

AS 3947.5.1—1995
IEC 947-5-1:1990

Australian Standard[®]

**Low-voltage switchgear and
controlgear**

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

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.

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)
Institution of Engineers, Australia
Ministry of Commerce, NZ
Railways of Australia Committee
Sydney Water
WorkCover Authority of New South Wales

Review of Australian Standards. To keep abreast of progress in industry, Australian 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 Australian Standards and related publications will be found in the Standards Australia Catalogue of Publications; this information is supplemented each month by the magazine 'The Australian Standard', which subscribing members receive, and which gives details of new publications, new editions and amendments, and of withdrawn Standards.

Suggestions for improvements to Australian Standards, addressed to the head office of Standards Australia, are welcomed. Notification of any inaccuracy or ambiguity found in an Australian 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 94307.

AS 3947.5.1—1995

Australian Standard[®]

**Low-voltage switchgear and
controlgear**

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

PUBLISHED BY STANDARDS AUSTRALIA
(STANDARDS ASSOCIATION OF AUSTRALIA)
1 THE CRESCENT, HOMEBUSH, NSW 2140

ISBN 0 7262 9699 6

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

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

[Product Page](#)

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