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GB 4706.89-2008 / IEC 60335-2-79:1995

**Household and Similar Electrical Appliances –
Safety – Particular Requirements
for High Pressure Cleaners and Steam
Cleaners, for Industrial and Commercial Use**

(IEC 60335-2-79:1995, IDT)

家用和类似用途电器的安全工业和

商用高压清洁剂与蒸汽清洁器的特殊要求

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Table of Contents

Foreword.....	4
IEC Foreword.....	6
1 Scope	9
2 Definitions	9
3 General Requirement	11
4 General Conditions for the Tests	11
5 Void	12
6 Classification	12
7 Marking and Instructions	13
8 Protection against Access to Live Parts	15
9 Starting of Motor-Operated Appliances	16
10 Input Power and Current	16
11 Heating	16
12 Void	17
13 Leakage Current and Dielectric Strength at Operating Temperature	17
14 Void	18
15 Moisture Resistance	18
16 Leakage Current and Electric Strength	19
17 Overload Protection of Transformers and Associated Circuits	19
18 Endurance	19
19 Abnormal Operation	20
20 Stability and Mechanical Hazards	23

21	Mechanical Strength.....	24
22	Construction	25
23	Internal Wiring	28
24	Components.....	28
25	Supply Connection and External Flexible Cords	29
26	Terminals for External Conductors	30
27	Provisions for Earthing	30
28	Screws and Connections.....	30
29	Creepage Distances, Clearances and Distances through Insulation.....	30
30	Resistance to Heat, Fire and Tracking	30
31	Resistance to Rusting	30
32	Radiation, Toxicity and Similar Hazards	30
	Figures.....	31
	Appendix A (Normative) Normative References.....	33

Foreword

All technical contents in this Part of GB 4706 are mandatory.

This Part equivalently adopted IEC 60335-2-79:1995 *Household and Similar Electrical Appliances – Safety – Part 2: Particular Requirements for High Pressure Cleaners and Steam Cleaners, for Industrial and Commercial Use*. (1995) Version I, No.1 Amendment (2000).

This Part shall be used in conjunction with GB 4706.1-1998 *Safety of Household and Similar Electrical Appliances - Part 1: General Requirements*.

The clearly-written “Applicable” part in this Part indicates that the corresponding clauses and sub-clauses in GB 4706.1-1998 are applicable; the clearly-written “Replacement” part in this Part shall be subject to the clauses and sub-clauses in this Part; the clearly-written “Modification” part in this Part indicates the relevant contents of the corresponding clauses and sub-clauses in GB 4706.1-1998 shall be subject to the modified contents of this Part, while other contents of such clauses and sub-clauses are still applicable; the clearly-written “Addition” part in this Part indicates in addition to conform to the corresponding clauses and sub-clauses in GB 4706.1-1998, it also conforms to the additional clauses and sub-clauses in this Part.

In order to be consistent with the provisions of the international Electrotechnical Commission (IEC), the pressure units in this Part retain the pressure unit (bar) in the original document and enclosed in the brackets as adopt the Internal System of Units (Pa), and the former (bar) is placed after the latter (Pa).

Additionally, in order to comply with the national symbol usage rules, use the symbols to modify the formula in the original text of 22.106 in this Part as follows: modify the

original formula “ $W = \sqrt{200 \times \Delta P}$ ” where: W is outlet speed of water, m/s; ΔP is rated

pressure, bar.” into “ $v = \sqrt{0.002 \times \Delta P}$ ” where: v is outlet speed of water, m/s; ΔP is rated

pressure, Pa.” Thereof, the Coefficient 200 is modified into $200/10^5=0.002$ according to the unit change of rated pressure. Similarly, modify the original formula in 22.106 of

“ $F = \frac{W \times Q}{60}$ ” into “ $F = \frac{v \times Q}{60}$ ”; while the formula in the original text of “ $T = F \times l \times \sin \alpha$ ”

is modified into “ $M = F \times l \times \sin \alpha$ ” (torque symbol T is replaced by M).

The non-heading bold in the text of this Part is defined in Clause 2.

The appendix attributes of this Part shall be subject to the provisions of appendix attributes in GB 4706.1-1998.

The additional sub-clauses, notes and figures in this Part shall be started numbering from 101.

This Part was proposed by China Light Industry Council.

This Part shall be under the jurisdiction of Commercial Electric Dietary Processing Service Equipment Subcommittee of National Technical Committee for Standardization of Automatic Electric Control for Household.

Drafting organizations of this Part: Beijing Service Machinery Research Institute, and Zhejiang Gongshang University.

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Household and Similar Electrical Appliances – Safety – Particular Requirements for High Pressure Cleaners and Steam Cleaners, for Industrial and Commercial Use

1 Scope

This clause of GB 4706.1-19981 is applicable except as follows:

Addition:

This Part applies to high pressure cleaners having a pressure not less than 25×10^5 Pa (25 bar) and not more than 250×10^5 Pa (250 bar) with an input to the drive for the high-pressure pump not exceeding 10 kW. It also applies to steam cleaners having a usable volume of the water container equal to or greater than 1.5L even if the pressure is less than 25×10^5 Pa (25 bar).

This Part also applies to fixed appliances within the limits of the previous paragraph.

It is also applicable to appliances making use of other forms of energy for the motor; but it is necessary that their influence is taken into consideration.

Modification:

Replace the first two dashed paragraphs of note 3 by:

- appliances that are incorporated in process equipment;
- appliances intended to be used in locations where special conditions prevail, such as the presence of corrosive or explosive atmosphere (vapor or gas).

2 Definitions

This clause of GB 4706.1-1998 is applicable except as follows:

2.2.9 Such sub-clause is replaced as follows:

Normal operation

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