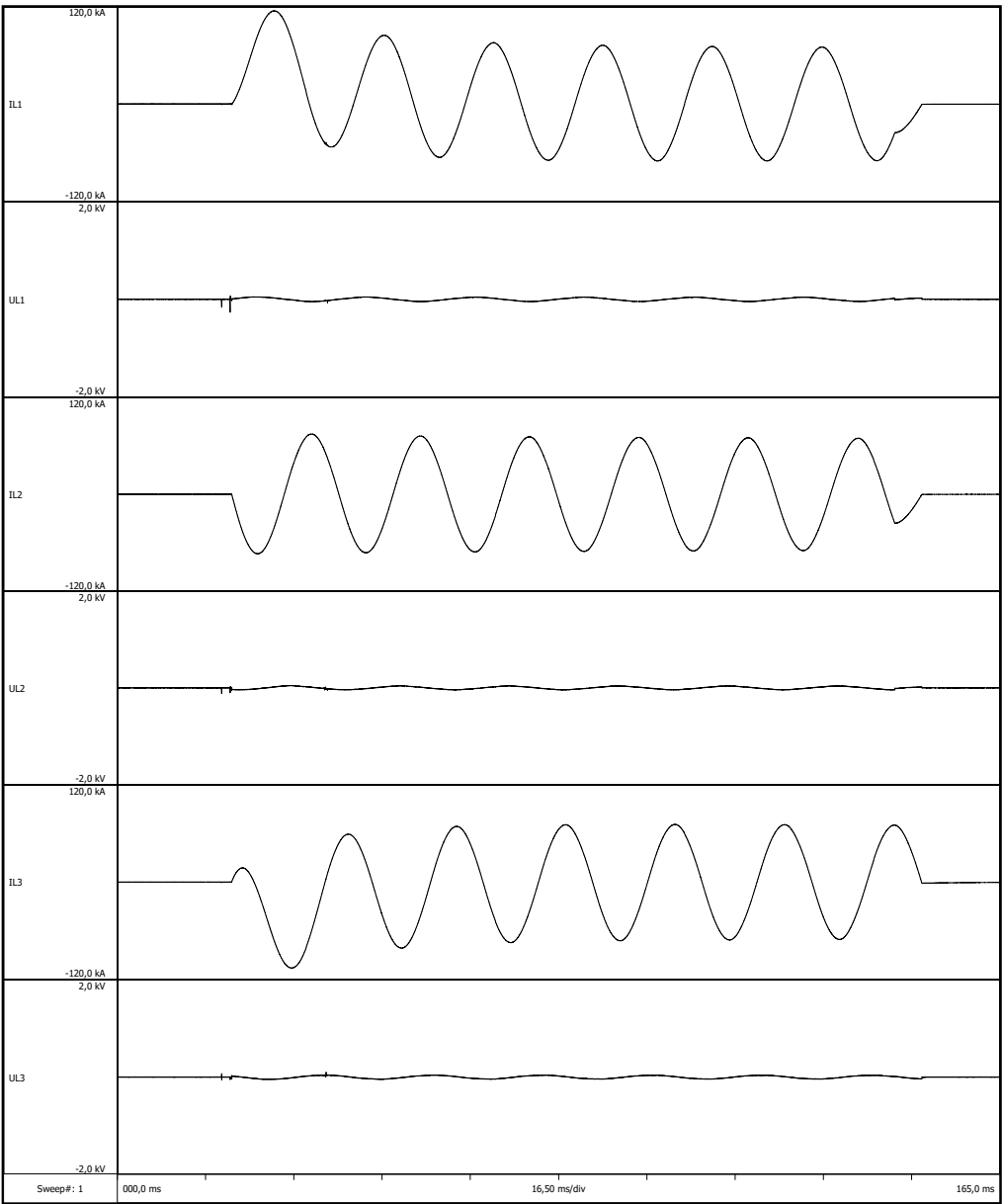
Photo 7: After Osc.49

A.4 Oscillograms

PDL-26.160

Osc018

10-9-2026

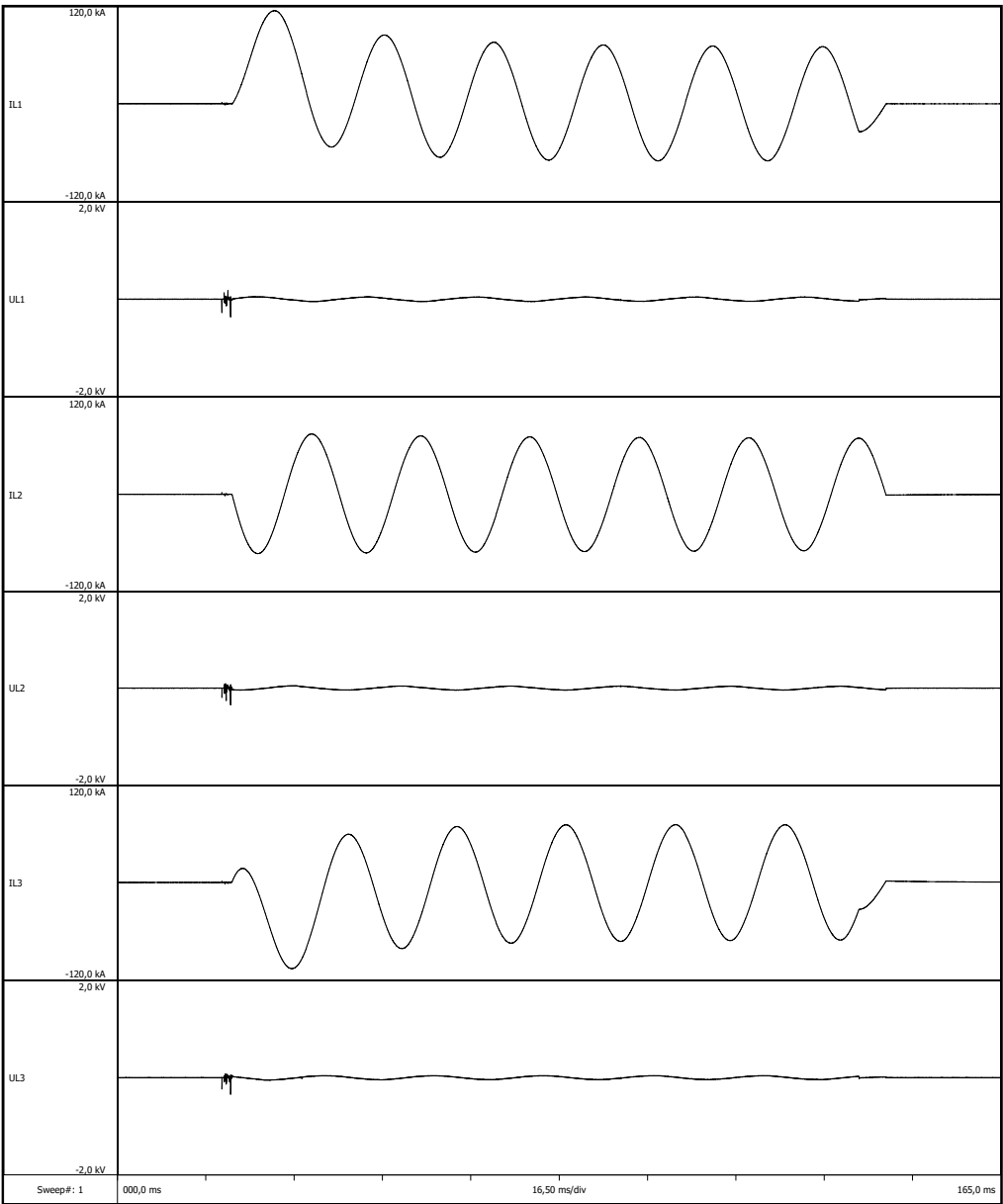


PDLF-90810A_V3.0

PDL-26.160

Osc019

10-9-2026

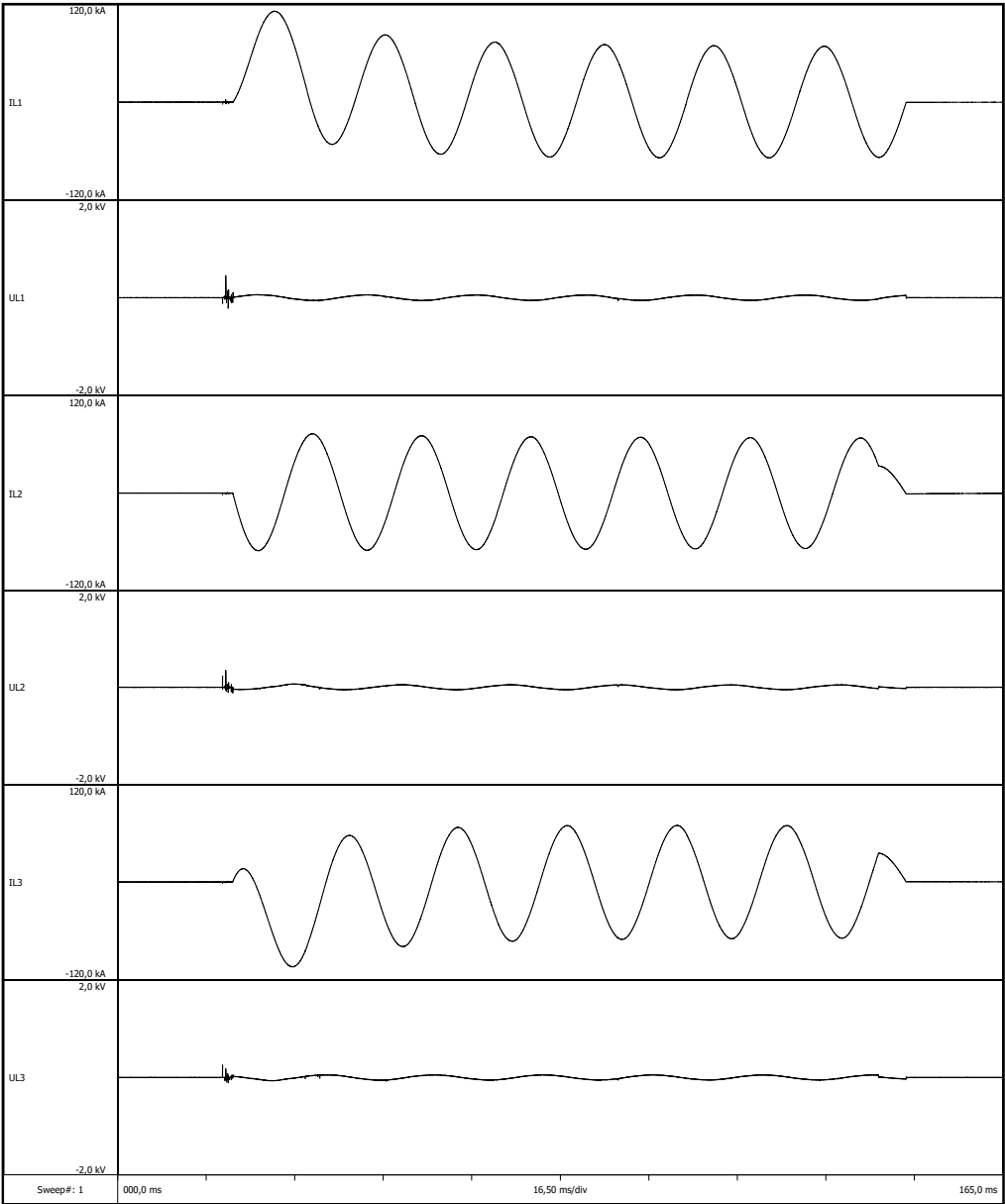


PDLF-90810A_V3.0

PDL-26.160

Osc034

11-9-2026

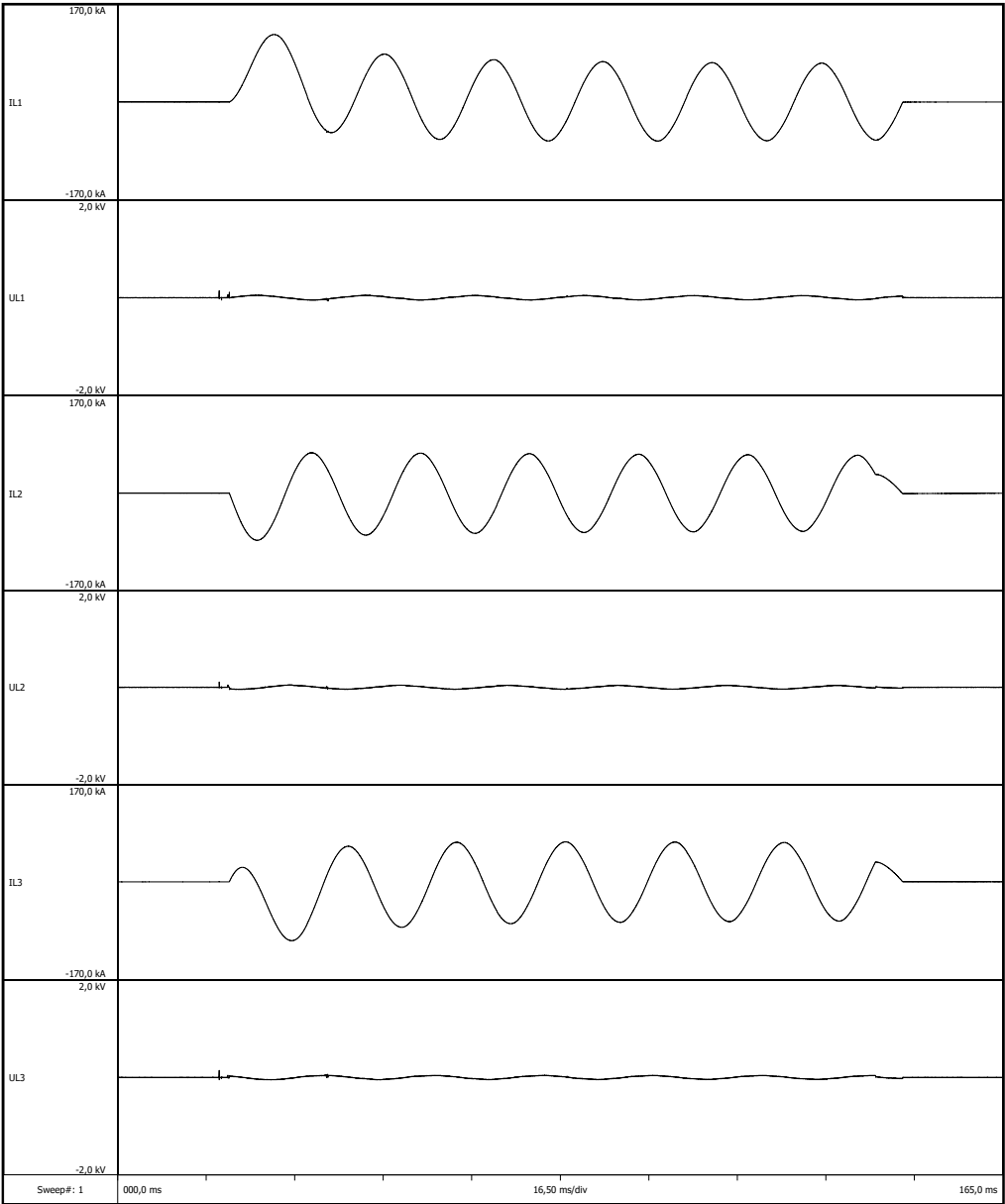


PDLF-90810A_V3.0

PDL-26.160

Osc048

11-9-2026

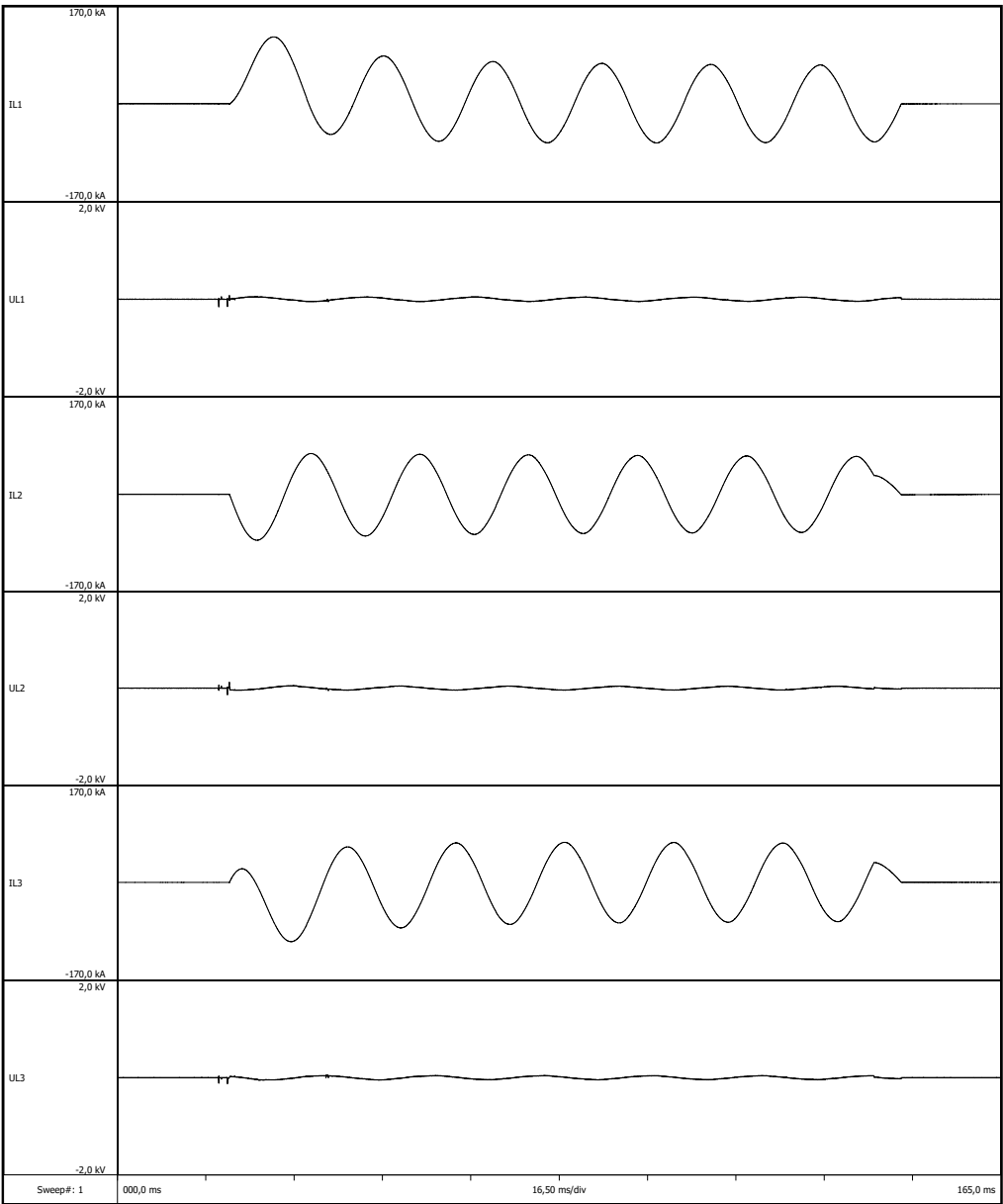


PDLF-90810A_V3.0

PDL-26.160

Osc049

11-9-2026



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.