AS 3953—1991 IEC 905: 1987

Australian Standard®

Loading guide for dry-type power transformers

[Title allocated by Defence Cataloguing Authority: Loading guide for dry-type power transformers (NSC not available)]



STANDARDS AUSTRALIA

This Australian Standard was prepared by Committee EL/8, Power Transformers. It was approved on behalf of the Council of Standards Australia on 2 May 1991 and published on 10 June 1991.

The following interests are represented on Committee EL/8:

Australian Electrical and Electronic Manufacturers Association

Confederation of Australian Industry

Electrical testing laboratories

Electricity Supply Association of Australia

Electricity Supply Engineers Association of New South Wales

Institute of Technology, S.A.

Institution of Engineers, Australia

Railways of Australia Committee

Review of Australian Standards. To keep abreast of progress in industry, Australian Standards are subject to periodic review and are kept up-to-date by the issue of amendments or new editions as necessary. It is important therefore that Standards users ensure that they are in possession of the latest edition, and any amendments thereto.

any amendments thereto. Full details of all Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian Standard should be made without delay in order that the matter may be investigated and appropriate action taken.

This Standard was issued in draft form for comment as DR 90106.

Australian Standard®

Loading guide for dry-type power transformers

[Title allocated by Defence Cataloguing Authority: Loading guide for dry-type power transformers (NSC not available)]

First published as AS 3953-1991.

PUBLISHED BY STANDARDS AUSTRALIA (STANDARDS ASSOCIATION OF AUSTRALIA) STANDARDS HOUSE, 80 ARTHUR ST, NORTH SYDNEY NSW----

ISBN 0 7262 6943 3

PREFACE

This Standard was prepared by the Standards Australia Committee on Power Transformers. It is identical with and has been reproduced from IEC 905: 1987, Loading guide for dry-type power transformers. Modifications to the Standard required to suit Australian conditions are indicated by a rule in the margin, and detailed in Australian Appendix A.

The purpose of this Standard is to give guidance to assist users to calculate the permissible loading, and to choose the rated power of dry-type transformers complying with AS 2735, Dry-type power transformers.

Under arrangements made between Standards Australia and the international Standards bodies, ISO and IEC, as well as certain other Standards organizations, users of this Australian Standard are advised of the following:

- (a) Copyright is vested in Standards Australia.
- (b) The number of this Standard is not reproduced on each page; its identity is shown only on the cover and title pages.
- (c) There may be occasional dual language sections, but English is always one of the languages reproduced.
- (d) Where any cross-references to page numbers appear within the text, these relate to page numbering in the International Standard and are to be disregarded.
- For the purposes of this Australian Standard, the IEC text should be modified as follows:
- (i) Clauses In accordance with Australian Appendix A.
- (ii) Decimal marker Substitute a full point for a comma as a decimal marker.
- (iii) References Replace references to International Standards by references to Australian Standards as follows:

Reference to International Standard

IEC

- 76 **Power transformers**
- 76-1 Part 1: General
- 726 Dry-type power transformers
- Australian Standard
- AS 2374 Power transformers
- 2374.1
 - Part 1: General requirements
- 2735 Dry-type power transformers

© Copyright - STANDARDS AUSTRALIA

Users of Standards are reminded that copyright subsists in all Standards Australia publications and software. Except where the Copyright Act allows and except where provided for below no publications or software produced by Standards Australia may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing from Standards Australia. Permission may be conditional on an appropriate royalty payment. Requests for permission and information on commercial software royalties should be directed to the head office of Standards Australia.

Standards Australia will permit up to 10 percent of the technical content pages of a Standard to be copied for use exclusively in-house by purchasers of the Standard without payment of a royalty or advice to Standards Australia.

Standards Australia will also permit the inclusion of its copyright material in computer software programs for no royalty payment provided such programs are used exclusively in-house by the creators of the programs.

Care should be taken to ensure that material used is from the current edition of the Standard and that it is updated whenever the Standard is amended or revised. The number and date of the Standard should therefore be clearly identified.

The use of material in print form or in computer software programs to be used commercially, with or without payment, or in commercial contracts is subject to the payment of a royalty. This policy may be varied by Standards Australia at any time.

3

CONTENTS

Page

1.	Ścope	4
	Object	
3.	Symbols	5

PART 1

4.	Basis of guide	6
	Algorithm for basic 'use of life' calculations	
6.	Limitations	15 ·

PART 2

7.	Basis of establishing load curves	15
	Selection of appropriate load curve with examples	

Australian Appendix A

.



This is a free preview. Purchase the entire publication at the link below:

Product Page

S Looking for additional Standards? Visit Intertek Inform Infostore

> Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation