

Client: Band-it IDEX
Order number: EL7849
Date of tests: 29th of May 2026
Report code: TR

Prof. Ir. Damstra Laboratory
P.O. Box 23, 7550 AA Hengelo
Europalaan 210, 7559 SC Hengelo
The Netherlands

+31 (0)74 - 246 43 51

info@damstra-lab.nl
www.damstra-lab.nl

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-F0615M***-A900 / CFFC-F0615M***-A900
Configuration: 12

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.

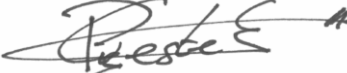
Author: B. Stange
Test Engineer

Checked by: R. Wanschers
Test Coordinator



This report consists of: 13
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.



Publication and/or reproduction of the content of this report in any other form than by complete and verbatim text in the language it was originally issued is not allowed without written permission.

Client:

Address:

Test location:

Tested by:

Observed by:

Band-it IDEX

4799 Dahlia street
CO 80216
Denver
United States

Prof. Ir. Damstra Laboratory
Hengelo, The Netherlands

B. Stange

P. Moreno
T. Lambert
G. Li

Prof. Ir. Damstra Laboratory

Band-it IDEX
Band-it IDEX
IDEX China

TABLE OF CONTENTS

1

Object identification

3

1.1

Technical data and characteristics

3

2

Test program

4

2.1

Normative document.....

4

3

Test results.....

4

Appendix A

Tests for the resistance to electromechanical forces.....

5

A.1

Tables with test results

5

A.2

Test circuit diagram.....

6

A.3

Pictures of the tests for resistance to electromechanical forces

7

A.4

Oscillograms

8

Appendix B

Decision rule, measurement uncertainty and used equipment.....

13

DOCUMENT CONTROL

Revision	Amendment	By	Date
PDL-26.102.05	Creation	B.S.	17-06-2026

1

Object identification



Photo 1

Cable cleats for electrical installations
Manufacturer: Band-it IDEX
Configuration: 12

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-F0615M***-A900 / CFFC-F0615M***-A900		
Manufacturer	Band-it IDEX		
Year of manufacture	2026		
Rated characteristics of system			
Rated peak withstand current, I_{pk}			30kA

2 **Test program**

Configuration	Cleat type	Centers between fixed cleats [mm]	Cable formation	Type of cable	Target peak current [kA]	Duration [ms]
12	LFFC- F0615M***- A900 / CFFC- F0615M***- A900	300	Trefoil	Classe 5	30,0	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
12	LFFC- F0615M***- A900 / CFFC- F0615M***- A900	30,4 22,5 27,7	300	120	9.5.2	16	Pass
		35,2 26,0 32,0		121		17	
		40,2 28,8 37,3		121		18	
		40,4 29,3 37,8		123	9.5.3	19	
Remarks:							

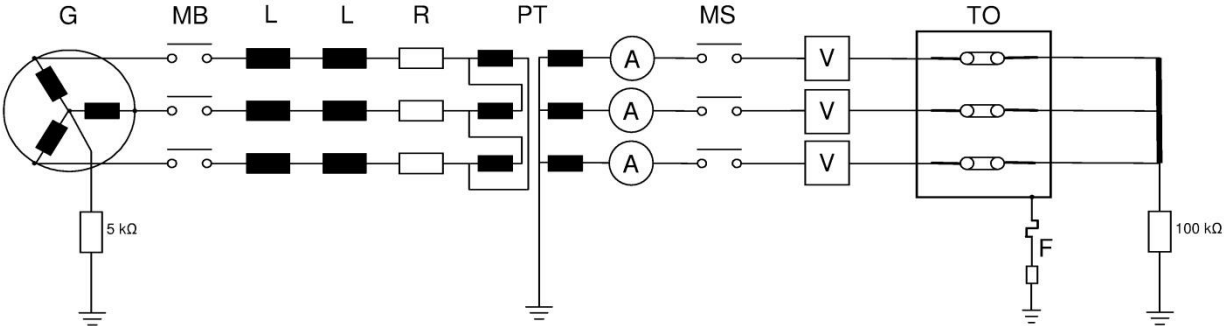
Table 2

Appendix A Tests for the resistance to electromechanical forces

A.1 Tables with test results

		TABLE WITH TEST RESULTS Short-circuit withstand tests				Date: 29-05-2026	Sheet: SC1
		PDL-26.102.05					
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 12 Cleat type: LFFC-F0615M*** / CFFC-F0615M***-A900 Cable type: Class 5 Cleat spacing: 300 mm							
15	15,8 12,1 14,4	7,96 7,99 8,07	117	-	69,4	Calibration shot	
16	30,4 22,5 27,7	15,1 15,2 15,3	120	-	133	9.5.2 Pass No visible disturbance.	
17	35,2 26,0 32,0	17,6 17,6 17,8	121	-	155	9.5.2 Pass No visible disturbance.	
18	40,2 28,8 37,3	20,1 20,1 20,4	121	-	177	9.5.2 Pass No visible disturbance.	
19	40,4 29,3 37,8	20,3 20,3 20,5	123	-	178	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							

A.2 Test circuit diagram

	TEST CIRCUIT DIAGRAMS Short-circuit laboratory	Test report: PDL-26.102.05
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

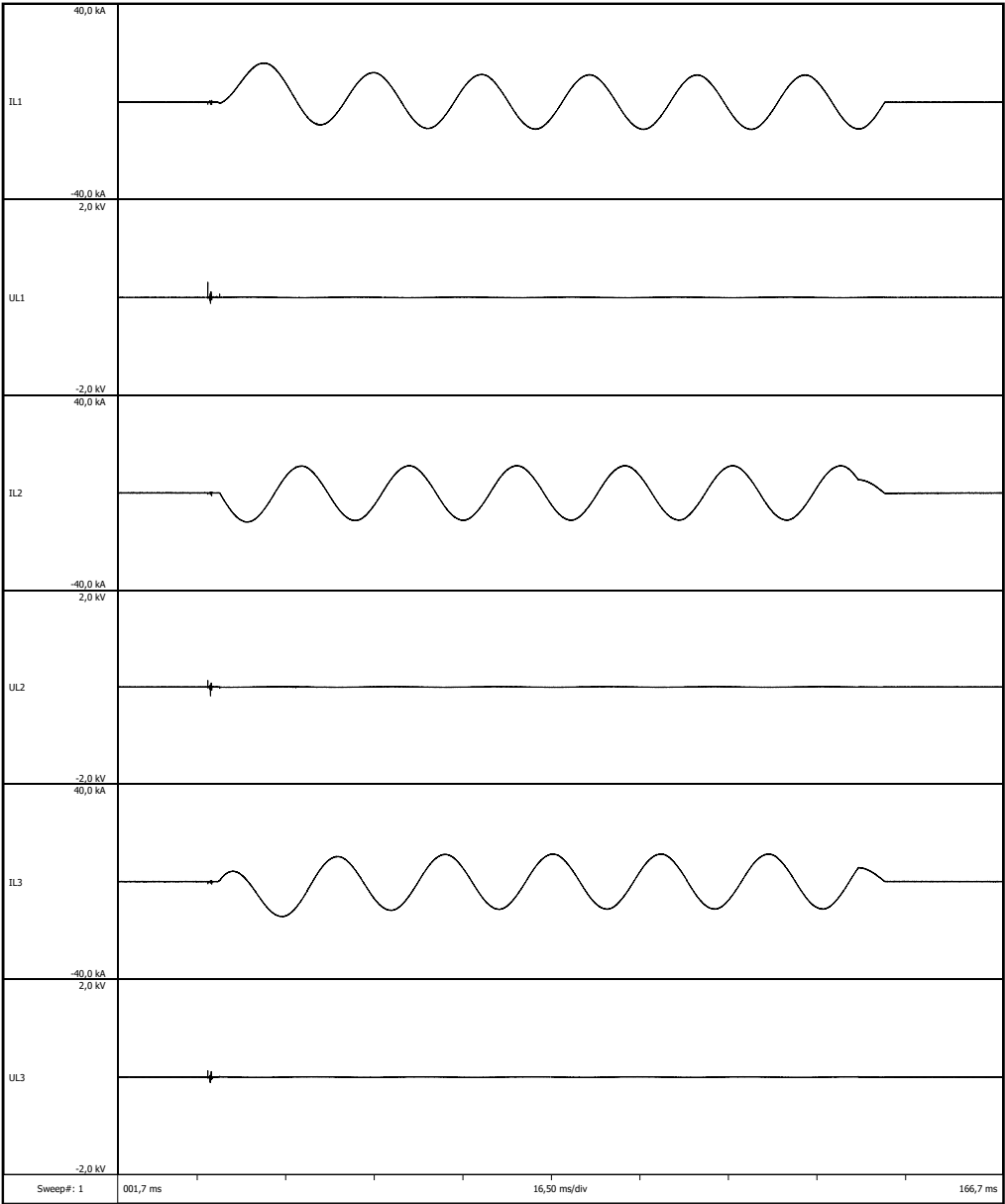
	
Photo 3: Before Osc.15	Photo 4: After Osc.19
	
Photo 5: After Osc.19	

A.4 Oscillograms

PDL-26.102

Osc015

29-5-2026

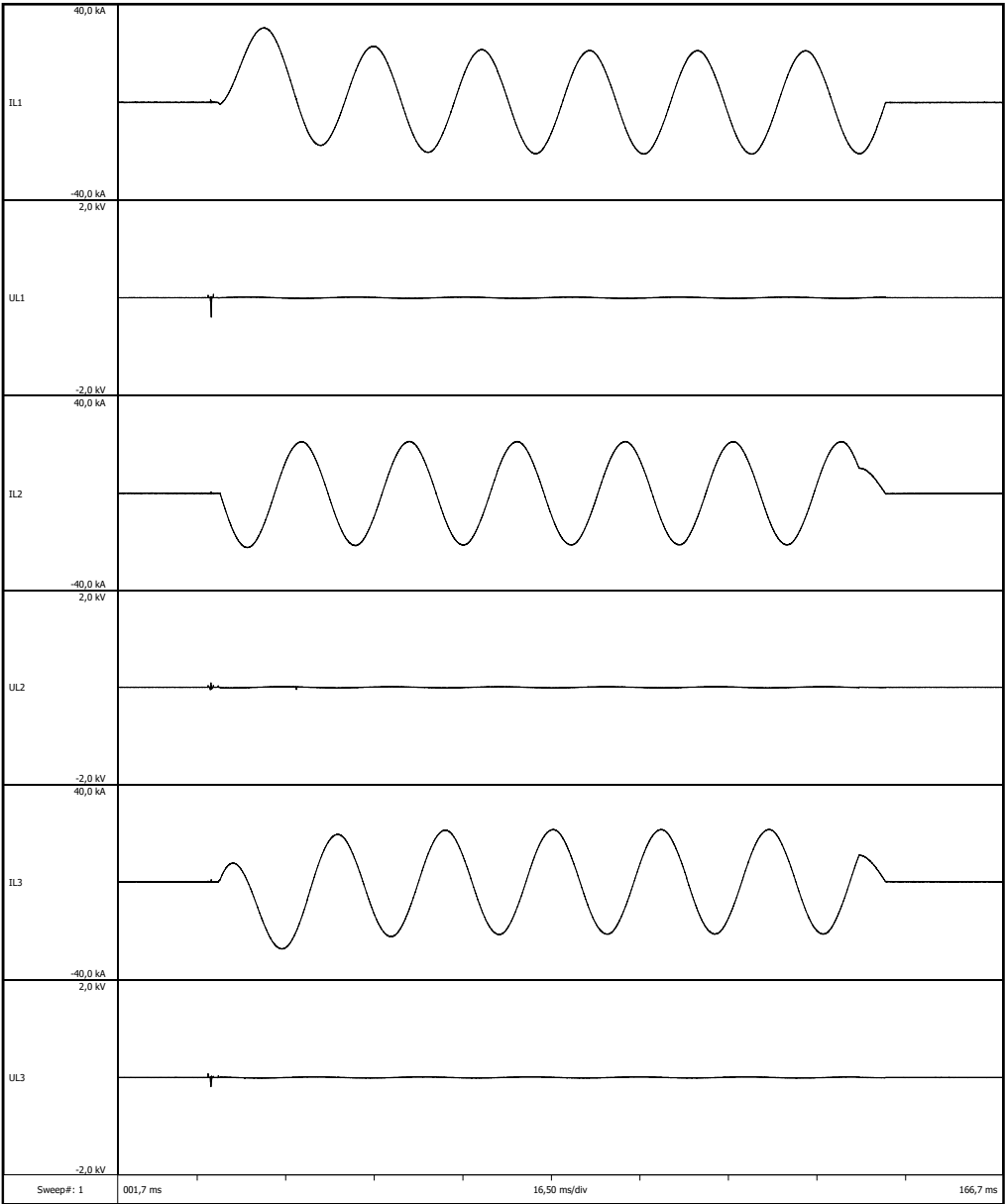


PDLF-90810A_V3.0

PDL-26.102

Osc016

29-5-2026

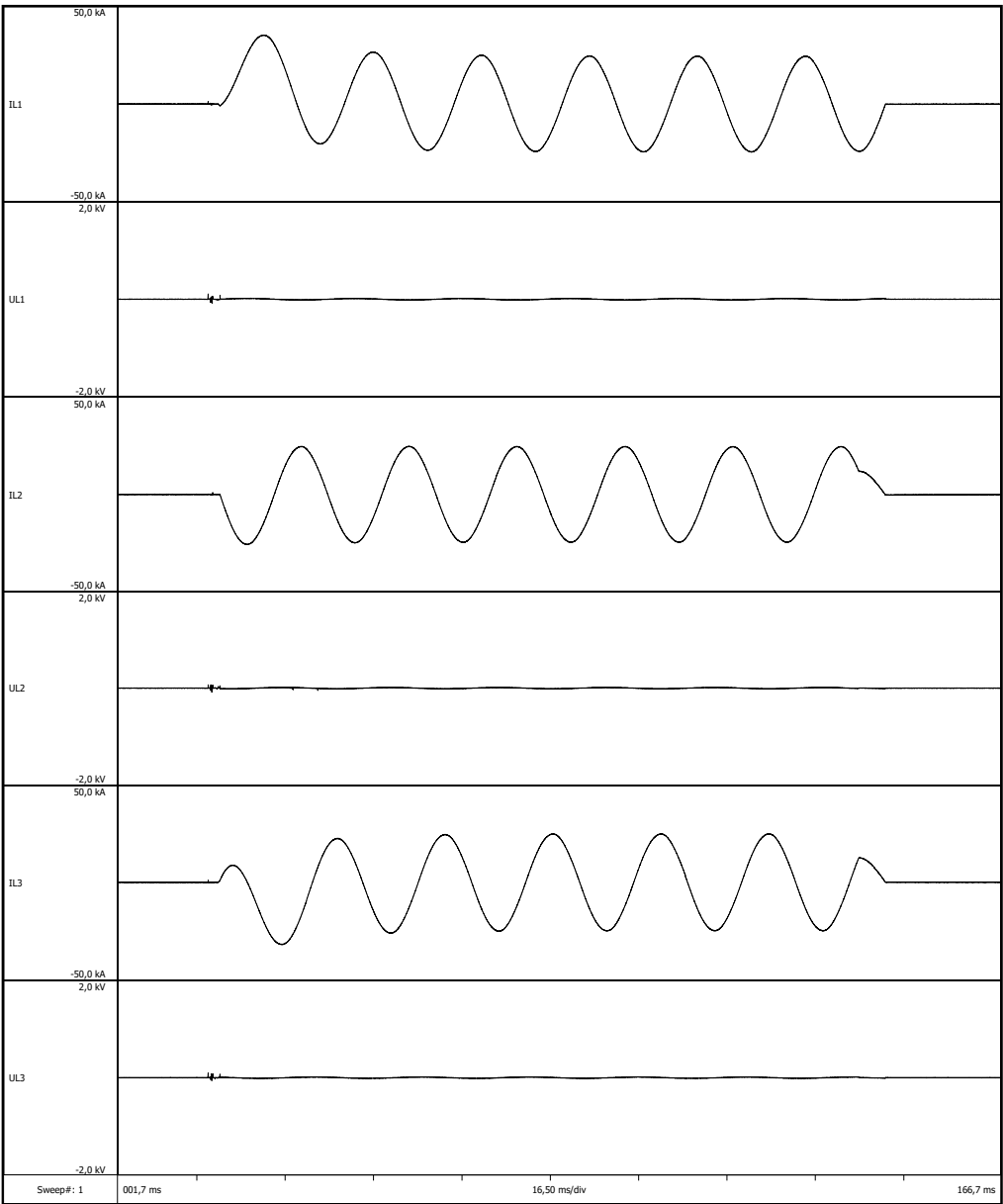


PDLF-90810A_V3.0

PDL-26.102

Osc017

29-5-2026

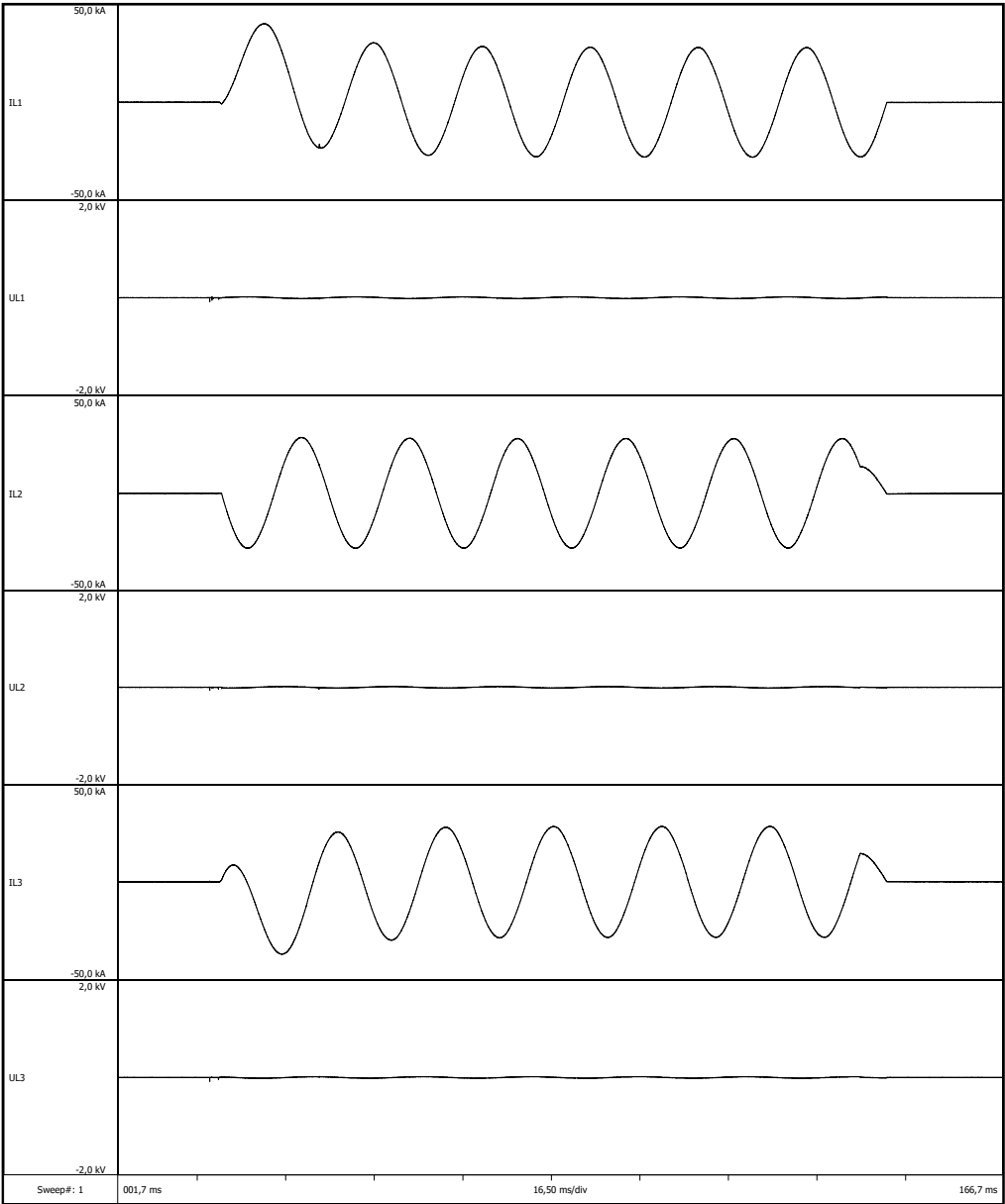


PDLF-90810A_V3.0

PDL-26.102

Osc018

29-5-2026

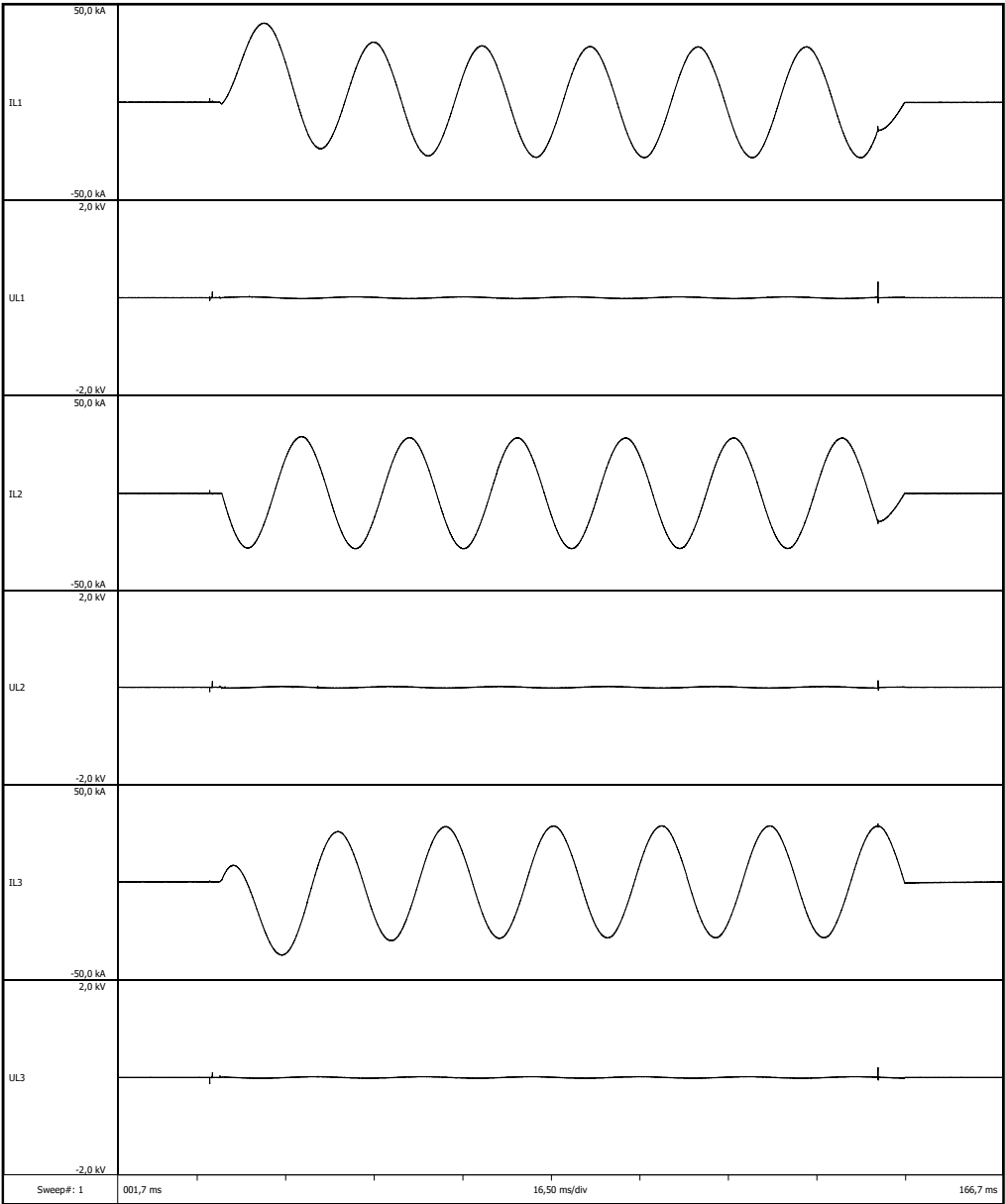


PDLF-90810A_V3.0

PDL-26.102

Osc019

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.