

JIS

JAPANESE INDUSTRIAL STANDARD

Remote Control Relays and
Remote Control Switches

JIS C 8360—1984

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Remote Control Relays and
Remote Control Switches

C 8360-1984

1. Scope

This Japanese Industrial Standard specifies the remote control relays and remote control switches, hereinafter referred to as the "relays and switches", respectively, mainly for use in indoor remote control system in electric circuits at an a.c. voltage not more than 300 V with a frequency of 50 Hz or 60 Hz.

2. Definitions

For the purposes of this standard, the following definitions apply:

- (1) relay A switch to operate make and break of the main circuit by means of electromagnet excited by a.c. 24 V.
- (2) switch An article to operate manually the make and break of operating circuit of relay.
- (3) self-spring-action contact part A switching contact part which produces the contact pressure by all or a part of its conductive part.
- (4) forced-spring-action contact part A switching contact part, wherein the conductive part is aimed at conduction only, and the contact pressure is relied upon other elastic body. However, such contact part having both effects of self-spring-action and forced-spring-action, that retains sufficient contact effect by forced-spring-action even though the effect of self-spring-action is lost, is regarded as a forced-spring-action contact part.

Applicable Standards:

JIS C 3202-Oleo-Resinous Enameled Copper Wires

JIS C 3203-Polyvinyl Formal Enameled Copper Wires

JIS C 3307-600 V Grade Polyvinyl Chloride Insulated Wires

JIS C 8303-Plugs and Receptacles for Domestic and Similar General Use

JIS C 8306-Testing Methods for Wiring Devices

3. Classification and Rating

The classification and rating shall comply with Table 1.

Table 1

Class		Rated current A	Rated voltage V
Relay	Single pole	10, 15, 20	125, 300
	Double pole		
	Three pole		
Switch	Surface type	1, 1.5, 3	24
	Flush type		

4. Performances

The performances shall comply with the following requirements:

4.1 Temperature Rise of Relay When the temperature rise of the relay is tested in accordance with 6.2, there shall be no abnormality produced on any part, and the temperature rise at switching contact part shall show not more than the appropriate value given in Table 2.

Table 2

Class of switching contact part		Temperature rise °C
Self-spring-action contact part		30
Forced-spring-action contact part	Copper and copper alloys	40
	Silver and silver alloys	65

Remark: The limit of reference ambient air temperature shall be 40°C.

4.2 Operation of Relay When the relay is tested in accordance with 6.3, the switching part shall operate without any practical trouble.

4.3 Make and Break When the test is carried out in accordance with 6.4, no welding of switching contact pieces (contacts), remarkable burning nor other electrical and/or mechanical trouble shall appear.

Further, the performance of 4.1 shall be satisfied after this test.

4.4 Insulation Resistance When the relay is tested in accordance with 6.5, the insulation resistances shall be not less than the relevant values given in Table 3.