IEC 61558-1

Edition 3.0 2017-09

# INTERNATIONAL STANDARD

# NORME INTERNATIONALE

GROUP SAFETY PUBLICATION
PUBLICATION GROUPÉE DE SÉCURITÉ

## Safety of transformers, reactors, power supply units and combinations thereof – Part 1: General requirements and tests

## Sécurité des transformateurs, bobines d'inductance, blocs d'alimentation et des combinaisons de ces éléments – Partie 1: Exigences générales et essais



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# SAFETY OF TRANSFORMERS, REACTORS, POWER SUPPLY UNITS AND COMBINATIONS THEREOF –

## Part 1: General requirements and tests

## FOREWORD

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International Standard IEC 61558-1 has been prepared by IEC technical committee 96: Transformers, reactors, power supply units and combinations thereof.

This third edition cancels and replaces the second edition published in 2005 and Amendment 1:2009. This edition constitutes a technical revision.

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

a) fully insulated winding wires (FIW), new tables and aging tests for FIW constructions,
b) overvoltage categories 1, 2, 3 and 4 for clearances and dielectric strength tests (new tables) are included,
c) development of new symbols for the different overvoltage categories,
d) symbol for maximum altitudes, if higher than 2 000 m,
e) symbol for plug in power supply units, if the pins are damaged (tumbling barrel test),