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

FZ/T 90109-2011

**Electrical equipment for textile machinery. Electrical graphical
and letter symbols**

纺织机械电气设备 电气图形文字符号 清晰版

(English Translation)

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Foreword

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

The standard proposed by China Textile Industry Association.

This standard by the national textile machinery and accessories for Standardization Technical Committee (SAC/TC215) under the jurisdiction of the national industry standard mechanical and electrical systems Associate Technical Committee Textile Machinery Electrical Systems Technical Committee (SAC/TC231/SC1) Professional focal point.

This standard was drafted. Beijing Jingwei Textile Machinery New Technology Co., Ltd., Zhejiang Hengqiang Technology Limited, Qingdao Hongda Textile Machinery Co., Ltd., Hengtian Heavy Industries Co., Ltd., Tianjin Hongda Textile Machinery Co., Ltd., Xian De high Dyeing Automation Engineering Company Limited, Hong Great Research Institute Co., Ltd., Beijing Science and Technology Development Co., Ltd. Public SAGE Jie, China Textile Machinery (Group) Co., Ltd.

1 Scope

This standard specifies the textile machinery and electrical equipment electrical graphic text symbols.

This standard applies to textile machinery electrical drawings and other technical documents.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB/T 4728 (all parts), Graphical symbols for electrical diagrams GB/T 24340 Industrial machinery Graphical symbols for electrical diagrams

3 Terms and Definitions

Terms and definitions GB/T 24340 apply to this document defined.

4 Graphical symbols

Draw 4.1 graphical symbols 4.1.1 graphical symbol or a function for transmitting a specific information. Graphical symbol drawing symbols should make an appropriate ratio between each other.

4.1.2

symbol arrangement, the distance between the lines is connected to the modulus M (M is 2.5mm) multiples, generally at least $2M$ (5mm), in order to label the terminal signs, and in accordance with internationally accepted minimum character height requirement of 2.5mm.

4.1.3

graphical symbols shall be designed for a specific modulus M grid, for example. modulus M is 2.5mm.

Cable 4.1.4 graphical symbols combined with the heavy grid lines terminating at the intersection of grid lines.

4.1.5

rectangle side length and diameter of the circle should be designed in multiples of $2M$. For smaller symbol is selected to $1.5M$, $1M$ or $0.5M$.

4.1.6

this standard graphical symbols can be used directly or drawn to scale.

4.2 Explanation of graphical symbols

4.2.1

graphical symbols specified in this standard shall be no voltage, the normal state of no external force is shown.

4.2.2

graphical symbols specified in this standard text symbols, of physical quantities, etc., should be regarded as an integral part of the graphic symbol, but these words Symbols, of physical quantities, which are not part of the present standard.

4.3 Use graphic symbols

4.3.1

This standard gives the textile machinery and electrical equipment commonly used in electrical graphic symbols. If the specific device symbols or concepts in this not specified in the standard, should be an appropriate combination of GB/T 4728 predetermined symbols were derived.

4.3.2

In order to meet the requirements of different design or purpose, you can change the size of symbols related to each other, such as frequency and measuring transformers can in using symbols of different sizes.

4.3.3

this standard symbols may need to zoom in or out. When a symbol is used to define another symbol, which is often reduced