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AS 1076, Part 6—1977

Australian Standard®

SELECTION, INSTALLATION AND MAINTENANCE OF ELECTRICAL APPARATUS AND ASSOCIATED EQUIPMENT FOR USE IN EXPLOSIVE ATMOSPHERES (Other than Mining Applications)

Part 6—APPARATUS WITH TYPE OF PROTECTION ‘e’—INCREASED SAFETY

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

Associated Chambers of Manufactures of Australia

Australian Coal Association

Australian Electrical Manufacturers Association

Department of Defence

Department of Productivity

Department of Public Works, N.S.W.

Electrical Contractors Associations of Australia

Electricity Supply Association of Australia

Insurance Council of Australia

Oil Companies

State Departments of Explosives

State Departments of Labour and Industry

State Departments of Mines

Statutory Electricity Authorities

Sydney County Council (Testing Interest)

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PREFACE

This standard was prepared by the Association's Committee on Electrical Equipment in Hazardous Locations for the guidance of manufacturers, users and statutory authorities, and for use with the SAA Wiring Rules and relevant Mining Regulations.

This standard is one of a number of Parts of a code which deals with the classification of hazardous areas, and the selection, installation and maintenance of electrical apparatus for use in areas where combustible materials are generated, processed, handled or stored and which therefore are potentially hazardous. Each part applies to the installation and maintenance requirements appropriate to one of the types of protection which may be used to achieve electrical safety, and outlines basic requirements and considerations which are fundamental to the use of electrical apparatus in hazardous areas and which therefore provide the basis for the other Parts of the standard.

The full list of Parts is as follows:

Part 1	Basic Requirements*
Part 2	Classification of Hazardous Areas*
Part 3	Apparatus with Type of Protection 'd' – Flameproof Enclosure
Part 4	Apparatus with Type of Protection 'i' – Intrinsically Safe Apparatus and Systems*
Part 5	Apparatus with Type of Protection 'p' – Pressurization and Continuous Dilution
Part 6	Apparatus with Type of Protection 'e' – Increased safety*
Part 7	Apparatus with Type of Protection 'n' – Non–sparking Apparatus*
Part 8	Apparatus with Type of Protection 's' – Special Protection*
Part 9	Apparatus with Type of Protection 'o' – Oil–immersed Apparatus and Apparatus with Type of Protection 'q' – Sand–filled Apparatus
Part 10	Apparatus for Use with Combustible Dusts
Part 11	Specific Industry Applications
Part 12	The Use of Gas Detectors
Part 13	Installation and Maintenance Requirements for Instrumentation.

In its terminology, definitions and general treatment of the subject, this Part takes into account a similar draft standard code of practice issued by the British Standards Institution, viz Doc 75/20797 DC, Part 6 – Type of Protection 'e': Increased Safety, and acknowledgement is made of the assistance received therefrom.

In addition to Part 1 of the standard, this Part requires reference to the following standards:

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AS 1359	General Requirements for Rotating Electrical Machines Part 30 – Duty and Rating
AS 1593	Increased Safety of Electrical Equipment for Explosive Atmospheres
AS 1828	Cable Glands for Explosive Gas Atmospheres
AS 1896	Method of Test for Ignition Temperature of Gases and Vapours
AS 1939	Classification of Degrees of Protection Provided by Enclosures for Electrical Equipment
AS 2052	Metallic Conduits and Fittings
AS 3000, Part 1	SAA Wiring Rules
AS C66, Part 1	Rigid Metallic Conduit for Electrical Wiring
AS C320	Classification of Insulating Materials for Electrical Machinery and Apparatus on the Basis of Thermal Stability in Service
AS	Non–sparking Electrical Apparatus for Explosive Atmospheres Part 2 – Type ‘n’ Three–phase Electric Motors.*

* In course of preparation

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