

# JIS

**JAPANESE INDUSTRIAL STANDARD**

**Residual current sensing and  
relaying equipment**

**JIS C 8374—1991**

**Translated and Published**

**by**

**Japanese Standards Association**

In the event of any doubt arising,  
the original Standard in Japanese is to be final authority.

## Residual current sensing and relaying equipment C 8374-1991

1. Scope

This Japanese Industrial Standard specifies residual current sensing and relaying equipment with rated current 2500 A or less (hereafter referred to as the "relay") to be used for electric circuit of a.c. 600 V or less of frequency 50 or 60 Hz.

The relay referred herein means an integral assembly of zero-phase-sequence current transformer or differential type current transformer (hereafter referred to as the "zero-phase-sequence current transformer") and control system, as well as the combination of zero-phase-sequence current transformer and control system to be mounted separately. If such system has an alarm device such as a buzzer the relay means the system excluding the alarm device.

This Standard is not applicable, to the relay for overload protection and also open-phase protection, the residual current operated circuit breaker specified in JIS C 8371 and leakage current fire alarm managed by the Japan Fire Equipment Inspection Corporation.

Remarks 1. The following Standards are cited in this Standard:

JIS C 0911-Vibration Testing Procedure for Electric  
Machines and Equipment

JIS C 0912-Shock Testing Procedure for Electric Machines  
and Equipment

JIS C 8306-Testing Methods for Wiring Devices

JIS C 8371-Residual Current Operated Circuit Breakers

JIS K 8116-Ammonium Chloride

JIS K 8576-Sodium Hydroxide

2. The units and numerical values given in { } in this Standard are based on the traditional unit system, and are appended for Informative reference.

2. Definitions

For the purposes of this Standard, the following definitions apply.

- (1) current operated type relay Relay which operates by detecting the ground current with zero-phase-sequence current transformer.
- (2) high speed type relay Relay wherein the operating time at the rated sensitivity current is within 0.1 s.
- (3) delay type relay Relay wherein the operating time at the rated sensitivity current is over 0.1 s and within 2 s.