



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60077-4:2003

ICS 45.060

**RAILWAY APPLICATIONS -
ELECTRIC EQUIPMENT FOR ROLLING STOCK
PART 4: ELECTROTECHNICAL COMPONENTS
-**

**RULES FOR AC CIRCUIT-BREAKERS
(IEC 60077-4:2003)**

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Údarás um Chaighdeán Náisiúnta na hÉireann

EUROPEAN STANDARD

EN 60077-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2003

ICS 45.060

English version

**Railway applications -
Electric equipment for rolling stock
Part 4: Electrotechnical components -
Rules for AC circuit-breakers
(IEC 60077-4:2003)**

Applications ferroviaires -
Equipements électriques pour le matériel
roulant
Partie 4: Composants électrotechniques -
Règles pour disjoncteurs à courant
monophasé
(CEI 60077-4:2003)

Bahnanwendungen -
Elektrische Betriebsmittel
auf Bahnfahrzeugen
Teil 4: Elektrotechnische Bauteile -
Regeln für AC-Leistungsschalter
(IEC 60077-4:2003)

This European Standard was approved by CENELEC on 2003-04-01. 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, 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 9/718/FDIS, future edition 1 of IEC 60077-4, 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 60077-4 on 2003-04-01.

This European Standard shall be read in conjunction with EN 60077-1.

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) 2004-01-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2006-04-01

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

Annexes designated "informative" are given for information only.

In this standard, annex ZA is normative and annexes A and B are informative.

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 60077-4 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 60060-1 + corr. March	1989 1990	High-voltage test techniques Part 1: General definitions and test requirements	HD 588.1 S1	1991
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 60571 ¹⁾	1998	Electronic equipment used on rail vehicles	-	-
IEC 60694	1996	Common specifications for high-voltage switchgear and controlgear standards	EN 60694 + corr. May	1996 1999
IEC 60850 ²⁾	2000	Railway applications - Supply voltages of traction systems	-	-
IEC 61373	1999	Railway applications - Rolling stock equipment - Shock and vibration tests	EN 61373	1999
IEC 62271-100 ³⁾	2001	High-voltage switchgear and controlgear Part 100: High-voltage alternating-current circuit-breakers	EN 62271-100	2001

¹⁾ Instead of IEC 60571, the European Standard EN 50155:2001 "Railway applications - Electronic equipment used on rolling stock" applies.

²⁾ Instead of IEC 60850:2000, the European Standard EN 50163:1995 (under revision) applies.

³⁾ IEC 62271-100 supersedes IEC 60056:1987.

**NORME
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60077-4

Première édition
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