

STN	Priechodky na transformátory a tlmivky s káblovými skriňami na napätie neprevyšujúce 36 kV	STN EN 50336 34 8158
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Bushings for transformers and reactor cable boxes not exceeding 36 kV

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 07/21

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EUROPÄISCHE NORM

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Supersedes EN 50336:2002 and all of its amendments
and corrigenda (if any)

English Version

**Bushings for transformers and reactor cable boxes not
exceeding 36 kV**Traversées pour boîtes à câbles de transformateurs et
bobines d'inductance ne dépassant pas 36 kVDurchführungen für Kabelanschlusskästen von
Transformatoren und Drosselspulen bis 36 kV

This European Standard was approved by CENELEC on 2021-03-30. 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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European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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European foreword

This document (EN 50336:2021) has been prepared by CLC/TC 36A "Insulated bushings".

The following dates are fixed:

- latest date by which this document has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2022-03-30
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2024-03-30

This document supersedes EN 50336:2002 and all of its amendments and corrigenda (if any).

EN 50336:2021 includes the following significant technical changes with respect to EN 50336:2002:

- 3.1 – Minimum IP rating removed from air filled cable boxes.
- 3.4 and 3.5 – EN 60137 added as a reference specification.
- 4.1 – Clarification that transformer side bushing connection is to be fully immersed in insulating liquid.
- 4.3.1 – EN 62155 referenced as standard rather than HD.
- Table 1 – Material corrected on the 400 and 630A rated items from brass to copper.
- 4.4.2 – Time frame for temperature cycle testing added.
- 4.4.3.3 – Test criteria clarified for applications over 1.1kV.
- Table 2 – Corrected L3 dimension on 36kV bushings from 250 mm - 350 mm.
- Figure 9 / Table 9 – D2 dimension added to show required plain connection size for the range of terminals.

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.

EN 50336:2021 (E)**1 Scope**

This document is applicable to insulated bushings, excluding those plug-in bushings specified by EN 50180 series, for use in air insulated, shroud insulated and fully insulated cable boxes for liquid filled transformers and reactors for rated voltages up to 36 kV, and rated currents up to 4 000 A at frequencies from 15 Hz to 60 Hz.

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.

EN 60137, *Insulated bushings for alternating voltages above 1 000 V (IEC 60137)*

EN 62155, *Hollow pressurized and unpressurized ceramic and glass insulators for use in electrical equipment with rated voltages greater than 1 000 V (IEC 62155)*

IEC 60296, *Fluids for electrotechnical applications - Mineral insulating oils for electrical equipment*

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