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FZ

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

FZ/T 90088-2017

Replacing FZ/T 90088-1996

Test method of anti clogging ability for textle motor

纺织用电机防纤维堵塞能力试验方法

(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 is FZ/T 90088-1996 "textile motor anti-clogging ability of the test method," the amendment, and FZ/T 90088-Compared to 1996, except for editorial changes, the main technical contents are as follows.

- Increase the requirements of the test power (see 4.1);
- Increased requirements for measuring instruments (see 4.3);
- Increased measurement of room temperature requirements (see 5.2);
- Increased motor thermal stability of the state of the provisions (see 5.3);
- Increased use of dynamometers to test the way the motor load (see 6.1);
- Increased three-phase permanent magnet synchronous motor test method (see 6.2).

This standard proposed by the China Textile Industry Federation.

This standard by the National Textile Machinery and Accessories Standardization Technical Committee (SAC/TC215) centralized, the national industrial machinery electrical system standard Standardization Technical Committee Textile Machinery Electrical System Sub-Technical Committee (SAC/TC231/SC1) professional focal point.

This standard was drafted unit. Qingdao and Electric Power Co., Ltd., Weinan Qing Feng Technology Co., Ltd., Jiangsu Ansett Electrical and Mechanical Technology Co., Ltd., Light Industry Hangzhou Mechanical and Electrical Design Institute.

1 Scope

This standard specifies the test method of anti-clogging capacity of textile motors.

This standard applies to textile, motor (hereinafter referred to as motor) for driving textile machinery and equipment under multi-fiber, high-humidity environment.

2 Normative references

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

GB/T 1032 three-phase asynchronous motor test method GB/T 22669 three phase permanent magnet synchronous motor test method

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Feed amount

The mass of cotton yarn tested minus the weight of the remaining cotton yarn.

3.2 Attached cotton yarn fiber volume

Attached to the ventilation structure of the cotton yarn quality.

4.1 Test power supply

During the motor thermal test, the harmonic voltage factor (HVF) of the test supply voltage should not exceed 0.015 and the negative sequence of the voltage system the amount should be less than 0.5% of the positive sequence component, the effect of zero sequence components should be excluded.

During the test, the power supply frequency fluctuations should be within $\pm 3\%$ of the rated frequency.

4.2 Test equipment

4.2.1

fiber separator (licker speed 16000r/min).

4.2.2 30 mesh screen cover.

4.3.1 Overview

The accuracy grade of most instruments is usually expressed as a percentage of full scale. Therefore, the actual readings should be as far as possible to choose a low volume Cheng instrument.