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AS 2005, Part 1-1981 UDC 621.316.923

Withdrawn TAS July 1999

86199

Australian Standard 2005, Part 1—1981

FUSES WITH ENCLOSED FUSE-LINKS (up to and including 1000 V a.c. and 1500 V d.c.) Part 1—GENERAL REQUIREMENTS

17.7 NOV 1981



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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:

Australian Electrical and Electronic Manufacturers Association

Australian-British Trade Association

Bureau of Steel Manufacturers of Australia

Confederation of Australian Industry

Department of Defence

Department of Productivity

Electrical Contractors Associations of Australia

Electricity Supply Association of Australia

Institution of Engineers Australia

Metropolitan Water Sewerage and Drainage Board, Sydney

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 17 August 1981, and was published on 9 November 1981.

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AUSTRALIAN STANDARD

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

Part 1 GENERAL REQUIREMENTS

AS 2005, Part 1-1981

First published Second edition

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

ISBN 0 7262 2382 4

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PREFACE

This edition of this standard was prepared by the Association's Committee on Industrial Switchgear and Controlgear, to supersede AS 2005, Part 1—1977. It is Part 1 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.

This edition includes an amendment to Clause 7.2 to ensure that adequate contact pressure will be maintained for the life of the fuse and an amendment to Clause 8.5.3 covering the measurement of arc voltages required in tests 1 and 2. Other amendments to the previous edition are of an editorial nature only.

Within the standard the IEC concept of 'conventional fusing and non-fusing current' has been adopted in place of the more familiar concept of 'fusing factor'. An explanation and contrast of these concepts is included in an appendix to this Part.

The standard closely follows IEC 269-1; 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 the following Australian standards:

 AS 1102 Graphical Symbols for Electrotechnology Part 1—General, Qualifying and Supplementary Symbols
AS 1931 High Voltage Testing Techniques
AS 1939 Classification of Degrees of Protection Provided by Enclosures for Electrical Equipment
AS C320 Classification of Insulating Materials for Electrical Machinery and Apparatus on the Basis of Thermal Stability in Service
SAA MP19 Report on Preferred Numbers and Their Use

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3

CONTENTS

, •

									•		Page
Section 1. Scope and Object											
1.1	Scope		••••		·			••••	••••	••••	. 5
1.2	Object	••••`••••	••••	••••	••••	• ••••	••••	· • • • •	••••	••••	5
SECTION	N 2. DEFINITIONS							•			a
2.1	Definitions Conce	rning Fu	ses ar	id Th	eir Ca	omno	nent	Parts			6
2.2	Definitions of Ger	neral Terr	ns		•						6
2.3	Definitions of Fus	e Chàrac	terist	ics		••••	•	••••			6
a				- ^							
SECTION 3. STANDARD CONDITIONS FOR OPERATION IN SERVICE											
3.1	Application	, 			••••	a '	••••	••••	••••	••••	8
3.2	Ambient Air Tem	perature	••••	••••		••••		••••	••••	••••	8
3.3	Temperature Insid	le an Enc	losur	e		••••	••••	••••	••••	••••	8
3.4	Altitude		••••	••••	••••	••••		••••		••••	8
3.5	Atmospheric Con	ditions	••••	••••	••••	••••	••••	••••	••••	••••	8
3.6	Voltage	••••	••••	••••	••••	••••	••••	••••	••••	••••	8
3.7	Current	 E	 	 	••••		••••	••••	••••	••••	8
3.8 2.0	Conditions of Inst	Pactor a		meC	onsta	int	••••	••••	••••	••••	ð
3.7	Conditions of first	allation	••••	••••	••••	••••	••••	••••	••••	••••	o
SECTION	1 4. CLASSIFICATION	NC									
4.1	Classification Cha	racteristi	ics								9
Cromo	· 5 Cut + D + CTED 10		Cuer								
SECTION 5. CHARACTERISTICS OF FUSES											
5.1	Summary of Char	acteristic	s	••••	••••	••••	••••	••••	••••	••••	10
5.2	Rated Voltage	••••	••••	••••	••••	••••	••••	••••	••••	••••	10
5.5 5.4	Rated Currents	••••	••••	••••	••••	••••	••••	••••	••••	••••	10
5.4	Rated Power Dissi	ination of	 fa Fu	 se-lin	 k	••••	••••	••••	••••	••••	10
5.5	Rated Power Loss Tolerated by a Fuse-holder										10
5.7	7 Time/Current Characteristics, Conventional Currents and Over-										
	load Curves				••••	••••		••••			10
5.8	Rated Breaking Ca	apacity	••••	••••	••••	••••	••••	••••	••••	••••	11
5.9	Cut-off and I ² t Ch	aracteris	tics	••••	••••	••••	••••	••••	••••	••••	11
SECTION 6. MARKINGS											
61	General										12
6.2	Markings on Fuse	-holders	••••	••••	••••	••••		••••	••••	••••	12
6.3	Markings on Fuse	-links									12
6.4	Marking Symbols					••••				••••	12
a											
SECTION	7. CONDITIONS F	OR CONS	TRUC	TION			•				_
7.1	Mechanical Design	n	••••	••••	••••	••••	••••	••••	••••	••••	13
7.2	Insulating Propert	ies		••••						••••	13
7.3	Temperature Rise,	PowerL	JISSIP	ation	and	rowei	LOSS	1016	raten	••••	13
7.4	Operation	••••	••••	••••	••••	••••	••••	••••	••••	••••	15
7.5 7.6	Cut-off Characteri	stic	••••	••••	••••	••••	••••	••••	•••••	••••	15
7.0	Joule Integral (121)	Charact	eristia	 CS		••••	••••	••••	••••	••••	15
7.8	Time/Current Zor	les				•••••	••••	••••		••••	15
-	· ····							•			
SECTION 8. TESTS											
8.1	General		••••	••••		••••	••••	••••	••••	••••	16
8.2	Verification of the	Insulatin	g Pro	perti	es	••••	••••	••••	••••	••••	18



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