

C/  
F  
Fuses

SUPERSEDED BY AS 2005.20-1990; AS 2005.21.1-1990

This is a free page sample. Access the full version online.

AS 2005.21.2-1990, AS 2005.29-1990

AS 2005, Part 2—1977  
UDC 621.316.923

WITHDRAWN

TAS AUGUST 1990

# Australian Standard 2005, Part 2—1977

---

**FUSES WITH  
ENCLOSED FUSE-LINKS**  
(up to and including 1000 V a.c.  
and 1500 V d.c.)

## Part 2—FUSES FOR INDUSTRIAL APPLICATION

---



**STANDARDS ASSOCIATION OF AUSTRALIA**  
*Incorporated by Royal Charter*

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 Electrical Manufacturers Association  
Australian-British Trade Association  
Department of Defence  
Department of Industry and Commerce  
Electrical Contractors Associations of Australia  
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 10 December 1976, and was published on 1 September 1977.

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.

---

# AUSTRALIAN STANDARD SPECIFICATION

## **FUSES WITH ENCLOSED FUSE-LINKS** (up to and including 1000 V a.c. and 1500 V d.c.)

### **Part 2** **FUSES** **FOR INDUSTRIAL** **APPLICATION**

**AS 2005, Part 2—1977**

First published . . . . . 1977
--------------------------------

**PUBLISHED BY THE STANDARDS ASSOCIATION OF AUSTRALIA**  
**STANDARDS HOUSE, 80 ARTHUR STREET, NORTH SYDNEY, N.S.W.**



**ISBN 0 7262 1170 2**

## PREFACE

This standard was prepared by the Association's Committee on Industrial Switchgear and Controlgear. It is Part 2 of a three-part standard for fuses with enclosed fuse-links.

The Parts of the standard are as follows:

Part 1—General Requirements

Part 2—Fuses for Industrial Application

Part 3—Fuses for Household Application\*

Part 1 deals with requirements common to all fuses within the scope of the standard and includes definitions, standard conditions for operation in service, fuse characteristics and marking, construction and test requirements.

Part 2 gives specific additional requirements for fuses used in industrial applications.

During preparation of the standard, consideration was given to IEC 269-2, Low-voltage Fuses, Part 2—Supplementary Requirements for Fuses for Industrial Application, and to BS 88, Cartridge Fuses for Voltages up to and including 1000 V a.c. and 1500 V d.c., Part 2—Supplementary Requirements for Fuses of Standardized Dimensions and Performance for Industrial Purposes. Acknowledgement is made of the assistance received from these publications.

The standard closely follows IEC 269-2; however some of the requirements of that publication have been modified to take account of local conditions. Where this standard deviates technically from the IEC document by way of additional or different requirements, the deviation is indicated by a rule in the margin against the clause, or part thereof, affected.

This standard requires reference to Part 1.

---

\* In course of preparation.

© Copyright — STANDARDS ASSOCIATION OF AUSTRALIA 1977

Users of standards are reminded that copyright subsists in all SAA publications. No part of this publication may be reproduced, stored in a retrieval system in any form or transmitted by any means without prior permission in writing of the Standards Association of Australia.

# CONTENTS

	<i>Page</i>
<b>SECTION 1. SCOPE, APPLICATION AND OBJECT</b>	
1.1 Scope .....	4
1.2 Application .....	4
1.3 Object .....	4
<b>SECTION 2. DEFINITIONS</b>	
2.1 General .....	5
<b>SECTION 3. STANDARD CONDITIONS FOR OPERATION IN SERVICE</b>	5
<b>SECTION 4. CLASSIFICATION</b> .....	5
<b>SECTION 5. CHARACTERISTICS OF FUSES</b>	
5.5 Rated Power Dissipation .....	5
5.7 Time/current Characteristics, Conventional Currents and Overload Curves .....	5
5.8 Rated Breaking Capacity .....	6
5.10 Dimensions .....	6
<b>SECTION 6. MARKINGS</b>	
6.3 Markings on Fuse-links .....	8
<b>SECTION 7. CONDITIONS FOR CONSTRUCTION</b> .....	8
<b>SECTION 8. TESTS</b>	
8.3 Verification of the Temperature Rise Limits and Power Dissipation .....	9
8.4 Verification of Operation .....	9
8.5 Verification of Breaking Capacity .....	9
<b>APPENDICES</b>	
A Measurement of Short-circuit Power Factor .....	17
B Selection of Fuse-links .....	17
C Effect on the Performance of Enclosed Fuse-links of Charge of Ambient Temperature, Parts or Surroundings ...	18
D Fusing Factor, Conventional Fusing and Non-fusing Cur- rents, Time/current Characteristic and Time/current Zones .....	18
E Preferred Dimensions of Fuses for Industrial Applications	19

This is a free preview. Purchase the entire publication at the link below:

[Product Page](#)

- 
- Looking for additional Standards? Visit Intertek Inform Infostore
  - Learn about LexConnect, All Jurisdictions, Standards referenced in Australian legislation
-