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Standards

Irish Standard  
I.S. EN IEC 61557-7:2022

Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 7: Phase sequence

**I.S. EN IEC 61557-7:2022**

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*This document is based on:*

EN IEC 61557-7:2022

*Published:*

2022-05-20

*This document was published  
under the authority of the NSAI  
and comes into effect on:*

2022-06-07

ICS number:

17.220.20

29.080.01

29.240.01

NOTE: If blank see CEN/CENELEC cover page

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## National Foreword

I.S. EN IEC 61557-7:2022 is the adopted Irish version of the European Document EN IEC 61557-7:2022, Electrical safety in low voltage distribution systems up to 1 000 V a.c. and 1 500 V d.c. - Equipment for testing, measuring or monitoring of protective measures - Part 7: Phase sequence

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EUROPEAN STANDARD

**EN IEC 61557-7**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2022

ICS 17.220.20; 29.080.01; 29.240.01

Supersedes EN 61557-7:2007

English Version

**Electrical safety in low voltage distribution systems up to 1 000 V  
a.c. and 1 500 V d.c. - Equipment for testing, measuring or  
monitoring of protective measures - Part 7: Phase sequence  
(IEC 61557-7:2019)**

Sécurité électrique dans les réseaux de distribution basse  
tension au plus égale à 1 000 V c.a. et 1 500 V c.c. -  
Dispositifs de contrôle, de mesure ou de surveillance de  
mesures de protection - Partie 7: Ordre de phases  
(IEC 61557-7:2019)

Elektrische Sicherheit in Niederspannungsnetzen bis AC  
1 000 V und DC 1 500 V - Geräte zum Prüfen, Messen oder  
Überwachen von Schutzmaßnahmen - Teil 7: Drehfeld  
(IEC 61557-7:2019)

This European Standard was approved by CENELEC on 2022-04-06. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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Comité Européen de Normalisation Electrotechnique  
Europäisches Komitee für Elektrotechnische Normung

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

## **EN IEC 61557-7:2022 (E)**

### **European foreword**

The text of document 85/683/FDIS, future edition 3 of IEC 61557-7, prepared by IEC/TC 85 "Measuring equipment for electrical and electromagnetic quantities" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 61557-7:2022.

The following dates are fixed:

- latest date by which the document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2023-01-06
- latest date by which the national standards conflicting with the document have to be withdrawn (dow) 2025-04-06

This document supersedes EN 61557-7:2007 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

This document has been prepared under a Standardization Request given to CENELEC by the European Commission and the European Free Trade Association.

Any feedback and questions on this document should be directed to the users' national committee. A complete listing of these bodies can be found on the CENELEC website.

### **Endorsement notice**

The text of the International Standard IEC 61557-7:2019 was approved by CENELEC as a European Standard without any modification.

## Annex ZA

### (normative)

### Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: [www.cenelec.eu](http://www.cenelec.eu).

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 61010-1	2010	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 1: General requirements	EN 61010-1	2010
+ A1 (mod)	2016		+ A1	2019
IEC 61010-2-030	2017	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-030: Particular requirements for equipment having testing or measuring circuits	EN IEC 61010-2-030	2021
-	-		+ A11	2021
IEC 61010-031	-	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test	EN 61010-031	-
IEC 61557-1	2019	Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC - Equipment for testing, measuring or monitoring of protective measures - Part 1: General requirements	EN IEC 61557-1	2021

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**IEC 61557-7**

Edition 3.0 2019-07

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Electrical safety in low voltage distribution systems up to 1 000 V a.c. and  
1 500 V d.c. – Equipment for testing, measuring or monitoring of protective  
measures –**

**Part 7: Phase sequence**

**Sécurité électrique dans les réseaux de distribution basse tension au plus  
égale à 1 000 V c.a. et 1 500 V c.c. – Dispositifs de contrôle, de mesure ou  
de surveillance de mesures de protection –**

**Partie 7: Ordre de phases**



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#### Electropedia - [www.electropedia.org](http://www.electropedia.org)

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**IEC 61557-7**

Edition 3.0 2019-07

# INTERNATIONAL STANDARD

## NORME INTERNATIONALE



**Electrical safety in low voltage distribution systems up to 1 000 V a.c. and  
1 500 V d.c. – Equipment for testing, measuring or monitoring of protective  
measures –**

**Part 7: Phase sequence**

**Sécurité électrique dans les réseaux de distribution basse tension au plus  
égale à 1 000 V c.a. et 1 500 V c.c. – Dispositifs de contrôle, de mesure ou  
de surveillance de mesures de protection –**

**Partie 7: Ordre de phases**

INTERNATIONAL  
ELECTROTECHNICAL  
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COMMISSION  
ELECTROTECHNIQUE  
INTERNATIONALE

ICS 17.220.20; 29.080.01; 29.240.01

ISBN 978-2-8322-7161-2

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**CONTENTS**

FOREWORD .....	3
1 Scope .....	5
2 Normative references .....	5
3 Terms and definitions .....	5
4 Requirements .....	6
4.1 General .....	6
4.2 Indication .....	6
4.3 Measuring equipment .....	7
4.3.1 General .....	7
4.3.2 Portable phase sequence indicator .....	7
4.3.3 Test leads for direct contact with live parts and accessories .....	7
5 Marking and operating instructions .....	8
5.1 Marking .....	8
5.2 Operating instructions .....	8
6 Tests .....	8
6.1 General .....	8
6.1.1 Tests – General .....	8
6.1.2 Visual display .....	8
6.1.3 Audible indication (if applicable) .....	8
6.2 Leakage current .....	8
6.3 Test of mechanical requirements (type tests) .....	9
6.3.1 Mechanical shock test .....	9
6.3.2 Test of leads for direct contact with live parts .....	9
6.4 Overvoltage .....	9
6.5 Test of markings .....	9
Annex A (normative) Illustrations for mechanical tests .....	10
Annex B (informative) Phase sequence test .....	12
B.1 Phase sequence test – Tripolar connection .....	12
B.2 Phase sequence test – Sequential bipolar connection .....	12
Bibliography .....	14
Figure A.1 – Mechanical shock test .....	10
Figure A.2 – Drop test .....	11
Figure B.1 – Tripolar connection .....	12
Figure B.2 – Sequential bipolar connection .....	13

## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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### **ELECTRICAL SAFETY IN LOW VOLTAGE DISTRIBUTION SYSTEMS UP TO 1 000 V AC AND 1 500 V DC – EQUIPMENT FOR TESTING, MEASURING OR MONITORING OF PROTECTIVE MEASURES –**

#### **Part 7: Phase sequence**

#### **FOREWORD**

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International Standard IEC 61557-7 has been prepared by IEC technical committee 85: Measuring equipment for electrical and electromagnetic quantities.

This third edition cancels and replaces the second edition published in 2007. This edition constitutes a technical revision.

This edition includes the following changes with respect to the previous edition:

- a) alignment of the structure with that of the whole IEC 61557 series;
- b) updated requirements in 4.3 in accordance with new editions of IEC 61010-1 and IEC 61010-031;
- c) the information on markings was extended;
- d) the information on the operating instructions was extended;

- e) complement to the information on the testing of leads;
- f) test leads for insulated conductors were introduced;
- g) Annex B was added with information on phase sequence tests and indications.

The text of this International Standard is based on the following documents:

FDIS	Report on voting
85/683/FDIS	85/698/RVD

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

This International Standard is to be used in conjunction with IEC 61557-1:2019.

A list of all parts of the IEC 61557 series, published under the general title *Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC – Equipment for testing, measuring or monitoring of protective measures*, can be found on the IEC website

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "<http://webstore.iec.ch>" in the data related to the specific document. At this date, the document will be

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# **ELECTRICAL SAFETY IN LOW VOLTAGE DISTRIBUTION SYSTEMS UP TO 1 000 V AC AND 1 500 V DC – EQUIPMENT FOR TESTING, MEASURING OR MONITORING OF PROTECTIVE MEASURES –**

## **Part 7: Phase sequence**

### **1 Scope**

This part of IEC 61557 specifies the requirements applicable to measuring equipment for testing the phase sequence in three-phase distribution systems. Indication of the phase sequence can be mechanical, visual and/or audible.

This document does not apply to additional measurements for other quantities. It does not apply to monitoring relays.

NOTE Common worldwide three-phase distribution systems are depicted in IEC 61010-1.

### **2 Normative references**

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 61010-1:2010, *Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 1: General requirements*  
IEC 61010-1:2010/AMD1:2016<sup>1</sup>

IEC 61010-2-030:2017, *Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-030: Particular requirements for equipment having testing or measuring circuits*

IEC 61010-031, *Safety requirements for electrical equipment for measurement, control and laboratory use – Part 031: Safety requirements for hand-held and hand-manipulated assemblies for electrical test and measurement*

IEC 61557-1:2019 *Electrical safety in low voltage distribution systems up to 1 000 V AC and 1 500 V DC – Equipment for testing, measuring or monitoring of protective measures – Part 1: General requirements*

### **3 Terms and definitions**

For the purposes of this document, the terms and definitions given in IEC 61557-1 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

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<sup>1</sup> A consolidated version of this publication exists, comprising IEC 61010-1:2010 and IEC 61010-1:2010/AMD1:2016.

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