

JIS

JAPANESE INDUSTRIAL STANDARD

Remote Control Transformers

JIS C 8361 —1984

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Remote Control Transformers

C 8361-1984

1. Scope

This Japanese Industrial Standard specifies small single-phase transformers mainly used indoors for power source of operating circuit of 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, hereinafter referred to as the "remote control transformers".

2. Class and Symbol

The class and symbol shall comply with Table 1.

Table 1

Class	Symbol
Ordinary type	F
Leakage type	L

3. Ratings

The ratings shall be expressed by the rated frequency, rated primary voltage, rated secondary voltage and rated secondary current and the values shall comply with Table 2.

Table 2

Rated frequency Hz	50 · 60
Rated primary voltage ⁽¹⁾ V	100 · 200
Rated secondary voltage V	24
Rated secondary current A	1 · 1.5 · 3

Note ⁽¹⁾ Rated primary voltage may conform to distribution voltage, and may be made that value.

Applicable Standards:

JIS C 2353-Coil Impregnating Varnishes for Electrical Insulation

JIS C 3307-600 V Grade Polyvinyl Chloride Insulated Wires

JIS C 6575-Cartridge Fuses for Electronic Equipment

JIS C 8306-Testing Methods for Wiring Devices

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4. Performances

The performances of the remote control transformer shall be as follows:

4.1 No-load Secondary Voltage When the test is carried out in accordance with 6.2, the no-load secondary voltage shall be not more than 30 V.

4.2 Full-load Secondary Voltage When the test is carried out in accordance with 6.3, the full-load secondary voltage shall be 24 ± 2.4 V.

4.3 Secondary Short-circuit Current In the leakage type remote control transformer, when the test is carried out in accordance with 6.4, the short-circuit secondary current shall be not more than 5 A.

4.4 Temperature Rise of Windings When the test is carried out in accordance with 6.5, the temperature rise of windings shall not exceed the appropriate value given in Table 3.

Table 3

Unit: °C

Class	Temperature rise
Ordinary type	65
Leakage type	100

Remark: Limit of reference ambient temperature shall be 40°C.

4.5 Insulation Resistance When the test is carried out in accordance with 6.6, the insulation resistance shall be not less than 5 MΩ. The insulation resistance between secondary winding and core shall, however, be not less than 1 MΩ.

4.6 Withstand Voltage When the test is carried out in accordance with 6.7, the transformer shall withstand the test voltage specified in Table 4 for 1 min.

Table 4

Test portion	Test voltage
Between each winding and between primary winding and core	1000 V for rated primary voltage is not more than 150 V, 1500 V for rated primary voltage is over 150 V to 300 V incl.
Between secondary winding and core	500 V

4.7 Strength of Terminal Part When the test is carried out in accordance with 6.8, no damage of terminal screw, breaking of wire nor other abnormality shall be caused.