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**TEXTILE INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

FZ/T 99015-2020

**Technical regulations of general textile electric-driving control
gear
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces FZ/T 99015-1998 "Technical Specification for Textile General Electronic Control Equipment". This standard is in line with FZ/T 99015-1998 Compared with the editorial changes, the main technical changes are as follows.

- The content of the standard has been reorganized and arranged (see table of contents);
- Search for new and modify cited documents (see Chapter 2);
- Added terms and definitions (see Chapter 3);
- According to the design and manufacturing requirements, re-enter the content of Chapter 5 in accordance with the model, logo, general requirements, control cabinet, and electrical performance indicators Arranged (see Chapter 5);
- Added the content of the control function (see 5.3.8);
- Modified the content of electrical performance indicators (see 5.5);
- Modified the content of electrical clearance and creepage distance (see 6.4);
- Added reliability indicators (see Chapter 7) and test methods (8.1.11);
- Add new test methods for electrical clearance and creepage distance (see 8.1.4), and protection of the connection circuit continuity (8.1.5);
- Modified a number of test methods (see 8.1.6, 8.1.7, 8.1.9, 8.1.10, 8.1.12, 8.1.13, etc.);
- Deleted the low-voltage current test content (see 7.7 of the 1998 edition);
- Deleted the high temperature storage test (see 7.12 in the 1998 edition) and the ambient temperature performance test (see 7.13 in the 1998 edition);
- Deleted the vibration test (see 7.15 in the 1998 edition) and transportation test (see 7.18 in the 1998 edition);
- Edited several contents;
- Refer to Appendix A for the comparison of the revised clauses.

This standard was proposed by the China National Textile and Apparel Council.

This standard is under the jurisdiction of the National Textile Machinery and Accessories Standardization Technical Committee (SAC/TC215), and the national industrial machinery electrical system standard the Sub-Technical Committee of Textile Machinery Electrical System (SAC/TC231/SC1) of the Standardization Technical Committee is under the professional jurisdiction.

Drafting organizations of this standard. Qingdao Hongda Textile Machinery Co., Ltd., Beijing Jingwei Textile Machinery New Technology Co., Ltd., Zhejiang Kangli Automatic Control Technology Co., Ltd., Jingwei Shunyi Textile Machinery Technology (Dongtai) Co., Ltd., Shaanxi Changling Textile Electromechanical Technology Co., Ltd., Zhejiang Fangzheng Light Textile Machinery Testing Center Co., Ltd., Shaoyang Textile Machinery Co., Ltd., Shandong Rifa Textile Machinery Co., Ltd., Tianjin Hongda Textile Branch Technology Co., Ltd., Hongda Research Institute Co., Ltd., Ningbo Hongda Textile Instrument Co., Ltd., Zhejiang Sanhe Intelligent Technology Co., Ltd.

1 Scope

This standard specifies the working conditions, design and manufacturing, safety and electromagnetic compatibility, reliability, test methods and Inspection rules, technical data, packaging, transportation and storage.

This standard applies to general-purpose electrical control equipment for textiles installed indoors. The electrical control equipment discussed in this standard is derived from the power supply of mechanical electrical equipment.

The entrance begins. Its rated voltage does not exceed 1000V (ac) or 1500V (dc), and its rated frequency does not exceed 200 Hz. For higher power for pressure or frequency, refer to this standard.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 156 standard voltage GB/T 762 standard current rating GB/T 1980 standard frequency GB/T 2423.1 Environmental testing of electric and electronic products Part 2: Test method Test A. Low temperature GB/T 2423.2 Environmental testing of electrical and electronic products Part 2: Test method Test B. High temperature GB/T 2423.3 Environmental Test Part 2: Test Method Test Cab. Constant Damp Heat Test GB/T 2423.8 Environmental testing of electrical and electronic products Part 2: Test method Test Ed free drop GB/T 3797-2016 Electrical control equipment GB 4208-2008 Shell protection grade (IP code) GB/T 4728 Graphical symbols for electrical diagrams GB/T 5226.1-2019 Electrical safety of machinery Part 1: General technical conditions GB/T 7111.1 Textile

Machinery Noise Test Specification Part 1: General Requirements GB/T 17626.2-2018
Electromagnetic compatibility test and measurement technology Electrostatic discharge
immunity test GB/T 17626.4-2018 Electromagnetic compatibility test and measurement
technology Electrical fast transient pulse group immunity test GB/T 17626.11-2018
Electromagnetic compatibility test and measurement technology Voltage sag, short-term
interruption and voltage change immunity test GB/T 29482.1-2013 Industrial Machinery
Digital Control System Part 1: General Technical Conditions FZ/T 90001 Textile machinery
product packaging FZ/T 90045 Textile Machinery Product Model Compilation Method FZ/T
90054-2009 Textile Machinery Instrumentation Product Packaging FZ/T 90072-2014 Textile
machinery electrical equipment control cabinet size series FZ/T 99014-2014 General
technical requirements for textile machinery and electrical equipment FZ/T 99016 Textile
machinery electrical control system protection connection circuit continuity test specification
FZ/T 99017 Specification for insulation resistance test of textile machinery electrical control
system FZ/T 99018 Textile machinery electrical control system withstand voltage test
specification