AS/NZS 3947.1:2001 IEC 60947-1:1999 IEC 60947-1:1999/Amd1:2001

Australian/New Zealand Standard[™]

Low-voltage switchgear and controlgear

Part 1: General rules





AS/NZS 3947.1:2001

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 18 June 2001 and on behalf of the Council of Standards New Zealand on 1 August 2001. It was published on 25 September 2001.

The following interests are represented on Committee EL-006:

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Part 1: General rules

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ii

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-006, Industrial Switchgear and Controlgear to supersede AS/NZS 3947.1:1998.

The objective of this Standard is to state those general rules and requirements which are common to low-voltage equipment.

This Standard is Part 1 of a series which, when complete, will consist of the following:

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AS(/NZS) 3947		ge switchgear and controlgear
AS/NZS 3947.1	Part 1:	General rules (this Standard)
AS 3947.2	Part 2:	Circuit-breakers
AS/NZS 3947.3	Part 3:	Switches, disconnectors, switch-disconnectors and fuse- combination units
AS/NZS 3947.3 Supp1	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—Electro- mechanical 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 60947-1 consolidated Edition 5.1:2001 which incorporates Amendment 1:2000 into IEC 60947-1:1999, *Low-voltage switchgear and controlgear*—*Part 1: General rules*.

iii

This Standard applies, when required by the relevant product standard, to switchgear and controlgear intended to be connected to circuits, the rated voltage of which does not exceed 1000 V a.c. or 1500 V d.c.

This Standard differs from AS/NZS 3947.1:1998 in the following areas:

- (a) Requirements for equipment suitable for isolation.
- (b) Requirements for equipment with protective separation.
- (c) Dependent and independent power operation.
- (d) Environmental aspects.

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