



National Standards Authority of Ireland

IRISH STANDARD

I.S. 60077-5:2003

ICS 45.060

**RAILWAY APPLICATIONS -
ELECTROTECHNICAL EQUIPMENT FOR
ROLLING STOCK
PART 5: ELECTROTECHNICAL COMPONENTS
-
RULES FOR HV FUSES
(IEC 60077-5:2003)**

National Standards
Authority of Ireland
Dublin 9
Ireland

Tel: (01) 807 3800
Tel: (01) 807 3838

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EUROPEAN STANDARD

EN 60077-5

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English version

**Railway applications -
Electrotechnical equipment for rolling stock
Part 5: Electrotechnical components -
Rules for HV fuses
(IEC 60077-5:2003)**

Applications ferroviaires -
Equipements électriques
du matériel roulant
Partie 5: Composants électrotechniques -
Règles pour les fusibles à haute tension
(CEI 60077-5:2003)

Bahnanwendungen -
Elektrische Betriebsmittel
auf Bahnfahrzeugen
Teil 5: Elektrotechnische Bauteile -
Regeln für Hochspannungssicherungen
(IEC 60077-5:2003)

This European Standard was approved by CENELEC on 2003-09-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Lithuania, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of document 9/752/FDIS, future edition 1 of IEC 60077-5, prepared by IEC TC 9, Electrical equipment and systems for railways, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60077-5 on 2003-09-01.

This standard should be read in conjunction with EN 60077-1:2002 and EN 60077-2:2002.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2004-06-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-09-01

Annexes designated "normative" are part of the body of the standard.

Annexes designated "informative" are given for information only.

In this standard, annexes A and ZA are normative and annexes B to D are informative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60077-5:2003 was approved by CENELEC as a European Standard without any modification.

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies (including amendments).

NOTE When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|----------------------|-------------|---|--------------|-------------|
| IEC 60050-441 | 1984 | International Electrotechnical Vocabulary (IEV) Chapter 441: Switchgear, controlgear and fuses | - | - |
| IEC 60050-811 | 1991 | Chapter 811: Electric traction | - | - |
| IEC 60077-1 (mod) | 1999 | Railway applications - Electric equipment for rolling stock Part 1: General service conditions and general rules | EN 60077-1 | 2002 |
| IEC 60077-2 (mod) | 1999 | Part 2: Electrotechnical components - General rules | EN 60077-2 | 2002 |
| IEC 60269-1 | 1998 | Low-voltage fuses Part 1: General requirements | EN 60269-1 | 1998 |
| IEC 60282-1 | 2002 | High-voltage fuses Part 1: Current-limiting fuses | EN 60282-1 | 2002 |
| IEC 60850 | 2000 | Railway applications - Supply voltages of traction systems | - | - |
| IEC 61373 | 1999 | Railway applications - Rolling stock equipment - Shock and vibration tests | EN 61373 | 1999 |
| ISO 3 | 1973 | Preferred numbers - Series of preferred numbers | - | - |

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