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JJF

NATIONAL METROLOGY TECHNICAL SPECIFICATION OF THE PEOPLE'S REPUBLIC OF CHINA

JJF 1400-2013

Calibration Specification for Time Relay Testers

时间继电器测试仪校准规范

(English Translation)

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Introduction

This specification based JJF 1071-2010 "National Calibration Specifications writing rules" establishment.

Currently, there is no time relay tester international and domestic standards. This specification reference JJF 1282-2011 "Electronic time relay calibration specification," the relevant technical requirements. The specification for the first time to develop.

Time relay tester calibration specification

1 Scope

This instruction applies to relay tester (hereinafter referred to as the tester) calibration.

2. References

This specification refers to the following documents.

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JJG180 electronic measuring instruments within the quartz oscillator JJF 1001 common measurement terms and definitions JJF 1282-2011 electronic time relay calibration specification for dated references, only the dated edition applies to this specification; undated reference documents Member, the latest edition (including any amendments) applies to this specification.

3 Overview

Tester is a device for measuring time relay metrological characteristics. Tester works shown in Figure 1, it is through Often by the voltage output circuit, trigger circuit, time base circuit, timing circuit, the time display circuit. When the voltage output the same time, the trigger circuit, measuring circuit starts counting when the measured time delay relay contact closure (off Open), flip-flop circuit, timing circuit stop the clock, the time display shows the measured circuit relay delay time setting the actual value of time.

Figure 1 Schematic tester

4 Metrological characteristics

4.1 Time measurement error in 0.001s ~ 9999.999s range, the maximum permissible error. ± (5 x 10-5T 0.005s), where T is a time measurement value.

4.2 Crystal

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