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High voltage AC circuit breakers

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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 4603:1990), which has been technically revised.

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High voltage AC circuit breakers

1 Scope

This Japanese Industrial Standard specifies the requirements for high-voltage indoor AC circuit breakers to be used in high-voltage receiving installations of 3.3 kV or 6.6 kV in the nominal voltage at 50 Hz or 60 Hz in the frequency (hereafter referred to as the circuit breakers).

This Standard shall apply to the circuit breakers of 3.6 kV in the rated voltage and 16 kA or under in the rated breaking current, and those of 7.2 kV in the rated voltage and 12.5 kA or under in the rated breaking current.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS C 3307 600 V Polyvinyl chloride insulated wires
JIS C 3315 Rubber insulated lead wires for electric machinery and apparatus
JIS C 3316 Polyvinyl chloride insulated wires for electrical apparatus
JIS C 3317 600 V Grade heat-resistant polyvinyl chloride insulated wires
JIS C 3612 600V Flame retardant polyethylene insulated wires

3 Terms and definitions

For the purpose of this Standard, the following terms and definitions apply.

3.1 Terms and definitions concerning types and ratings of circuit breakers

3.1.1

AC circuit breaker

device used in an AC circuit, capable of switching an electric circuit under a normal state and also under an abnormal state particularly short-circuit state

3.1.2

vacuum circuit breaker

circuit breaker in which an electric circuit is switched in vacuum

3.1.3

gas circuit breaker

circuit breaker in which an electric circuit is switched in such an insert gas as sulfur hexafluoride (SF_6)