Power transformer and reactor fittings - Part 12: Fans

EESTI STANDARDIKESKUS
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NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 50216-12:2011 sisaldab Euroopa standardi EN 50216-12:2011 ingliskeelset teksti.	This Estonian standard EVS-EN 50216-12:2011 consists of the English text of the European standard EN 50216-12:2011.
Standard on kinnitatud Eesti Standardikeskuse 30.04.2011 käskkirjaga ja jõustub sellekohase teate avaldamisel EVS Teatajas.	This standard is ratified with the order of Estonian Centre for Standardisation dated 30.04.2011 and is endorsed with the notification published in the official bulletin of the Estonian national standardisation organisation.
Euroopa standardimisorganisatsioonide poolt rahvuslikele liikmetele Euroopa standardi teksti kättesaadavaks tegemise kuupäev on 01.04.2011.	Date of Availability of the European standard text 01.04.2011.
Standard on kättesaadav Eesti standardiorganisatsioonist.	The standard is available from Estonian standardisation organisation.

ICS 29.180

EUROPEAN STANDARD

NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 50216-12

April 2011

ICS 29.180

English version

Power transformer and reactor fittings - Part 12: Fans

Accessoires pour transformateurs de puissance et bobines d'inductance - Partie 12: Ventilateurs

Zubehör für Transformatoren und Drosselspulen - Teil 12: Ventilatoren

This European Standard was approved by CENELEC on 2011-03-21. 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 Central Secretariat 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 Central Secretariat has the same status as the official versions.

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CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

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Ref. No. EN 50216-12:2011 E

Foreword

This European Standard was prepared by the Technical Committee CENELEC TC 14, Power transformers.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50216-12 on 2011-03-21.

The following dates were fixed:

– latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement	(dop)	2012-03-21
– latest date by which the national standards conflicting with the EN have to be withdrawn	(dow)	2014-03-21

EN 50216-12 is to be read in conjunction with EN 50216-1, *Power transformer and reactor fittings – Part 1: General*.

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Figures

1 Scope

EN 50216-12 deals with fans for oil-to-air coolers used for transformers as well as fans used for blowing out radiators. Only fans operating axially are dealt with in this standard specification.

This standard specification defines the dimensions and requirements for ensuring fan interchangeability and uniform fan assembly.

2 Normative references

The following referenced documents are indispensable for the application 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 22768-1	General tolerances – Part 1: Tolerances for linear and angular dimensions without individual tolerance indications (ISO 2768-1)
EN 22768-2	General tolerances – Part 2: Geometrical tolerances for features without individual tolerance indications (ISO 2768-2)
EN 50216-1:2002	Power transformer and reactor fittings – Part 1: General
EN 50262	Cable glands for electrical installations
EN 60034-1	Rotating electrical machines – Part 1: Rating and performance (IEC 60034-1)
EN 60529	Degrees of protection provided by enclosures (IP Code) (IEC 60529)
EN 60721-3-4	Classification of environmental conditions – Part 3: Classification of groups of environmental parameters and their severities – Section 4: Stationary use at non–weather protected locations (IEC 60721-3-4)
EN ISO 3506-1	Mechanical properties of corrosion-resistant stainless steel fasteners – Part 1: Bolts, screws and studs (ISO 3506-1)
EN ISO 5801	Industrial fans – Performance testing using standardized airways (ISO 5801)
EN ISO 13857	Safety of machinery – Safety distances to prevent hazard zones being reached by upper and lower limbs (ISO 13857)
ISO 10816-1	Mechanical vibration – Evaluation of machine vibration by measurements on non-rotating parts – Part 1: General guidelines
ISO 13347-1	Industrial fans – Determination of fan sound power levels under standardized laboratory conditions – Part 1: General overview
ISO 13347-3	Industrial fans – Determination of fan sound power levels under standardized laboratory conditions – Part 3: Enveloping surface methods
ISO 14694	Industrial fans – Specifications for balance quality and vibration levels