

Distribution automation using distribution line carrier systems —

**Part 3-1: Mains signalling
requirements — Frequency bands and
output levels**

ICS 29.240.20; 33.200

National foreword

This British Standard reproduces verbatim IEC 61334-3-1:1998 and implements it as the UK national standard.

The UK participation in its preparation was entrusted to Technical Committee PEL/57, Power system control and associated communication, which has the responsibility to:

- aid enquirers to understand the text;
- present to the responsible international/European committee any enquiries on the interpretation, or proposals for change, and keep the UK interests informed;
- monitor related international and European developments and promulgate them in the UK.

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Cross-references

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

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de systèmes de communication
à courants porteurs –**

**Partie 3-1:
Prescriptions pour la signalisation sur réseaux –
Bandes de fréquences et niveaux de sortie**

**Distribution automation using distribution line
carrier systems –**

**Part 3-1:
Mains signalling requirements –
Frequency bands and output levels**



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INTERNATIONAL ELECTROTECHNICAL COMMISSION

**DISTRIBUTION AUTOMATION USING
DISTRIBUTION LINE CARRIER SYSTEMS –**

**Part 3-1: Mains signalling requirements –
Frequency bands and output levels**

FOREWORD

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International Standard IEC 61334-3-1 has been prepared by IEC technical committee 57: Power system control and associated communications.

The text of this standard is based on the following documents:

FDIS	Report on voting
57/373/FDIS	57/380/RVD

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

Annex A is for information only.

**DISTRIBUTION AUTOMATION USING
DISTRIBUTION LINE CARRIER SYSTEMS –**

**Part 3-1: Mains signalling requirements –
Frequency bands and output levels**

1 Scope and object

This part of IEC 61334 applies to electrical equipment to be used in distribution line carrier (DLC) systems on both medium-voltage (MV) and low-voltage (LV) distribution networks.

It specifies the requirements (frequency bands, output levels, spurious emissions, etc.) for MV and LV distribution networks respectively.

It specifies disturbance limits in the frequency range from 3 kHz up to 30 MHz. The upper frequency limit has been fixed at 30 MHz according to the CISPR recommendations for conducted disturbances.

It does not specify the signal modulation methods nor the coding methods nor functional features.

Environmental requirements and tests are not included.

NOTE – In most countries the transmission is subject to regulation. Compliance with this standard does not imply permission to establish communication on a public supply network, between public supply networks and consumer installations, or between consumer installations where this would not otherwise be allowed.

The object of this standard is to limit mutual influence between signal transmission equipment in electrical installations and between such equipment and other equipment. In addition, this standard is intended to limit interference caused by signal transmission equipment to sensitive electronic equipment.

In some cases, interference caused by other electrical equipment may lead to misoperation of the mains signalling equipment. Guidance on proper use and warning of improper use are included in the installation and operating instructions supplied with each item of equipment. Where appropriate, a notice is attached securely to each product giving the substance of the following warning:

Mains signalling must not be used to control equipment that could become a hazard to people or property if it inadvertently operates or fails to operate in any way.

2 Normative references

The following normative documents contain provisions which, through reference in this text, constitute provisions of this part of IEC 61334. At the time of publication, the editions indicated were valid. All normative documents are subject to revision, and parties to agreements based on this part of IEC 61334 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.