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(JEMA/JSA)

AC load break switches for rated voltages above 1 kV up to and including 52 kV

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In the event of any doubts arising as to the contents,
the original JIS is to be the final authority.

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by The Japan Electrical Manufacturers' Association (JEMA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS C 4605** : 1998), which has been technically revised.

Attention is drawn to the possibility that some parts of this Standard may conflict with patent rights, published patent application or utility model rights. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying any of such patent rights, published patent application or utility model rights.

AC load break switches for rated voltages above 1 kV up to and including 52 kV

Introduction

This Japanese Industrial Standard has been prepared based on IEC 62271-103 : 2011, Edition 1, with some modifications of the technical contents in consideration of the power distribution system in Japan and the product form indigenous to Japan.

The vertical lines on both sides and dotted underlines indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JI. Annex JA to Annex JH are unique to JIS and not given in the corresponding International Standard.

1 Scope and normative references

1.1 Scope

This Standard is applicable to three-phase, alternating current switches and switch-disconnectors (hereafter referred to as switches), for indoor and outdoor installations, for rated voltages above 1 kV up to and including 52 kV and for rated frequencies 50 Hz and/or 60 Hz, which are manually operated or electrically operated.

This Standard is also applicable to three-phase, alternating current switches used on single-phase electric circuit.

This standard is also applicable to the operating devices of these switches and to their control equipment.

Switch-disconnectors are also covered by JIS C 4606 : 2011 and IEC 62271-102 : 2001 for their disconnecting function.

This Standard establishes requirements for switches used in distribution systems.

This Standard is not applicable to switches for capacitor, electric furnace, motor, etc., which is frequently opened and closed. However, when the number of opening and closing operations is within the scope of this Standard, this Standard is applicable to those switches as agreed between the interested parties.

It is assumed that opening and closing operations are performed according to the manufacturer's instructions. A breaking operation should not immediately follow a making operation since the current may exceed the rated breaking current of the switch immediately after the making operation even though the current is within the rated breaking current.

Earthing switches are not covered by this Standard. Earthing switches shall be in accordance with IEC 62271-102 : 2001.

NOTE 1 Except where special clarification is required, the term "switch" is used to refer to all kinds of switches and switch-disconnectors within the