IEC 61007

Edition 3.0 2020-07

INTERNATIONAL STANDARD

NORME INTERNATIONALE

Transformers and inductors for use in electronic and telecommunication equipment – Measuring methods and test procedures

Transformateurs et inductances utilisés dans les équipements électroniques et de télécommunications – Méthodes de mesure et procédures d'essais

IEC 61007:2020-07(en-fr)

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INTERNATIONAL
ELECTROTECHNICAL
COMMISSION

COMMISSION
ELECTROTECHNIQUE
INTERNATIONALE

ICS 29.100.10; 29.180

ISBN 978-2-8322-8620-3

CONTENTS

INTERNATIONAL ELECTROTECHNICAL COMMISSION

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TRANSFORMERS AND INDUCTORS FOR USE IN ELECTRONIC AND TELECOMMUNICATION EQUIPMENT – MEASURING METHODS AND TEST PROCEDURES

FOREWORD

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International Standard IEC 61007 has been prepared by IEC technical committee 51: Magnetic components, ferrite and magnetic powder materials.

This third edition cancels and replaces the second edition published in 1994. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) scope: the application of the scope of IEC 61007 was extended;
b) Clause 2: added new references and updated the references;
c) Clause 3: new definitions were added in 3.3, and in 3.7 the voltage-time product was redefined;

d) test procedures were updated:

   1) addition of test method:

      AC resistance (in 4.4.1.2); short-circuit power test (in 4.4.3.4); efficiency (in 4.4.3.5); phase unbalance (in 4.4.5.7); amplitude unbalance (radio frequency) (in 4.4.5.8); transformation ratio by impedance (in 4.4.7.1); coefficient of coupling (in 4.4.7.2); cross-talk (in 4.4.10);

   2) modification of test method:

      Insulation resistance (an error range of the testing voltage, in 4.4.2.3);

   3) deletion of test method:

      Effective resistance;

e) environmental test procedures: new references were added;

f) Annexes A to G were added.

The text of this International Standard is based on the following documents:

CDV	Report on voting
51/1319/CDV	51/1339/RVC

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

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://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.