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I.S. EN 50329:2007

ICS 29.180
29.280

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RAILWAY APPLICATIONS - FIXED INSTALLATIONS - TRACTION TRANSFORMERS

This Irish Standard was published under the authority of the National Standards Authority of Ireland and comes into effect on:
2 March 2007

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EUROPEAN STANDARD **EN 50329**

NORME EUROPÉENNE

EUROPÄISCHE NORM March 2003

ICS 29.180; 29.280

Supersedes HD 591 S1:1993 and EN 60146-1-3:1993 (partly)
Incorporates Corrigendum December 2006

English version

Railway applications – Fixed installations – Traction transformers

Applications ferroviaires – Installations fixes – Transformateurs de traction

Bahnanwendungen – Ortsfeste Anlagen – Bahn-Transformatoren

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

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Ref. No. EN 50329:2003 E

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Foreword

This European Standard was prepared by SC 9XC, Electric supply and earthing systems for public transport equipment and ancillary apparatus (fixed installations), of Technical Committee CENELEC TC 9X, Electrical and electronic applications for railways.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50329 on 2002-05-01.

This European Standard supersedes HD 591 S1:1993 and, for the transformers mentioned in the scope of this EN 50329, EN 60146-1-3:1993.

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) 2003-09-01

- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2005-05-01

Annexes designated “normative” are part of the body of the standard.
Annexes designated “informative” are given for information only.
In this standard, Annexes B and C are normative and Annexes A, D, E and F are informative.

The contents of the corrigendum of December 2006 have been included in this copy.

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Introduction

HD 591 S1 was prepared jointly by SC 9XC and TC 14 to face specific aspects of the transformers used in fixed installations of traction systems, which differ from other transformers. In effect transformer standards are mainly dealing with three-phase transformers or single-phase units assembled to a three-phase bank.

Application of such standards to single- or bi-phase transformers as used in traction systems is not evident.

Moreover, EN 61378-1 deals with converter transformers for industrial use which have loading characteristics different from traction transformers for converters.

Therefore HD 591 S1 and this document were set up to clarify such particular aspects.

HD 591 S1 was studied in early ‘90 and published in 1993 and experienced during the period 1993 to 1997. Then, having decided to convert the HD into an EN, the opportunity was taken to revise the document to introduce the improvements that have been found suitable during this trial period.

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