Australian/New Zealand Standard™

Low-voltage switchgear and controlgear Part 2: Circuit-breakers





AS/NZS 3947.2:2002
This Joint Australian/New Zealand Standard was prepared by Joint Technical Committee EL-006, Industrial Switchgear and Controlgear. It was approved on behalf of the Council of Standards Australia on 24 September 2002 and on behalf of the Council of Standards New Zealand on 17 September 2002. It was published on 7 November 2002.

The following are represented on Committee EL-006:

Australasian Railway Association Australian Chamber of Commerce and Industry Australian Electrical and Electronic Manufacturers Association Bureau of Steel Manufacturers of Australia Electrical Contractors Association of New Zealand Electricity Supply Association of Australia Independent Electrical Switchboard Manufacturers Association Institution of Engineers Australia Ministry of Economic Development New Zealand National Electrical and Communications Association Testing Interests (Australia) WorkCover New South Wales

Keeping Standards up-to-date

Standards are living documents which reflect progress in science, technology and systems. To maintain their currency, all Standards are periodically reviewed, and new editions are published. Between editions, amendments may be issued. Standards may also be withdrawn. It is important that readers assure themselves they are using a current Standard, which should include any amendments which may have been published since the Standard was purchased.

Detailed information about joint Australian/New Zealand Standards can be found by visiting the Standards Australia web site at www.standards.com.au or Standards New Zealand web site at www.standards.co.nz and looking up the relevant Standard in the on-line catalogue.

Alternatively, both organizations publish an annual printed Catalogue with full details of all current Standards. For more frequent listings or notification of revisions, amendments and withdrawals, Standards Australia and Standards New Zealand offer a number of update options. For information about these services, users should contact their respective national Standards organization.

We also welcome suggestions for improvement in our Standards, and especially encourage readers to notify us immediately of any apparent inaccuracies or ambiguities. Please address your comments to the Chief Executive of either Standards Australia International or Standards New Zealand at the address shown on the back cover.

AS/NZS 3947.2:2002

Australian/New Zealand Standard™

Low-voltage switchgear and controlgear Part 2: Circuit-breakers

Originated as AS 3858—1990. Previous edition AS 3947.2—1997. Jointly revised and designated as AS/NZS 3947.2:2002.

COPYRIGHT

© Standards Australia/Standards New Zealand

All rights are reserved. No part of this work may be reproduced or copied in any form or by any means, electronic or mechanical, including photocopying, without the written permission of the publisher.

Jointly published by Standards Australia International Ltd, GPO Box 5420, Sydney, NSW 2001 and Standards New Zealand, Private Bag 2439, Wellington 6020

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-006, Industrial Switchgear and Controlgear to supersede AS 3947.2—1997 and its Amendment 1:2001.

The objective of this Standard, in addition to that stated in Clause 1, is to bring Australian and New Zealand requirements into line with Consolidated edition 2.2 (2001-10) of IEC 60947-2.

This Standard is Part 2 of a series which, when complete, will consist of the following:

Tills Stalldard 15 1 a	it 2 of a seri	es which, when complete, will consist of the following.		
AS(/NZS) 3947	Low-voltage switchgear and controlgear			
AS/NZS 3947.1	Part 1:	General rules		
AS/NZS 3947.2	Part 2:	Circuit-breakers (This Standard)		
AS/NZS 3947.3	Part 3:	Switches, disconnectors, switch-disconnectors and fuse-combination units		
AS/NZS 3947.3 Supp 1	Part 3:	Switches, disconnectors, switch-disconnectors and fuse-combination units, Supplement 1: Fuse-switch-disconnectors and switch-disconnectors for use with low-voltage aerial bundled cables		
AS/NZS 3947.4.1	Part 4.1:	Contactors and motor-starters—Electromechanical contactors and motor-starters		
AS/NZS 3947.4.2	Part 4.2:	Contactors and motor-starters—A.C. semiconductor motor controllers and starters		
AS/NZS 3947.4.3	Part 4.3:	Contactors and motor-starters—A.C. semiconductor controllers and contactors for non-motor loads		
AS/NZS 3947.5.1	Part 5.1:	Control circuit devices and switching elements—Electromechanical control circuit devices		
AS/NZS 3947.5.2	Part 5.2:	Control circuit devices and switching elements—Proximity switches		
AS/NZS 3947.5.3	Part 5.3:	Control circuit devices and switching elements—Requirements for proximity devices with defined behaviour under fault conditions		
AS/NZS 3947.5.4	Part 5.4:	Control circuit devices and switching elements—Methods of assessing the performance of low-energy contacts—Special tests		
AS/NZS 3947.5.5	Part 5.5:	Control circuit devices and switching elements—Electrical emergency stop devices with mechanical latching function		
AS/NZS 3947.5.6	Part 5.6:	Control circuit devices and switching elements—D.C. interface for proximity sensors and switching amplifiers (NAMUR)		
AS/NZS 3947.6.1	Part 6.1:	Multiple function equipment—Automatic transfer switching equipment		
AS/NZS 3947.6.2	Part 6.2:	Multiple function equipment—Control and protective switching devices (or equipment) (CPS)		
AS/NZS 3947.7.1	Part 7.1:	Ancillary equipment—Terminal blocks for copper conductors		
AS 3947.7.2	Part 7.2:	Ancillary equipment—Protective conductor terminal blocks for copper conductors		
AS/NZS 3947.7.3	Part 7.3:	Ancillary equipment—Safety requirements for terminal blocks for the reception of cartridge fuse-links		

This Standard is identical with and has been reproduced from IEC 60947-2:2001, *Low-voltage switchgear and controlgear*—Part 2: *Circuit-breakers* which incorporates IEC 60947-2:1995 and its Amendment 1:1997 and Amendment 2:2001.

AS 2184—1985 Low-voltage switchgear and controlgear—Moulded-case circuit-breakers for rated voltages up to and including 600 V a.c. and 250 V d.c. will be replaced by this Standard on 5 June 2007 to allow manufacturers to adapt their range of circuit-breakers to comply with this Standard.

The provisions of AS/NZS 3947.1, *General rules* are applicable to this Standard where specifically called for. Clauses and Subclauses thus applicable, as well as tables, figures, and annexes are identified by reference to IEC 60947-1, for example Subclause 1.2.3 of IEC 60947-1, table 4 of IEC 60947-1 or annex A of IEC 60947-1. IEC 60947-1 is also referred to as Part 1.

This Standard differs from AS 3947.2-1997 in the following areas:

- (a) The Standard has been redesignated as a joint Australian/New Zealand Standard.
- (b) References listed in Clause 1.2 *Normative references* have been updated.
- (c) Clause 5.2 Marking has been updated.
- (d) Clause 7.1 Constructional requirements has been revised.
- (e) Clause 7.1.6 Additional requirements for circuit-breakers provided with a neutral pole has been added.
- (f) Tests of Clauses 8.3.3, 8.3.4, 8.3.5 and 8.3.6 have been added.
- (g) Annex B Circuit-breakers incorporating residual current protection has been updated.
- (h) Annex F Additional test for circuit-breakers with electronic over-current protection has been rewritten.
- (i) In Annex J Electromagnetic compatibility (EMC)—Requirements and tests for circuit-breakers, Table J1 has been revised.
- (j) Annex L Circuit-breakers not fulfilling requirements for overcurrent protection has been added.

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

- (a) Its number does not appear on each page of text and its identity is shown only on the cover and title page.
- (b) In the source text 'this standard' should read 'this Australia/New Zealand Standard'.
- (c) A full point should be substituted for a comma when referring to a decimal marker.

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



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

Product Page

- Dooking for additional Standards? Visit Intertek Inform Infostore
- Dearn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation