AS/NZS 1102.103:1997

Australian/New Zealand Standard®

Graphical symbols for electrotechnical documentation

Part 103: Conductors and connecting devices

[Based on and including the full text of IEC 617-3:1996, Graphical symbols for diagrams, Part 3: Conductors and connecting devices]

This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee TE/13, Symbols, Units and Quantities for Electrotechnology. It was approved on behalf of the Council of Standards Australia on 19 September 1997 and on behalf of the Council of Standards New Zealand on 19 September 1997. It was published on 5 December 1997.

The following interests are represented on Committee TE/13:

AirServices Australia
The Association of Consulting Engineers, Australia
Australian Chamber of Commerce & Industry
Department of Employment & Technical & Further Education, S.A.
Department of Defence, Australia
Institution of Engineers, Australia
Institution of Radio & Electronics Engineers, Australia
Ministry of Commerce, New Zealand
Queensland Mining Council
Royal Melbourne Institute of Technology

Review of Standards. To keep abreast of progress in industry, Joint Australian/New Zealand 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.

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which subscribing members receive, and which give details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Joint Standards, addressed to the head office of either Standards Australia or Standards New Zealand, are welcomed. Notification of any inaccuracy or ambiguity found in a Joint Australian/New Zealand 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 97172.

Australian/New Zealand Standard®

Graphical symbols for electrotechnical documentation

Part 103: Conductors and connecting devices

Originated in Australia in part as part of AS 1102.5—1972.
Final Australian edition AS 1102.103— 1989.
Jointly revised and designated AS/NZS 1102.103:1997.

PUBLISHED JOINTLY BY:

STANDARDS AUSTRALIA
1 The Crescent,
Homebush NSW 2140 Australia

STANDARDS NEW ZEALAND
Level 10, Radio New Zealand House,
155 The Terrace,
Wellington 6001 New Zealand

ISBN 0 7337 1502 8

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TE/13, Symbols, Units and Quantities for Electrotechnology. It is issued as a Joint Standard to supersede AS 1102.103—1989. It is based on but not equivalent to, and reproduced from, IEC 617-3, *Graphical symbols for diagrams*, Part 3: *Conductors and connecting devices*.

The objective of this Standard is to provide users of electrotechnical documents with graphical symbols for conductors and connecting devices for the purposes of uniformity and clarity in presenting electrotechnical diagrams.

The Part numbers in this series of Standards correspond to equivalent Parts in the IEC 617 series but with '100' added to the IEC 617 Part number. For example, for the Standard IEC 617-2 refer to AS/NZS 1102.102. The symbol numbers within this Standard are the same as the IEC 617 numbers. In AS/NZS 1102.101, *Graphical symbols for electrotechnical documentation*, Part 101: *General information and general index,* the first part of the symbol number refers to the Part number, e.g. in the index, for symbol 102-01-01, refer to Part 102, symbol 02-01-01.

In this Standard, Australian and New Zealand variations have been listed in Appendix ZA and accordingly, the source text should be amended, supplemented or replaced as required. The changes to the source text are indicated with a marginal bar against each clause, table, figure or part thereof affected. Appendix ZA provides symbols for use in Australia and New Zealand which are additional to, or alternative to, the IEC 617 symbols. The symbols are identified with an 'A' in the third part of the symbol number.

The term 'normative' has been used in this Standard to define the application of the appendix to which it applies. A 'normative' appendix is an integral part of a Standard.

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

(a) Its number appears on the cover and title page while the international Standard number appears only on the cover.

(b) In the source text, 'this International Standard' should read 'this Australian/New Zealand Standard'.

(c) A full point substitutes for a comma when referring to a decimal marker.

References to international Standards should be replaced by equivalent Australian or Australian/ New Zealand Standards as follows:

Reference to International Standard		*Australian or Australian/New Zealand Standard*	
IEC		AS	
617	Graphical symbols for diagrams	1102	Graphical symbols for electrotechnical documentation
617-1	Part 1: General information, general index. Cross-reference tables	1102.101	Part 101: General information and general index

Please note that on the CD-ROM, only the English definitions are available. For the full version incorporating French terms, please refer to the hard copy.

CONTENTS