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Methods used to designate model of controls for household and similar use

家用和类似用途控制器产品型号编制方法

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Methods used to designate model of controls for household and similar use

1 Scope

This document specifies the method for product classification and model designation of controls for household and similar use (including intelligent controls and non-intelligent controls).

This document is suitable to designate the models of controls for household and similar use (including intelligent controls and non-intelligent controls) for the purposes of scientific research, design, production, as well as the product selection by the user.

2 Normative references

The contents of the following documents constitute the indispensable clauses of this document, through normative references in the text. Among them, for dated reference documents, only the version corresponding to that date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 14536.1-2008 Automatic electrical controls for household and similar use - Part 1: General requirements

GB/T 17499 Microcomputer control for household washing machine

GB/T 22684 Motor-type programme controls for household and similar use

GB/T 22686 Pressure thermal cut-outs for household and similar use of manual reset type

GB/T 22687 Bimetal temperature controls for household and similar use

GB/T 22688 Pressure-type temperature controls for household and similar use

GB/T 22762 Built-in thermal protectors for electrical machines of household and similar use

GB/T 35722.1-2017 Intelligent automatic electrical controls system for household appliances and similar use - Part 1: General requirements

3.3

Perception

The ability and process to receive and transform information.

[Source: GB/T 28219-2018, 3.2]

3.4

Component

A collective term for each independent part of the intelligent appliance system.

[Source: GB/T 28219-2018, 3.11]

3.5

Intelligent appliances

Household or similar household appliances, that have network communication capabilities, use one or more intelligent technologies, have one or more intelligent characteristics.

[Source: GB/T 35722.1-2017, 3.3]

3.6

Intelligent automatic electrical control system

A device which is in the intelligent appliances OR used in conjunction with intelligent appliances or intelligent appliance systems; has network communication capabilities; can obtain information about intelligent appliances or intelligent appliances systems; is used to change the output of intelligent appliances or intelligent appliances system, through the human-computer interaction interface. It includes three parts: excitation, transmission, operation.

[Source: GB/T 35722.1-2017, 3.1]

3.7

Liquid level operating control

A level sensitive control which, when the equipment is operating normally, limits the liquid level to be higher than or lower than a certain specified level, OR limits the liquid level between a certain higher level and lower level.

An electric control which, to start single-phase motors for household appliances and similar use, is integrated with electrical appliances OR incorporated into electrical appliances; is used in the motor circuit, to control the connections, between the main winding and the auxiliary starting winding.

3.16

Protector

Components, that prevent equipment or persons from being harmed, by abnormal temperature, current, or voltage.

3.17

Overcurrent protector

A protector, which is connected in series with the protection object, to prevent its overcurrent.

3.18

Overload protector

A protector, which is connected in series with the circuit of the protection object, to prevent overload of the protection object.

3.19

Pressure-type temperature control

A temperature control which -- through the closed temperature bulb and capillary tube, that are filled with temperature-sensitive working medium -- converts the change of the controlled temperature into the change of the pressure or volume of the enclosed space; when reaching the temperature setting value, uses the elastic element and the fast instantaneous mechanism, to automatically open and close the contact or damper, thereby achieving automatic temperature control.

Note: It is composed of three parts: the temperature sensing part, the temperature setting main part, the micro switch for opening and closing or the automatic damper.

[Source: GB/T 22688-2008, 3.1.1, with modification]

3.20

Bimetal temperature control

A periodic temperature-sensitive control, which is made of two different

[Source: JB/T 6739.2-2015, 3.1]

3.24

Timer

A time base control, that needs to be started, before the next cycle occurs.

[Source: GB/T 14536.1-2008, 2.2.13]

3.25

Program control

A device designed for household appliances which, according to a preset program, switch the control circuit, to make the appliance automatically finish each program, when the time reaches the preset value.

3.26

Water inlet solenoid valve for automatic washing machine

A control valve which, designed for automatic washing machines, uses electromagnetic components to control the water intake.

3.27

Electromagnetic 4 way reversing valve for household and similar purposes

A valve which, designed for household and similar electrical appliances, is composed of a pilot valve, a main valve, a solenoid coil, etc. Through the movement of a slider, which is controlled by the pilot valve, it achieves the purpose of changing the direction of refrigerant flow.

[Source: JB/T 8592-2013, 3.1]

3.28

Water level pressure switch for automatic washing machine

A pressure-type liquid level shut-off device, which is designed for automatic washing machines, to control the predetermined water level.

3.29

Intelligent automatic electrical control for room air conditioner

A device, which is connected to the network system; has network

3.35

Intelligent automatic electrical control for water heater

A device, which has network communication capability; can obtain the water heater's system information, water temperature, water pressure and other information; is used to change the output of the water heater system, through human-computer interaction.

3.36

Intelligent automatic electrical control for washing machine

A device, which has network communication capability; can obtain washing machine's system information and clothing information; is used to change the output of the washing machine system, through human-computer interaction.

3.37

Intelligent automatic electrical control for dishwasher

A device, which has network communication capabilities; can obtain the system information of the dishwasher AND the information of washed articles; is used to change the output device of the dishwasher system, through the human-computer interaction.

3.38

Intelligent automatic electrical control for robot vacuum cleaners

A device, which has network communication capabilities; can obtain robot system information; is used to change the robot's system output, through human-computer interaction.

3.39

Intelligent automatic electrical control for range hoods

A device, which has network communication capability; can obtain the system information of the range hood AND the concentration of fume; is used to change the output of the range hood system, through human-computer interaction.

3.40

Intelligent automatic electrical control for gas stove

3.46

Intelligent automatic electrical control for toaster

A device, which has network communication capabilities; can obtain the system information AND bread state, etc., of the toaster; is used to change the output of the toaster system, through human-computer interaction.

4 Classification of control product

4.1 Non-intelligent control

4.1.1 Temperature sensitive control

Temperature sensitive controls are divided into:

a) Pressure-type temperature control;

b) Bimetal temperature control;

c) Pressure thermal cut-outs of manual reset type;

d) Built-in thermal protectors for electrical machines of household and similar use;

e) Overload protector for small hermetic refrigeration motor-compressor.

4.1.2 Starter

The starter is divided into:

a) Positive temperature coefficient thermistor starting relay for mini-type totally enclosed refrigeration motor-compressor;

b) Current-type start relay for mini-type totally enclosed refrigeration motor-compressor.

4.1.3 Time base control

The time base control is divided into:

a) Household electric washing machine timer-clockwork timer;

b) Household electric washing machine timer-electric motor timer;

c) Motor-type program controls for household and similar purposes;

d) Computer program control for household washing machine.

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