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Safety Requirements for the Installation, Operation and Maintenance of Household and Similar Electrical Appliances

家用和类似用途电器安装、使用、维修安全要求

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Safety Requirements for the Installation, Operation and Maintenance of Household and Similar Electrical Appliances

1 Scope

This Standard stipulates the safety requirements for the installation, operation and maintenance of household and similar electrical appliances.

This Standard is applicable to household and similar electrical appliances.

In terms of appliances operated under special environment, additional requirements might be needed.

2 Normative References

Through the reference in this Standard, clauses of the following documents become clauses of this Standard. In terms of references with a specific date, all the subsequent modification sheets (excluding the corrected content) or the revised editions are not applicable to this Standard. However, all parties that reach an agreement in accordance with this Standard are encouraged to explore the possibility of adopting the latest version of these documents. In terms of references without a specific date, the latest version is applicable to this Standard.

GB 1002 *Single Phase Plugs and Socket-outlets for Household and Similar Purposes - Types, Basic Parameters and Dimensions*;

GB 2099.1 *Plugs and Socket-outlets for Household and Similar Purposes - Part 1: General Requirements* (GB 2099.1-2008, IEC 60884-1:2006, MOD);

GB/T 3187 *Reliability and Maintainability Terms* (GB/T 3187-1994, IEC 60050-191:1991, IDT);

GB 4208 *Degrees of Protection Provided by Enclosure (IP Code)* (GB 4208-2008, IEC 60529:2001, IDT);

GB 4706.1 *Household and Similar Electrical Appliances - Safety - Part 1: General Requirements* (GB 4706.1-2005, IEC 60335-1:2001, IDT)

3 Terms and Definitions

The following terms and definitions are applicable to this Standard.

Main terminal;

Grounding electrode;

Power grounding point or artificial neutral point.

NOTE: protective grounding may be expressed in symbol  or PE ; be distinguished through stipulated colors.

3.8 Place without Hazard of Indirect Electric Shock

Place without hazard of indirect electric shock means it is impossible for people in this place to simultaneously touch the exposed live part and any external live part (including the ground and the wall) of a certain electrical appliance, or, simultaneously touch the exposed live part of two electrical appliances. Protective grounding is strictly prohibited in this place.

3.9 Qualified Person

Qualified person refers to person who has received professional and standardized trainings, has specialized knowledge and skills, and capable of identifying possible hazards of appliances being installed and maintained; or, person who has professional qualifications.

4 Classification of Appliances

4.1 Classification by Mode of Electric Shock Protection

Type-0 appliances

Type-0 I appliances

Type- I appliances

Type-II appliances

Type-III appliances

4.2 Classification by Degrees of Protection Provided by Enclosure

The specific requirements of various degrees are shown in GB 4208 *Degrees of Protection Provided by Enclosure*. In terms of household and similar electrical appliances, the following degrees are recommended:

6.8 In installation, firstly, examine user's safe utilization of electric power. The main items of this examination include: correct and reliable connection of the live wire and naught wire of power outlet; reliability of the grounding system; whether switch, electric meter capacity, power line load and the selection of line materials and specifications comply with the standard requirements, etc. If potential safety hazards are found, immediately propose it to the user; suggest the user to adopt countermeasures as soon as possible. If power supply needs to be modified, obtain the user's consent, then, implement it by personnel with electrical work qualification.

6.9 In terms of appliances that need to drill holes on the wall, before installation, thoroughly examine and understand the direction of water pipes and electric wires in the wall. The drilling shall avoid the locations of water pipes and electric wires in the wall; prevent from destroying the building's load-bearing structure.

6.10 During the installation of appliances, welding and cutting of metals shall not be conducted on the site.

6.11 After the installation of appliances is completed, conduct electrical installation inspection on the installed appliances and power supply.

7 Operation of Appliances

7.1 Operators of appliances shall meticulously read and understand the instructions for use; operate the appliances in accordance with the requirements in the instructions for use.

7.2 Power plugs of appliances shall be completely inserted into a fixated power outlet. In addition, guarantee the proper contact between the power plugs and the outlet.

7.3 When power outlet terminal board needs to be used, power outlet terminal board that complies with the requirements in GB 2099.1 shall be used. The total rated current value of the connected appliances shall not exceed the rated current value of the previous fixated outlet or circuit.

7.4 Power shall not be introduced from lamp cap with outlet and supplied to appliances.

7.5 In terms of appliances without automatic control, when personnel leave the site, the power shall be cut off.

7.6 Appliances that would generate high temperature in operation shall not be placed near flammable and explosive articles, or similar environment.

7.7 When appliances manifest abnormal noise, odor, temperature or failure, immediately stop using them; turn off the switch; cut off the power supply.

7.8 Operators shall not disassemble appliances, or, alter the internal wiring,

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