



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS C 4901 : 2013

(JEMA/JSA)

Low-voltage power capacitors

ICS 31.060.70;29.120.99

Reference number : **JIS C 4901 : 2013 (E)**

Date of Establishment: 1950-11-25

Date of Revision: 2013-06-20

Date of Public Notice in Official Gazette: 2013-06-20

Investigated by: Japanese Industrial Standards Committee
Standards Board

Technical Committee on Electricity Technology

JIS C 4901:2013, First English edition published in 2015-12

Translated and published by: Japanese Standards Association
Mita MT Building, 3-13-12, Mita, Minato-ku, Tokyo, 108-0073 JAPAN

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

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Printed in Japan

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Contents

	Page
Introduction.....	1
1 Scope	1
2 Normative references	1
3 Terms and definitions	2
4 Service conditions	5
4.1 Standard service conditions	5
4.2 Unusual service conditions	6
5 Overload service conditions	6
6 Classification	6
7 Ratings	7
7.1 Rated frequency	7
7.2 Number of phases	7
7.3 Rated voltage	7
7.4 Rated capacitance	8
7.5 Rated capacity	8
7.6 Rated current	9
8 Performance	10
8.1 Dielectric withstand voltage between terminals	10
8.2 Dielectric withstand voltage between terminals connected together and case or case enclosure	10
8.3 Capacitance or capacity	10
8.4 Capacitor losses	11
8.5 Discharge property	11
8.6 Sealing ability	11
8.7 Thermal stability	11
8.8 High temperature capacitor losses	11
8.9 Moisture resistance	11
8.10 Short-circuit discharge property	12
8.11 Endurance	12
8.12 Self-healing	12
8.13 Safety	13
9 Construction	13
9.1 General	13
9.2 Capacitor body	14
9.3 Elements	14

9.4	Case	14
9.5	Impregnant	15
9.6	Filler and non-metallic enclosure materials	15
9.7	Line terminals	15
9.8	Connection terminals	15
9.9	Lead wires	15
9.10	Bushings	15
9.11	Earth terminals	15
9.12	Terminal cover	16
9.13	Mounting fittings	16
9.14	Case enclosure	16
9.15	Discharge resistor	16
10	Tests	16
10.1	Testing conditions	16
10.2	Construction test	16
10.3	Dielectric withstand voltage test between terminals	16
10.4	Dielectric withstand voltage test between terminals connected together and case or case enclosure	17
10.5	Capacitance or capacity test	17
10.6	Capacitor losses test	17
10.7	Discharge property test	17
10.8	Sealing ability test	19
10.9	Thermal stability test	19
10.10	High temperature capacitor losses test	20
10.11	Moisture resistance test	20
10.12	Short-circuit discharge property test	20
10.13	Endurance test	21
10.14	Self-healing test	22
10.15	Safety test	22
11	Inspection	25
11.1	Type tests	25
11.2	Routine tests	26
12	Designation of product	26
13	Marking	26
Annex JA (informative)	Series reactors for low-voltage power capacitors	28
Annex JB (informative)	Guidance for use of capacitors	32
Annex JC (informative)	Comparison table between JIS and corresponding International Standards	37

Foreword

This translation has been made based on the original Japanese Industrial Standard 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 the draft being attached, based on the provision of Article 12 Clause 1 of the Industrial Standardization Law applicable to the case of revision by the provision of Article 14. Consequently **JIS C 4901:2000** is replaced with this Standard.

However, **JIS C 4901:2000** may be applied in the **JIS** mark certification based on the relevant provisions of Article 19 Clause 1, etc. of the Industrial Standardization Law until June 19, 2014.

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

Low-voltage power capacitors

Introduction

This Japanese Industrial Standard has been prepared based on Edition 2.1 of **IEC 60831-1** published in 2002, and the second edition of **IEC 60831-2** published in 1995 with some modifications of the technical contents.

The portions given continuous sidelines or dotted underlines are the matters in which the contents of the corresponding International Standards have been modified. A list of modifications with the explanations is given in Annex JC.

1 Scope

This Standard specifies phase advance self-healing capacitors for indoor use (hereafter referred to as “capacitors”), intended to be used for the purpose of power-factor correction in a circuit at an a.c. voltage not exceeding 600 V at power frequency by being connected in parallel to the load.

Annex JA describes the matters related to the series reactors for capacitors (kvar product) used as a receiving facility for reference.

Annex JB gives guidance for installation, maintenance and operation of capacitors for the purpose of reference.

NOTE : The International Standards corresponding to this Standard and the symbol of degree of correspondence are as follows.

IEC 60831-1:2002 *Shunt power capacitors of the self-healing type for a.c. systems having a rated voltage up to and including 1 000 V—Part 1: General—Performance, testing and rating—Safety requirements—Guide for installation and operation*

IEC 60831-2:1995 *Shunt power capacitors of the self-healing type for a.c. systems having a rated voltage up to and including 1 000 V—Part 2: Ageing test, self-healing test and destruction test* (Overall evaluation: MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

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 2318 *Balanced biaxially oriented polyethylene terephthalate films used for electrical purposes*

JIS C 2320 *Electrical insulating oils*

JIS C 2330 *Biaxially oriented polypropylene (PP) films for capacitors*