
Transformers and inductors for use in telecommunication and electronic equipment - Main dimensions of coil formers - Part 1: Coil formers for laminated cores (IEC 61797-1196):

Transformers and inductors for use in telecommunication and electronic equipment - Main dimensions of coil formers -- Part 1: Coil formers for laminated cores

Transformatoren und Drosseln für nachrichtentechnische und elektronische Einrichtungen - Spulenkörperhauptmaße -- Teil 1: Spulenkörper für lamellierte Kerne
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Ta slovenski standard je istoveten z: EN 61797-1:1996

ICS:

29.180	Transformatorji. Dušilke	Transformers. Reactors
31.220.01	Elektromehanske komponente (sestavni deli, gradniki) na splošno	Electromechanical components in general

SIST EN 61797-1:2002**en**

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 61797-1

December 1996

ICS 29.180

Descriptors: Transformers and inductors, telecommunication and electronic equipment, coil formers for laminated cores, main dimensions, bracket mounting, printed board mounting, grid plans mounting, material of coil formers, solderability and mechanical strength of terminal pins

English version

**Transformers and inductors for use in telecommunication
and electronic equipment - Main dimensions of coil formers
Part 1: Coil formers for laminated cores
(IEC 1797-1:1996)**

Transformateurs et inductances
destinés aux équipements électroniques
et de télécommunication
Dimensions principales des carcasses
Partie 1: Carcasses pour noyaux
feuilletés
(CEI 1797-1:1996)

Transformatoren und Drosseln für
nachrichtentechnische und elektronische
Einrichtungen - Spulenkörperhauptmaße
Teil 1: Spulenkörper für lamellierte
Kerne
(IEC 1797-1:1996)

[SIST EN 61797-1:2002](https://standards.iteh.ai/catalog/standards/sist/678d2411-ac32-4b0e-87fc-2cb4993c6758/sist-en-61797-1-2002)

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CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 51/420/FDIS, future edition 1 of IEC 1797-1, prepared by IEC TC 51, Magnetic components and ferrite materials, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61797-1 on 1996-10-01.

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) 1997-07-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 1997-07-01

Annexes designated "normative" are part of the body of the standard.
In this standard, annex ZA is normative.
Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 1797-1:1996 was approved by CENELEC as a European Standard without any modification.

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Annex ZA (normative)**Normative references to international publications
with their corresponding European publications**

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE: When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 68-2-20 + A2	1979 1987	Basic environmental testing procedures Part 2: Tests - Test T: Soldering	HD 323.2.20 S3	1988
IEC 321 A1	1970 1975	Guidance for the design and use of components intended for mounting on boards with printed wiring and printed circuits	-	-
IEC 707 A1	1981 1992	Methods of test for the determination of the flammability of solid electrical insulating materials when exposed to an igniting source	HD 441 S1	1983
IEC 740 A1	1982 1991	Laminations for transformers and inductors for use in telecommunication and electronic equipment	-	-
IEC 852	series	Outline dimensions of transformers and inductors for use in telecommunication and electronic equipment	-	-
ISO 3	1973	Preferred numbers - Series of preferred numbers	-	-
ISO 286-1	1988	ISO system of limits and fits Part 1: Bases of tolerances, deviations and fits	-	-

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NORME
INTERNATIONALE
INTERNATIONAL
STANDARD

CEI
IEC
1797-1

Première édition
First edition
1996-10

**Transformateurs et inductances destinés
aux équipements électroniques et
de télécommunication –
Dimensions principales des carcasses –**

Partie 1:
Carcasses pour noyaux feuilletés
(standards.iteh.ai)

**Transformers and inductors for use in
telecommunication and electronic equipment –
Main dimensions of coil formers –**

Part 1:
Coil formers for laminated cores

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Commission Electrotechnique Internationale
International Electrotechnical Commission
Международная Электротехническая Комиссия

CODE PRIX
PRICE CODE

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**TRANSFORMERS AND INDUCTORS FOR USE IN
TELECOMMUNICATION AND ELECTRONIC EQUIPMENT –**
MAIN DIMENSIONS OF COIL FORMERS –
Part 1: Coil formers for laminated cores

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters express, as nearly as possible an international consensus of opinion on the relevant subjects since each technical committee has representation from all interested National Committees.
- 3) The documents produced have the form of recommendations for international use and are published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.
- 6) Attention is drawn to the possibility that some of the elements of this International Standard may be the subject of patent rights. The IEC shall not be held responsible for identifying any or all such patent rights.

International Standard IEC 1797-1 has been prepared by IEC technical committee 51: Magnetic components and ferrite materials.

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

FDIS	Report on voting
51/420/FDIS	51/442/RVD

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

**TRANSFORMERS AND INDUCTORS FOR USE
IN TELECOMMUNICATION AND ELECTRONIC EQUIPMENT –
MAIN DIMENSIONS OF COIL FORMERS –
Part 1: Coil formers for laminated cores**

1 Scope and object

This part of IEC 1797 specifies the main dimensions of coil formers for transformers and inductors, using a square stack of the laminations inserted in the coil formers. The main dimensions are those permitting interchangeability with respect to conformance with core sizes and outline dimensions of the completed components.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 1797. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 1797 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

IEC 68-2-20: 1979, *Basic environmental testing procedures – Part 2: Tests – Test T: Soldering*
Amendment 2 (1987)

IEC 321: 1970, *Guidance for the design and use of components intended for mounting on boards with printed wiring and printed circuits*
Amendment 1 (1975)

IEC 707: 1981, *Methods of test for the determination of the flammability of solid electrical insulating materials when exposed to an igniting source*
Amendment 1 (1992)

IEC 740: 1982, *Laminations for transformers and inductors for use in telecommunication and electronic equipment*
Amendment 1 (1991)

IEC 852: *Outline dimensions of transformers and inductors for use in telecommunication and electronic equipment*

ISO 3: 1973, *Preferred numbers – Series of preferred numbers*

ISO 286-1: 1988, *ISO system of limits and fits – Part 1: Bases of tolerances, deviations and fits*

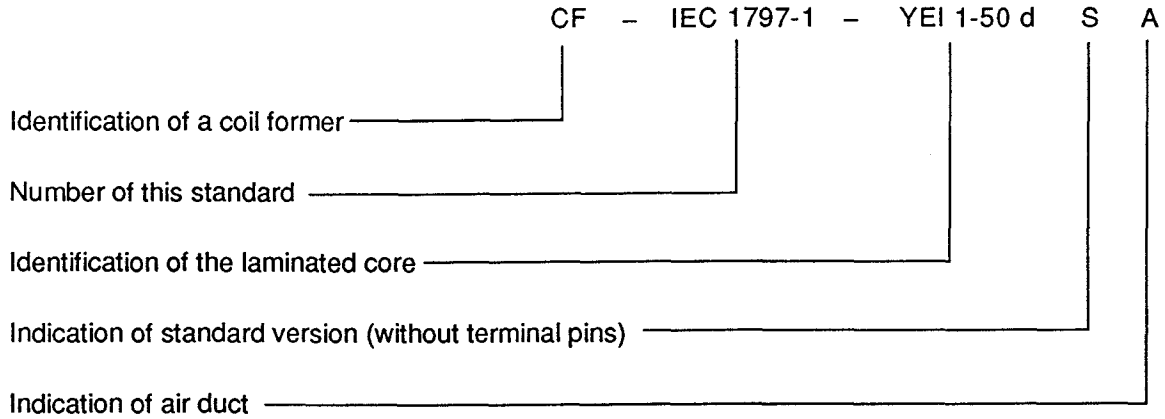
3 Laminations

For the purpose of this specification, the laminations shall conform with the dimensions of IEC types YE1 1, YEx 2, YUI 1, YUI 2 and YM 1, as prescribed in the tables of IEC 740. YEx stands for the types YEE, YEF, YEI, YEL and YES.

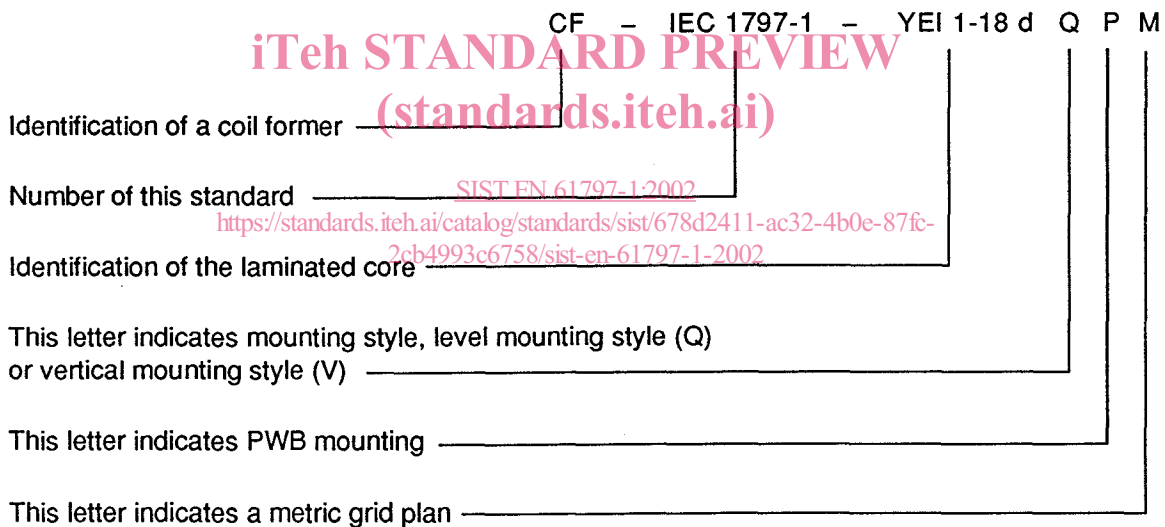
4 Coil former designation

Coil formers shall be designated as follows:

4.1 Standard version (without terminal pins)



4.2 Printed wiring board mounting version (with terminal pins)



5 Dimensions

5.1 General

Typical drawings and dimensions of coil formers are listed in this standard. The coil former design may not correspond to the graphic representation shown in the figures, but the principal dimensions which have tolerances shall be followed and other details such as intermediate flanges, etc. may be arranged between the manufacturer and the user.

All the listed dimensions in this standard are in millimetres.