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Australian Standard 2264–1979

INSULATION-ENCLOSED SWITCHGEAR AND CONTROLGEAR

FOR RATED VOLTAGES ABOVE 1 kV UP TO AND INCLUDING 36 kV

STANDARDS ASSOCIATION OF AUSTRALIA
Incorporated by Royal Charter

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THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL ORGANIZATIONS were officially represented on the committee entrusted with the preparation of this standard:

Australian British Trade Association

Australian Electrical and Electronic Manufacturers Association

Confederation of Australian Industry

Electricity Supply Association of Australia

Railways of Australia Committee

Testing Authorities

The Institution of Engineers, Australia

This standard, prepared by Committee EL/7, Power Switchgear, was approved on behalf of the Council of the Standards Association of Australia on 30 March 1979, and was published on 1 July 1979.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvement to published standards, addressed to the head office of the Association, are welcomed.

This standard was issued in draft form for public review as DR 78091.

AUSTRALIAN STANDARD

INSULATION-ENCLOSED SWITCHGEAR AND CONTROLGEAR

FOR RATED VOLTAGES ABOVE 1 kV UP TO AND INCLUDING 36 kV

AS 2264—1979

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PREFACE

This standard was prepared by the Association's Committee on Power Switchgear. During its preparation consideration was given to IEC 466, High-voltage Insulation-enclosed Switchgear and Controlgear, including Amendment No 1. Consideration was also given to draft Amendments 2 to 4 which were issued by IEC as Documents 17C(Secretariat)36,39 and 40, and to draft Amendment No 4, which was issued by IEC as 17C(Secretariat)44.

The standard generally follows IEC 466 in technical content, but where it deviates technically by way of additional or different requirements, this is indicated by a ruled line in the margin against the clause, or part thereof, affected.

The standard follows the sequence of clauses in IEC 466 but the clauses have been re-numbered in accordance with SAA style. For reference purposes, Appendix D lists the IEC clause and table numbers alongside those given in this standard.

This standard requires reference to the standard listed below. Where an Australian standard, which is based on an IEC standard is listed, the equivalent IEC number is shown in parentheses:

AS 1018 Recommendations for Partial Discharge Measurements (IEC 270)

AS 1255 Methods of Test for Electrical Characteristics of Solid Plastics Insulating Materials

1255.1 — Method 1 — Determination of Volume and Surface Resistivities (IEC 93)

1255.3 — Method 3 — Determination of Electric Strength at Power Frequencies (IEC 243)

AS 1306 High Voltage Isolators (Disconnectors) and Earthing Switches (IEC 129)

AS 1824 Insulation Coordination (IEC 71)

Part 1 — Basic Principles, Standard Insulation Levels and Test Procedures

AS 193 High Voltage Testing Techniques

Part 1 — General Definitions, Test Requirements, Test Procedures and Measuring Devices (IEC 60)

AS 1939 Classification of Degrees of Protection Provided by Enclosures for Electrical Equipment (IEC 529)

AS 2006 High Voltage Alternating Current Circuit-breakers (IEC 56)

AS 2086 Metal-enclosed Switchgear and Controlgear for Rated Voltages Above 1 kV up to and including 72.5 kV (IEC 298)

AS C320 Classification of Insulating Materials for Electrical Machinery and Apparatus on the Basis of Thermal Stability in Service

SAA MP19 Report on Preferred Numbers and Their Use

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Australian Standard
for
INSULATION-ENCLOSED SWITCHGEAR AND CONTROLGEAR FOR RATED VOLTAGES ABOVE 1 kV UP TO AND INCLUDING 36 kV

SECTION 1. SCOPE AND OBJECT

1.1 SCOPE. This standard applies to factory assembled alternating current insulation-enclosed switchgear and controlgear, designed for indoor installations, for rated voltages above 1 kV up to and including 36 kV.

Insulation-enclosed switchgear and controlgear for special use, e.g. in flammable atmospheres, in mines or on board ships, may be subject to additional requirements.

This standard does not cover components contained in insulation-enclosed switchgear and controlgear for which separate Australian standards exist.

1.2 OBJECT. The purpose of this standard is to establish provisions concerning classification, construction, ratings and tests.