

PROFESSIONAL STANDARD OF THE PEOPLE'S  
REPUBLIC OF CHINA

**中华人民共和国机械行业标准**

JB/T 9615.2-2000

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**AC low voltage motor loose winding inter-turn  
insulation**

**Test limit**

**交流低压电机散嵌绕组匝间绝缘  
试 验 限 值**

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## Foreword

This standard is one of test series standards of the AC low voltage motor loose winding inter-turn insulation. The series consists of the following two parts:

- 1 JB/T9615.1-2000 *AC low voltage motor loose winding inter-turn insulation Test methods*
- 2 JB/T9615.2-2000 *AC low voltage motor loose winding inter-turn insulation Test limit*

This standard is a revision of JB/Z346- 89 *AC Low Voltage Motor Loose Winding Inter-turn Insulation Test Limits* based on GB/T1.1-1993.

Compared to JB/Z346-89, the writing format of this standard was revised, and the technical content is essentially the same; parts of the contents have been coordinated with the revised JB/Z294-87.

In order to meet the need of automatic detection, according to the testing technology development, the standard has added two comparison parameters: test waveform area difference and the area of the test waveform difference in the test waveform difference quantity; delete the size factor  $K_3$  in the impact test voltage peak value calculation formula to make experiments in the same power network have the same test limit; after the adjustment of the time to crest according to the requirements of IEC standards, it shall still include the original recommended value.

This standard will replace JB/Z346-89 from the implementation date.

Annex A to this standard is the standard annex.

This standard is proposed and centralized by Shanghai Electrical Apparatus Research Institute.

This standard is drafted by: Shanghai Electrical Apparatus Research Institute

The main drafters of this standard are: Chen Hanqiu, Qin Xiaoxiao.

# PROFESSIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

## AC low voltage motor loose winding inter-turn insulation

### Test limit

JB/T 9615.2-2000  
Replace JB/Z 346-89

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## 1 Scope

This standard specifies the test parameters, test limits of the AC low voltage motor loose winding inter-turn insulation test and the allowable value of the test waveforms difference quantity when doing the automatic test discrimination.

The standard applies to small and medium 3-phase or single phase of AC motor loose winding inter-turn insulation test whose nominal voltage is no more than 1,140V.

## 2 Quoted standard

The articles in the following standard become its articles by being quoted in the standard. At the publication of standard, all editions shown are valid. All standards are subject to revision, and parties based on this standard shall investigate the possibility of applying the most recent editions of the standards below.

GB/T755-2000 The quota and performance of rotating motors

GB/T8170-1987 Provisions on numerical rounding

JB/T9615.1-2000 AC low voltage motor loose winding inter-turn insulation Test methods

## 3 Definitions

This standard uses the following definitions.

### 3.1 Comparison parameters

The parameters used for comparing the test waveforms difference quantity in the shock waveform comparison method (see JB/T9615.1).

### 3.2 (Test) waveform area difference

The difference of the areas (see figure 1) covered by the two wiggle traces and their corresponding x-coordinate (t) in the tested winding (or coil) or the reference winding (or



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