

AS 1930—1976

Australian Standard<sup>®</sup>

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**CIRCUIT-BREAKERS FOR  
DISTRIBUTION CIRCUITS**  
(up to and including 1000 V a.c. and 1200 V d.c.)

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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.

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## **CIRCUIT-BREAKERS FOR DISTRIBUTION CIRCUITS**

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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\*

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\* 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

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