

Rotating electrical machines —

Part 15: Impulse voltage withstand levels of rotating a.c. machines with form-wound stator coils

The European Standard EN 60034-15:1996 has the status of a
British Standard

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Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee PEL/2, Rotating electrical machinery, upon which the following bodies were represented:

- Association of Consulting Engineers
- Association of Electrical Machinery Trades
- Association of Manufacturers of Power Generating Systems
- Electricity Association
- Engineer Surveyors Section of the MSF
- Engineering Equipment and Materials Users' Association
- ERA Technology Ltd.
- Health and Safety Executive
- Institution of Incorporated Executive Engineers
- Institution of Plant Engineers
- Ministry of Defence
- Power Generation Contractors' Association (BEAMA Ltd.)
- Rotating Electrical Machines Association (BEAMA Ltd.)
- United Kingdom Offshore Operators' Association

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National foreword

This British Standard has been prepared by Technical Committee PEL/2 and is the English language version of EN 60034-15:1996 *Rotating electrical machines — Part 15: Impulse voltage withstand levels of rotating a.c. machines with form-wound stator coils*, published by the European Committee for Electrotechnical Standardization (CENELEC). It is identical with IEC 34-15:1995 published by the International Electrotechnical Commission (IEC).

The foreword of the European Standard makes reference to the “date of withdrawal”, dow, of the relevant national standard. In this case the relevant national standard is BS 4999-115:1992 which will be withdrawn on 1996-12-01. Certificates and marks will not be awarded after this date with respect to the withdrawn British Standard. However such certificates and marks, already awarded, may continue to apply to production until 2001-12-01.

Cross-references

Publication referred to	Corresponding British Standard
EN 60034-1:1995 (IEC 34-1:1994)	BS EN 60034 <i>Rotating electrical machines</i> Part 1:1995 <i>Rating and performance</i>
HD 588.1:1991 (IEC 60-1:1989)	BS 923 <i>Guide on high-voltage testing techniques</i> Part 1:1990 <i>General</i>
EN 60071-1:1995 (IEC 71-1:1993)	BS EN 60071 <i>Insulation co-ordination</i> Part 1:1996 <i>Definitions, principles and rules</i>

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Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, the EN title page, pages 2 to 8, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Introduction

IEC 71-1 specifies general requirements for the phase-to-earth insulation of equipment in three-phase a.c. systems and states that each apparatus committee is responsible for specifying the insulation levels and test procedures for its equipment, taking into consideration the recommendations of IEC 71-1. The object of this standard is to specify requirements for rotating electrical machines and experience has shown that the values given in this standard meet the insulation requirements for the essential stresses in service under usual operating conditions. An explanation of the principles adopted in preparing these requirements is given in Annex A.