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Australian Standard 1966 — 1976

ELECTRIC ARC WELDING MACHINES

[Title allocated by Defence Cataloguing Authority: WELDING MACHINE, ARC]

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

Associated Chambers of Manufactures of Australia
Australian Electrical Manufacturers Association
Australian Welding Institute
Electricity Supply Association of Australia
Metal Trades Industry Association of Australia
Railways of Australia Committee
University of New South Wales

This standard, prepared by the Association's Committee EL/19, Electrical Welding Plant, was approved on behalf of the Council of the Standards Association of Australia on 20 August 1976, and was published on 1 January 1977.

To keep abreast of progress in industry, Australian standards are regularly reviewed. Suggestions for improvements 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 75018.

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AUSTRALIAN STANDARD SPECIFICATION

ELECTRIC ARC WELDING MACHINES

AS 1966—1976

First published (as AS C97)	1942
Revised	1964
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PREFACE

This standard was prepared by the Association's Committee on Electrical Welding Plant, as a revision of AS C97—1964, which it accordingly supersedes.

The standard retains the original two part format of AS C97, but opportunity has been taken to expand the scope to cover additional types of welding machines and to align the standard with developments that have taken place since 1964. The significant requirements which differ from those of AS C97 include the following:

- The scope has been expanded to cover d.c. transformer/rectifier machines and rotary a.c. machines.
- Compliance with AS 3195, Approval and Test Specification for Portable Electric Arc Welding Machines—Transformer Type, is specified for limited input machines.
- Power factor correction is calculated on the rated input current of machines.
- A delayed response time for voltage-reducing apparatus has been specified.
- Construction and testing requirements for all transformers have been upgraded to align with those specified for limited input machines in AS 3195.
- Marking requirements have been rationalized.
- Requirements for internal combustion engines for driving welding machines have been included.
- A test has been included to check the voltage regulation of rotary machines.

During the preparation of this standard, close touch was maintained with interested manufacturers, industrial associations and user bodies who were given the opportunity of reviewing the various drafts and of putting their views before the committee. Acknowledgement is made of the valuable assistance received from these bodies.

This standard requires reference to the following Australian and British standards:

AS 1202	A.C. Motor Starters (Up to and Including 1000 V)
AS 1359	General Requirements for Rotating Electrical Machines
AS 1939	Classification of Degrees of Protection Provided by Enclosures for Electrical Equipment
AS 1995	Welding Cables*
AS 3000	Part 1 SAA Wiring Rules

*In course of publication.

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AS 3195	Approval and Test Specification for Portable Electric Arc Welding Machines—Transformer Type
AS C61	Power Transformers
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 CC5	Rules for the Prevention of Electric Shock to Arc Welders
AS Z5	Glossary of Metal Welding Terms and Definitions
BS 115	Metallic Resistance Materials for Electrical Purposes
BS 649	The Performance of Reciprocating Compression-ignition (Diesel) Engines, Utilizing Liquid Fuel Only, for General Purposes
BS 765	Internal Combustion Engines, Spark Ignition Type
BS 2709	Electrical Performance of Semiconductor Rectifiers (Metal Rectifiers).

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