Australian/New Zealand Standard™

Low-voltage switchgear and controlgear

Part 4.1: Contactors and motorstarters—Electromechanical contactors and motor-starters





AS/NZS 3947.4.1:2001

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PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee EL-006, Industrial Switchgear and Controlgear to supersede AS 3947.4.1—1995.

The objective of this Standard, in addition to that stated in Clause 1, is to bring Australian and New Zealand requirements into line with IEC 60947-4-1:2000.

This Standard is Part 4.1 of a series 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 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 (this Standard)		
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 in technical content with and has been reproduced from IEC 60947-4-1:2000, Low-voltage switchgear and controlgear—Part 4.1: Contactors and motor-starters—Electromechanical contactors and motor-starters.

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 3947.4.1—1995 in the following areas:

- (a) All Australian variations have been removed.
- (b) Requirements and tests for electromagnetic compatibility have been added.
- (c) Special tests in Appendix B for discrimination between overload relays and SCPDs have been redefined as 'Co-ordination at the crossover current between the starter and associated SCPD' and an indirect method of verification has been added.

A reference to an International Standard identified in the Normative References Clause by strikethrough (example) is replaced by a reference to the Australian or Australian/New Zealand Standard(s) listed immediately thereafter and identified by shading (example). Where the struck-through referenced document and the referenced Australian or Australian/New Zealand Standard are identical, this is indicated in parenthesis after the title of the latter.

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

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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.



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