

Rotating electrical machines —

Part 17: Cage induction motors when fed from converters — Application guide

ICS 29.160.30

National foreword

This Draft for Development reproduces verbatim IEC TS 60034-17:2002. It supersedes BS IEC 60034-17:1998 which is withdrawn.

This publication is not to be regarded as a British Standard.

It is being issued in the Draft for Development series of publications and is of a provisional nature because the source document is an IEC Technical Specification which is not an international standard. It should be applied on this provisional basis, so that information and experience of its practical application may be obtained.

Comments arising from the use of this Draft for Development are requested so that UK experience can be reported to the international organization responsible for its conversion into a international Standard. A review of this publication will be initiated 2 years after its publication by the international organization so that a decision can be taken on its status at the end of its three-year life. The commencement of the review period will be notified by an announcement in *Update Standards*.

According to the replies received by the end of the review period, the responsible BSI Committee will decide whether to support the conversion into a international Standard, to extend the life of the prestandard or to withdraw it. Comments should be sent in writing to the Secretary of BSI Technical Committee PEL/2, Rotating electrical machinery, at 389 Chiswick High Road, London W4 4AL, giving the document reference and clause number and proposing, where possible, an appropriate revision of the text.

A list of organizations represented on this committee can be obtained on request to its secretary.

Cross-references

The British Standards which implement international publications referred to in this document may be found in the *BSI Catalogue* under the section entitled “International Standards Correspondence Index”, or by using the “Search” facility of the *BSI Electronic Catalogue* or of British Standards Online.

This Draft for Development, having been prepared under the direction of the Electrotechnical Sector Policy and Strategy Committee, was published under the authority of the Standards Policy and Strategy Committee on 16 August 2002

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**Partie 17:
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alimentés par convertisseurs –
Guide d'application**

Rotating electrical machines –

**Part 17:
Cage induction motors
when fed from converters –
Application guide**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ROTATING ELECTRICAL MACHINES –

**Part 17: Cage induction motors when fed from converters –
Application guide**

FOREWORD

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Technical specifications are subject to review within three years of publication to decide whether they can be transformed into International Standards.

IEC 60034-17, which is a technical specification, has been prepared by IEC technical committee 2: Rotating machinery.

This third edition cancels and replaces the second edition published in 1998 and constitutes a technical revision.

The text of this technical specification is based on the following documents:

Enquiry draft	Report on voting
2/1117A/CDV	2/1157A/RVC

Full information on the voting for the approval of this technical specification can be found in the report on voting indicated in the above table.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 3.

The committee has decided that the contents of this publication will remain unchanged until 2005. At this date, the publication will be

- reconfirmed;
- withdrawn;
- replaced by a revised edition, or
- amended.

The contents of the corrigendum of June 2002 have been included in this copy.

INTRODUCTION

The performance characteristics and operating data for drives with converter-fed cage induction motors are influenced by the complete system, comprising supply system, converter, induction motor, mechanical shafting and control equipment. Each of these components exists in numerous technical types. Any values quoted in this technical specification are thus indicative only.

In view of the complex technical interrelations within the system and the variety of operating conditions, it is beyond the scope and object of this technical specification to specify numerical or limiting values for all the quantities which are of importance for the design of the drive.

To an increasing extent it is practice that drives consist of components produced by different manufacturers. The object of this technical specification is to explain and quantify, as far as possible, the criteria for the selection of components and their influence on the performance characteristics of the drive.