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Australian Standard® 3650—1988

LOW VOLTAGE SWITCHGEAR AND CONTROLGEAR— COMMON REQUIREMENTS



This Australian Standard was prepared by Committee EL/6, Industrial Switchgear and Controlgear. It was approved on behalf of the Council of the Standards Association of Australia on 19 April 1988 and published on 15 July 1988.

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

Department of Defence

Electrical Contractors Associations of Australia

Electricity Supply Association of Australia

Independent Electrical Switchboard Manufacturers Association

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AUSTRALIAN STANDARD

LOW VOLTAGE SWITCHGEAR AND CONTROLGEAR— COMMON REQUIREMENTS

AS 3650-1988

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PREFACE

This Standard was prepared by the Association's Committee on Industrial Switchgear and Controlgear to cover the requirements common to the various equipment Standards for low voltage switchgear and controlgear.

It is based on IEC documents 17B(Central Office)123, and 124, as amended in IEC document 17B(Secretariat)311. Acknowledgement is made of the assistance received from these documents.

Its aim is to harmonize and influence as far as possible the requirements and tests in low voltage equipment Standards, where similar requirements and tests apply, with view to avoiding the need for double testing to different Standards.

All those parts of various equipment Standards which can be considered as general have therefore been gathered in this Standard. Specific subjects of wide interest and application, e.g. dielectric properties, temperature rise, form part of this Standard.

It is intended that the clauses of the various equipment Standards intended to be read in conjunction with this Standard and referring extensively thereto should closely follow the order of this Standard with any slight amendment to the headings as may be necessary to take better account of the text.

This Standard and AS 1852, International Electrotechnical Vocabulary, Chapter 441—Switchgear and controlgear are intended to be read in conjunction with each equipment Standard which has been prepared to closely follow this Standard.

It is necessary for Standards based on this Standard to specifically refer to all clauses herein which are applicable. The clauses of the equipment Standard may add to, modify or delete part of the clauses herein where there is a substantial technical justification for this.

Appendix F is based on IEC document 17B (Central Office)129, but the specification and verification of dielectric properties in Clauses 7.2.3 and 8.3.3.4 is in line with current Australian low voltage switchgear and controlgear Standards, as the specific requirements for impulse withstand levels and their coordination with switching overvoltages and clearance distances in IEC document 17B(Central Office)129 were not considered to be appropriate for Australian service conditions.

With the exception of the definitions in Clause 2, which are presented in alphabetical order, the clause numbers of this Standard follow those of IEC documents 17B(Central Office)123 and 124.

Where this Standard differs from the above IEC documents, this is indicated by a rule in the margin against the clause or part thereof affected and a summary of such differences is indicated in Appendix H.

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