

BS EN 60034-16-1:2011



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Rotating electrical machines -

Part 16-1: Excitation systems for
synchronous machines — Definitions

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National foreword

This British Standard is the UK implementation of EN 60034-16-1:2011. It is identical to IEC 60034-16-1:2011. It supersedes BS EN 60034-16-1:1996, which will be withdrawn on 29 June 2014.

The UK participation in its preparation was entrusted to Technical Committee PEL/2, Rotating electrical machinery.

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

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Amendments issued since publication

Date	Text affected
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English version

**Rotating electrical machines -
Part 16-1: Excitation systems for synchronous machines -
Definitions**
(IEC 60034-16-1:2011)

Machines électriques tournantes -
Partie 16-1: Systèmes d'excitation pour
machines synchrones -
Définitions
(CEI 60034-16-1:2011)

Drehende elektrische Maschinen -
Teil 16-1: Erregersysteme für
Synchronmaschinen -
Begriffe
(IEC 60034-16-1:2011)

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CENELEC

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

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Foreword

The text of document 2/1598/CDV, future edition 2 of IEC 60034-16-1, prepared by IEC TC 2, Rotating machinery, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 60034-16-1 on 2011-06-29.

This European Standard supersedes EN 60034-16-1:1995.

The major technical changes with regard to EN 60034-16-1:1995 are as follows:

Clause or subclause	Change
2.1.1	Additional definition for digital excitation system
2.1.2	Additional definition for reversible excitation system
2.3	Edited definition of excitation control
2.4	Additional definition for excitation control system. Added block diagram of excitation control system
2.17	Additional definition for excitation system negative ceiling voltage U_n
2.19	Edited definition of excitation system on-load ceiling voltage U_{pL}
2.20	Additional definition for excitation system on-load negative ceiling voltage U_{nL}
2.22	Additional definition for excitation system voltage response time
2.23	Additional definition for high initial response excitation system
3.1	Edited definition of rotating exciter
3.1.2	Edited definition of AC exciter
3.2.3	Additional definition for auxiliary winding source static exciter
3.3	Additional definition for pilot exciter
4.1 to 4.7	Edited definitions of control functions

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The following dates were fixed:

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| – latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement | (dop) | 2012-03-29 |
| – latest date by which the national standards conflicting with the EN have to be withdrawn | (dow) | 2014-06-29 |

Endorsement notice

The text of the International Standard IEC 60034-16-1:2011 was approved by CENELEC as a European Standard without any modification.

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