

AS 2374.1—1997

Australian Standard[®]

Power transformers

Part 1: General

[Based on and including the full text of IEC 76-1:1993]

This Australian Standard was prepared by Committee EL/8, Power Transformers. It was approved on behalf of the Council of Standards Australia on 14 July 1997 and published on 5 September 1997.

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Australasian Railway Association
Australian Chamber of Commerce and Industry
Australian Electrical and Electronic Manufacturers Association
Australian Institute of Petroleum
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Electricity Supply Engineers Association of New South Wales
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This Standard was issued in draft form for comment as DR 95423.

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Part 1: General

Originated as part of AS C61—1931.
Previous editions AS 2374.1—1982 and AS 2374.4—1982
AS 2374.1—1982 and AS 2374.4—1982 revised,
amalgamated and designated AS 2374.1—1997.

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7337 1394 7

PREFACE

This Standard was prepared by the Standards Australia Committee EL/8, Power Transformers to supersede AS 2374.1—1982, *Power transformers, Part 1: General requirements* and AS 2374.4—1982, *Power transformers, Part 4: Tappings and connections*.

It is based on but not equivalent to, and has been reproduced from, IEC 76-1:1993, *Power transformers, Part 1: General*, with the exception that Appendices ZZ, ZA, ZB and ZC have been added.

Appendix ZZ lists the Australian variations to IEC 76-1. The changes are indicated with marginal bars against the relevant clause, note, table, figure or part thereof. Note that reference to Appendix ZZ is critical in cases where additional text or clauses have been introduced.

This Standard is Part 1 of a series, comprising:

AS

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2374.1	Part 1: General
2374.2	Part 2: Temperature rise
2374.3.0	Part 3.0: Insulation levels and dielectric tests—General requirements
2374.3.1	Part 3.1: Insulation levels and dielectric tests—External clearances in air
2374.5	Part 5: Ability to withstand short-circuit
2374.6	Part 6: Determination of transformer and reactor sound levels

Significant differences between this Standard and the previous edition include the following:

- This Standard requires tests to be carried out on the maximum current tap. The previous edition required tests to be carried out on the maximum loss tap. It is noted that in some cases, including autotransformers, the two are not the same.
- Tolerances, as set out in Table 1 of this Standard, differ significantly from those allowed by the previous edition.

The terms ‘normative’ and ‘informative’ have been used in this Standard to define the application of the appendix to which they apply. A ‘normative’ appendix is an integral part of a Standard, whereas an ‘informative’ appendix is only for information and guidance.

As this Standard is reproduced from an international Standard, the following applies:

- Its number does not appear on each page of text and its identity is shown only on the cover and title pages.
- In the source text, ‘this International Standard’ should read ‘this Australian Standard’.
- A full point substitutes for a comma when referring to a decimal marker.

References to international Standards should be replaced by references to the following Australian or Australian/New Zealand Standards:

<i>Reference to International Standards or other publication</i>	<i>Australian/New Zealand Standard</i>
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