

AS 3947.5.1—1995  
IEC 947-5-1:1990

Australian Standard<sup>®</sup>

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**Low-voltage switchgear and  
controlgear**

**Part 5.1: Control circuit devices  
and switching elements—  
Electromechanical control circuit  
devices**

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This Australian Standard was prepared by Committee EL/6, Industrial Switchgear and Controlgear. It was approved on behalf of the Council of Standards Australia on 7 February 1995 and published on 5 June 1995.

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The following interests are represented on Committee EL/6:

Australian-British Chamber of Commerce  
Australian Electrical and Electronic Manufacturers Association  
Bureau of Steel Manufacturers of Australia  
Electrical Contractors Association of Australia  
Electricity Supply Association of Australia  
Independent Electrical Switchboard Manufacturers Association (Australia)  
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*This Standard was issued in draft form for comment as DR 94307.*

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## PREFACE

This Standard was prepared by the Standards Australia/ Standards New Zealand Committee EL/6 on Industrial Switchgear and Controlgear to supersede AS 1431, *Low voltage switchgear and controlgear — Control circuit devices and switching elements*; AS 1431.1—1989, *General requirements*; AS 1431.2—1989, *Additional requirements for push-buttons and indicator lights*; and AS 1431.7—1989, *Additional requirements for control switches with positive-opening operation*.

This Standard is the result of a consensus among representatives on the Joint Committee to produce it as an Australian Standard.

This Standard is Part 5 of a series which when complete will consist of the following:

AS

3947	Low-voltage switchgear and controlgear
	Part 1: General rules
	Part 2: Circuit breakers
	Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units
	Part 4: Contactors and motor starters
	Part 5: Control circuit devices and switching elements
	Part 6: Multiple function equipment
	Part 7: Ancillary equipment

With the exception of Appendix AA, this Standard is equivalent in technical content but does not fully correspond in presentation to IEC 947-5-1 (1990), *Low-voltage switchgear and controlgear, Part 5: Control circuit devices and switching elements. Section One — Electromechanical control circuit devices*, including the Corrigendum and Amendment 1.

Appendix AA lists the variations between this Standard and IEC 947-5-1. For the purposes of this Standard, the IEC text is amended, supplemented or replaced as set out in Appendix AA. These changes are indicated by a rule in the margin against each clause, table, figure or part thereof affected.

The changes required by the Corrigendum and Amendment 1 are indicated in the IEC text by a double marginal bar against the clause, table, figure or part thereof affected.

The objective of this Standard, in addition to that stated in Clause 1.2, is to bring the superseded Standard into agreement with IEC 947-5-1 and to renumber it as part of a series of Standards for low-voltage switchgear and controlgear.

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

- (a) Its number is shown only on the cover and title page.
- (b) In the source text, 'this International Standard' should read 'this Australian Standard'.
- (c) A full point substitutes 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 appendix to which they apply. A 'normative' appendix is an integral part of a Standard, whereas an 'informative' appendix is only for information and guidance.

References to International Standards should be replaced by equivalent Australian Standards, as follows:

<i>Reference to International Standard</i>		<i>Australian Standard</i>	
IEC		AS	
50	International Electrotechnical Vocabulary (IEV)	1852	International Electrotechnical Vocabulary
50 (441)	Chapter 441: Switchgear, controlgear and fuses	1852.441	Part 441: Switchgear, controlgear and fuses
50 (446)	Chapter 446: Electrical relays	1852.446	Part 446: Electrical relays
68	Environmental testing	1099	Basic environmental testing procedures for electrotechnology
68-2-14	Part 2: Tests. Test N: Change of temperature	1099.2N	Test N — Change of temperature — Guidance on change of temperature tests
68-2-30	Part 2: Tests. Test Db and guidance: Damp heat, cyclic (12 + 12 hour cycle)	1099.2Db	Test Db — Damp heat, cyclic (12 + 12 hours)
73	Colours of indicator lights and push-buttons	—	
112	Method for determining the comparative and the proof tracking indices of solid insulating materials under moist conditions	—	
255	Electrical relays	2481	All-or-nothing electrical relays (instantaneous and timing relays)
536	Classification of electrical and electronic equipment with regard to protection against electric shock	—	
617	Graphical symbols for diagrams	1102	Graphical symbols for electrotechnology
947	Low-voltage switchgear and controlgear	3947	Low-voltage switchgear and controlgear
947-1	Part 1: General rules	3947.1	Part 1: General rules
947-4-1	Part 4: Contactors and motor-starters Section One: Electromechanical contactors and motor-starters	3947.4.1	Part 4.1: Contactors and motor starters — Electromechanical contactors and motor starters

Referenced documents listed in Appendices AA and CC:

AS	
1104S	Informative symbols for use on electrical and electronic equipment — Individual symbol sheets
1939	Degrees of protection provided by enclosures for electrical equipment (IP Code)
IEC	
73	Coding of indicating devices and actuators by colours and supplementary means
ISO	
R 369	Symbols for indications appearing on machine tools

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