



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 60077-1:2002

ICS 29.280

**RAILWAY APPLICATIONS -  
ELECTRIC EQUIPMENT FOR ROLLING  
STOCK  
PART 1: GENERAL SERVICE CONDITIONS  
AND GENERAL RULES  
(IEC 60077-1:1999, MODIFIED)**

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EUROPEAN STANDARD

**EN 60077-1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2002

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ICS 29.280

English version

**Railway applications -  
Electric equipment for rolling stock  
Part 1: General service conditions and general rules  
(IEC 60077-1:1999, modified)**

Applications ferroviaires -  
Equipements électriques  
du matériel roulant  
Partie 1: Conditions générales  
de service et règles générales  
(CEI 60077-1:1999, modifiée)

Bahnanwendungen -  
Elektrische Betriebsmittel auf  
Bahnfahrzeuge  
Teil 1: Allgemeine Betriebsbedingungen  
und allgemeine Regeln  
(IEC 60077-1:1999, modifiziert)

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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, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, 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**

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## Foreword

The text of the International Standard IEC 60077-1:1999, prepared by IEC TC 9, Electric railway equipment, together with the common modifications prepared by SC 9XB, Electromechanical material on board of rolling stock, of Technical Committee CENELEC TC 9X, Electrical and electronic applications for railways, was submitted to the Unique Acceptance Procedure and was approved by CENELEC as EN 60077-1 on 2002-03-01.

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) 2003-03-01
- latest date by which the national standards conflicting  
with the EN have to be withdrawn (dow) 2005-03-01

In this European Standard the common modifications to the International Standard are indicated by a vertical line in the left margin of the text.

Subclauses, tables and figures which are additional to those in IEC 60077-1 are prefixed "Z".

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 annex A is informative.

Annex ZA has been added by CENELEC.

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