

ICS 19.020
CCS A 21



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 20159.8-2008

**Classification of environmental conditions -- Guidance for the
correlation and transformation of environmental condition
classes to the environmental tests -- Introduction**

环境条件分类 环境条件分类与环境试验之间的关系及转换指南 导言
(English Translation)

Issued on: December 30, 2008

Implemented on: October 1, 2009

Issued by: Standardization Administration of China

Table of Contents

Introduction

Introduction

1 Purpose and scope

2 Normative references

3 2 Overview

3.1 Pairs of GB/T 4798 General Description

3.2 Pairs of GB/T 2423 General Description

3.3 Pairs of GB/T 20159 General Note

3.4 Purpose and Application Test

3.5 Environmental Testing

3.6 Recommended Test

4 GB/T 20159 used in the interpretation of the terms

4.1 Climate

4.2 6 Nearby

4.3 Correlation

6 4.4 Conversion

4.5 Environmental conditions

4.6 Environmental Test severities

6 4.7 Products

4.8 Slope (used in mechanical condition table, stationary random vibration)

4.9 Level

5 6 Environmental Testing

5.1 Special Products

5.2 Failure Mechanism

5.3 Compliance Criteria

5.4 Severities and test methods

5.5 Test Program

5.6 Test selection

5.7 Test under conditions of storage and transport of

5.8 Use during environmental testing

5.9 Test duration

5.10 Test Set

5.11 Test sequence and test compound

Example 6 Conversion Guide

6.1 Solar radiation

6.2 Thermal radiation

6.3 Vibration Test

Foreword

GB/T 20159 "between the environmental conditions classification Classification of environmental conditions and environmental tests Relationship and Conversion Guide" currently contains the following if Cadre points.

- GB/T 20159.1 storage
- GB/T 20159.2 transport
- GB/T 20159.3 weather protected locations fixed use
- GB/T 20159.4 climate protection without the use of a fixed place
- GB/T 20159.5 ground transportation vehicles
- GB/T 20159.6 Marine
- GB/T 20159.7 portable and non-stationary use
- GB/T 20159.8 INTRODUCTION this is Part 8 GB/T 20159 of.

This section identical with IEC TR60721-4-0:2002 "Classification of environmental conditions Part 4-0. GB/T 4798 points in the environmental conditions Classes and GB/T 2423 in the relationship between the environmental testing and Conversion Guide Introduction "(in English).

Taking into account the actual situation in China, this part of IEC TR60721-4-0 made the following editorial changes.

- "IEC 60721 Part" was changed to "GB/T 20159 in this section";
- The "Technical Report" to "this Part";
- Cited international standards of our standards, rather than international standards, and change the order in which to fit the national conditions of China;
- Remove the IEC 60721-4-0 foreword;
- Increase the national standard foreword;
- Added Appendix NA.

Appendix NA This section is informative appendix.

This part of the National Environmental conditions for electric and electronic products and environmental technology Standardization Technical Committee (SAC/TC8) and proposed Centralized.

This part mainly drafted by. Guangzhou Electric Apparatus Research Institute, Shanghai Institute of Industrial Automation Instrumentation.

Introduction

Environmental exposure to typical products typically include a number of environmental conditions, GB/T 4798 provisions of these conditions were divided into climate , Mechanical, biological and other chemical effects due to the active substance and the bioactive substance-induced. GB/T 20159 considers only the gas Weather conditions and mechanical conditions.

In this section, references to the following series of criteria.

GB/T 4798 Application of electric and electronic products environmental conditions GB/T 20159 Classification of environmental conditions between the Classification of environmental conditions and environmental tests Relations and Conversion Guide Parties to research agreement to use the latest versions of these documents. For undated references, the latest version applies to this Part Minute.

GB/T 2421-1999 Environmental testing for electric and electronic products - Part 1 General (idt IEC 60068-1. 1988) GB/T 2423 (all parts, details see Appendix NA.1) GB/T 2423.10-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test Fc and guidance. Vibration (n Chord) (IEC 60068-2-6:1995, IDT) GB/T 2423.24-1995 Environmental testing for electric and electronic products Part 2. Test methods - Test Sa. too on the analogue terrestrial Solar radiation (idt IEC 60068-2-5. 1975) GB/T 2423.56-2006 Environmental testing for electric and electronic products Part 2. Test methods - Test Fh. Broadband random vibration (Digital control) and guidance (IEC 60068-2-64:1993, IDT) GB/T 4797 (all parts, details see Appendix NA.2) GB/T 4797.1 electric and electronic products natural environmental conditions of temperature and humidity (GB/T 4797.1-2005, IEC 60721-2-1.

1982, IDT)

GB/T 4797.2 electric and electronic products natural environmental conditions - Part 2. Altitude and air pressure, water depth and water pressure (GB/T 4797.2-2005, IEC 60721-2-3. 1987, MOD) GB/T 4797.4 electric and electronic products natural conditions of solar radiation and temperature (GB/T 4797.4-2006, IEC 60721-2-4. 1982, IDT) GB/T 4798 (all parts, details see Appendix NA.3) GB/T 4798.1 application of electric and electronic products environmental storage conditions (GB/T 4798.1-2005, IEC 60721-3-1:1997, MOD)

GB/T 4798.2 application of electric and electronic products environmental conditions of transport (GB/T 4798.2-2008, IEC 60721-3-2:1997, GB/T 20159.8-2008/IEC TR60721-4-0:2002