

What is a series capacitor?

The series capacitor units and banks are usually intended for high-voltage power systems. This standard is applicable to the complete voltage range. This standard does not apply to capacitors of the self-healing metallized dielectric type. The following capacitors, even if connected in series with a circuit, are excluded from this standard:

What is the IEEE 824-1994 standard for capacitors?

This standard represents a significant update to IEEE 824-1994. Series capacitor bank component and bank duty cycle ratings, equipment insulation levels, protective functions, component testing, instruction books, nameplates, and safety are covered in this standard.

What are the recommendations for the capacitor part?

The recommendations for the capacitor part are given in IEC 60143-1:2004. Specific information about protective equipment can be found in Clause 3 and 10.6. This second edition cancels and replaces the first edition published in 1994 and constitutes a technical revision.

What is the operating frequency of a capacitor?

This International Standard applies to capacitors for power electronics applications. The operating frequency of the systems in which these capacitors are used is usually up to 15 kHz, while the pulse frequencies may be up to 5 to 10 times the operating frequency. The document...

What is the rated voltage of a capacitor?

The rated voltage of a capacitor is limited to 10 000 V. (The operating frequency of the systems in which these capacitors are used is usually up to 15 kHz, while the pulse frequencies may be up to 5 to 10 times the operating frequency.)

What is protective equipment for series capacitor banks?

IEC 60143-2:2012 covers protective equipment for series capacitor banks with a size larger than 10 Mvar per phase. Protective equipment refers to the main circuit apparatus and ancillary equipment, which are part of a series capacitor installation, but which are external to the capacitor part itself.

This standard applies to conventional DC capacitors (film foil oil) for HVDC -DC filter applications. This Standard will also be applicable to other applications where the capacitor

This part of IEC 60143 applies both to capacitor units and capacitor banks intended to be used connected in series with an a.c. transmission or distribution line or circuit forming part of an a.c. power system having a frequency of 15 Hz to 60 Hz. The primary focus of this standard is on transmission application.

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IEEE Standard for Series Capacitor Banks in Power Systems. This standard represents a significant update to IEEE 824-1994. Series capacitor bank component and bank duty cycle ...

Scope: The scope is a standard for series capacitor banks that are connected in series with the utility transmission system. The banks include capacitors and all the accessory equipment necessary to form a complete equipment. The scope is the same as the existing standard, however it is requested that the word "bank" be included in the title to clarify that the standard ...

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STANDARDS. IEEE Std 1036(TM)-2020 (Revision of IEEE Std 1036-2010) IEEE Guide for the Application of Shunt Power Capacitors Developed by the Transmission and Distribution Committee of the IEEE Power and Energy Society Approved 5 March 2020 IEEE-SA Standards Board. Abstract: This guide applies to the use of 50 Hz and 60 Hz shunt power capacitors ...

IEC 60143-1:2015 applies both to capacitor units and capacitor banks intended to be used connected in series with an a.c. transmission or distribution line or circuit forming part of an a.c. power system having a frequency of 15 Hz to 60 Hz. The primary focus of this standard is on transmission application. The series capacitor units and banks ...

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Abstract: This standard represents an update to IEEE 824-2004. Series capacitor bank component and bank duty cycle ratings, equipment insulation levels, protective functions component testing, instruction books, nameplates, and safety are covered in this standard.

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