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SIST EN 60721-3-9:2001

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EUROPEAN STANDARD

EN 60721-3-9

NORME EUROPEENNE

EUROPÄISCHE NORM

September 1993

UDC 621.3:620.193

Descriptors: Electronic components, electrotechnical components, electric equipment, electronic equipment, environment, climate, climatic conditions, classification

ENGLISH VERSION

Classification of environmental conditions
 Part 3: Classification of groups of environmental parameters and their severities
 Section 9: Microclimates inside products
 (IEC 721-3-9:1993)

Classification des conditions
 d'environnement
 Partie 3: Classification des
 groupements des agents
 d'environnement et de leurs
 sévérités
 Section 9: Microclimats à
 l'intérieur des produits
 (CEI 721-3-9:1993)

Klassifizierung von
 Umweltbedingungen
 Teil 3: Klassen von
 Umwelteinflußgrößen
 und deren Grenzwerte
 Hauptabschnitt 9: Mikroklimate
 innerhalb von Erzeugnissen
 (IEC 721-3-9:1993)

SIST EN 60721-3-9:2001

This European Standard was approved by CENELEC on 1993-07-06. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B-1050 Brussels

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FOREWORD

The text of document 75(CO)80, as prepared by IEC Technical Committee N° 75: Classification of environmental conditions, was submitted to the IEC-CENELEC parallel vote in October 1992.

The reference document was approved by CENELEC as EN 60721-3-9 on 6 July 1993.

The following dates were fixed:

- latest date of publication of
an identical national standard (dop) 1994-07-01
- latest date of withdrawal of
conflicting national standards (dow) 1994-07-01

Annexes designated "normative" are part of the body of the standard. Annexes designated "informative" are given only for information. In this standard, annex A is informative and annex ZA is normative.

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ENDORSEMENT NOTICE

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The text of the International Standard IEC 721-3-9:1993 was approved by CENELEC as a European Standard without any modification.

ANNEX ZA (normative)

OTHER INTERNATIONAL PUBLICATIONS QUOTED IN THIS STANDARD
WITH THE REFERENCES OF THE RELEVANT EUROPEAN PUBLICATIONS

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

NOTE : When the international publication has been modified by CENELEC common modifications, indicated by (mod), the relevant EN/HD applies.

IEC Publication	Date	Title	EN/HD	Date
721-1	1990	Classification of environmental conditions - Part 1: Environmental parameters and their severities	HD 478.1 S1	1992
721-2-1	1982	Part 2: Environmental conditions appearing in nature		
A1	1987	Temperature and humidity	HD 478.2.1 S1	1989
721-3-0	1984	Part 3: Classification of groups of environmental parameters and their severities - Introduction		
A1	1987		EN 60721-3-0	1993
721-3-3	1987	Stationary use at weatherprotected locations		
A1	1991		EN 60721-3-3	1993
721-3-4	1987	Stationary use at non-weatherprotected locations		
A1	1991		EN 60721-3-4	1993

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**NORME
INTERNATIONALE
INTERNATIONAL
STANDARD**

**CEI
IEC
721-3-9**

Première édition
First edition
1993-07

Classification des conditions d'environnement

Partie 3:

Classification des groupements des agents
d'environnement et de leurs sévérités

Section 9: Microclimats à l'intérieur des produits

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International Electrotechnical Commission
Международная Электротехническая Комиссия

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

CLASSIFICATION OF ENVIRONMENTAL CONDITIONS

Part 3: Classification of groups of environmental parameters
and their severities

Section 9: Microclimates inside products

FOREWORD

- 1) The IEC (International Electrotechnical Commission) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of the IEC is to promote international cooperation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, the IEC publishes International Standards. Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. The IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
- 2) The formal decisions or agreements of the IEC on technical matters, prepared by technical committees on which all the National Committees having a special interest therein are represented, express, as nearly as possible, an international consensus of opinion on the subjects dealt with.
- 3) They have the form of recommendations for international use published in the form of standards, technical reports or guides and they are accepted by the National Committees in that sense.
- 4) In order to promote international unification, IEC National Committees undertake to apply IEC International Standards transparently to the maximum extent possible in their national and regional standards. Any divergence between the IEC Standard and the corresponding national or regional standard shall be clearly indicated in the latter.
- 5) The IEC provides no marking procedure to indicate its approval and cannot be rendered responsible for any equipment declared to be in conformity with one of its standards.

International Standard IEC 721-3-9 has been prepared by IEC technical committee 75: Classification of environmental conditions.

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

DIS	Report on Voting
75(CO)80	75(CO)99

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

IEC 721 consists of the following parts, under the general title *Classification of environmental conditions*:

- Part 1: 1990, Environmental parameters and their severities
- Part 2, Environmental conditions appearing in nature
- Part 3, Classification of groups of environmental parameters and their severities.

Annex A is for information only.