SLOVENSKI STANDARD

SIST EN IEC 61557-7:2022/oprA1:2022

01-julij-2022

Električna varnost v nizkonapetostnih razdelilnih sistemih za izmenične napetosti do 1 000 V in enosmerne napetosti do 1 500 V - Oprema za preskušanje, merjenje ali nadzorovanje zaščitnih ukrepov - 7. del: Fazno zaporedje - Dodatek A1

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

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

Ta slovenski standard je istoveten z: **EN IEC 61557-7:2022/prA1:2022**

ICS:

17.220.20	Merjenje električnih in magnetnih veličin	Measurement of electrical and magnetic quantities
29.080.01	Električna izolacija na splošno	Electrical insulation in general
29.240.01	Omrežja za prenos in distribucijo električne energije na splošno	Power transmission and distribution networks in general

SIST EN IEC 61557-7:2022/oprA1:2022 **en,fr,de**

85/828/CDV

COMMITTEE DRAFT FOR VOTE (CDV)

PROJECT NUMBER: **IEC 61557-7/AMD1 ED3**	
DATE OF CIRCULATION: **2022-06-03**	CLOSING DATE FOR VOTING: **2022-08-26**
SUPERSEDES DOCUMENTS: **85/769/CD, 85/798A/CC**	

IEC TC 85 : MEASURING EQUIPMENT FOR ELECTRICAL AND ELECTROMAGNETIC QUANTITIES

SECRETARIAT: China	SECRETARY: Ms Guiju HAN
OF INTEREST TO THE FOLLOWING COMMITTEES: TC 64,TC 78	PROPOSED HORIZONTAL STANDARD: ☐ Other TC/SCs are requested to indicate their interest, if any, in this CDV to the secretary.

FUNCTIONS CONCERNED:

☐ EMC ☐ ENVIRONMENT ☐ QUALITY ASSURANCE ☒ SAFETY

☒ SUBMITTED FOR CENELEC PARALLEL VOTING	☐ NOT SUBMITTED FOR CENELEC PARALLEL VOTING

Attention IEC-CENELEC parallel voting

The attention of IEC National Committees, members of CENELEC, is drawn to the fact that this Committee Draft for Vote (CDV) is submitted for parallel voting.

The CENELEC members are invited to vote through the CENELEC online voting system.

This document is still under study and subject to change. It should not be used for reference purposes.

Recipients of this document are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

TITLE:

Amendment 1 - 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

PROPOSED STABILITY DATE: 2028

NOTE FROM TC/SC OFFICERS:

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

AMENDMENT 1

FOREWORD

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Amendment 1 to IEC 61557-7:2019 has been prepared by IEC technical committee 85: MEASURING EQUIPMENT FOR ELECTRICAL AND ELECTROMAGNETIC QUANTITIES.

The text of this Amendment is based on the following documents:

Draft	Report on voting
XX/XX/XXXX	XX/XX/XXX

Full information on the voting for its approval can be found in the report on voting indicated in the above table.

The language used for the development of this Amendment is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/standardsdev/publications/.

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

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

1 Scope

Replace the NOTE by the following:

NOTE Common three-phase distribution systems are depicted in IEC 61010-1:2010/AMD1:2016, Annex I.

4 Requirements

4.3 Measuring equipment

4.3.1 General

Replace the last paragraph by the following:

The phase sequence test (see Annex B) can be realised with test probes for direct contact with live parts, conductors or terminals, or with capacitive test clips for non-contact phase detection on insulated or uninsulated conductors.

4.3.3 Test leads for direct contact with live parts and accessories

Replace the fifth paragraph by the following:

Portable measuring equipment, together with its test leads, shall comply with the requirements for mechanical strength in accordance with IEC 61010-1 and in addition shall be tested in accordance with 6.3.1

Add the following new subclause:

4.3.4 Test clips for non-contact phase detection

Phase sequence indicator designed for operation without direct contact to live parts shall be provided with leads and capacitive test clips for phase detection on insulated or uninsulated conductors complying with the requirements for spring-loaded clips of IEC 61010-031.

5 Marking and operating instructions

5.2 Operating instructions

Replace the text by the following:

In addition to IEC 61557-1:2019, 5.3, the following information shall be provided in the operating instructions:

– specific indications for the error cases of 4.2

– limits of unbalance in amplitude and phase delay handled reliably by the phase sequence indicator

6 Tests

6.1 General

6.1.2 Visual display

Replace the first sentence of 2nd paragraph by the following:

The display shall be unambiguously discernible by an observer with average sight from a distance of 0,5 m at ambient lighting levels from 30 lx to 1 000 lx.

6.1.3 Audible indication (if applicable)

Replace the text by the following:

The audible indication shall generate a sound level equal to or greater than 58,5 dB if continuous or 55,5 dB if intermittent in the frequency range between 1 kHz and 4 kHz.