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AS 60947.3:2018

Australian STANDARD

Low voltage switchgear and controlgear

Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units (IEC 60947-3:2015 (ED. 3.2) MOD)

STANDARDS Australia

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The following are represented on Committee EL-006:

- Association of Accredited Certification Bodies
- Australian Industry Group
- Bureau of Steel Manufacturers of Australia
- Energy Network Australia
- Engineers Australia
- National Electrical and Communications Association
- National Electrical Switchboard Manufacturers Association
- Rail Industry Safety and Standards Board (RISSB)

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PREFACE

This Standard was prepared by the Australian members of Joint Standards Australia/Standards New Zealand Committee EL-006, Industrial Switchgear and Controlgear, to supersede AS/NZS IEC 60947.3:2015.

After consultation with stakeholders in both countries, Standards Australia and Standards New Zealand decided to develop this Standard as an Australian Standard rather than an Australian/New Zealand Standard.

AS/NZS IEC 60947.3:2015 will also remain current for 12 months and after this time it will be superseded by AS 60947.3:2018. Regulatory authorities that reference this Standard in regulation may apply these requirements at a different time. Users of this Standard should consult with these authorities to confirm their requirements.

The essential safety requirements for electrical equipment as specified in AS/NZS 3820, *Essential safety requirements for electrical equipment*, that could be applicable to equipment in the scope of this Standard, are covered by this Standard taken in conjunction with any other relevant requirements affecting safety.

This Preface is in addition to the IEC foreword of IEC 60947-3 Edition 3.2, which follows the table of contents.

The objective of this Standard is to state particular classifications, characteristics, marking and tests required as follows—

(a) Classification:

  (i) Utilization category.

  (ii) Independent manual operation.

  (iii) Suitable for isolation.

  (iv) Individual dedicated outdoor enclosures to suit switch disconnectors are required to have an ingress protection (IP) rating of IP56NW and be suitable for vertical mounting.

  The current rating type tests for I_{the} and I_{the} *solar* with solar effects are to be done in the dedicated individual outdoor enclosure and enclosures, which differ from those used for type tests and may require additional tests.

(b) Characteristics:

  (i) Minimum of one circuit configuration per polarity.

  (ii) Current rating I_{the} *solar* to be the current rating when tested in a dedicated individual outdoor enclosure when subject to solar effects in accordance with D.8.3.11 at a shade ambient air temperature of 40 °C and be suitable for uninterrupted duty (I_u).

  The I_{the} *solar* current value is also to be stated for a shade ambient air temperature of 60 °C.

(c) Marking: Additional information and change to locations.

(d) Normal service: Minimum pollution P3.

(e) Tests: Tests for hinged flaps or covers to ensure flaps and covers close and remain firmly closed when subject to external effects.

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This Standard is an adoption with national modifications. It has been reproduced from IEC 60947-3:2008+A1:2012+A2:2015 CSV (ED. 3.2), *Low voltage switchgear and controlgear*, Part 3: *Switches, disconnectors, switch-disconnectors and fuse-combination units*, and has been varied to take account of Australian conditions. 'CSV' means 'consolidated version' to indicate IEC amendments 1 and 2 are incorporated into the source text. IEC Amendment 2:2015 introduced requirements for photovoltaic (PV) d.c. applications in a new Annex D. The variations to take account of Australian conditions, which are set out in Appendix ZZ, relate to Annex D.

The variations in Appendix ZZ were prepared by Committee EL-006, Switchgear and Controlgear, in consultation with Committee EL-042, Renewable Energy Power Supply Systems and Equipment, and align with AS/NZS 5033, *Installation and safety requirements for photovoltaic (PV) arrays*.

Variations made to IEC 60947-3 form the Australian variations for the purposes of the CB scheme for recognition of testing to standards for safety of electrical equipment. The variations are clearly shown to enable certified test stations (refer to CTI listings) to test under the CB scheme.

The Standard is structured as follows:

(A) Preface.

(B) IEC 60947-3:2008+A1:2012+A2:2015 (ED. 3.2) (unedited from the contents page to the final clause of the source document).

(C) Appendix ZZ, comprising Australian variations to the source document.

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

(1) In the source text 'this part of IEC 60947' should read 'this Australian/New Zealand Standard'.

(2) A full point substitutes for a comma when referring to a decimal marker.

Australian or Australian/New Zealand Standards that are identical adoptions of international normative references may be used interchangeably. Refer to the online catalogue for information on specific standards. In Appendix ZZ, references to IEC 60947-1 are shown as (AS/NZS) IEC 60947.1 to reflect this interchangeability.

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

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