

# INTERNATIONAL STANDARD

# IEC 60205

Third edition  
2006-04

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## Calculation of the effective parameters of magnetic piece parts

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## INTERNATIONAL ELECTROTECHNICAL COMMISSION

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**CALCULATION OF THE EFFECTIVE PARAMETERS  
OF MAGNETIC PIECE PARTS**
**FOREWORD**

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International Standard IEC 60205 has been prepared by IEC technical committee 51: Magnetic components and ferrite materials.

This third edition cancels and replaces the second edition published in 2001, corrigendum 1 (2001). This edition constitutes a technical revision.

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

- a) unit of angles through the text are described by using "radian";
- b) new words are added in 2.1 "All angles are in radians";
- c) replacement, Clause 3.9, of the equation  $\frac{l_2}{A_2} = \frac{\ln d_2 g / d_3}{D\pi(h_1 - h_2)}$  by  $\frac{l_2}{A_2} = \frac{\ln d_2 g / d_3}{D\pi(h_1 - h_2)/2}$ ;
- d) new cores "EL, ER, PQ, EFD and E planar" are added in this edition.

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

FDIS	Report on voting
51/848/FDIS	51/857/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.

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

The committee has decided that the contents of this publication will remain unchanged until the maintenance result date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

A bilingual version of this publication may be issued at a later date.

## **CALCULATION OF THE EFFECTIVE PARAMETERS OF MAGNETIC PIECE PARTS**

### **1 Scope**

This International Standard lays down uniform rules for the calculation of the effective parameters of closed circuits of ferromagnetic material.