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

GB/T 22697.1-2008

**The risk assessment for the temperatures of hot surfaces of
electrical equipments to be touched - Part 1: General
requirements**

电气设备热表面灼伤风险评估 第1部分：总则

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Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and definitions 4 burns Risk Assessment	3
4.1 assessment process	3
4.2 determine the type of surface	3
4.3 Task Analysis	4
4.5 Threshold	4
4.6 Comparison of surface temperature and burns threshold value	4
5 File Save 5	7

Foreword

GB/T 22697 "Electrical Equipment of hot surfaces Risk Assessment" is divided into three parts.

--- Part 1. General;

--- Part 2. burn threshold;

--- Part 3. protective measures. This section is GB/T Part of 122,697. Referring to the development of this part of the CENELEC Guide 29.2007 "Electrical equipment may contact the hot surfaces of the risk assessment." This part of the National Electrical Safety Standardization Technical Committee (SAC/TC25) and focal points. This part mainly drafted by: Electrical Machinery Industry Beijing Technology and Economy Institute, Shanghai Electric Tool Research Institute, Shanghai Electrical Apparatus Research Institute The study (Group) Co., Ltd., Schneider Electric (China) Investment Co., Ltd. The main drafters of this section. Zeng Yan Hong, Liu Jiang, Ji Yu Hui, Fang Xiaoyan, Libang Association, leather bag, where only the husband, Zhang Liang, Zhang Ping. This section first release. Electrical equipment of hot surfaces Risk Assessment Part 1. General

1 Scope

GB/T 22697.1-2008 is the Chinese national standard on the risk assessment for the temperatures of hot surfaces of electrical equipments to be touched - part 1: general requirements, in the field of electrical engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers

meet it. It was issued on 31 December 2008 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 1 November 2009. Classification: ICS 29.020, CCS K09. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

This section presents terms and definitions hot surfaces of electrical equipment risk assessment, risk assessment burns, burns threshold, protective measures and Regulations and other documents. This section for AC rated voltage 1000V and below, DC rated voltage 1500V and below the various types of electrical equipment, where possible, Burns body touched the hot surface of the device proposed risk assessment guidance; also proposed under the potential risk of burns cases, take General principles of protection measures, and the selection burns threshold. This section does not apply surface following types of electrical equipment.

- Hot functional surface;
- Adjacent surfaces;
- Joystick control knob (includes a keypad, keyboard, etc.);
- Can not come into contact with the surface.

Note. Under normal circumstances, according to the product standards can prevent the risk of burns. If the product is not considered standard in the foreseeable use may come into contact with The surface temperature of the product, or no relevant product standards, the manufacturers need to conduct a risk assessment of their products.

2 Normative references

The following documents contain provisions which, through reference

GB/T 22697 in this section constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

GB/T 16842 protective shell for inspection and test equipment used with (GB/T 16842-2008, IEC 61032.1997, IDT)

GB/T 22697.2-2008 Electrical equipment of hot surfaces Risk assessment - Part 2. burns threshold

GB/T 22697.3 Electrical equipment of hot surfaces Risk assessment - Part 3. Protection

Measures

3 Terms and Definitions

The following terms and definitions apply to this part of the GB/T 22697 of.

3.1 T_s The ambient temperature is 25 °C (with tolerance. -5 °C ~ 0 °C), measured surface temperature of the unit is °C.

3.2 Time in contact with the surface.

3.3 Material density, thermal conductivity and specific heat capacity of the product.