

## BUREAU OF INDIAN STANDARDS

### Program of Work

#### ETD 29 : Power Capacitors

**Scope:** To prepare standards for: a) Shunt Capacitors, Series capacitors for ac power systems b) Capacitors for surge protection for use in voltage system c) Shunt capacitors for the self-healing type and nonself-healing type for ac power systems. d) Capacitors for electric fan motors, A.C. motor capacitors, Capacitors for microwave ovens e) Internal fuses and internal overpressure disconnectors for shunt capacitors & , series capacitors and power electronic capacitors f) Coupling capacitor and capacitor dividers, Voltage grading capacitor Grading capacitors for high voltage alternating current circuit-breaker g) Capacitors for inductive heat generating plants, & induction heating installations h) Power electronics capacitors, Energy storage capacitors i) Automatic power factor correction (APFC) panels

**Liaison:** **IEC TC-33 (P):** *Power capacitors and their applications* **IEC TC-33 (P):** *Power capacitors and their applications*

### Published Standards

| S.No | IS No.  | TITLE   | Reaffirm M-Y   | No. of Amds | Eqv.                            |
|------|---|---|----------------|-------------|---------------------------------|
| 1    | IS 11548:1986<br><i>Reviewed In : 2021</i>  | Specification for capacitors for surge protection for use in voltage system above 650 V and up to 33 KV   | November, 2021 | 2           | Indigenous                      |
| 2    | IS 13203:1991<br>IEC 60996:1989<br><i>Reviewed In : 2021</i><br><i>IEC 60996:1989</i>                   | Method for verifying accuracy of tan delta measurements   | October, 2021  | -           | Modified/Technically Equivalent |
| 3    | IS 13340 (Part 1):2012<br>IEC 60831 - 1 : 2002<br><i>Reviewed In : 2017</i><br><i>IEC 60831-1: 2014</i> | Shunt power capacitors of the self - Healing type for ac systems having a rated voltage up to and including 1000 V: Part 1 general - Performance, testing and rating - Safety requirements - Guide for installation and operation (First Revision)  | May, 2022      | -           | Identical under dual numbering  |
| 4    | IS 13340 (Part 1):2024<br>IEC 60831-1: 2014<br><i>IEC 60831-1: 2014</i>                                 | 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 (Second Revision) |                | -           | Identical under dual numbering  |
| 5    | IS 13340 (Part 2):2024<br>IEC 60831-2: 2014<br><i>IEC 60831-2: 2014</i>                                 | 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   |                | -           | Identical under dual numbering  |

|    |   |   |                |   |                                |
|----|---|---|----------------|---|--------------------------------|
|    |   | Test, Self-Healing Test and Destruction Test (First Revision)   |                |   |                                |
| 6  | IS 13585 (Part 1):2012<br>IEC 60931-1 : 1996<br>Reviewed In : 2022<br>IEC 60931-1:1996  | Shunt power capacitors of the non-Self - Healing type for ac 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 (First Revision) | April, 2022    | - | Identical under dual numbering |
| 7  | IS 13585 (Part 2):2013<br>IEC 60931-2: 1995<br>Reviewed In : 2023<br>IEC 60931-2:1996   | Shunt power capacitors of the non-Self - Healing type for a.c. systems having a rated voltage up to and including 1 000 v: Part 2 ageing test and destruction test  | February, 2023 | - | Identical under dual numbering |
| 8  | IS 13585 (Part 3):2013<br>IEC 60931-3: 1996<br>Reviewed In : 2023<br>IEC 60931-3:1996   | Shunt power capacitors of the non-Self - Healing type for a.c. systems having a rated voltage up to and including 1 000 V: Part 3 internal fuses  | February, 2023 | - | Identical under dual numbering |
| 9  | IS 13666:1993<br>Reviewed In : 2023   | Energy storage capacitors - Specification   | May, 2023      | - | Indigenous                     |
| 10 | IS 13925 (Part 1):2025<br>IEC60871-1 : 2005   | SHUNT CAPACITORS FOR AC POWER SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V PART 1: GENERAL Second Revision  |                | - | Identical under dual numbering |
| 11 | IS 13925 (Part 2):2025<br>IEC60871-2:1999   | SHUNT CAPACITORS FOR AC POWER SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V PART 2: ENDURANCE TESTING Second Revision  |                | - | Identical under dual numbering |
| 12 | IS 13925 (Part 3):2025<br>IEC 60871-3:1996  | SHUNT CAPACITORS FOR AC POWER SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V PART 3: PROTECTION OF SHUNT CAPACITORS AND SHUNT CAPACITOR BANKS First Revision  |                | - | Identical under dual numbering |
| 13 | IS 13925 (Part 4):2025<br>IEC 60871-4:1996  | SHUNT CAPACITORS FOR AC POWER SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V PART 4: INTERNAL FUSES First Revision  |                | - | Identical under dual numbering |
| 14 | IS 13925 (Part 1):2012<br>IEC 60871-1 : 2005<br>Reviewed In : 2022<br>IEC60871-1 : 2005 | Shunt capacitors for a.c. power systems having a rated voltage above 1000 V: Part 1 general (First Revision)  | April, 2022    | - | Identical under dual numbering |
| 15 | IS 13925 (Part 2):2002<br>IEC 60871-2:1999<br>Reviewed In : 2022<br>IEC60871-2:1999     | Shunt capacitors for a.c. power systems having a rated voltage above 1000 V: Part 2 endurance testing (First Revision)  | March, 2022    | - | Identical under dual numbering |
| 16 | IS 13925 (Part 3):2002<br>IEC 60871-3:1996<br>Reviewed In : 2022<br>IEC 60871-3:1996    | Shunt capacitors for a.c. power systems having a rated voltage above 1000 V: Part 3 protection of shunt capacitors and shunt capacitor banks  | March, 2022    | - | Identical under dual numbering |

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|----|--|---|----------------|---|----------------------------------|
| 17 | IS 13925 (Part 4):2013<br>IEC 60871-4: 1996<br>Reviewed In : 2023<br>IEC 60871-4:1996        | Shunt capacitors for a.c. power systems having a rated voltage above 1000 V: Part 4 internal fuses  | February, 2023 | - | Identical under dual numbering   |
| 18 | IS 15395:2003<br>IEC 61642:1997<br>Reviewed In : 2023<br>IEC 61642:1997                      | Industrial AC networks affected by harmonics application of filters and shunt capacitors  | October, 2023  | - | Identical under dual numbering   |
| 19 | IS 15406 (Part 1):2003<br>IEC 61270-1:1996<br>Reviewed In : 2023<br>IEC 61270-1: 1996        | Capacitors for microwave ovens: Part 1 general  | October, 2023  | - | Identical under dual numbering   |
| 20 | IS 16636:2017<br>Reviewed In : 2022  | Automatic power factor correction (APFC) panels for voltage rating up to and including 1000 V   | March, 2022    | - | Indigenous                       |
| 21 | IS 1709:1984<br>iec 252<br>Reviewed In : 2021<br>IEC 252:1975                                | Specification for capacitors or electric fan motors (First Revision)  | December, 2024 | 3 | Modified/Technically Equivalent  |
| 22 | IS 2993:1998<br>IEC 252<br>Reviewed In : 2022<br>IEC 60252-1: 2010+AMD1:2013                 | A.C. motor capacitors (Second Revision)   | July, 2023     | - | Identical under dual numbering   |
| 23 | IS 2993 (Part 1):2024<br>IEC 60252-1:2010<br>IEC 60252-1: 2010+AMD1:2013                     | a.c. Motor Capacitors Part 1 General - Performance, Testing and Rating - Safety Requirements - Guidance for Installation and Operation ( Third Revision ) |                | 1 | Identical under dual numbering   |
| 24 | IS 2993 (Part 2):2024<br>IEC 60252-2:2010<br>IEC 60252-1: 2010+AMD1:2013                     | a.c. Motor Capacitors Part 2 Motor Start Capacitors ( Third Revision )  |                | 1 | Identical under dual numbering   |
| 25 | IS/IEC 60110-1:1998<br>IEC 60110-1 : 1998<br>Reviewed In : 2021<br>IS/IEC 60110-1 : 199      | Power Capacitors for Induction Heating Installations Part 1 General (First Revision)  |                | - | Identical under single numbering |
| 26 | IS/IEC/TS 60110-2:2000<br>IEC TS 60110-2 : 2000<br>IEC 60110-2 : 2000                        | POWER CAPACITORS FOR INDUCTION HEATING INSTALLATIONS PART 2 : AGEING TEST DESTRUCTION TEST AND REQUIREMENTS FOR DISCONNECTING INTERNAL FUSES              |                | - | Identical under single numbering |
| 27 | IS/IEC 60143-1:2015<br>IEC 60143-1:2015<br>IEC 60143-1:2015                                  | SERIES CAPACITORS FOR POWER SYSTEMS PART 1 : GENERAL (Second Revision)  |                | - | Identical under single numbering |
| 28 | IS/IEC 60143-2:2012<br>IEC 60143-2:2012+AMD1:2021<br>Reviewed In : 2024<br>IEC 60143-2:2012+ | Series Capacitors for Power Systems Part 2: Protective Equipment for Series Capacitor Banks   | October, 2024  | - | Identical under single numbering |

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|    | AMD1:2021  |  |                |   |                                     |
| 29 | IS/IEC<br>60143-3:2015<br>IEC 60143-3:2015<br>IEC 60143-3:2015   | SERIES CAPACITORS FOR<br>POWER SYSTEMS PART 3:<br>INTERNAL FUSES (First<br>Revision)   |                | - | Identical under single<br>numbering |
| 30 | IS/IEC<br>60143-4:2010<br>IEC 60143-4:2010<br>IEC 60143-4:2010   | SERIES CAPACITORS FOR<br>POWER SYSTEMS PART 4:<br>THYRISTOR CONTROLLED<br>SERIES CAPACITORS  |                | - | Identical under single<br>numbering |
| 31 | IS/IEC<br>60358-1:2012<br>IEC 60358-1:2012<br>60358-1:2012   | COUPLING CAPACITORS AND<br>CAPACITOR DIVIDERS PART 1<br>GENERAL RULES (Second<br>Revision)   |                | - | Identical under single<br>numbering |
| 32 | IS/IEC<br>60358-2:2013<br>IEC 60358-2:2013<br>IEC 60358-2:2013   | COUPLING CAPACITORS AND<br>CAPACITOR DIVIDERS PART 2<br>a.c. or d.c. SINGLE-PHASE<br>COUPLING CAPACITOR<br>CONNECTED BETWEEN LINE<br>AND GROUND FOR POWER<br>LINE CARRIER-FREQUENCY<br>(PLC) APPLICATION |                | - | Identical under single<br>numbering |
| 33 | IS/IEC 61071:2017<br>IEC 61071:2017<br>Reviewed In : 2026<br>IEC 61071:2017  | CAPACITORS FOR POWER<br>ELECTRONICS (First Revision)   | November, 2026 | - | Identical under single<br>numbering |
| 34 | IS/IEC<br>62146-1:2013<br>IEC 62146-1: 2013<br>+ AMD 1: 2016<br>Reviewed In : 2024<br>IEC 62146-1: 2013<br>+ AMD 1: 2016 | Grading capacitors for high-voltage<br>alternating current circuit-breakers<br>Part 1: General   | July, 2024     | - | Identical under single<br>numbering |
| 35 | IS/IEC<br>62146-2:2023<br>IEC 62146-2:2023<br>IEC 62146-2:2023   | Capacitors for High Voltage<br>Alternating Current Circuit<br>Breakers Part 2: TRV capacitors  |                | - | Identical under single<br>numbering |

### Standards under Development

#### Projects Approved

| SI. No.                 | Doc No. | Title |
|-------------------------|---------|-------|
| <i>No Records Found</i> |         |       |

#### Preliminary Draft Standards

| SI. No.                 | Doc No. | Title |
|-------------------------|---------|-------|
| <i>No Records Found</i> |         |       |

#### Drafts Standards in WC Stage

| SI. No.                 | Doc No. | Title |
|-------------------------|---------|-------|
| <i>No Records Found</i> |         |       |

#### Draft Standards Completed WC Stage

| SI. No.                 | Doc No. | Title |
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| <i>No Records Found</i> |         |       |

## Finalized Draft Indian Standard

| SI. No.                 | Doc No. | Title |
|-------------------------|---------|-------|
| <i>No Records Found</i> |         |       |

## Finalized Draft Indian Standards under Print

| SI. No. | Doc No.                                   | Title  |
|---------|---|--|
| 1       | ETD 29 (06508)                            | Power Capacitors for Induction Heating Installations - Part 1 General  |
| 2       | ETD 29 (06509)                            | Power capacitors for induction heating installations - Part 2 Ageing test destruction test and requirements for disconnecting internal fuses   |
| 3       | ETD 29 (10378)                            | AUTOMATIC POWER FACTOR CORRECTION APFC PANELS FOR VOLTAGE RATING UPTO AND INCLUDING 1000 V   |
| 4       | ETD 29 (10738)                            | Capacitors for surge protection for use in voltage system above 650 V and upto 33kV<br>Amendment - 2   |
| 5       | ETD 29 (13223) Revision of: IS 9835:2001  | SERIES CAPACITORS FOR POWER SYSTEMS PART 1 GENERAL First Revision  |
| 6       | ETD 29 (13225) Revision of: IS 12677:1989 | SERIES CAPACITORS FOR POWER SYSTEMS PART 3 INTERNAL FUSES First Revision   |
| 7       | ETD 29 (13230)                            | COUPLING CAPACITORS AND CAPACITOR DIVIDERS PART 2 AC OR DC SINGLE-PHASE COUPLING CAPACITOR CONNECTED BETWEEN LINE AND GROUND FOR POWER LINE CARRIER-FREQUENCY PLC APPLICATION  |
| 8       | ETD 29 (13234)                            | COUPLING CAPACITORS AND CAPACITOR DIVIDERS PART 1 GENERAL RULES  |
| 9       | ETD 29 (15102)                            | AMENDMENT NO 3 TO IS 1709 1984 SPECIFICATION FOR CAPACITORS FOR ELECTRIC FAN MOTORS First Revision   |
| 10      | ETD 29 (15105)                            | SERIES CAPACITORS FOR POWER SYSTEMS PART 2 PROTECTIVE EQUIPMENT FOR SERIES CAPACITOR BANKS   |
| 11      | ETD 29 (15122) Revision of: IS 9251:1979  | Specification for capacitors for inductive heat generating plants operating at frequencies between 40 and 24 000 HZ  |
| 12      | ETD 29 (15123)                            | POWER CAPACITORS FOR INDUCTION HEATING INSTALLATIONS PART 2 AGEING TEST DESTRUCTION TEST AND REQUIREMENTS FOR DISCONNECTING INTERNAL FUSES   |
| 13      | ETD 29 (15124)                            | SERIES CAPACITORS FOR POWER SYSTEMS PART 4 THYRISTOR CONTROLLED SERIES CAPACITORS  |
| 14      | ETD 29 (15137) Revision of: IS 13648:1993 | CAPACITORS FOR POWER ELECTRONICS   |
| 15      | ETD 29 (16618) Revision of: IS 2993:1998  | a c Motor Capacitors Part 1 General Performance Testing and Rating Safety Requirements Guidance for Installation and Operation Third Revision  |
| 16      | ETD 29 (16619) Revision of: IS 2993:1998  | a c Motor Capacitors Part 2 Motor Start Capacitors Third Revision  |
| 17      | ETD 29 (21900)                            | Grading capacitors for high-voltage alternating current circuit-breakers Part 1 General  |
| 18      | ETD 29 (24351) Revision of: IS 13340:2012 | Shunt power capacitors of the self-healing type for ac 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 Second Revision |
| 19      | ETD 29 (24352) Revision of: IS 13340:2012 | 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 First Revision  |
| 20      | ETD 29 (24403)                            | Series Capacitors for Power Systems Part 2 Protective Equipment for Series Capacitor Banks   |
| 21      | ETD 29 (24406)                            | Capacitors for High Voltage Alternating Current Circuit Breakers Part 2 TRV capacitors   |
| 22      | ETD 29 (26603)                            | a c Motor Capacitors Part 1 General - Performance Testing and Rating - Safety Requirements - Guidance for Installation and Operation Third Revision Amendment - 1  |
| 23      | ETD 29 (26604)                            | a c Motor Capacitors Part 2 Motor Start Capacitors Third Revision Amendment - 1  |
| 24      | ETD 29 (28193) Revision of: IS 13925:2012 | SHUNT CAPACITORS FOR AC POWER SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V PART 1 GENERAL Second Revision  |
| 25      | ETD 29 (28194) Revision of: IS 13925:2002 | SHUNT CAPACITORS FOR AC POWER SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V PART 2 ENDURANCE TESTING Second Revision  |
| 26      | ETD 29 (28196) Revision of: IS 13925:2002 | SHUNT CAPACITORS FOR AC POWER SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V PART 3 PROTECTION OF SHUNT CAPACITORS AND SHUNT CAPACITOR BANKS First Revision  |

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| 27 | ETD 29 (28199) Revision of: IS 13925:2013 | SHUNT CAPACITORS FOR AC POWER SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V PART 4 INTERNAL FUSES First Revision |
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Total Published Standards:25 Total Standards Under development:27

### Aspect Wise Report

Product : 15  
Code of Practices : 0  
Methods of Test : 7  
Terminology : 0  
Dimensions : 0  
System Standard : 0  
Safety Standard : 1  
Others : 5  
Service Specification : 0  
Process Specification : 0  
Unclassified : 0

### Annexure-I :List of Indian Standards Withdrawn/Superseded

| SI. No. | IS No. & Year   | Title   |
|---------|---|---|
| 1       | IS 11530:1985<br>Reviewed In : 2021                                     | Specification for voltage grading capacitor   |
| 2       | IS 12672:1989<br>IEC 60593<br>Reviewed In : 2021 IEC 60593:1977         | Internal fuses and internal overpressure disconnectors for shunt capacitors - Specification   |
| 3       | IS 12677:1989<br>IEC 60595<br>Reviewed In : 2021 IEC 60595 :1977        | Internal fuses for series capacitors - Specification  |
| 4       | IS 12730:1989<br>IEC 60594<br>Reviewed In : 2021 IEC 594:1977           | Internal fuses and internal overpressure disconnectors for capacitors for inductive heat generating plants  |
| 5       | IS 13340:1993<br>IEC 60831-1<br>Reviewed In : 2018 IEC Pub 831-1 (1988) | Power capacitors of self-Healing type for AC power systems having rated voltage up to 650 V - Specification   |
| 6       | IS 13341:1992<br>IEC 60831-2<br>Reviewed In : 2008                      | Requirements for Ageing Test Self-healing Test and Destruction Test on Shunt Capacitors of the Self-healing Type for Ac Power Systems Having a Rated Voltage Upto and Including 650 V |
| 7       | IS 13580:1992<br>IEC 60594<br>Reviewed In : 2018 IEC 60931-1:1996       | Internal fuses and internal overpressure disconnectors for power electronic capacitors  |
| 8       | IS 13648:1993<br>IEC 61071<br>Reviewed In : 2018 IEC 61071-1 :1991      | Power electronics capacitors  |
| 9       | IS 2834:1986  | Shunt capacitors for power systems  |
| 10      | IS 9251:1979<br>iec 60110<br>Reviewed In : 2021 IS 9295 - 1979          | Specification for capacitors for inductive heat generating plants operating at frequencies between 40 and 24 000 HZ   |
| 11      | IS 9348:1998<br>IEC 358   | Coupling capacitors and capacitor dividers First Revision   |

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|    | Reviewed In : 2018 IEC<br>60358:1990  |  |
| 12 | IS 9835:1981<br>Reviewed In : 2017 iec<br>143:1972                                    | Specification for series capacitors for power systems  |
| 13 | IS 9835 (Part 1):2001<br>IEC 60143-1<br>Reviewed In : 2021 IEC<br>60143-1:1992        | Series Capacitors for Power Systems - Part 1 General Performance Testing and Rating - Safety Requirements - Guide for Installation |
| 14 | IS 9835 (Part 2):2021<br>IEC 60143-2:2012<br>ISO 31073: 2022                          | SERIES CAPACITORS FOR POWER SYSTEMS PART 2 PROTECTIVE EQUIPMENT FOR SERIES CAPACITOR BANKS   |
| 15 | IS 9835 (Part 3):2012<br>IEC 60143 Part 3<br>Reviewed In : 2017 IEC<br>60143-3 : 1998 | Series capacitors for power systems Part 3 internal fuses  |

### Annexure-II :List of Indian Product Standards

| SI. No. | IS No. & Year   | Title   |
|---------|---|---|
| 1       | IS 11548:1986<br>Reviewed In : 2021   | Specification for capacitors for surge protection for use in voltage system above 650 V and up to 33 KV   |
| 2       | IS 13340 (Part 1):2024<br>IEC 60831-1: 2014   | 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 Second Revision |
| 3       | IS 13585 (Part 3):2013<br>IEC 60931-3: 1996<br>Reviewed In : 2023 IEC<br>60931-3:1996 | Shunt power capacitors of the non - Self - Healing type for a c systems having a rated voltage up to and including 1 000 V Part 3 internal fuses  |
| 4       | IS 13666:1993<br>Reviewed In : 2023   | Energy storage capacitors - Specification   |
| 5       | IS 13925 (Part 4):2025  | SHUNT CAPACITORS FOR AC POWER SYSTEMS HAVING A RATED VOLTAGE ABOVE 1 000 V PART 4 INTERNAL FUSES First Revision   |
| 6       | IS 16636:2017<br>Reviewed In : 2022   | Automatic power factor correction APFC panels for voltage rating up to and including 1000 V   |
| 7       | IS 1709:1984<br>iec 252<br>Reviewed In : 2021 IEC<br>252:1975                         | Specification for capacitors or electric fan motors First Revision  |
| 8       | IS 2993 (Part 2):2024<br>IEC 60252-2:2010   | a c Motor Capacitors Part 2 Motor Start Capacitors Third Revision   |
| 9       | IS/IEC 60110-1:1998<br>IEC 60110-1 : 1998<br>Reviewed In : 2021                       | Power Capacitors for Induction Heating Installations Part 1 General First Revision  |
| 10      | IS/IEC 60143-1:2015<br>IEC 60143-1:2015<br>ISO 14627 : 2012                           | SERIES CAPACITORS FOR POWER SYSTEMS PART 1 GENERAL Second Revision  |
| 11      | IS/IEC 60143-2:2012<br>IEC<br>60143-2:2012+AMD1:2021<br>Reviewed In : 2024            | Series Capacitors for Power Systems Part 2 Protective Equipment for Series Capacitor Banks  |
| 12      | IS/IEC 60143-4:2010<br>IEC 60143-4:2010   | SERIES CAPACITORS FOR POWER SYSTEMS PART 4 THYRISTOR CONTROLLED SERIES CAPACITORS   |
| 13      | IS/IEC 61071:2017<br>IEC 61071:2017<br>Reviewed In : 2026 ISO                         | CAPACITORS FOR POWER ELECTRONICS First Revision   |

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|    | 14705 : 2016   |   |
| 14 | IS/IEC 62146-1:2013<br>IEC 62146-1: 2013 + AMD<br>1: 2016<br><b>Reviewed In : 2024</b> | Grading capacitors for high-voltage alternating current circuit-breakers Part 1 General |
| 15 | IS/IEC 62146-2:2023<br>IEC 62146-2:2023  | Capacitors for High Voltage Alternating Current Circuit Breakers Part 2 TRV capacitors  |