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Classification of environmental conditions

Part 4-3: Guidance for the correlation and transformation of environmental condition classes of IEC 60721-3-3 to the environmental tests of IEC 60068 — Stationary use at weatherprotected locations

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The UK participation in its preparation was entrusted to Technical Committee GEL/104, Environmental conditions, classification and testing.

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

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CONTENTS

FOREWORD 3
INTRODUCTION 5
1 Scope 6
2 Normative references 6
3 Terms and definitions 6
4 General 7
4.1 General remarks concerning IEC 60721-3-3 7
4.2 General remarks concerning the IEC 60068-2 series 7
4.3 Recommended test procedures and severities 7
4.4 Environmental tests for in-use classes 7
4.5 Test durations 8
4.6 Ambient 8
5 Climate conditions, classes 3K20 to 3K24 from IEC 60721-3-3 8
5.1 Class 3K20 (fully air-conditioned enclosed locations) 8
5.2 Class 3K21 (continuously temperature-controlled enclosed locations) 8
5.3 Class 3K22 (temperature-controlled enclosed locations) 10
5.4 Class 3K23 (enclosed locations having no temperature or humidity control) 12
5.5 Class 3K24 (enclosed locations having neither temperature nor humidity control) 14
6 Special climate conditions, classes 3Z12 to 3Z14 from IEC 60721-3-3 16
7 Biological conditions, classes 3B1 to 3B3 from IEC 60721-3-3 16
8 Mechanical conditions, classes 3M10 to 3M12 from IEC 60721-3-3 17
Annex A (informative) Interdependence of air temperature, relative air humidity, and absolute air humidity 18
Bibliography 19

Figure A.1 – Climatogram of interdependence of air temperature, relative air humidity, and absolute air humidity 18

Table 1 – Class 3K21 (continuously temperature-controlled enclosed locations) 8
Table 2 – Class 3K22 (temperature-controlled enclosed locations) 10
Table 3 – Class 3K23 (enclosed locations having no temperature or humidity control) 12
Table 4 – Class 3K24 (enclosed locations having neither temperature nor humidity control) 14
Table 5 – Class 3Z12 to 3Z14 16
Table 6 – Class 3B1 to 3B3 16
Table 7 – Class 3M10 to 3M12 17

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CLASSIFICATION OF ENVIRONMENTAL CONDITIONS –

Part 4-3: Guidance for the correlation and transformation of environmental condition classes of IEC 60721-3 to the environmental tests of IEC 60068 – Stationary use at weatherprotected locations

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IEC TS 60721-4-3 has been prepared by IEC technical committee 104: Environmental conditions, classification, and methods of test. It is a Technical Specification.

This first edition cancels and replaces IEC TR 60721-4-3:2001 and IEC TR 60721-4-3:2001/AMD1:2003. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to IEC TR 60721-4-3:2001 and IEC TR 60721-4-3:2001/AMD1:2003:

a) the document has been totally reworked;

b) all figures have been removed, except in Annex A;

c) severities have been aligned with those of IEC 60721-3-3:2019.

The text of this Technical Specification is based on the following documents:

Draft	Report on voting
104/977/DTS	104/1014/RVDTS

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

The language used for the development of this Technical Specification is English.

This document was drafted in accordance with ISO/IEC Directives, Part 2, and developed in accordance with ISO/IEC Directives, Part 1 and ISO/IEC Directives, IEC Supplement, available at www.iec.ch/members_experts/refdocs. The main document types developed by IEC are described in greater detail at www.iec.ch/publications.

A list of all parts in the IEC 60721 series, published under the general title *Classification of environmental conditions*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under webstore.iec.ch in the data related to the specific document. At this date, the document will be

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

INTRODUCTION

It is essential to emphasize the guidance nature of this document since it is virtually impossible to specify mandatory requirements for worldwide use. However, for those cases which require different tests from those recommended in this document, the guidance given should establish principles and methodology to determine alternative tests.

The reasons for correlation are provided to enable specification writers to modify a test if their application warrants it.

CLASSIFICATION OF ENVIRONMENTAL CONDITIONS –

Part 4-3: Guidance for the correlation and transformation of environmental condition classes of IEC 60721-3 to the environmental tests of IEC 60068 – Stationary use at weatherprotected locations

1 Scope

This part of IEC 60721 deals with the correlation and transformation of the conditions given in IEC 60721-3-3 to the environmental test procedures defined in IEC 60068-2.

This document provides test procedures and test severities for electrotechnical equipment operated at stationary weatherprotected locations for the product classes set out in IEC 60721-3-3.

An environment can consist of several environmental conditions such as dynamic, climatic, and biological, and other effects due to chemically and mechanically active substances. In this document, dynamic, air pressure, biological and climatic conditions have been considered.

The purpose of this document is to provide the specification writer with guidance together with a set of easy-to-use tables which correlate and transform these environmental conditions.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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 60068-1:2013, *Environmental testing – Part 1: General and guidance*

IEC 60721-1, *Classification of environmental conditions – Part 1: Environmental parameters and their severities*

IEC 60721-3-3:2019, *Classification of environmental conditions – Part 3-3: Classification of groups of environmental parameters and their severities – Stationary use at weatherprotected locations*

3 Terms and definitions

For the purposes of this document, the terms and definitions given IEC 60721-1 and the following apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- IEC Electropedia: available at http://www.electropedia.org
- ISO Online browsing platform: available at http://www.iso.org/obp

3.1
enclosed location
location at which a product is protected from direct exposure to meteorological conditions