

Nederlandse norm

NEN-EN 50588-1/A1

(en)

Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV - Part 1: General requirements

Energie-transformatoren bestemd voor gebruik met 50 Hz met een hoogste spanning van het materieel niet hoger dan 36 kV - Deel 1: Algemene eisen

Vervangt NEN-EN 50588-1:2015/Ontw. A1:2016

ICS 29.180
juni 2016

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EUROPEAN STANDARD

EN 50588-1:2015/A1

NORME EUROPÉENNE

EUROPÄISCHE NORM

June 2016

ICS 29.180

English Version

Medium power transformers 50 Hz, with highest voltage for equipment not exceeding 36 kV - Part 1: General requirements

Transformateurs 50 Hz de moyenne puissance, de tension la plus élevée pour le matériel ne dépassant pas 36 kV - Partie 1: Exigences générales

Mittelleistungstransformatoren 50 Hz, mit einer höchsten Spannung für Betriebsmittel nicht über 36 kV - Teil 1: Allgemeine Anforderungen

This amendment A1 modifies the European Standard EN 50588-1:2015; it was approved by CENELEC on 2016-05-23. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this amendment the status of a national standard without any alteration.

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Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 50588-1:2015/A1:2016) has been prepared by CLC/TC 14 "Power transformers".

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) 2017-05-23
- latest date by which the national standards conflicting with this document have to be withdrawn (dow) 2019-05-23

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For the relationship with Commission Regulation (EU) see informative Annex ZZ, which is an integral part of EN 50588-1:2015.

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Preview

1 Modification to Clause 1, Scope

After the last item of the bulleted list, “- large power transformers which are like for like replacements in the same physical location/installation for existing large power transformers, where this replacement cannot be achieved without entailing disproportionate costs associated to their transportation and/or installation”, add the following text:

“In case one of the last two exclusions is claimed, this should be documented at the signature of the contract with a declaration made by the customer.

NOTE 3 This standard covers the transformers under the Commission Regulation (EU) No. 548/2014 and gives additional specific guidance for single phase transformers, multi winding transformers and for transformers with OF or OD cooling systems, necessary for the correct application of energy efficiency requirements to these categories of transformers.”

2 Modifications to Clause 3, Terms and definitions

After term “3.6 declared value”, add the following new terms:

“3.7 excluded transformers

3.7.1

instrument transformer

transformer as defined in section 3.1.1 of EN 61869-1:2009, even if it supplies energy for the operation of connected equipment

Note 1 to entry: The difference between the definition in Regulation 548/2014 and the CENELEC one is in the use of the word ‘supply’ rather than ‘transmit an information signal’.

3.7.2

transformer with low-voltage windings specifically designed for use with rectifiers to provide a DC supply

transformer specifically designed and intended to supply power electronic or rectifier loads specified according to EN 61378-1

Note 1 to entry: This definition covers transformers designed for use with rectifiers to provide a DC supply in certain applications.

Note 2 to entry: The term “low-voltage winding” refers to the winding having the lowest rated voltage as per EN 60076-1, whatever its voltage level.

Note 3 to entry: This definition does not include:

- transformers which are intended to provide AC from DC sources such as transformers for wind turbine and photo voltaic applications;
- transformers designed for DC transmission and distribution applications.

Therefore, they are part of the scope of this standard and shall comply with Commission Regulation (EU) No. 548/2014.

3.7.3

transformers specifically designed for offshore applications and floating offshore applications

transformer to be installed on fixed or floating offshore platforms, offshore wind turbines or on board of ships and all kind of vessels

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