

ICS 29.240.20

CCS K 51



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

GB/T 2317.1-2008

Replacing GB/T 2317.1-2000

**Test method for electric power fittings -- Part 1: Mechanical
tests**

电力金具试验方法 第1部分：机械试验

(English Translation)

Issued on: September 24, 2008

Implemented on: August 1, 2009

Issued by: Standardization Administration of China

Table of Contents

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Test category

5 Connection fittings Test

6 Suspension Clamps Test

7 Clamp fittings and connecting test

Foreword

GB/T 2317 "Test methods for electrical fittings" There are four parts, namely.

GB/T 2317.1 electrical fittings - Test methods - Part 1. Mechanical test GB/T 2317.2 electrical fittings - Test methods - Part 2. corona and radio interference test GB/T 2317.3 electrical fittings - Test methods - Part 3. Thermal cycling test GB/T 2317.4 electrical fittings - Test methods - Part 4. Acceptance rules this part of GB/T 2317 Part 1.

The partial modification using IEC 61284:1997 "Requirements and test overhead line fittings ---" and also consider the specific situation of China, an increase of preformed fittings mechanical test content.

This section and the IEC 61284:1997 as compared to the following main differences.

--- Increasing the bending and test methods busbar fittings equalizing shield gold with strength, with the gold contacts;

--- Consider the specific situation of China, an increase of preformed fittings mechanical test content;

Code such as the increase of the "connection fittings --- mechanical damage load and failure load test when. --- customary expression of modified LOADING exploded view. "For increasing load mode, this part of the narrative, and the IEC standard adopts the square icon formula;

--- Label defined term is not exactly the same as in the IEC "specified minimum failure load" in this section as "nominal load damage Netherlands. " this Part replaces GB/T 2317.1-2000 "electrical fittings Mechanical test methods." this section compared with the GB/T 2317.1-2000, mainly with the following modifications.

--- The definition of some of the terms have been adjusted to make the definition clearer definition;

--- Original title of Chapter 4 standard "test specimen type and quantity" to "test category." Test-categories of "purpose" and "a General requirements "two to define, more clearly defined;

--- Connection fittings and suspension clamps of "experimental arrangement" of the text has been substantially revised, the test arrangement described in more clear Chu easy to understand, but also with a corresponding portion of the IEC standards coincide;

--- For the content of the suspension clamp connection hardware and the "Criteria" were substantially modified, no longer distinguish between type testing, sampling and test Routine tests, instead of a uniform criterion;

6.1 --- The title "load mechanical damage and mechanical failure load" to "mechanical load test";

--- Original standard 6.2.1 and 6.2.2 are combined content and add a test method to choose.

This part is proposed by the China Electricity Council.

The overhead lines in part by the National Standardization Technical Committee (SAC/TC202) centralized.

This section is responsible for drafting unit. Beijing State Grid Electric Power Research Institute building.

Participated in the drafting of this section. Nanjing Line Equipment Factory, Zhejiang Electric Power Design Institute.

1 Scope

This section provides mechanical test methods for electrical fittings.

This section applies to the rated voltage of 10kV and above overhead power lines, substations and distribution equipment used in power plant electrical fittings (hereinafter Referred fittings).

2 Normative references

The following documents contain provisions which, through reference to GB/T 2317 to the present, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest

versions apply to this section.

GB/T 2317.4 electrical fittings acceptance marking and packaging rules GB/T 8287.2 High voltage post insulators Part 2. Dimensions and characteristics (GB/T 8287.2-1999, neq IEC 60273) DL/T 763 overhead lines Preformed fittings technical requirements DL/T 1098 spacer technical requirements and test methods DL/T 1099 Damper Technical conditions and test methods

3 Terms and Definitions

The following terms and definitions apply to this section.

Under specified test conditions, it can be applied to the gold with a maximum load.

Under test conditions, gold has not appeared permanent deformation under maximum load conditions can bear.

Presented by the demand side or the supply side by a predetermined minimum load of gold with no mechanical damage.

Some way of securing the wire fittings, upon application of a load, occurs between the wire and the relative displacement of the fittings, so that the test load can not when continue to rise, this phenomenon is called slip.

Fastening of wires required fittings, maximum load without slippage phenomenon can bear.

4.1.1 Objective

Type test is to determine the mechanical design features, normally only once, and only in design, material or process change when redone.