

AS 1930—1976

Australian Standard[®]

**CIRCUIT-BREAKERS FOR
DISTRIBUTION CIRCUITS**

(up to and including 1000 V a.c. and 1200 V d.c.)

The following scientific, industrial and governmental organizations were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Manufactures of Australia
Australian-British Trade Association
Australian Electrical Manufacturers Association
Department of Defence
Department of Industry and Commerce
Electricity Supply Association of Australia
Institution of Engineers, Australia
Railways of Australia Committee
Testing Authorities.

This standard, prepared by Committee EL/6, Industrial Switchgear and Controlgear, was approved on behalf of the Council of the Standards Association of Australia on 4 May 1976, and was published on 1 November 1976.

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PREFACE

This standard was prepared by a subcommittee of the Association's Committee on Industrial Switchgear and Controlgear as a revision of AS C410—1970, which it accordingly supersedes. It deals with circuit-breakers, both air-break and oil-break, for the control of distribution circuits of rated voltage up to and including 1000 V a.c. and 1200 V d.c.

This standard is based on IEC Publication 157-1 (1973), Low-voltage Switchgear and Controlgear, Part 1—Circuit-breakers, and acknowledgement is made of the assistance therefrom. The standard differs from that publication with respect to its scope and particular requirements. It applies to circuit-breakers having short-circuit performance category P-2, the category P-1 in IEC 157-1 having been omitted. Where departures from the IEC document are of a technical nature, they are shown by a rule in the margin against the clause, or part thereof, affected.

Some of the important changes from AS C410 are the introduction of rated operational and insulation voltages, rated thermal and uninterrupted currents, rated 8-hour and uninterrupted duties, cable and busbar sizes for temperature-rise tests, electrical endurance tests at rated thermal current, and tests for performance under conditions of overload.

In the application of this standard, reference may be necessary to the following standards:

- AS 1023 Thermal Protection of Electric Motors
 - Part 2—Thermal Overload Protective Devices
- AS 1029 A.C. Contactors (up to and including 1000 V a.c.)
- AS 1136 Switchgear and Controlgear Assemblies for Voltages up to 1000 V a.c.
- AS 1202 A.C. Motor Starters (up to and including 1000 V)
 - Part 1—Direct-on-line Starters
 - Part 2—Star-delta Starters
 - Part 3—Autotransformer Starters
 - Part 4—Rheostatic Rotor Starters
- AS 1431 Control Switching Devices for Voltages up to 650 V a.c. and 250 V d.c.
 - Part 1—General Requirements
 - Part 2—Pushbuttons and Related Control Switches including Pilot Lights*
 - Part 3—Rotary Switches
 - Part 4—Contactor Relays*
 - Part 5—Position Switches*
 - Part 6—Pilot Switches*

* In course of preparation.

- AS 1939 Classification of Degrees of Protection Provided by Enclosures for Electrical Equipment
- AS 3111 Approval and Test Specification for Miniature Over-current Circuit-breakers
- AS C100 Approval and Test Specification for Definitions and General Requirements for Electrical Materials and Equipment
- AS C320 Classification of Insulating Materials for Electrical Machinery and Apparatus on the Basis of Thermal Stability in Service
- AS C411 Moulded Case Circuit-breakers
- AS* Oil-immersed Electrical Equipment for Explosive Atmospheres
- AS* Fuses with Enclosed Fuse Links (for Voltages up to and including 1000 V a.c. and 1500 V d.c.)
 - Part 1—General Requirements
 - Part 2—Fuses for Industrial Applications

* In course of preparation.

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