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**PROFESSIONAL STANDARD OF THE PEOPLE'S
REPUBLIC OF CHINA**

中华人民共和国机械行业标准

JB/T 9615.1-2000

**Test methods of the interturn insulation on random
wound winding for AC low-voltage machines**

交流低压电机散嵌绕组匝间绝缘试验方法

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Foreword

This Standard is part 1 of the interturn insulation on random wound winding for AC low-voltage machines. The series consist of following standard:

1. JB/T 9615.1-2000 *Test methods of the interturn insulation on random wound winding for AC low-voltage machines;*
2. JB/T 9615.2-2000 *Test limits of the interturn insulation on random wound winding for AC low-voltage machines.*

This Standard is revision of JB/T 294-87 *Test methods of the interturn insulation on random wound winding for AC low-voltage machines* based on GB/T 1.1-1993.

Comparison with JB/T 294-87, the written format of standard has been changed, technical contents essentially unchanged. Partial contents are consistence with JB/Z 346-89. In order to meet the requirements of automatic detection, supplemented the requirements for test device in clause 4. Previous standard has been implemented for decades years, the typical test waveform graph in Annex A has been deleted as familiar.

This Standard will replace JB/Z 294-87 from implementation date.

Annex A of this Standard is normative annex, annex B is informative annex.

This Standard is proposed and under the jurisdiction of Shanghai Electrical Apparatus Research Institute.

The responsible drafting organization is Shanghai Electrical Apparatus Research Institute.

The chief drafting staff of this standard includes Chen Hanqiu and Qin Xiaoxiao.

Test methods of the interturn insulation on random wound winding for AC low-voltage machines

1 Scope

The standard specifies the method of AC motor loose winding inter-turn insulation test.

The standard applies to the 3-phase or single phase of AC motor loose winding inter-turn insulation test which nominal voltage is no more than 1140 V.

2 Normative References

The articles in the following standard are quoted by this standard and become its articles. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties' agreements based on this standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below.

JB/T 9615.2 Test limits of the interturn insulation on random wound winding for AC low-voltage machines

3 Definitions

For the purpose of this Standard, following definitions apply.

3.1 Comparison method of impulse waveform

Another method to test motor winding (or coil) turn-to-turn insulation is by impulse voltage test.

Directly apply impulse voltage wave with specified peak value and front time alternately (or simultaneously) to test object winding (or coil) and reference object winding (or coil) with same design, to test whether the performance of motor winding (or coil) turn-to-turn insulation is good or not by judging whether damped oscillation waveform caused by impulse voltage has difference. See annex A for details (standard annex).

3.2 Reference object winding (or coil)

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