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INTERNATIONAL STANDARD

Calculation of the effective parameters of magnetic piece parts

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

Calculation of the effective parameters of magnetic piece parts

FOREWORD

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IEC 60205 has been prepared by IEC technical committee 51: Magnetic components, ferrite and magnetic powder materials. It is an International Standard.

This fifth edition cancels and replaces the fourth edition published in 2016. This edition constitutes a technical revision.

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

- a) addition, in 5.2, of the drawing and the formulae of pair of URS-cores of rectangular-circular section;
- b) using, in 5.9, 5.10, 5.11 and 5.13, the conventional calculation formula that includes " B_1-D " is limited for the x-x cores (x is EL, ER, PQ or E) and addition new formulae for x-PLT cores that replaces " B_1-D " with " $(B_1-D+B_2)/2$ ";

- c) addition, in 5.9, 5.10, 5.11 and 5.13, of formulae of l_1 and l_3 for x-PLT cores (x is EL, ER, PQ or E) which is different from the l_1 and l_3 of x-x cores;
- d) addition of formula A_{\min} in each subclause from 5.2.1 to 5.14.

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

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

The language used for the development of this International Standard is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn, or
- revised.

1 Scope

This document specifies uniform rules for the calculation of the effective parameters of closed circuits of ferromagnetic material.

2 Normative references

There are no normative references in this document.