

FINAL VERSION

VERSION FINALE

**Rotating electrical machines –
Part 8: Terminal markings and direction of rotation**

**Machines électriques tournantes –
Partie 8: Marques d'extrémité et sens de rotation**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

ROTATING ELECTRICAL MACHINES –

Part 8: Terminal markings and direction of rotation

FOREWORD

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This Consolidated version of IEC 60034-8 bears the edition number 3.1. It consists of the third edition (2007-06) [documents 2/1434/FDIS and 2/1451/RVD] and its amendment 1 (2014-03) [documents 2/1732/FDIS and 2/1743/RVD]. The technical content is identical to the base edition and its amendment.

Cette version Finale ne montre pas les modifications apportées au contenu technique par l'amendement 1. Une version Redline montrant toutes les modifications est disponible dans cette publication.

This publication has been prepared for user convenience.

International Standard IEC 60034-8 has been prepared by IEC technical committee 2: Rotating machinery.

The main change with respect to the previous edition is listed below:

- changed terminal markings for d.c. machines in Clause A.4.

This publication has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all the parts of the IEC 60034 series, under the general title *Rotating electrical machines*, can be found on the IEC website.

The committee has decided that the contents of the base publication and its amendment will remain unchanged until the stability date indicated on the IEC web site under "<http://webstore.iec.ch>" in the data related to the specific publication. At this date, the publication will be

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- withdrawn,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

INTRODUCTION

The revision of this part of IEC 60034 provides worldwide uniformity in the electrical connections for rotating electrical machines and applies the recommendations of the basic safety publication IEC 60445 in specifying marking requirements.

These standardized connections will then permit the safe interchange of electric machines with their control and protective devices using standardized terminal markings.

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ROTATING ELECTRICAL MACHINES –

Part 8: Terminal markings and direction of rotation

1 Scope

This part of IEC 60034 applies to a.c. and d.c. machines and specifies

- a) rules for the identification of winding connection points;
- b) marking of winding terminals;
- c) direction of rotation;
- d) relationship between terminal markings and direction of rotation;
- e) terminal marking of auxiliary devices;
- f) connection diagrams of machines for common applications.

Turbine-type synchronous machines are excluded from this standard.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments), applies.

IEC 60034-1, *Rotating electrical machines – Part 1: Rating and performance*

IEC 60417-1, *Graphical symbols for use on equipment – Part 1: Overview and application*

IEC 60445, *Basic and safety principles for man-machine interface, marking and identification – Identification of equipment terminals and conductor terminations*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in IEC 60034-1 and the following apply.

3.1

terminal marking

permanent identification of the external termination of winding leads or auxiliary leads at the disposal of the user for connection of the machine to the supply or apparatus that indicates the function of the termination

3.2

connecting points

all current transfer points that are used to permanently interconnect winding or winding element ends internally