



# National Accreditation Board for Testing and Calibration Laboratories

## SCOPE OF ACCREDITATION

<b>Laboratory Name :</b>	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA
<b>Accreditation Standard</b>	ISO/IEC 17025:2017
<b>Certificate Number</b>	NABLT0626MP18404
<b>Validity</b>	10/06/2026 to 09/06/2030
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<b>Last Amended on</b>	22/06/2026

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Testing				
1	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Acidity	IS 1866:2017, IEC 60422:2024, IEC 62021-1 2003, IEC 62021-2
2	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Appearance	IS 1866:2017, IEC 60422:2024, ISO 2049
3	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Breakdown Voltage	IS 1866:2017, IEC 60422:2024, IEC 60156
4	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Density	IS 1866:2017, IEC 60422:2024, ISO 3675
5	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Dielectric Dissipation Factor	IS 1866:2017, IEC 60422:2024, IEC 60247
6	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Flash Point	IS 1866:2017, IEC 60422:2024, ISO 2719 - A
7	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Interfacial Tension @ 27°C	IS 1866:2017, IEC 60422:2024, ASTM D971
8	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Particle content	IS 1866:2017, IEC 60422:2024, IEC 60970 2007, ISO 4406
9	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Resistivity	IS 1866:2017, IEC 60422:2024, IEC 60247
10	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Sediment Sludge	IS 1866:2017 (Annexure C), IEC 60422: 2024 (Annexure E)
11	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Viscosity	IS 1866:2017, IEC 60422:2024, ISO 3104



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12	CHEMICAL-PETROLEUM AND PRODUCTS	In-service mineral insulating Oil	Water Content	IS 1866:2017, IEC 60422:2024, IEC 60814
13	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oil	Breakdown Voltage	IS 335:2018, IEC 60296:2020, IS 6792:2023, IEC 60156
14	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Acidity	IS 335-2018, IEC 60296-2020, IEC 62021-1
15	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Appearance	IS 335-2018, IEC 60296
16	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Density	IS 335-2018, IEC 60296-2020, IS 1448 (Part 16) 2014, ISO 3675
17	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Dielectric Dissipation Factor	IS 335:2018, IEC 60296:2020, IS 16086:2013, IEC 60247:2004, IEC 61620:1998, IS 16840
18	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Flash Point	IS 335-2018, IEC 60296-2020, IS 1448 (Part 21) - A 2019, ISO 2719 - A
19	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Interfacial Tension @ 27 °C	IS 335-2018, IEC 60296-2020, ASTM D971
20	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Particle Content	IS 335-2018, IEC 60296-2020, IS 13236 : 2013 /IEC 60970
21	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils	Viscosity * at 40°C	IS 335-2018, IEC 60296-2020, IS 1448 (Part 25/Sec 1): 2025, ISO 3104
22	CHEMICAL-PETROLEUM AND PRODUCTS	New Mineral Insulating Oils.	Water Content	IS 335:2018 , IEC 60296:2020, IEC 60814



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23	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled Electrical Equipment	Dissolved gas analysis (Acetylene, C <sub>2</sub> H <sub>2</sub> )	IS 9434: 2019; IS 10593: 2023, IS 16085: 2023, IEC 60567: 2023; IEC 60599: 2022, IEC 61181: 2007, ASTM D 3612: 2017, IEEE C57.106
24	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled electrical equipment	Dissolved gas analysis (Carbon Monoxide, CO)	IS 9434: 2019; IS 10593: 2023, IS 16085: 2023, IEC 60567: 2023; IEC 60599: 2022, IEC 61181: 2007, ASTM D 3612: 2017, IEEE C57.106
25	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled Electrical Equipment	Dissolved gas analysis (Ethane, C <sub>2</sub> H <sub>6</sub> )	IS 9434: 2019; IS 10593: 2023, IS 16085: 2023, IEC 60567: 2023; IEC 60599: 2022, IEC 61181: 2007, ASTM D 3612: 2017, IEEE C57.106
26	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled electrical equipment	Dissolved gas analysis (Hydrogen, H <sub>2</sub> )	IS 9434: 2019; IS 10593: 2023, IS 16085: 2023, IEC 60567: 2023; IEC 60599: 2022, IEC 61181: 2007, ASTM D 3612: 2017, IEEE C57.106
27	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled Electrical Equipment	Dissolved gas analysis (Methane, CH <sub>4</sub> )	IS 9434: 2019; IS 10593: 2023, IS 16085: 2023, IEC 60567: 2023; IEC 60599: 2022, IEC 61181: 2007, ASTM D 3612: 2017, IEEE C57.106
28	CHEMICAL-PETROLEUM AND PRODUCTS	Oil filled electrical equipment	Dissolved gas analysis (Nitrogen, N <sub>2</sub> )	IS 9434: 2019; IS 10593: 2023, IS 16085: 2023, IEC 60567: 2023; IEC 60599: 2022, IEC 61181: 2007, ASTM D 3612: 2017, IEEE C57.106



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29	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled electrical equipment	Dissolved gas analysis (Oxygen, O <sub>2</sub> )	IS 9434: 2019; IS 10593: 2023, IS 16085: 2023, IEC 60567: 2023; IEC 60599: 2022, IEC 61181: 2007, ASTM D 3612: 2017, IEEE C57.106
30	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled electrical equipment.	Dissolved gas analysis (Carbon Dioxide, CO <sub>2</sub> )	IS 9434: 2019; IS 10593: 2023, IS 16085: 2023, IEC 60567: 2023; IEC 60599: 2022, IEC 61181: 2007, ASTM D 3612: 2017, IEEE C57.106
31	CHEMICAL- PETROLEUM AND PRODUCTS	Oil filled Electrical Equipment.	Dissolved gas analysis (Ethylene, C <sub>2</sub> H <sub>4</sub> )	IS 9434: 2019; IS 10593: 2023, IS 16085: 2023, IEC 60567: 2023; IEC 60599: 2022, IEC 61181: 2007, ASTM D 3612: 2017, IEEE C57.106
32	ELECTRICAL- CABLES & WIRES	CABLE ACCESSORIES FOR EXTRUDED POWER CABLES, PVC Insulated Electric Cables, Cross Linked Polyethylene Insulated Thermoplastic & PVC Sheathed Cables,	Short Circuit Tests	IS 13573 : Part 1: 2011, IS 13573 : Part 2: 2011, IS 13573 : Part 3: 2011, CPRI Doc. No.TOP-02 issue No.5
33	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Stray d.c. magnetic induction of external origin 67mT	IS13779:1999 A.1 to 5Cl. Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.5.6.2.2, IS16444(Part 1):2015 A.1,2&3 Cl.6.12, IS13779:2020 Cl.12.11,
34	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Dielectric strength	IS15884:2010 Cl.G8(Withdrawn),IS1644 4 (Part 1): 2015 A.1, 2 & 3 Cl.7.2,IEC62055 -31, Cl. Annex C 8



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35	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Short circuit current carrying capacity	IS15884:2010 Cl.G6(Withdrawn), IS16444 (Part 1): 2015 A.1 and 2,3 Cl.7.2,IEC62055 -31:2022,Cl. Annex C6
36	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Minimum Switched Current	IS15884,2010 Cl. G7(Withdrawn), IS 16444 (Part 1): 2015 Cl. 7.2 A.1, 2, 3 IEC 62055 -31, Cl Annex C7
37	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Normal Operation	IS15884:2010 Cl.G2(Withdrawn),IS16444 (Part 1): 2015 A.1,2,3 Cl.7.2,IEC62055 -31:2022, Cl. Annex C2
38	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test for Smart Meter Communicability	IS16444 (Part 1): 2015 A.1,2&3 Cl.10.6.2
39	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Direct Connected Watthour Smart Meter Class 1 and Class 2	Smart Meter Functional Requirements	Cl.11 of IS 16444 (Part 1)-2015 A.1,2&3
40	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	A.C static Direct connected watt-hour Smart Meter and A.C static transformer operated watthour and Varhour Smart Meter	a) Accuracy of the meter at predefined points, b) Access and data read test, c) Remote disconnect/connect	IS 16444(Part 1):2015 A1,2 & 3 , IS 16444(Part 2) A1
41	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer operated Watthour and Var-hour Smart Meters Class 0.2S,0.5S and 1.0S	Smart Meter Functional Requirements	Cl.10 of IS 16444 (Part 2)-2017 Amd 1



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42	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Abnormal a.c.magnetic Induction of external Origin (10 mTesla)	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.5.6.2.4, IS16444(Part 2):2017A.1Cl.6.12, IS14697 A.1 & 2,Cl.12.10
43	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	AC voltage test	IS14697: 1999 A.1 to 4 Cl.12.7.6.3 (Withdrawn), CBIP-325:2015 Cl.5.4.6.3, IS16444(Part 2):2017 A.1Cl.6.10.6, IS14697:2021 A.1,2 Cl.12.7.6.2, IEC62052-31:2024 Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020 IEC 62053-22:2020, IEC62053-24:
44	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	AC voltage test	IS14697: 1999 A.1 to 4 Cl.12.7.6.3 (Withdrawn),CBIP-325:2015 Cl.5.4.6.3,IS16444(Part 2):2017A.1Cl.6.10.6, IS14697:2021 A1,2 Cl.12.7.6.2, IEC62052-31:2024 Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020 IEC62053-22:2020, IEC62053-24



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45	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Ambient temp. influence	IS14697: 1999 A.1 to 4 Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.5.6.3, IS16444(Part 2):2017A.1 Cl.6.12, IS14697:2021 Cl.12.11 A1,2, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24, Cl.7.10:
46	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Auxiliary voltage +/- 15%	IS14697:1999 A.1 to 4 Cl.12.10(Withdrawn),CBIP - 325:2015 Cl.4.2.2.10, IS16444 (Part 2): 2017 A.1Cl.6.12, IS14697:2021A.1,2,Cl.12.10, IEC62052-11:2020 Cl.9.4.8, IEC62053-21:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10, IEC62053-24Cl.7.10,
47	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Cold test	IS14697:1999 A.1 to 4Cl.12.6.2(Withdrawn), CBIP - 325:2015 Cl.5.3.2,IS16444 (Part 2):2017 A.1 Cl.6.9,IEC62052-11:2020 Cl.8.3.4,IEC62053-21:2020 Cl.8,IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:2020 Cl.8,IS14697 A.1 & 2 Cl.12.6.2



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48	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Continuous abnormal dc. magnetic Induction of external Origin (200/270 mTesla)	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.5.6.2.2, IS16444(Part 2):2017A.1Cl.6.12, IS14697 A.1 & 2 , Cl.12.10:
49	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Damp heat cyclic test	IS14697:1999A.1 to 4Cl.12.6.3(Withdrawn), CBIP-325:2015 Cl.5.3.3,IS16444 (Part 2): 2017 A.1IEC62052-11:2020 Cl.8.3.5,IEC62053-21:2020 Cl.8,IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:2020 Cl.8,IS14697 A.1,2 ,Cl.12.6.3:
50	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Dry heat test	IS14697:1999 A.1 to 4,Cl.12.6.1(Withdrawn), CBIP-325:2015 ,Cl.6.9, IS16444 (Part 2):2017 A.1 Cl.6.9,IEC62052-11:2020 Cl.8.3.3,IEC62053-21:2020 Cl.8 IEC62053-22:2020 Cl.8,IEC62053-24:2020 Cl.8,IS14697 A.1,2,Cl.12.6.1:
51	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Electrostatic Discharge Test	IS14697, 1999,A.1to 4, Cl.12.8.2(Withdrawn), CBIP - 325:2015Cl.5.5.2,IS16444 (Part2) A.1 Cl.6.11, IEC62052-11:2020Cl.9.3.3 , IEC62053-21:2020,IEC62053-22:2020, IEC62053-24:2020, IS14697 A.1,2,Cl.12.8.2



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52	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Fast transient burst test	,IS14697:1999 A.1to4Cl.12.8.4(Withdrawn), CBIP-325:2015 Cl.5.5.3,IS16444(Part 2):2017A.1Cl.6.11, IEC62052-11:2020 Cl.9.3.6,IEC62053-21:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10,IEC62053-24:2020 Cl.7.10,IS14697 A.1,2 Cl.12.8.4
53	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Frequency variation	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.5.4.6.3, IS16444(Part 2):2017A.1 Cl.6.12, IS14697:2021 A.1,2 Cl.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10:
54	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	General and constructional requirements: General, Meter case, Window,Terminals, Terminal Block and Protective earth Terminal, Terminal Cover, Clearances and Creepage distances, Insulating encased meter,Display of measured values, Output Device,	IS14697:1999 A.1 to 4 Cl.6.0 (Withdrawn), CBIP - 325:2015 Cl.4.2.2,IS16444 (Part 2):2017 A.1 &2Cl.6.0, IEC62052-11:2020Cl.5.0,I EC62053-21:2020,IEC620 53-22:2020,IEC62053-24: 2020,IS14697 A.1,2,Cl.6.0



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<b>Laboratory Name :</b>	CENTRAL POWER RESEARCH INSTITUTE, SWITCHGEAR TESTING AND DEVELOPMENT STATION, GOVINDPURA, BHOPAL, MADHYA PRADESH, INDIA
<b>Accreditation Standard</b>	ISO/IEC 17025:2017
<b>Certificate Number</b>	NABLT0626MP18404
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<b>Last Amended on</b>	22/06/2026

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
55	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Impulse voltage test	IS14697: 1999 A.1 to 4 Cl.12.7.6.2 (Withdrawn), CBIP-325:2015 Cl.5.4.6.2, IS16444(Part 2):2017A.1Cl.6.10.6, IS14697:2021 A1,2,Cl.12.7.6.2, IEC62052-31:2024 Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24:
56	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Influence of heating	IS14697:1999 A.1 to 4Cl.12.7.5(Withdrawn),CB IP - 325:2015 Cl.5.4.5,IS16444 (Part 2):2017 A.1 Cl.6.10.5, IEC62052-31:2024 Cl.10.4,IEC62052-11:2020 ,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23 :2020,IEC62053-24:2020,IS14697 A.1,2 ,Cl. 12.7.5
57	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Influence of self heating	IS14697:1999 A.1 to 4Cl.12.7.4(Withdrawn),CB IP-325:2015Cl.5.4.4,IS16444 (Part2):2017A.1Cl.6.10.4, IEC62052-11:2020 Cl.9.4.11,IEC62053-21, IEC62053-22, IEC62053-24:2020 Cl.7.10,IS14697 A.1,2 Cl.12.7.4



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
58	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Influence of supply Voltage	IS14697:1999 A.1 to 4 Cl.12.7.2(Withdrawn), CBIP-325:2015 ,IS16444 (Part 2) :2017A.1Cl.6.10.2, IEC62052-11:2020 Cl.9.3.2,IEC62053-21:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10,IEC62053-24:2020 Cl.7.10,IS14697 A.1,2,Cl.12.7.2,
59	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Insulation test	IS14697: 1999 A.1 to 4 Cl.12.7.6.4 (Withdrawn), CBIP-325:2015 Cl.5.4.6.4, IS16444(Part 2):2017 A.1Cl.6.10.6,IEC62052-31:2024 Cl.6.10.3.3, IS13779:2020 Cl.12.7.6.4, IS14697 A.1,2 Cl.12.7.6.4,
60	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Insulation test	IS14697: 1999 A.1to4 Cl.12.7.6.4 (Withdrawn),CBIP-325:2015 Cl.5.4.6.4,IS16444(Part 2):2017A.1Cl.6.10.6, IS13779:2020 Cl.12.7.6.4, IS14697 A.1,2 Cl.12.7.6.4,
61	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Interpretation of test Results	IS14697: 1999 A.1 to 4 Cl.12.15 (Withdrawn),CBIP-325:2015 ,IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1,2 Cl.12.15, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
62	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Limits of Error	IS14697: 1999 A.1 to 4 Cl.11.1 (Withdrawn), CBIP-325:2015 Cl.5.4.6.8, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1,2 Cl.11.1, IEC62052-11:2020, IEC62053-21:2020, IEC62053-23:2020, IEC62053-24, Cl.7.9
63	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	limits of error and Interpretation of test Results	IS14697: 1999 A.1 to 4 Cl.12.15 (Withdrawn), CBIP-325:2015 , IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1,2 Cl.12.15, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24
64	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Magnetic induction of external origin (0.5mT)	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.5.6.2.3, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1,2 Cl.12.10, IEC62052-11:2020, Cl.9.3.12, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24:



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65	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Marking of meters Name Plate Connection diagrams and terminal Marking	IS14697:1999A.1 to 4Cl.7.0(Withdrawn), CBIP: 325:2015 Cl.4.2.2.11, IS16444(Part2 ):2017A.1 Cl.6.8, IEC62052-11:2020, IEC62053-21:2020, IEC62053-24:2020, IS14697 A.1,2 Cl.7.0,
66	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Operation of an Accessories	IS14697:1999 A.1 to 4 Cl.11.2(Withdrawn), CBIP - 325:2015 Cl.4.6.2, IS16444 (Part 2):2017Cl.6.12, IEC 62052-11, 2020, IEC 62053-21:2020 Clause. 8.2, IEC 62053-22:2020,, IEC 62053-24:2020, IS14697 A.1,2
67	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Phase of auxiliary Supply changed by 120°	IS14697:1999A.1 to 4Cl.12.10(Withdrawn), IS16444 (Part 2) A.1:2017 Cl.6.12, IS14697 A.1,2 Cl.12.10,
68	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Power Consumption	IS 14697:1999A.1 to 4Cl.12.7.1(Withdrawn), CBIP-325:2015 Cl 5.4.1, IS 16444 (Part2) :2017A.1 Cl.6.10.1, IEC62052-11:2020 Cl.4.4, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24:2020 Cl.4.4, IS14697 A.1,2 Cl.12.7.1,



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
69	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Power Consumption	IS14697:1999A.1to4Cl.12.7.1(Withdrawn),CBIP-325:2015 Cl 5.4.1,IS16444 (Part2) :2017A.1Cl.6.10.1, IEC62052-11:2020Cl.4.4,I EC62053-21:2020,IEC62053-22:2020,IEC62053-24:2020 Cl.4.4,IS14697 A.1,2 Cl.12.7.1,
70	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Protection against penetration of dust and water	IS14697:1999 A.1 to 4Cl.12.5(Withdrawn) , CBIP - 325:2015 Cl. 5.2.5,IS16444 (Part 2):2017 A.1 Cl.6.5,IEC62052-31,2024 Cl.11,IEC62052-11:2020,I EC62053-21:2020,IEC62053-22:2020,IEC62053-24:2020,IS14697 A.1,2 ,Cl.12.5
71	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Radio Interference Measurement - Conducted emission-(0.15MHz to 30MHz)	IS14697:1999A.1to4Cl.12.8.5(Withdrawn), CBIP -325:2015Cl.5.5.5,IS16444(Part 2)A.1Cl.6.11,IS14697 A.1,2 Cl.12.8.6(a),
72	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Radio Interference Measurement- Radiated emission-(30MHz to 300MHz)	IS14697:1999A.1to4Cl.12.8.5(Withdrawn), CBIP-325:2015Cl.5.5.5,IS 16444 (Part 2) :2017A.1Cl.6.11, IS14697 A.1,2 Cl.12.8.6(a)



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
73	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Reversed phase sequence	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 2):2017A.1Cl.6.12, , IS14697:2021 A.1,2 Cl.12.10, IEC62052-11:2020,Cl.9.4.7, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10,;
74	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Shock test	IS14697:1999A.1 to 4,Cl.12.3.2(Withdrawn),C BIP - 325:2015 Cl.5.2.3,IS16444 (Part 2):2017 A.1 Cl.6.5,IEC62052-11:2020 Cl.5.2.1,IEC62053-21:2020,IEC62053-23:2020,IEC62053-24:2020,IS14697 A.1,2 ,Cl.12.3.3
75	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Short time over current Test	IS14697:1999 A.1 to 4 Cl.12.7.3(Withdrawn), CBIP-325:2015Cl.5.4.3, IS16444(Part2):2017A.1Cl .6.10.3, IEC62052-11:2020Cl.9.4.1 0,IEC62053-21, IEC62053-22, IEC62053-24:2020Cl.7.10, IS14697 A.1,2 Cl.12.7.3,



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
76	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Spring Hammer Test/mechanical test of meter case	IS14697:1999 A.1 to 4 Cl.12.3.3(Withdrawn), CBIP-325:2015 Cl.5.2.1,IEC62052-31:2015 Cl.8.2,IEC62052-11:2020,IEC62053-21:2020,IEC62053-24:2020,IS14697 A.1,2, Cl.12.3.3
77	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Stray d.c.magnetic induction of external origin 67mT	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.5.6.2.2, IS16444(Part 2):2017A.1Cl.6.12, IS14697 A.1,2, Cl.12.10:
78	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Surge immunity test	IS16444(Part2): 2017A.1Cl.6.11, IS14697:2021 A.1,2 Cl.12.8.5,2021,IEC62052-11:2020 Cl.9.3.9,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:2020,IEC62052-31:
79	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of Immunity to electromagnetic HF/RF Fields.	IS14697:1999 A.1 to 4 Cl.12.8.3 (Withdrawn), CBIP - 325:2015, IS16444 (Part 2):2017A.1 Cl.6.11,IS14697 A.1,2 Cl.12.8.3:



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80	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of immunity to earth/phase fault	IS14697:1999 A.1 to 4 Cl.12.17(Withdrawn), CBIP - 325:2015, IS16444(Part 2) :2017 A.1 Cl.6.10.7, IEC62052-11:2020 Cl.9.4.13, IEC62053-21:2020 Cl.7.10, IEC62053-22:2020 Cl.7.10, IEC62053-24:2020 Cl.7.10, IS14697:2021 A.1,2 , Cl.12.17:
81	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of Initial start -up of meter and Test of no load condition	IS 14697: 1999 A.1 to 4 Cl.12.12 (Withdrawn), CBIP-325:2015 Cl.5.6.4, IS16444(Part 2):2017 A.1 Cl.6.12, IS14697:2021 A.1,2 Cl.12.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24, Cl.7.6
82	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of Initial start -up of meter and Test of no load condition	IS14697: 1999 A.1 to 4 Cl.12.12 (Withdrawn), CBIP-325:2015 Cl.5.6.4, IS16444(Part 2):2017 A.1 Cl.6.12, IS14697:2021 A.1,2 Cl.12.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24, Cl.7.6:



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
83	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of meter constant	IS14697: 1999 A.1 to 4 Cl.12.14 (Withdrawn), CBIP-325:2015 Cl.5.4.6.6, IS16444(Part 2):2017A.1 Cl.6.12, IS14697:2021 A.1,2 Cl.12.14, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.4
84	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of meter constant	IS14697: 1999 A.1 to 4 Cl.12.14 (Withdrawn),CBIP-325:2015 Cl.5.4.6.6,IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1,2 Cl.12.14, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.4
85	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of repeatability of Error	IS14697: 1999 A.1 to 4 Cl.12.16 (Withdrawn), CBIP-325:2015 Cl.5.6.9, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1&2 Cl.12.16, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.8:



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86	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of repeatability of Error	IS14697: 1999 A.1 to 4 Cl.12.16 (Withdrawn), CBIP-325:2015 Cl.5.6.9, IS16444(Part 2):2017A.1 Cl.6.12, IS14697:2021 A.1,2 Cl.12.16, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24, Cl.7.8
87	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of resistance to heat & fire	IS14697:1999 A.1 to 4 Cl.12.4 (Withdrawn), CBIP-325:2015 Cl.5.2.4, IS16444 (Part 2):2017A.1 Cl.6.5, IEC62052-31:2015 Cl.9.3.2.1, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24:2020, IS14697 A.1&2 Cl.12.4,
88	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of starting condition	IS14697: 1999 A.1 to 4 Cl.12.13 (Withdrawn), CBIP-325:2015 Cl.5.4.6.5, IS16444(Part 2):2017A.1 Cl.6.12, IS14697:2021 A.1,2 Cl.12.13, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24, Cl.7.7:



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89	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test of starting condition	IS14697: 1999 A.1 to 4 Cl.12.13 (Withdrawn), CBIP-325:2015 Cl.5.4.6.5, IS16444(Part 2):2017 A.1 Cl.6.12, IS14697:2021 A1,2 Cl.12.13, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24, CL.7.7
90	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Test on limits of error	IS14697: 1999 A.1 to 4 Cl.11.1 (Withdrawn), CBIP-325:2015 Cl.5.4.6.8, IS16444(Part 2):2017 A.1 Cl.6.12, IS14697:2021 A.1,2 Cl.11.1, IEC62052-11:2020, IEC62053-21:2020, IEC62053-23:2020, IEC62053-24, Cl.7.9:
91	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Verification of anti-tamper features	CBIP R.Publication : 325,2015 Cl.6.7 IS14697,1999A.1to4(withdrawn), IS14697 A.1 Cl.6.7,
92	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Vibration test (Sine and random)	IS14697:1999A.1 to 4, Cl.12.3.2(Withdrawn), CBIP - 325:2015 Cl.5.2.3, IS16444 (Part 2):2017 A.1 Cl.6.5, IEC62052-11:2020 Cl.5.2.1, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24:2020, IS14697:2021A1, Cl.12.3.2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
93	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Voltage unbalance	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 2):2017A.1Cl.6.12, IS14697:2021 A.1 Cl.12.10, IEC62052-11:2020 Cl.9.4.5, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10:
94	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Voltage variation	IS14697: 1999 A.1 to 4 Cl.12 (Withdrawn), CBIP-325:2015, IS16444(Part 2):2017A.1Cl.6.12, , IS14697:2021 A.1 Cl.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10:
95	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	a.c Static Transformer Operated Watthour Meters (Class 0.1S, 0.2S and 0.5S) and Var-Hour Meters (Class 0.1S, 0.2S, 0.5S and 1S); AC Static Transformer operated Watthour and Var - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Waveform 10% of 3rd harmonic in the current	IS14697: 1999 A.1 to 4 Cl.12.10 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 2):2017A.1Cl.6.12, , IS14697 A.1 , Cl.12.10,
96	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	AC voltage test	Cl.5.4.6.3 IS 15884
97	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Cold test	Cl.5.3.2 IS 15884



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98	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Continuous abnormal dc. magnetic Induction of external Origin (200 mTesla)	CI 4.6.2 IS 15884
99	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Damp heat cyclic test	CI.5.3.3 IS 15884
100	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	DC & even harmonics in current circuit	CI 4.6.2 IS 15884
101	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Dry heat test	CI.5.3.1 IS 15884
102	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Effects of Disturbances on Time Keeping	IS15884:2010 ,Cl. D-4(Withdrawn), IEC62055 -31, Cl. D- 5:
103	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Effects of Disturbances on Time Keeping	Cl. D- 4 IS15884
104	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Frequency variation	CI 4.6.2 IS 15884



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105	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Functional requirements	Cl.5.9 IS15884
106	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	General Mechanical requirements ,General, Meter case, Window, Terminals, Terminal Block and Protective earth Terminal, Terminal Cover, Clearances and Creepage distances, Insulating encased meter, Display of measured values, Marking of meters Keypad Interference	Cl.4.2 IS15884
107	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Impulse voltage test	Cl.5.4.6.2 IS15884
108	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Insulation test	Cl.5.4.6.4 IS15884
109	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Interpretation of test Results	Cl.No.5.6.6 IS 15884
110	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Interruption and restoration of the load	Cl. 5.9 IS 15884



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111	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	limits of error and Interpretation of test Results	IS15884:2010 Cl.5.6.6(Withdrawn), IEC62055 -31:2022 Cl.8.0
112	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Limits of Error due to Ambient Temperature Variation	Cl. 4.6.3 IS 15884
113	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Magnetic induction of external origin (0.5mT)	Cl 4.6.2 IS 15884
114	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Magnetic induction of external origin 10 mT	Cl 4.6.2 IS 15884
115	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Operation of an Accessories	Cl.4.6.2 IS 15884
116	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Protection against penetration of dust and water	Cl. 5.2.5 IS 15884
117	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Radio Interference Measurement - Conducted emission-(0.15MHz to 30MHz	IS15884:2010Cl.5.5.5 (Withdrawn), IEC62055-31:2022 Cl.7.8.8,



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118	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Reversed phase sequence	Cl 4.6.2 IS 15884
119	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Shock test	Cl.5.2.2 IS 15884
120	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Spring Hammer Test/ mechanical test of meter case	Cl.5.2.1 IS 15884
121	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Stray d.c.magnetic induction of external origin 67mT	Cl 4.6.2 IS 15884
122	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Accuracy of Real time clock with temperature	Cl. D- 3.2.3 IS15884
123	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Charging Functions	Cl. 5.8 IS15884
124	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Load Switch operation at different Voltage and current.	Cl. 5.10 IS 15884



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125	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of meter constant	Cl.5.6.5 IS 15884
126	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of no load condition	Cl.5.6.3 IS 15884
127	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Real time Clocks on mains supplies	Cl. D-3.2.1, IS 15884
128	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Real time Clocks on Operation Reserve	Cl. D- 3.2.2 IS 15884
129	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of repeatability of Error	Cl.5.6.7 IS 15884
130	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of resistance to heat & fire	Cl.5.2.4 IS 15884
131	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of starting condition, initial start up of the meter	Cl.5.6.4 IS15884



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132	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test on limits of error	Cl.4.6.1 IS 15884
133	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Time keeping Accuracy	Cl. no. 4.7 IS15884
134	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Vibration test	Cl.5.2.3 IS 15884
135	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Voltage unbalance	Cl 4.6.2 IS 15884
136	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Voltage variation	Cl 4.6.2 IS 15884
137	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Waveform 10% of 3rd harmonic in the current	Cl 4.6.2 IS 15884
138	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Dielectric strength	Cl.G8 IS15884:2024 , IS16444 (Part 1): 2015 Amend.1,2 ,3



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139	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Endurance Test.	Cl.G3 IS15884:2024 , IS16444 (Part 1): 2015 Amend.1,2 ,3
140	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Fault current making capacity	Cl.G5 IS15884:2024 ,IS16444 (Part 1): 2015 A.1, 2 and 3
141	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Line to Load Voltage Surge Withstand	Cl.G4 IS15884:2024, IS16444 (Part 1): 2015 Amend.1,2 ,3
142	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Minimum Switched Current	Cl.G7 IS15884:2024 , IS16444 (Part 1): 2015 Amend.1,2 ,3
143	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Normal Operation	Cl.G2 IS15884:2024, IS16444 (Part 1): 2015 Amend.1,2 ,3
144	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Performance requirement for payment meter with Load switching utilization categories UC2 and UC3	Cl. 4.8 and Annexure G IS 15884
145	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 ;AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Short circuit current carrying capacity	Cl.G6 IS15884:2024, IS16444 (Part 1): 2015 Amend.1,2 ,3



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146	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Functional requirements	IS15884:2010 Cl.6.0 (Withdrawn), IEC62055 -31, Cl.9.0
147	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Electrostatic Discharge Test	Cl.5.5.2 IS 15884
148	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Fast transient burst test	Cl.5.5.4 IS 15884
149	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Influence of self heating	Cl.5.4.4 IS 15884
150	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Radio Interference Measurement-Radiated emission-(30MHz to 300MHz)	Cl.5.5.5 IS 15884
151	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Radio Interference Measurement Conducted Emission-(0.15MHz to 30MHz)	Cl.5.5.5 IS 15884
152	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Short time over current Test	Cl.5.4.3 IS 15884



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153	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Load Switch Capability	Cl. 4.8 IS 15884
154	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Influence of heating	Cl.5.4.5 IS 15884
155	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Influence of supply Voltage	Cl.5.4.2 and 5.4.2 IS15884
156	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Power Consumption	Cl 5.4.1 IS 15884
157	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Surge immunity test	Cl.5.5.6 IS 15884
158	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of Immunity to electromagnetic HF/RF Fields.	Cl.5.5.3 IS15884
159	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2, AC. Static Direct Connected Watthour Smart Meter Class 1 and 2	Test of immunity to earth/phase fault / Abnormal voltage condition	Cl.4.4.2.5 IS15884



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160	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of resistance to heat & fire	IS15884:2010 Cl.5.2.4(Withdrawn),IEC62055 -31:2022, IEC62052-31:2015Cl.9.3.2 .1,
161	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Abnormal voltage condition	IS15884:2010(Withdrawn) , IEC62055-31:2022, IS16444 (Part 1):2015 A.1,2,3 Cl.6.10.7
162	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Electrical Endurance	IS15884:2010 Cl.G3(Withdrawn),IS16444 (Part 1): 2015 A.1,2 and 3 Cl.7.2,IEC62055 -31:2022,Cl. Annex C3
163	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Electrostatic Discharge Test	IS15884:2010Cl.5.5.2(Wit hdrawn),IEC62055-31:202 Cl.7.8.2, IS16444 (Part 1): 2015 A.1&2&3 Cl.6.11,
164	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Fast transient burst test	IS15884:2010Cl.5.5.4(Wit hdrawn), IEC62055-31:2022 Cl.7.8.4, IS16444(Part1):2015A.1,2 ,3 Cl.6.11,
165	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Fault current making capacity	IS15884:2010 Cl.G5(Withdrawn),IS16444 (Part 1): 2015 A.1,2 and 3 Cl.7.2,IEC62055 -31,Cl. Annex C5:
166	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of heating	IS15884:2010 Cl.5.4.5(Withdrawn),IEC62055 -31:2022 Cl.7.5, IS16444 (Part 1): 2015 A.1& 2 &3 Cl.6.10.5,IEC62052-31:2024 Cl.10.4,



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167	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of self heating	IS15884:2010Cl.5.4.4(Wit hdrawn), IEC62055 -31:2022 Cl.7.6, IS16444(Part1): 2015 A.1&2&3 Cl.6.10.4,
168	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of supply Voltage	Cl.5.4.2, IS15884:2010(Withdrawn) Cl.4.4.2 & 5.4.2,IEC62055 -31:2022 Cl.7.2,IS16444 (Part 1): 2015 A.1&2&3 Cl.6.10.2,
169	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Line to Load Voltage Surge Withstand	IS15884:2010 Cl.G4(Withdrawn),IS1644 4 (Part 1): 2015 A.1,2&3,Cl.7.2,IEC62055 -31:2022, Cl. Annex C4
170	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Load Switching capability/ performance requirement for load switching	IS15884:2010 Cl. 4.6.6.2(Withdrawn),IEC62 055 -31:2022,Cl.7.9,IS16444 (Part 1)A.1 ,2,3 Cl.7.2:
171	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Short time over current Test	IS15884:2010Cl.4.4.3(Wit hdrawn), IEC62055 -31:2022, Cl.7.4,IS16444(Part1):201 5 A.1&2,3 Cl.6.10.3,
172	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Surge immunity test	IS15884:2010 Cl.5.5.7(Withdrawn), IEC62055 -31:2022 Cl.7.8.6,IS16444 (Part1):2015,A.1,2&3 Cl.6.11,
173	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of Immunity to electromagnetic HF/RF Fields.	IS15884:2010 Cl.5.5.3(Withdrawn), IEC62055-31:2022 Cl.7.8.3,IS16444 (Part 1): 2015 A.1,2,3 Cl.6.11,



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174	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Abnormal a.c.magnetic Induction of external Origin (10 mTesla)	IS15884:2010(Withdrawn) Cl.5.6.2.4,
175	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	AC voltage test	IS15884:2010 Cl.5.4.6.3 (Withdrawn), IEC62055 -31:2022 Cl.7.7
176	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	AC voltage test	IS15884:2010 Cl.5.4.6.3(Withdrawn), IEC62055 -31:2022 Cl.7.7,
177	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Ambient temp. influence	IS15884:2010 Cl.5.6.3(Withdrawn), IEC62055 -31:2022 Cl.8.0,
178	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Cold test	IS15884:2010 Cl.5.3.1(Withdrawn),IEC62055 -31:2022 Cl.No.6.0
179	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Continuous abnormal dc.magnetic Induction of external Origin(200/270 mTesla)	IS15884:2010 Cl.4.6.2(Withdrawn),
180	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Crystal-controlled Clocks on ac supplies	IS15884:2010(Withdrawn) ,Cl. D-3.2.1, IEC62055 -31,Cl. D- 4.3.1,



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181	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Crystal-controlled Clocks on Operation Reserve	IS15884:2010, Cl. D- 3.2.2 (Withdrawn), IEC62055 -31, Cl. D- 4.3.2:
182	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Damp heat cyclic test	IS15884:2010 Cl.5.3.1(Withdrawn), IEC62055 -31:2022 Cl.No.6.0,
183	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	DC & even harmonics in current circuit	IS15884:2010 Cl.4.6.2(Withdrawn), IEC62055 -31:2022 Cl.4.6.3
184	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Dry heat test	IS15884:2010 Cl.5.3.1(Withdrawn), IEC62055 -31:2022 IEC62052-11:2020 Cl.8.3.3, IEC62053-21:2020 Cl.8 IEC62053-22:2020 Cl.8, IEC62053-23:2020 Cl.8, IEC62053-24:2020 Cl.8,
185	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Frequency variation	IS15884:2010 Cl.4.6.2(Withdrawn), IEC62055 -31:2022 Cl.8.0



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186	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	General and constructional requirements: General, Meter case, Window, Terminals, Terminal Block and Protective earth Terminal, Terminal Cover, Clearances and Creepage distances, Insulating encased meter, Display of measured values, Output Device, Keypad Interference	IS15884:2010 Cl.4.1, 4.2.12.3 (Withdrawn), IEC62055 -31
187	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Impulse voltage test	IS15884:2010 Cl.5.4.6.2(Withdrawn), IEC62055 -31:2022 Cl.7.7,
188	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Insulation test	IS15884:2010 Cl.5.4.6.1(Withdrawn), IEC 62055 -31
189	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Insulation test	IS15884:2010 Cl.5.4.6.1(Withdrawn), IEC62055 -31:
190	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Interpretation of test Results	IS15884:2010 Cl.5.6.6(Withdrawn), IEC62055 -31:2022 Cl.8.0,
191	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Interruption and Restoration of Load for Emergency credit Facility	IS15884:2010 Cl.5.9, IEC62055 -31



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192	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Limits of Error	IS15884:2010 Cl.4.6.1(Withdrawn), IEC62055 -31:2005Cl.8.0
193	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Magnetic induction of external origin (0.5mT)	IS15884:2010 Cl.4.6.2(Withdrawn), IEC62055 -31:2022 Cl.7.7,
194	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Marking of meters Name Plate Connection diagrams and terminal Marking	IS15884:2010 Cl.4.2(Withdrawn), IEC62055 -31
195	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Operation of an Accessories	IS15884:2010 Cl.4.6.2(Withdrawn),IEC62 055 -31
196	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Power Consumption	IS 15884:2010 Cl 5.4.1 (Withdrawn), IEC 62055 -31:2022 Cl.7.3
197	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Power Consumption	IS15884:2010 Cl 5.4.1(Withdrawn), IEC62055 -31:2022 Cl.7.3,
198	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Protection against penetration of dust and water	IS15884:2010 Cl5.2.5(Withdrawn),IEC62 055-31:2022, IEC62052-31,2024 Cl.11,



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199	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Reversed phase sequence	IS15884:2010 Cl.4.6.2 (Withdrawn), IEC62055 -31:2022 Cl.8.0,
200	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Shock test	IS15884:2010 Cl.5.2.2(Withdrawn), IEC62055 -31:2022 Cl.5.2.2,
201	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Spring Hammer Test/ mechanical test of meter case	IS15884:2010 Cl.5.2.1(Withdrawn),IEC62055-31:2022,IEC62052-31:2024 Cl.8.2,
202	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Stray d.c.magnetic induction of external origin 67mT	IS15884:2010 Cl.4.6.2(Withdrawn),
203	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of Initial start -up of meter and Test of no load condition	IS 15884:2010 Cl.5.6.3(Withdrawn), IEC 62055 -31:2022 Cl.8.0,
204	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of Initial start -up of meter and Test of no load condition	IS15884:2010 Cl.5.6.3(Withdrawn), IEC62055 -31:2005Cl.8.0
205	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of meter constant	IS15884:2010 Cl.5.6.5(Withdrawn), IEC62055 -31:2022 Cl.8.0,



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206	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of meter constant	IS13779:1999 A.1 to 5Cl.12.15 (Withdrawn), IS15884:2010 Cl.5.6.5, IEC62055 -31:2022 Cl.8.0,
207	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of repeatability of Error	IS15884:2010 Cl.5.6.7(Withdrawn), IEC62055 -31:2022 Cl.7.7,
208	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of repeatability of Error	IS 15884:2010 Cl.5.6.7(Withdrawn), IEC 62055 -31:2022 Cl.7.7,
209	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of starting condition,	IS15884:2010 Cl.5.6.4(Withdrawn), IEC62055 -31:2022 Cl.8.0
210	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test of starting condition	IS15884:2010 Cl.5.6.4(Withdrawn), IEC62055 -31:2022 Cl.8.0
211	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Test on limits of error	IS15884:2010 Cl.4.6.1(Withdrawn), IEC62055 -31:2022 Cl.8.0,
212	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Vibration test (Sine and random)	IS15884:2010 Cl.5.2.3(Withdrawn),IEC62055 -31:2022 cl.no.5.2.3,



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213	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Voltage unbalance	IS15884:2010 Cl.4.6.2(Withdrawn), IEC62055 -31:2022 Cl.8.0,
214	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Voltage variation	IS15884:2010 Cl.4.6.2(Withdrawn), IEC62055 -31:2022 Cl.8.0,
215	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC direct connected Static prepayment Meters for Active Energy Class 1 and 2;	Waveform 10% of 3rd harmonic in the current	IS15884:2010 Cl.4.6.2(Withdrawn),
216	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2, AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Vibration test (Sine and random)	IS13779:1999 A.1 to 5Cl.12.3.2(Withdrawn), IS16444 (Part 1): 2015 A.1&2 Cl.6.5, IS13779:2020 Cl.12.3.2,IEC62052-11:2020 Cl.5.2.1,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:
217	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2	Test of Accuracy of Crystal controlled clock with temperature	IS15884, 2010, Clause D-3.2.3(Withdrawn), IEC 62055 -31, 2022, Clause D- 4.3.3
218	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Abnormal a.c.magnetic induction of external Origin (10 mTesla)	IS13779:1999 A.1 to 5Cl. Cl 12.11 (Withdrawn), CBIP-325:2015 Cl.5.6.2.4, 16444 (Part 1):2015A.1,2& 3 Cl.6.12, IS13779:2020 Cl.12.11,



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219	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour	Test of immunity to conducted disturbances induced by Radio frequency field.	IEC62055 -31:2022 Cl.7.8.5, IEC62052-11:2020 Cl.9.3.7, IEC62053-21:2020 Cl.7.10, IEC62053-22:2020 Cl.7.10, IEC62053-23:2020 Cl.7.10, IEC62053-24:2020 Cl.7.10
220	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Harmonic component in current and voltage	IEC62055 -31:2022, Cl.4.6.2 IEC62052-11, 2020, Cl.9.4.2.3 IEC62053-21, 2020, Cl.7.10 IEC62053-22, 2020, Cl.7.10 IEC62053-23, 2020, Cl.7.10 IEC62053-24, Cl.7.10,
221	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Odd harmonics in ac current circuit	IEC62055 -31:2022, Cl.4.6.2 IEC62052-11, 2020, Cl.9.4.2.4 IEC62053-21, 2020, Cl.7.10 IEC62053-22, 2020, Cl.7.10 IEC62053-23, 2020, Cl.7.10 IEC62053-24, Cl.7.10,
222	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S and 1.0S	Sub harmonics in ac current circuit/ Interharmonics in ac current circuit- Burst fired waveform test	IEC62055 -31:2022, Cl.4.6.2 IEC62052-11, 2020, Cl.9.4.2.3 IEC62053-21, 2020, Cl.7.10 IEC62053-22, 2020, Cl.7.10 IEC62053-23, 2020, Cl.7.10 IEC62053-24, Cl.7.10
223	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S, 0.5S	Continuous magnetic induction of external origin	IEC62055 -31:2022 Cl.7.7, IEC62052-11:2020, Cl.9.3.12, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24:



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224	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC. Static Direct Connected Watthour Smart Meter Class 1 and 2;	Impulse Voltage	IS13779:1999 A.1 to 5Cl.12.7.6.2 (Withdrawn), CBIP-325:2015 Cl.5.4.6.2, IS16444(Part 1):2015 A.1&2&3 Cl.6.10.6, IS13779:2020 Cl.12.7.6.2, IEC62052-31:2024 Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24
225	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Ambient temp influence	IS13779:1999 A.1 to 5Cl.12.12 (Withdrawn), CBIP-325:2015 Cl.5.6.3, IS16444(Part 1):2015 A.1,2&3 Cl.6.12, IS13779:2020 Cl.12.12, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24, Cl.7.10:
226	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	DC & even harmonics in the current circuit	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 1):2015 A.1&2&3 Cl.6.12, IS13779:2020 Cl.12.11, IEC62052-11:2020, Cl.9.4.2.5, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24, Cl.7.10:



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227	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Insulation test	IS13779:1999 A.1to5Cl.12.7.6.4 (Withdrawn), CBIP-325:2015 Cl.5.4.6.4, Cl.7.7, IS16444(Part 1):2015 A.1&2&3Cl.6.10.6, IEC62052-31:2024 Cl.6.10.3.3 , IS13779:2020 Cl.12.7.6.4,
228	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Limits of error	IS13779:1999 A.1 to 5Cl.11.1 (Withdrawn), CBIP-325:2015 Cl.5.4.6.8, IS16444(Part 1):2015 A.1&2&3 Cl.6.12, IS 13779:2020 Cl.11.1, Cl.8.0 IEC62052-11:2020, IEC62053-21:2020, IEC62053-23:2020, IEC62053-24:
229	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Limits of error & Interpretion of test Results	IS13779:1999 A.1 to 5Cl.12.16 (Withdrawn), CBIP-325:2015 Cl.5.6.7, IS16444(Part 1):2015 A.1&2&3 IS13779:2020 Cl.12.16, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24



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230	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Reversed phase sequence	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 1):2015 A.1, 2 & 3 Cl.6.12, IS13779:2020 Cl.12.11, IEC62052-11:2020, Cl.9.4.7, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24, Cl.7.10,;
231	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test of immunity to earth/phase fault	IS13779:1999 A.1 to 5 Cl.12.8(Withdrawn), CBIP - 325:2015, IS16444 (Part 1):2015 A.1,2&3 Cl.6.10.7, IS13779 :2020 Cl.12.8, IEC62052-11 : 2020 Cl.9.4.13, IEC62053-21:2020 Cl.7.10, IEC62053-22:2020 Cl.7.10, IEC62053-23:2020 Cl.7.10, IEC62053-24:2020 Cl.7.10,
232	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test of Initial start -up of meter and Test of no load condition	IS13779:1999 A.1 to 5Cl.12.13 (Withdrawn), CBIP-325:2015 Cl.5.6.4, Cl.8.0, IS16444(Part 1) :2015 A.1,2&3 Cl.6.12, IS13779:2020 Cl.12.13, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24, Cl.7.6:



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233	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test of repeatability of Error	IS13779:1999 A.1 to 5Cl.12.17 (Withdrawn), CBIP-325:2015 Cl.5.6.9, IS16444(Part 1):2015 A.1,2&3 IS13779:2020 Cl.12.17, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.8
234	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test of starting condition	IS13779:1999 A.1 to 5Cl.12.14 (Withdrawn), CBIP-325:2015 Cl.5.4.6.5, IS16444(Part 1):2015 A.1,2&3 Cl.6.12, IS13779:2020 Cl.12.14, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,CL.7.7:
235	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Voltage unbalance	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 , IS16444(Part 1):2015 A.1&2 Cl.6.12, IS13779:2020 Cl.12.11, IEC62052-11:2020 Cl.9.4.5, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.10:



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236	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Frequency variation	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.5.4.6.3, IS16444(Part 1):2015 A.1&2&3 Cl.6.12, IS13779:2020 Cl.12.11, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.10:
237	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	AC voltage test	IS13779:1999 A.1 to 5Cl.12.7.6.3 (Withdrawn), CBIP-325:2015 Cl.5.4.6.3 IS16444(Part 1):2015 A.1,2 & 3 Cl.6.10.6, IS13779:2020 Cl.12.7.6.2, IEC62052-31:2024 Cl.6.10.3.3, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24
238	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Cold test	IS13779:1999 A.1 to 5Cl.12.6.2(Withdrawn), CBIP - 325:2015 Cl.5.3.2,IS16444 (Part 1): 2015 A.1,2,3 Cl.6.9, IS13779:2020 Cl.12.6.2 IEC62052-11:2020 Cl.8.3.4,IEC62053-21:2020 Cl.8,IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:2020 Cl.8



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239	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Damp heat cyclic test	IS13779:1999 A.1 to 5Cl.12.6.3(Withdrawn),CB IP-325:2015 ,IS16444 (Part 1): 2015 A.1&2&3Cl.6.9, IS13779:2020Cl.12.6.3,IE C62052-11:2020 Cl.8.3.5,IEC62053-21:2020 Cl.8,IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:
240	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Dry heat test	IS13779:1999 A.1 to 5 Cl.12.6.1(Withdrawn), CBIP-325:2015Cl.5.3.1,IS1 6444 (Part 1): 2015 A.1&2&3Cl.6.9, IS13779:2020 Cl.12.6.1 IEC62052-11:2020 Cl.8.3.3,IEC62053-21:2020 Cl.8 IEC62053-22:2020 Cl.8,IEC62053-23:2020 Cl.8,IEC62053-24:2020 Cl.8,
241	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	General and constructional requirements: General, Meter case, Window,Terminals, Terminal Block and Protective earth Terminal, Terminal Cover,Clearances and Creepage distances, Insulating encased meter, Display of measured values, Output Device	IS13779:1999 A.1to 5 Cl.6.0 (Withdrawn), CBIP - 325:2015 Cl.4.2.2,IS16444 (Part 1): 2015 A.1&2&3 Cl.6.0,IS13779:2020 Cl.6.0, IEC62052-11:2020Cl.5.0,I EC62053-21:2020,IEC620 53-22:2020,IEC62053-23: 2020,IEC62053-24:



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242	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Insulation test	IS13779:1999 A.1to5Cl.12.7.6.4 (Withdrawn), CBIP-325:2015 Cl.5.4.6.4,Cl.7.7,IS16444(Part 1):2015A.1&2&3 Cl.6.10.6 ,IS13779:2020 Cl.12.7.6.4,
243	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Interpretation of test Results	IS13779:1999 A.1 to 5Cl.12.16 (Withdrawn), CBIP-325:2015 Cl.5.6.7,IS16444(Part 1):2015A.1&2&3 IS13779:2020 Cl.12.16, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24
244	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Magnetic induction of external origin (0.5mT)	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.5.6.2.3, IS16444(Part 1):2015A.1&2&3 Cl.6.12, IS13779:2020 Cl.12.11, , IEC62052-11:2020, Cl.9.3.12, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24
245	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Marking of meters, nameplate, connection diagrams, and terminal Marking	IS13779:1999A.1to 5Cl.7.0(Withdrawn), CBIP: 325:2015 Cl.4.2.2.11,IS16444(Part1 ):2015A.1,2&3 Cl. 6.8,IS13779:2020 Cl.6.0,IEC62052-11:2020,I EC62053-21:2020,IEC62053-22:2020,IEC62053-23: 2020,IEC62053-24:



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246	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Operation of an Accessories	IS13779:1999 A.1 to 5Cl.12.11(Withdrawn), CBIP - 325:2015Cl.4.6.2,IS16444 (Part 1):2015 A.1&2&3 Cl.6.12,IS13779:2020 Cl.12.11,IEC 62052-11, 2020,IEC 62053-21:2020 Clause. 8.2 IEC 62053-22:2020,IEC 62053-23:2020, IEC 62053-24:
247	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Power Consumption	IS13779:1999A.1to5Cl 12.7.1(Withdrawn),CBIP-3 25:2015 Cl 5.4.1,IS16444(Part1): 2015 A.1,2&3 & 2Cl.6.10.1,IS13779:2020Cl.12.7.1,IEC62052-11:2020 Cl.4.4,IEC62053-21:2020 ,IEC62053-22:2020,IEC62 053-23:2020,IEC62053-24 :2020 Cl.4.4
248	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Protection against penetration of dust and water	IS13779:1999 A.1 to 5Cl.12.5(Withdrawn) ,CBIP - 325:2015 Cl. 5.2.5, IS16444 (Part 1): 2015 A.1,2&3 Cl.6.5,IS13779:2020 Cl.12.5,IEC62052-31,2024 Cl.11,IEC62052-11:2020,I EC62053-21:2020,IEC620 53-22:2020,IEC62053-23: 2020,IEC62053-24
249	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Radio Interference Measurement- Conducted emission-(0.15MHz to 30MHz)	IS13779:1999A.1to5Cl.12. 9(Withdrawn), CBIP -325:2015Cl.5.5.5,IS1644 4(Part1): 2015A.1,2&3Cl.6.11,IS137 79:2020 Cl.12.9.6,



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250	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Shock test	IS13779:1999 A.1 to 5Cl.12.3.1(Withdrawn), CBIP-325:2015 Cl.5.2.2, ,IS16444(Part 1): 2015 A.1,2&3 Cl.6.5,IS13779:2020 Cl.12.3.1,IEC62052-11:2020 Cl.5.2.2,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24
251	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Spring Hammer Test/ mechanical test of meter case	IS13779:1999 A.1 to 5Cl.12.3.3(Withdrawn), CBIP-325:2015 Cl.5.2.1,IS16444 (Part 1): 2015 A.1,2&3 Cl.6.5, IS13779:2020 Cl.12.3.3,IEC62052-31:2020 Cl.8.2,IEC62052-11:2020,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:
252	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of meter constant	IS13779:1999 A.1 to 5Cl.12.15 (Withdrawn), CBIP-325:2015 Cl.5.4.6.6,IS16444(Part 1):2015 A.1,2&3 IS13779:2020 Cl.12.15, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.4



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253	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of repeatability of Error	IS13779:1999 A.1 to 5Cl.12.17 (Withdrawn), CBIP-325:2015 Cl.5.6.9, IS16444(Part 1):2015A.1,2&3 IS13779:2020 Cl.12.17, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.8:20206 2053-21:2020, IEC62053-22:2020, IEC62053-24,Cl.7.10
254	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of resistance to heat & fire	IS13779:1999 A.1 to 5Cl.12.4(Withdrawn), CBIP -325:2015 Cl.5.2.4, IS16444 (Part 1): 2015 A.1,2&3Cl.6.5,IS13779:20 20 Cl.12.4 , IEC62052-31:2015Cl.9.3.2 .1,IEC62052-11:2020, IEC62053-21:2020,IEC620 53-22:2020,IEC62053-23: 2020,IEC62053-24
255	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of starting condition	IS13779:1999 A.1 to 5Cl.12.14 (Withdrawn), CBIP-325:2015 Cl.5.4.6.5,IS16444(Part 1):2015A.1,2&3 Cl.6.12, IS13779:2020 Cl.12.14, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC620 53-23:2020, IEC62053-24,CL.7.7



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256	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Waveform 10% of 3rd harmonic in the current	IS13779:1999 A.1 to 5Cl.12.11 (Withdrawn), CBIP-325:2015 Cl.4.6.3, IS16444(Part 1):2015 A.1&2 Cl.6.12, IS13779:2020 Cl.12.11,
257	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2; AC.Static Transformer operated Watthour	Continuous abnormal dc. magnetic Induction of external Origin (200/270 mTesla)	IS13779:1999 A.1 to 5Cl. Cl 12.11 (Withdrawn), CBIP-325:2015 Cl.5.6.2.2, , IS16444(Part 1):2015A.1,2 & 3 Cl.6.12, IS13779:2020 Cl.12.11,
258	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test on limits of error	IS13779:1999 A.1 to 5Cl.11.1 (Withdrawn), CBIP-325:2015 Cl.5.4.6.8,IS16444(Part 1):2015 A.1,2&3 Cl.6.12, IS13779:2020 Cl.11.1, Cl.8.0 IEC62052-11:2020, IEC62053-21:2020, IEC62053-23:2020, IEC62053-24
259	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Meter constant	IS13779:1999 A.1 to 5Cl.12.15 (Withdrawn), CBIP-325:2015 Cl.5.4.6.6, IS16444(Part 1):2015 A.1&2&3 IS13779:2020 Cl.12.15, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, IEC62053-24,Cl.7.4



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260	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Power Consumption	IS 13779:1999A.1to5 Cl.12.7.1(Withdrawn), CBIP-325:2015 Cl.5.4.1,IS 16444(Part1): 2015 A.1,2&3 Cl.6.10.1, IS 13779:2020Cl.12.7.1, IEC62052-11:2020Cl.4.4,I EC62053-21:2020,IEC62053-23:2020,IEC62053-24:2020 Cl.4.4,
261	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of Initial start -up of meter and Test of no load condition	IS13779:1999 A.1 to 5Cl.12.13 (Withdrawn), CBIP-325:2015 Cl.5.6.4,Cl.8.0,IS16444(Pa rt 1):2015A.1,2&3 Cl.6.12, IS13779:2020 Cl.12.13, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020,IEC62053-23:2020, Cl.7.6
262	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2;	Radio Interference Measurement- Radiated emission-(30MHz to 300MHz)	IS13779:1999A.1to5Cl.12.9(Withdrawn), CBIP-325:2015Cl.5.5.5, IS13779:2020Cl.12.9.6,
263	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters,Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2; AC.Static Transformer operated Watthour and VAr - hour Smart MeterClass 0.2S,0.5S and 1.0S	Damped Oscillatory Wave Immunity Test	CI 9.3.11 IEC 62052-11:2020, CI 10.0 IEC 62053-21:2020, CI 10.0 IEC 62053-22:2020, CI 10.0 IEC 62053-23:2020, CI 10.0 IEC 62053-24



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264	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	Immunity to conducted disturbances induced by radio frequency fields	CI 9.3.7 IEC 62052-11:2020, CI 10.0 IEC 62053-21:2020, CI 10.0 IEC 62053-22:2020, CI 10.0 IEC 62053-23:2020, CI 10.0 IEC 62053-24
265	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S	Ring Wave Immunity Test	CI 9.3.10 IEC 62052-11:2020, CI 10.0 IEC 62053-21:2020, CI 10.0 IEC 62053-22:2020, CI 10.0 IEC 62053-23:2020, CI 10.0 IEC 62053-24
266	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC Static Transformer operated Watthour and VAR- Hour Meters, Class 0.2 and 0.5; AC direct connected Static prepayment Meters for Active Energy Class 1 and 2 AC.Static Direct Connected Watthour Smart Meter Class 1 and 2; AC.Static Transformer operated Watthour and VAR - hour Smart Meter Class 0.2S,0.5S and 1.0S;	Voltage variation	IS13779:1999 A.1 to 5CI.12.11 (Withdrawn), CBIP-325:2015 CI.4.6.3, IS16444(Part 1):2015 A.1&2 CI.6.12, IS13779:2020 CI.12.11, IEC62052-11:2020, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24, CI.7.10
267	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Electrostatic Discharge Test	IS13779:1999 A.1 to 5CI.12.9.2(Withdrawn), CBIP - 325:2015CI.5.5.2, IS13779 :2020 CI.12.9.2, IEC62052-11:2020 CI.9.3.3, IEC62053-21:2020, IEC62053-22:2020, IEC62053-23:2020, IEC62053-24 2020IS:16444 (part1 )A1&2&3



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268	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Fast transient burst test	IS13779:1999A.1to5Cl.12.9.4(Withdrawn), IS:16444 (part1)A1&2&3 2015,CBIP-325:2015 Cl.5.5.3,IS13779:2020Cl.1 2.9.4,IEC62052-11:2020 Cl.9.3.6,IEC62053-21:2020 Cl.7.10,IEC62053-22:2020 Cl.7.10,IEC62053-23:2020 Cl.7.10,IEC62053-24:2020 Cl.7.10,
269	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of heating	IS13779:1999 A.1 to 5 Cl.12.7.5(Withdrawn), IS:16444 (Part1),A1,2 & 3 :2015,CBIP - 325:2015 Cl.5.4.5, ,IS13779:2020 Cl.12.7.5,IEC62052-31:2020 Cl.10.4,IEC62052-11:2020 ,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23 :2020,IEC62053-24:
270	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of self heating	IS13779:1999A.1to 5Cl.12.7.4(Withdrawn)IS:16444(part1) A1&2&3:2015, CBIP-325:2015Cl.5.4.4,IS13779:2020,Cl.12.7.4,IEC62052-11:2020 Cl.9.4.11,IEC62053-21, IEC62053-22, IEC62053-23, IEC62053-24:2020 Cl.7.10,



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271	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Influence of supply Voltage	IS13779:1999 A1 to5Cl.12.7.2(Withdrawn), IS:16444(part1)A1&2&3:2015, CBIP- 325:2015 Cl.5.4.2, ,IS13779:2020 Cl.12.7.2,IEC62052-11:2020 Cl.9.3.2,IEC62053-21:2020 Cl.7.10,IEC62053-22:2020,Cl.7.10,IEC62053-23:2020 Cl.7.10,IEC62053-24:2020 Cl.7.10
272	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Short time over current Test	IS13779:1999A.1to5Cl.12.7.3(Withdrawn), IS16444(part1)A.1,2&3:2015,CBIP-325:2015Cl.5.4.3, ,IS13779:2020 Cl.12.7.3,IEC62052-11:2020Cl.9.4.10,IEC62053-21, IEC62053-22, IEC62053-23, IEC62053-24:2020Cl.7.10,
273	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Surge immunity test	IS13779:2020 , IS16444(part)A.1,2&3:2015,Cl.12.9.5,IEC62052-11:2020 Cl.9.3.9,IEC62053-21:2020,IEC62053-22:2020,IEC62053-23:2020,IEC62053-24:2020,IEC62052-31
274	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter Class 1 and 2; AC.Static Direct Connected Watthour Smart MeterClass 1 and 2;	Test of Immunity to electromagnetic HF/RF Fields.	IS13779:1999 A.1 to 5 Cl.12.9.3(Withdrawn),, IS15884:2010 Cl.5.5.3(Withdrawn) ,CBIP - 325:2015 Cl.5.5.3,IS16444 (Part 1): 2015 A.1,2&3 Cl.6.11,IS13779



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275	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC Static Watthour Meter; AC Static Direct Connected Watthour Smart Meter; AC direct connected Static prepayment Meters; AC Static Transformer operated Watthour Meter and VAR-Hour Meters; AC Static Transformer operated Watthour and VAR - hour Smart Meter.	Radio Interference Measurement (Conducted and Radiated Emission)	IS16444(Part1):2015A.1,2 ,3 Cl. 6.11, , IEC62055-31:2005Cl.7.8.8 CBIP: 325:2015, Cl. No. 9.3.14 IEC 62052-11:2020, Cl 10.0 IEC 62053-21:2020, Cl 10.0 IEC 62053-22:2020, Cl 10.0 IEC 62053-23:2020, Cl 10.0 IEC 62053-24: 2020 , IS16444(Part2):2017A.1 Cl.6.11, IS14697 A1,2 Cl.12.8.6, 2021, CISPR32:2015/A1:2019, IS15884:2024 Cl.5.5.5.2
276	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Smart meter Functional Requirement	IS16444 (Part 1): 2015 A.1 and 2 Cl.11.0
277	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test for Data Exchange Protocol	IS16444 (Part 1): 2015 A.1,2&3 Cl.10.5 IS15959 (Part 1): 2011 with Am. 1 July 2014, Am. 2 March 2015, Am. 3 January 2016 and Am. 4 April,2017. Amendment No. 5 Feb.2021 IS15959 (Part 2): 2016 with Am.1and 2, April 2017



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
278	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Direct Connected Watthour Smart Meter Class 1 and 2;	Test for Smart Meter Communicability (Equipment Type Approval (ETA) of modules for WAN/NAN/HD shall be approved by designated agency authorized by DoT)	IS16444 (Part 1): 2015 A.1,2&3 Cl.10.6.2 IS15959 (Part 1): 2011 with Amendment No. 1 July 2014, Amendment No. 2 March 2015, Amendment No. 3 January 2016, Amendment No.4 April,2017 and Amendment No. 5 Feb.2021 IS15959 (Part 2): 2016 with A.1, April 2017,A.2,May
279	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Transformer operated Watthour and VAr - hour Smart Meter Class 0.2S,0.5S and 1.0S	Test for smart meter communicability	IS16444 (Part 2) ,A.1 , Cl.9.5.2
280	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Transformer operated Watthour and VAr - hour Smart Meter Class 0.2S,0.5S and 1.0S	Smart meter Functional Requirement	IS16444 (Part 2),2017 A.1,Cl.10.0
281	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Transformer operated Watthour and VAr - hour Smart Meter Class 0.2S,0.5S and 1.0S	Test for Data Exchange Protocol	IS16444 (Part 2) : 2016 A.1 Cl.9.4 IS15959 (Part 1): 2011 with Am. 1 July 2014, Am. 2 March 2015, Am. 3 January 2016 and Am. 4 April,2017. Amendment No. 5 Feb.2021 IS15959 (Part 3):



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
282	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	AC.Static Transformer operated Watthour and VAr – hour Smart MeterClass 0.2S,0.5S and 1.0S	Test for Smart Meter Communicability (Equipment Type Approval (ETA) of modules for WAN/NAN/HD shall be approved by designated agency authorized by DoT)	IS16444 (Part 2) : 2016 A.1 Cl.9.6.2 IS15959 (Part 1): 2011 with Amendment No. 1 July 2014, Amendment No. 2 March 2015, Amendment No. 3 January 2016, Amendment No.4April,2017 and Amendment No. 5 Feb.2021, IS15959 (Part 3)
283	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter	Conformance test	IS 15959 (Part 1): 2011 A.1 to 5, IEC 62056 (DLMS / COSEM)-2005:
284	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter	Conformance test	IS / IEC 62056 (DLMS / COSEM)-2005:
285	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter -Smart Meter Category D1 & D2	17.0 Event code and Event logging :(a) Indian Event Reference Table - Voltage Related(b)Indian Event Reference Table - Current Related(c) Indian Event Reference Table - Power Related(d) Indian Event Reference Table - Transaction Related(e) Indian Event Reference Table -Other(f) Indian Event Reference Table - Non Roll Over(g) Indian Event Reference Table - Control18.0 Selective access by Entry for Event Log Profile	CI No 4 to 24 of IS 15959 (Part 2) Amd 1&2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
286	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter -Static Energy Meter Category A, B, C1, C2 & C3	2.11 Event code and Event logging :2.11.1 Indian Event Reference Table -Voltage Related2.11.2 Indian Event Reference Table - Current Related2.11.3 Indian Event Reference Table -Power Related2.11.4 Indian Event Reference Table - Transaction Related2.11.5 Indian Event Reference Table -Other2.11.6 Indian Event Reference Table - Non Roll Over2.11.7 Indian Event Reference Table -Control2.12 Selective access by Entry for Event Log Profile	CI No 4 to 14 Annex A to L of IS 15959 (Part 1) Amd 1 to 5
287	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter -Static Energy Meter Category A, B, C1, C2 & C3	2.9.2 Block load profile parameters2.9.3 Selective access by Range for Block load profile 2.9.4 Daily load profile parameters2.9.5Selective access by Range for Daily load profile2.9.6 Billing profile parameters2.9.7 Selective access by Entry for Billing profile2.10 General Purpose parameters :2.10.1 Name Plate Details2.10.2 Programmable Parameters	CI No 4 to 14 Annex A to L of IS 15959 (Part 1) Amd 1 to 5



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
288	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter -Static Energy Meter Category A, B, C1, C2 & C3	Compliance test:1.0 Conformance to DLMS / COSEM (IEC 62056)2.0 Parameter verification:2.1 SNRM/UA2.2 Object list download2.3 Association properties2.4 Simultaneous operation2.5 Security:2.5.1 Lowest LevelSecurity Secret 2.5.2 Low Level Security (LLS) Secret2.5.3 High Level Security (HLS) Secret2.6 ToU setting2.7 Billing Period2.8 Billing Period Counter2.9 Parameter list:2.9.1 (a) Instantaneous Parameters2.9.1 (b) Snap Shot of Instantaneous Parameters2.9.1 (c) Scaler Profile	CI No 4 to 14 Annex A to L of IS 15959 (Part 1) -2011A.1 to 5
289	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D1 & D2	10.0 Daily load profile parameters11.0Selective access by Range for Daily load profile12.0 ToU setting13.0 Billing profile parameters14.0 Billing Period15.0 Billing Period Counter16.0 Selective access by Entry for Billing profile	CI No 4 to 24 of IS 15959 (Part 2) - Amd 1,2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
290	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D1 & D2	19.0 General Purpose parameters :(a) Name Plate Details(b) Programmable Parameters20.0 Test for Smart Meter Functional Requirements21.0 Tests for Smart Meter communicability(a) Association(b) Data read(c) Profile read(d)Selective Programmability(e) Reporting of events(f) Connect/ Disconnect(g) Firmware upgrade	CI No 4 to 24 of IS 15959 (Part 2) Amd 1,2
291	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D1 & D2	Compliance test:1.0 Conformance to DLMS/COSEM (IEC 62056)2.0 Parameter verification:3.0 SNRM/UA4.0 Object list download5.0 Association properties6.0 Security:(a) Lowest LevelSecurity Secret (b) Low Level Security (LLS) Secret(c) High Level Security (HLS) SecretParameter list:7.0 (a) Instantaneous Parameters7.0 (b) Snap Shot of Instantaneous Parameters7.0 (c) Scaler Profile8.0 Block load profile parameters9.0 Selective access by Range for Block load profile10.0 Daily load profile	CI No 4 to 24 of IS 15959 (Part 2) -2016 A1,2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
292	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D3 & D4	10.0 Daily load profile parameters 11.0 Selective access by Range for Daily load profile 12.0 ToU setting 13.0 Billing profile parameters 14.0 Billing Period 15.0 Billing Period Counter 16.0 Selective access by Entry for Billing profile	CI No 4 to 28 of IS 15959 (Part 3)
293	ELECTRICAL- ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D3 & D4	17.0 Event code and Event logging : (a) Indian Event Reference Table " Voltage Related (b) Indian Event Reference Table " Current Related (c) Indian Event Reference Table " Power Related (d) Indian Event Reference Table " Transaction Related (e) Indian Event Reference Table " Other (f) Indian Event Reference Table " Non Roll Over 18.0 Selective access by Entry for Event Log Profile	CI No 4 to 28 of IS 15959 (Part 3) -2017:



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
294	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D3 & D4	19.0 General Purpose parameters :(a) Name Plate Details(b) Programmable Parameters20.0 Tests for Smart Meter Functional Requirements21.0 Tests for Smart Meter communicability(a) Association(b) Data read(c) Profile read(d)Selective Programmability(e) Reporting of events (g) Firmware upgrade	CI No 4 to 28 of IS 15959 (Part 3)
295	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Data Exchange for Electricity Meter-Smart Meter Category D3 & D4	Compliance test:1.0 Conformance to DLMS/COSEM (IEC 62056)2.0 Parameter verification:3.0 SNRM/UA4.0 Object list download5.0 Association properties6.0 Security:(a) Lowest LevelSecurity Secret (b) Low Level Security (LLS) Secret(c) High Level Security (HLS) SecretParameter list:7.0 (a) Instantaneous Parameters7.0 (b) Snap Shot of Instantaneous Parameters7.0 (c) Scaler Profile8.0 Block load profile parameters9.0 Selective access by Range for Block load profile10.0 Daily load profile	CI No 4 to 28 of IS 15959 (Part 3) -2017:



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
296	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Additional means of protection in case of single fault conditions	Cl.5.1 IEC 62052-11:2020 , Cl.6.5 IEC 62052-31
297	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Cemented joints Test	Cl.5.1 IEC 62052-11:2020 , Cl.6.9.9 IEC 62052-31
298	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Components and sub-assemblies	Cl.5.1 IEC 62052-11:2020 , Cl.13.0 IEC 62052-31
299	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Connection to external circuit	Cl.5.1 IEC 62052-11:2020 , Cl.6.6 IEC 62052-31
300	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Constructional requirement	Cl.5.3,5.5,5.6 ,5.7,5.8.4 IEC 62052-11:2020
301	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Constructional requirement for protection against electrical shock	Cl.5.1 IEC 62052-11:2020 , Cl.6.8 IEC 62052-31
302	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Determination of accessible parts	Cl.5.1 IEC 62052-11:2020 , Cl.6.2 IEC 62052-31



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
303	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Dielectric Testing on complete equipment	Cl.5.1 IEC 62052-11:2020 , Cl.6.9.4 IEC 62052-31
304	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Dielectric Tests on sub - assembly	Cl.5.1 IEC 62052-11:2020 , Cl.6.9.5 IEC 62052-31
305	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Dielectrical Tests methods	Cl.5.1 IEC 62052-11:2020 , Cl.6.9.3 IEC 62052-31
306	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Durability (Tests of the effects of the climatic environments)	Cl.8.4 IEC 62052-11
307	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Electrical pulse inputs (Test of General requirements)	Cl.5.9.2 IEC 62052-11
308	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Electrical pulse Output (Test of General requirements)	Cl.5.8.3 IEC 62052-11
309	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Electrical test on current circuit of direct connected meter with supply control switch	Cl.5.1 IEC 62052-11:2020 , Cl.6.9.7 IEC 62052-31



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
310	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Electrical test on current circuit of direct connected meter without supply control switch	Cl.5.1 IEC 62052-11:2020 , Cl.6.6.9.6 IEC 62052-31
311	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Electrical test on load control switch (LCS)	Cl.5.1 IEC 62052-11:2020 , Cl.6.9.8 IEC 62052-31
312	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Equipment temperature limits and resistance to heat	Cl.5.1 IEC 62052-11:2020 , Cl.10.0 IEC 62052-31
313	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Fast load current variations (Tests of immunity to other influence quantities)	Cl.9.4.12 IEC 62052-11
314	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Hazardous resulting from application - reasonably foreseeable misuse	Cl.5.1 IEC 62052-11:2020 , Cl.14.0 IEC 62052-31
315	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Insulation requirement	Cl.5.1 IEC 62052-11:2020 , Cl.6.7 IEC 62052-31
316	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Limit value of accessible parts	Cl.5.1 IEC 62052-11:2020 , Cl.6.3 IEC 62052-31



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
317	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Meter marking (Test of General requirements)	Cl.6.2 IEC 62052-11:2020 , Cl.5.0 IEC 62052-31
318	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Optical Test Output (Test of General requirements)	Cl.5.8.2 IEC 62052-11:2020
319	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Primary means of protection(protection against direct contact)	Cl.5.1 IEC 62052-11:2020 , Cl.6.4 IEC 62052-31
320	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Protection against electrical shock	Cl.5.1 IEC 62052-11:2020 , Cl.6.0 IEC 62052-31
321	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Protection against liberated gases and substances explosion and implosion	Cl.5.1 IEC 62052-11:2020 , Cl.12.0 IEC 62052-31
322	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Protection against mechanical hazards	Cl.5.1 IEC 62052-11:2020 , Cl.7.0 IEC 62052-31
323	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Protection against penetration of dust and water	Cl.5.1 IEC 62052-11:2020 , Cl.11.0 IEC 62052-31



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
324	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Protection against spread of fire	Cl.5.1 IEC 62052-11:2020 , Cl.9.0 IEC 62052-31
325	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Resistance to mechanical stresses	Cl.5.1 IEC 62052-11:2020 , Cl.8.0 IEC 62052-31
326	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Risk assessment	Cl.5.1 IEC 62052-11:2020 , Cl.15.0 IEC 62052-31
327	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Safety related electrical tests	Cl.5.1 IEC 62052-11:2020 , Cl.6.9 IEC 62052-31
328	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Terminals-Terminal block(s)	Cl.5.4 IEC 62052-11:2020 , Cl.10.5.2 of IEC 62052-31
329	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Thermal cycling	Cl.5.1 IEC 62052-11:2020 , Cl.6.9.10 IEC 62052-31
330	ELECTRICAL-ELECTRICAL INDICATING & RECORDING INSTRUMENTS	Static Meters for AC Energy ( Metering Equipments)	Time-keeping accuracy(Test of accuracy requirements)	Cl.7.11 IEC 62052-11
331	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances and electric tools	Surges	IEC 61000- 4-5



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332	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances and electric tools	Electrostatic Discharges	IEC 61000- 4-2
333	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances and electric tools	Immunity to Conducted disturbances induced by radio-frequency fields	IEC 61000-4-6
334	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances and electric tools	Immunity to EFT	IEC 61000-4 -4
335	ELECTRICAL- EMI / EMC TEST FACILITY	Household appliances and electric tools	Immunity to Radiated radio-frequency electromagnetic fields	IEC 61000- 4-3
336	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, scientific and medical equipment	Surges	IEC 61000-4-5
337	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, scientific and medical equipment	Conducted Emissions	CISPR 11
338	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, scientific and medical equipment	Electrostatic Discharges	IEC 61000-4-2
339	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, scientific and medical equipment	Immunity to Conducted disturbances induced by radio-frequency fields	IEC 61000 -4-6
340	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, scientific and medical equipment	Immunity to Radiated radio-frequency electromagnetic fields	IEC 61000-4-3
341	ELECTRICAL- EMI / EMC TEST FACILITY	Industrial, scientific and medical equipment	Radiated Emmission	CISPR 11
342	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted disturbances induced by radio-frequency fields	Cl. No. 8.16 & 9.22 IEC 61008-1:2024, Cl. No. 8.17 & 9.24 IS 12640(part 1):2024/ IEC61008-1
343	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted disturbances induced by radio-frequency fields	Cl. No. 9.22 IEC 61008-2-1:2024, IEC 61543:2022 Table 1 T 3, Cl. No. 9.24 IS 12640(part3):2018/IEC 1008-2-1



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344	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted disturbances induced by radio-frequency fields	Cl. No. 9.22 IEC 61008-2-2:2024, IEC 61543:2022 Table 1 T 3, Cl. No. 9.0 IS 12640(part4):2019/IEC 61008-2-2
345	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted disturbances induced by radio-frequency fields	Cl. No. 9.22 IEC 61009-1:2024 , Cl. No. 9.24 IS 12640(part2):2016/IEC 61009-1
346	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted disturbances induced by radio-frequency fields	Cl. No. 9.22 IEC 61009-2-1:2024, IEC 61543:2022 Table 1 T 3
347	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted disturbances induced by radio-frequency fields	IEC 61000-4-6
348	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated radio-frequency electromagnetic fields	Cl. No. 8.16 & 9.22 IEC 61008-1:2024, Cl. No. 8.17 & 9.24 IS 12640(part 1):2024/IEC61008-1
349	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated radio-frequency electromagnetic fields	Cl. No. 9.22 IEC 61008-2-1:2024, IEC 61543:2022 Table 1 T 6, Cl. No. 9.24 IS 12640(part3):2018/IEC 1008-2-1
350	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated radio-frequency electromagnetic fields	Cl. No. 9.22 IEC 61008-2-2:2024, IEC 61543:2022 Table 1 T 6, Cl. No. 9.0 IS 12640(part4):2019/IEC 61008-2-2
351	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated radio-frequency electromagnetic fields	Cl. No. 9.22 IEC 61009-1:2024 , Cl. No. 9.24 IS 12640(part2):2016/IEC 61009-1



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352	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated radio-frequency electromagnetic fields	Cl. No. 9.22 IEC 61009-2-1:2024, IEC 61543:2022 Table 1 T 6
353	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated radio-frequency electromagnetic fields	Cl. No. 9.22 IEC 61009-2-2:2024, IEC 61543:2022 Table 1 T 6
354	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated radio-frequency electromagnetic fields	IEC 61000-4-3
355	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Surges	Cl 8.3, 9.4.2.6, IEC 60947-1: 2020, Cl 8.3, 9.4.2.6, IS/IEC 60947-1
356	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Surges	Cl. No. 8.16 & 9.22 IEC 61008-1:2024, Cl. No. 8.17 & 9.24 IS 12640(part 1):2024/IEC61008-1
357	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Surges	Cl. No. 9.22 IEC 61008-2-1:2024, IEC 61543:2022 Table 1 T 5a and T 5b, Cl. No. 9.24 IS 12640(part3):2018/IEC 1008-2-1
358	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Surges	Cl. No. 9.22 IEC 61008-2-2:2024, IEC 61543:2022 Table 1 T 5a and T 5b, Cl. No. 9.0 IS 12640(part4):2019/IEC 61008-2-2
359	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Surges	Cl. No. 9.22 IEC 61009-1:2024 , Cl. No. 9.24 IS 12640(part2):2016/IEC 61009-1:2012, IEC 61543, Table 5-T2.2
360	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Surges	Cl. No. 9.22 IEC 61009-2-1:2024, IEC 61543:2022 Table 1 T 5a and T 5b



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361	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Surges	Cl. No. 9.22 IEC 61009-2-2:2024 ,IEC 61543:2022 Table 1 T 5a and T 5b
362	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Surges	IEC 61000-4-5
363	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Surges	J.2.5,B.8.13.1.5, F.4.5, M.8.16.1.5, N.2.5, IEC 60947-2:2024,J.2.5,B.8.12.1.5, F.4.5, M.8.16.1.5, N.2.5,IS/ IEC 60947-2
364	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted disturbances induced by radiofrequency fields	Cl. No. J.2.6,B.8.13.1.6,F.4.6,M.8.16.1.6,N.2.6 IEC 60947-2:2024,Cl. No. J.2.6,B.8.12.1.6,F.4.6,M.8.16.1.6,N.2.6 IS/ IEC 60947-2
365	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted disturbances induced by radiofrequency fields	Cl 8.3, 9.4.2.4, IEC 60947-1: 2020,Cl 8.3, 9.4.2.4, IS/IEC 60947-1:
366	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted RF disturbances (150kHz to 30 MHz)	CISPR 11:2024/CISPR 32 2015 A1
367	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted RF disturbances (150kHz to 30 MHz)	Cl:8.3, 9.4.3, IEC 60947-1: 2020,Cl:8.3, 9.4.3, IS/IEC 60947-1
368	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Conducted RF disturbances (150kHz to 30 MHz)	J.3.2,B.8.13.2.2,F.5.3,N.3.2, IEC 60947-2:2024,J.3.2,B.8.12.2.1,F.5.3,N.3.2, IS/ IEC 60947-2
369	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrical fast transients/bursts	Cl 8.3, 9.4.2.5, IEC 60947-1:2020,Cl 8.3, 9.4.2.5, IS/IEC 60947-1



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370	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrical fast transients/bursts	Cl. No. J.2.4,B.8.13.1.4,F.4.4.M.8.16.1.4,N.2.4 IEC 60947-2:2024, Cl. No. J.2.4,B.8.12.1.4,F.4.4.M.8.16.1.4,N.2.4 IS/ IEC 60947-2
371	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrical fast transients/bursts	IEC 61000 -4-4
372	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrostatic Discharges	Cl 8.3, 9.4.2.2 IEC 60947-1:2020, Cl 8.3, 9.4.2.2 IS/IEC 60947-1:
373	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrostatic Discharges	Cl. No. J.2.2, B.8.13.1.2, F.4.2, M.8.16.1.2,N.2.2 IEC 60947-2:2024, Cl. No. J.2.2, B.8.12.1.2, F.4.2, M.8.16.1.2,N.2.2 IS/IEC 60947-2
374	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrostatic Discharges	Cl. No. 8.16 & 9.22 IEC 61008-1:2024, Cl. No. 8.17 & 9.24 IS 12640(part 1):2024/IEC61008-1:2013, IEC 61543 Table 6-T3.1
375	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrostatic Discharges	Cl. No. 9.22 IEC 61008-2-1:2024, IEC 61543:2022 Table 1 T 8, Cl. No. 9.24 IS 12640 (part3):2018/IEC 1008-2-1
376	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrostatic Discharges	Cl. No. 9.22 IEC 61008-2-2:2024, IEC 61543:2022 Table 1 T 8, Cl. No. 9.0 IS 12640(part4):2019/IEC 61008-2-2



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377	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrostatic Discharges	Cl. No. 9.22 IEC 61009-1:2024 , Cl. No. 9.24 IS 12640(part2):2016/IEC 61009-1:2012,IEC 61543 Table 6-T3.1
378	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrostatic Discharges	Cl. No. 9.22 IEC 61009-2-1:2024 ,IEC 61543:2022 Table 1 T 8
379	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrostatic Discharges	Cl. No. 9.22 IEC 61009-2-2:2024 ,IEC 61543:2022 Table 1 T 8
380	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Electrostatic Discharges	IEC 61000- 4-2
381	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Fast transients(bursts)	Cl. No. 8.16 & 9.22 IEC 61008-1:2024,Cl. No. 8.17 & 9.24 IS 12640(part 1):2024/IEC61008-1
382	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Fast transients(bursts)	Cl. No. 9.22 IEC 61008-2-1:2024,IEC 61543:2022 Table 1 T 4,Cl. No. 9.24 IS 12640(part3):2018/IEC 1008-2-1:1990
383	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Fast transients(bursts)	Cl. No. 9.22 IEC 61008-2-2:2024,IEC 61543:2022 Table 1 T 4,Cl. No. 9.0 IS 12640(part4):2019/IEC 61008-2-2:1990
384	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Fast transients(bursts)	Cl. No. 9.22 IEC 61009-1:2024 , Cl. No. 9.24 IS 12640(part2):2016/IEC 61009-1:2012,IEC 61543,Table 5-T2.2



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385	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Fast transients(bursts)	Cl. No. 9.22 IEC 61009-2-1:2024,IEC 61543:2022 Table 1 T 4
386	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Fast transients(bursts)	Cl. No. 9.22 IEC 61009-2-2:2024 ,IEC 61543:2022 Table 1 T 4
387	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated radiofrequency electromagnetic fields	Cl No. 8.3, Cl:9.4.2.3, IEC 60947-1: 2020,Cl No. 8.3, Cl:9.4.2.3,IS/ IEC 60947-1
388	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated radiofrequency electromagnetic fields	J.2.3,B.8.13.1.3,F.4.3,M.8.16.1.3,N.2.3 IEC 60947-2: 2024,J.2.3,B.8.12.1.3,F.4.3,M.8.16.1.3,N.2.3 IS/ IEC 60947-2
389	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated RF disturbances 30MHz to 6000 MHz	CISPR 11:2024/ CISPR 32 2015 A1
390	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated RF disturbances 30MHz to 6000 MHz	CISPR 11:2024/CISPR 32 2015 A1
391	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated RF disturbances 30MHz to 6000 MHz	Cl:8.3, 9.4.3, IEC 60947-1: 2020; Cl:8.3, 9.4.3, IS/IEC 60947-1
392	ELECTRICAL- EMI / EMC TEST FACILITY	Low-voltage switchgear and controlgear	Radiated RF disturbances 30MHz to 6000 MHz	J.3.3,B.8.13.2.3,F.5.4,N.3.3, IEC 60947-2:2024,J.3.3,B.8.12.1.3,F.5.4,N.3.3, IS/ IEC 60947-2
393	ELECTRICAL- EMI / EMC TEST FACILITY	Multimedia Equipments	Radiated Emmission	CISPR 32 2015 A1



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394	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current and Voltage transformer	Measurement of capacitance and dielectric dissipation factor	IEC 61869-1:2023, IEC 61869-2:2012, IEC 61869-3:2011, IEC 61869-4:2013, IEC 61869-5:2011, IS 16227(Part-1):2016, IS 16227(Part-2):2016, IS 16227(Part-3):2015, IS 16227(Part-4):2015, IS 16227(Part-5)
395	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Chopped Lightning Impulse Test on Primary Winding	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013; IEEE C57.13.5:2019, IEC 61869-1
396	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Composite Error	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 : IEEE C57.13.5:2019, IEC 61869-1:
397	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Determination of Errors and Other characteristics	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1:



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398	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	High voltage power frequency test (dry and wet).	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1:
399	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Instrument Security Factor	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1: :
400	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Over Voltage Interturn test	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1:
401	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Partial Discharge	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1:
402	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Secondary Winding resistance, knee point voltage and excitation current measurement test	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1:



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403	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Switching Impulse Voltage Withstand on Primary Winding (Dry & wet)	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1
404	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Terminal marking And Polarity	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1:
405	ELECTRICAL-INDUCTORS & TRANSFORMERS	current Transformer	Turn ratio	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1:
406	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformer	Verification of the degree of Protection by enclosures.(Verification of IP coding and Mechanical impact test)	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1:
407	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current transformers	Enclosure tightness test at the ambient temperature (liquid filled)	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1:



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408	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current transformers	Lightning Impulse Voltage Withstand	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1:
409	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current Transformers	Short Time Current Test	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13
410	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current transformers	Temperature Rise	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC 61869-1
411	ELECTRICAL-INDUCTORS & TRANSFORMERS	Current transformers	Transient Response	IS 16227 (Part 1):2016, IS 16227 (Part 2):2016, IS 16227 (Part 4):2015, IEC 61869-1:2023, IEC 61869-2: 2012, IEC 61869-4: 2013 IEEE C57.13.5:2019, IEC C57.13
412	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformer	Pressure Test	IS:1180 (Part-1), 2014;+ Amd No.1 2016+Amd No.2:2017+amd no.3:2019+Amd.4 2021, IS 1180-3



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413	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Acoustic Noise Level/ Sound Level determination	IS:1180 (Part-1), 2014 + Amd. No.1 2016 + Amd. No.2 2017;+Amd. No. 3+A4.2021; IS 1180-3:2021, IS 2026 : Part 10
414	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Applied voltage test	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021, IS 2026 : Part 3 : 2018/ IEC 60076-3:2013, IEC 60076-3
415	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Chopped Wave Lightning Impulse test	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021, IS 2026-3
416	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Induced over voltage Withstand test	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3
417	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Lightning Impulse voltage withstand test	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021, IS 2026-3
418	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of Impedance Voltage/Short Circuit Impedance and Load Loss	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021, IS 2026-1



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419	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of Insulation Resistance	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021, IS: 2026 (Part-1), 2011, IEC 60076-1
420	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of no load current harmonics	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021, IS 2026-1
421	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of No-Load Loss and Current	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3
422	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of voltage ratio and check of voltage vector relationship	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3
423	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Measurement of Winding Resistance	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3
424	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Oil Leakage	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3
425	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Paint Adhesion	IS:1180 (Part-1), 2014;+ Amd No 1:2016+Amd no. 2:2017+Amd no. 3:2019+Amd. No. 4:2021, IS 1180-3



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426	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Short Circuit Withstand Test (Ability to withstand the dynamic effects of short circuit)	IS:1180 (Part-1), 2014 + Amd No.1 2014 + Amd No.2 2017, +Amd No.3:2019, +Amd No.4:2021, IS:1180 (Part-3)
427	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Temperature rise test	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021, IS 2026-2
428	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Thermal ability to withstand short circuit	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3
429	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution transformers	Vacuum Test	IS:1180 (Part-1), 2014 + Amd No.1 2014 + Amd No.2 2017;+Amd No. 3:2019;+Amd No.4:2021,IS:1180 (Part-3)
430	ELECTRICAL-INDUCTORS & TRANSFORMERS	Distribution Transformers	Zero Sequence impedance for three phase transformer	IS:1180 (Part-1), 2014 + Amd No.1 2016 + Amd No.2 2017;+Amd No. 3+A4.2021; IS 1180-3:2021, IS 2026-1
431	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type transformers	Measurement of voltage ratio and check of phase displacement	IS 2026- (Part 11):2021/IEC 60076-11:2018,IS:11333: 1985; IEC 60076-11
432	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type transformer	Lightning impulse voltage withstand test	IS 2026-11: 2021, IS 11171 : 1985 IS 11333 : 1985 IEC 60076-11:
433	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Transformers	Applied voltage test	IS 2026- 11:2021/IEC 60076-11:2018 ,IS:11333:1985;IEC 60076-11



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434	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type transformers	Chopped wave lightning impulse test	IS-2026-11, 2021, IEC-60076-11
435	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type Transformers	Induced over voltage withstand test	IS 2026-11:2021/IEC 60076-11:2018; IS:11333:1985;IEC 60076-11
436	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type Transformers	Measurement of no load current harmonics	IS 2026- 11:2021/IEC 60076-11:2018, IS:11333:1985; IEC:60076-11
437	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type Transformers	Measurement of No-load loss and current	IS 2026- 11:2021/IEC 60076-11:2018; IS:11333:1985; IEC 60076-11
438	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type Transformers	Measurement of short circuit impedance and load loss	IS 2026- 11:2021/IEC 60076-11:2018; IS:11333:1985; IEC 60076-11
439	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type transformers	Measurement of sound level	IS 2026-11:2021/IEC 60076-11:2018; IS:11333:1985;IEC 60076-11
440	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type transformers	Measurement of winding resistance	IS 2026-11:2021/IEC 60076-11:2018; IS:11333:1985;IEC 60076-11
441	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry Type Transformers	Short Circuit test	IS 2026- 11:2021/IEC 60076-11:2018 ,IS:11333:1985;IEC 60076-11
442	ELECTRICAL-INDUCTORS & TRANSFORMERS	Dry type transformers	Temperature rise test	IS 2026-11: 2021, IS 11171 : 1985 IS 11333 : 1985 IEC 60076-11
443	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power & Distribution Transformer	Neutral current measurement	CBIP Manual on TRANSFORMERS, Publication No.317 March



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444	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power and Distribution Transformer	Magnetic balance test	CBIP Manual on TRANSFORMERS, Publication No.317 March
445	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformer	Determination of capacitances windings-to-earth and between windings, Measurement of dissipation factor (tan d) of the insulation system capacitances,	IEC 60076-1:2011, IS 2026-1:2011, IEEE C57.12.00:2021; IEEE PC57.12.90/D5, September 2025,
446	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers / Distribution Transformer / Autotransformer	Induced Voltage test with Partial discharge measurement	IS 2026 (Part-3) 2018 ( IEC 60076-3, 2013) , IEC 60076-3:2013+AMD1:2018 CSV
447	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers, Auto transformers	Measurement of no load current harmonics	IS: 2026 (Part-1), 2011, IEC 60076-1
448	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers, Auto transformer and Distribution Transformers	Chopped Wave Lightning Impulse test	IS: 2026 (Part-1), 2011, IS: 2026 (Part-3), 2018; IS: 2026 (Part-5), 2011 ; IEC 60076-1, 2011; IEC 60076-3, 2013/AMD1 2018; IEC 60076-4, 2002; IEC 60076-8, 1997, IEEE C 57.12.00, 2021; IEEE C57.12.20:2017;IEEE C57.12.90:2022;IEEE C57.15:2017;IS 2026(PART 21):2018;IEC 60076-21
449	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers, Auto transformers	Zero Sequence impedance for three phase transformer.	IS: 2026 (Part-1), 2011; IEC 60076-1



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450	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Ability to withstand the dynamic effects of short circuit (Short Circuit Test)	IS:2026-1:2011; IS:2026-5:2011; IEC:60076-1:2011; IEC:60076-5:2006; IEC:60076-8:1997; IS 2026(Part-16):2023,IEC/IE EE 60076-16:2018, IEEE C57.12.00:2021; IEEE C57.12.90:2022 ; IEEE C57.15:2017, IEEE C57.12.20
451	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Acoustic Noise Level/ Sound Level determination	IEC 60076-10 : 2016, IEC 60076-10-1:2016+AMD1: 2020 CSV, IS 2026-10 : 2025, IS 2026-11:2021/IEC 60076-11:2018; IS:11333:1985; IEC:60076-1:2011; IEEE C57.12.90
452	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Applied voltage test	IS:2026-1:2011; IS:2026-3:2018/IEC 60076-3:2013; IS:2026-5:2011; IEC 60076-1:2011; IEC:60076-3:2013+A1.20 18; IEC:60076-4:2002; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026 (PART 21):2018;IEC 60076-21



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453	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Induced over voltage Withstand test	IS:2026-1:2011; IS:2026-3:2018/IEC 60076-3:2013; IS:2026-5:2011; IEC:60076-1:2011; IEC:60076-3:2013+A1.20 18; IEC:60076-4:2002; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026 (PART 21):2018;IEC 60076-21
454	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Lightning Impulse voltage withstand test	IS: 2026 (Part-1), 2011;IS: 2026 (Part-3), 2018; IS: 2026 (Part-5), 2011; IEC 60076-1, 2011; IEC 60076-3, 2013/AMD1 2018; IEC 60076-4, 2002; IEC 60076-8, 1997, 2018; IEEE C 57.12.00, 2021; IEEE C57.12.20, 2017;IEEE C57.12.90:2022;IEEE C57.15:2017;IS 2026(PART 21):2018;IEC 60076-21
455	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Measurement of voltage ratio and check of voltage vector relationship	IS:2026-1:2011;IS:2026-5: 2011; IEC:60076-1:2011; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026 (PART 21):2018;IEC 60076-21



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456	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Measurement of Impedance Voltage/Short Circuit Impedance And Load Loss	IS:2026-1:2011; IS:2026-5:2011; IEC:60076-1:2011; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20
457	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto Transformer	Measurement of Insulation Resistance	IS:2026-1:2011; IS:2026-3:2018/IEC 60076-3:2013; IS:2026-5:2011; IEC:60076-1:2011; IEC:60076-3:2013+A1.20 18; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE C57.12.90:2022; IEEE C57.15:2017, IEEE C57.12.20:2017;IS 2026(PART 21):2018;IEC 60076-21



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458	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto transformer	Measurement of No-Load Loss and Current	IS:2026-1:2011; IEC 60076-1:2011, IS:2026-3:2018/IEC 60076-3:2013; IEC 60076-3:2013+AMD1:2018 CSV, IS:2026-5:2011; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE PC57.12.90/D5, September 2025, IEEE C57.15:2017, IEEE C57.12.20:2017; IS 2026 : Part 21 : 2018 ( IEC 60076-21 : 2011/IEEE Std C57.15 : 2009 );IEC 60076-21
459	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto transformer	Measurement of Winding Resistance	IS:2026-1:2011; IEC 60076-1:2011, IS:2026-3:2018/IEC 60076-3:2013; IEC 60076-3:2013+AMD1:2018 CSV, IS:2026-5:2011; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE PC57.12.90/D5, September 2025, IEEE C57.15:2017, IEEE C57.12.20:2017; IS 2026 : Part 21 : 2018 ( IEC 60076-21 : 2011/IEEE Std C57.15 : 2009 );IEC 60076-21



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460	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto transformer	Switching Impulse Voltage Withstand	IS:2026-1:2011; IEC 60076-1:2011, IS:2026-3:2018/IEC 60076-3:2013; IEC 60076-3:2013+AMD1:2018 CSV, IS:2026-5:2011; IEC:60076-5:2006; IEC:60076-7:2018; IEC:60076-8:1997; IEEE C57.12.00:2021; IEEE PC57.12.90/D5, September 2025, IEEE C57.15:2017, IEEE C57.12.20:2017; IS 2026 : Part 21 : 2018 ( IEC 60076-21 : 2011/IEEE Std C57.15 : 2009) ;IEC 60076-21
461	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto transformer	Temperature rise test	IS: 2026 (Part-1), 2011; IS: 2026 (Part-2), 2010, IEC 60076-1, 2011; IEC 60076-2, 2011; IEC 60076-8:1997;IEEE C57.12.00:2021;IEEE C57.12.90:2022;IEEE C57.15:2017;IEEE C57.12.20:2017;IS 2026 (PART 21):2018;IEC 60076-21
462	ELECTRICAL-INDUCTORS & TRANSFORMERS	Power Transformers/ Auto transformer	Thermal ability to withstand short circuit	IS:2026-1:2011; IS:2026-5:2011; IEC 60076-1:2011; IEC:60076-5:2006; IEEE C57.12.00:2021; IEEE C57.12.90:2022 ; IEEE C57.15:2017, IEEE C57.12.20



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463	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactor	Winding Resistance	IS:2026-1:2011; IS 2026 : Part 6 : 2017 ( IEC 60076-6 : 2007), IEC 60076-6 : 2007, IEC:60076-1:2011, IEEE Std C57.32
464	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Applied voltage test	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32
465	ELECTRICAL-INDUCTORS & TRANSFORMERS	REACTORS	Chopped wave lightning impulse test	IS 2026-6: 2017, IEC 60076-6:2007;IS 2026-1:2011;IEC 60076-1:2011;IS 2026-6:2017/IEC 60076-6:2007;IEEE C57.32
466	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Impedance Voltage/Short Circuit Impedance (Principal Tapping) and Load Loss	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32
467	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Induced voltage withstand test	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32
468	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Insulation Resistance	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32



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469	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Lightning Impulse Voltage Withstand	IS: 2026 (Part-1), 2011, IS 2026:part-6:2017 ; IEC 60076-1,; 2011, IEC:60076-6, 2007;IS:2026-6:2017/IEC 60076-6:2007;IEEE C57.32
470	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Short Time Withstand Current, Ability to withstand rated thermal and rated mechanical short-circuit current, Rated Short-circuit current test	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-1:2011; IEC:60076-6:2007; IEEE Std C57.32
471	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Switching impulse Voltage Withstand test	IS 2026-6: 2017, IEC 60076-6:2007;IS 2026-1:2011;IEC 60076-1:2011;IS 2026-6:2017/IEC 60076-6:2007;IEEE C57.32
472	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors	Temperature Rise Test	IS: 2026 (Part-1), 2011, IS 2026:part-6:2017 ; IEC 60076-1,; 2011, IEC:60076-6:2007;IS:2026-6:2017/IEC 60076-6:2007;IEEE C57.32
473	ELECTRICAL-INDUCTORS & TRANSFORMERS	Reactors, current limiting reactors, Earthing transformers	Demonstration of ability to withstand rated short-time neutral current-special test (Short Circuit Withstand Test)	IS:2026-1:2011; IS:2026-6:2017/IEC 60076-6:2007; IEC:60076-6
474	ELECTRICAL-INDUCTORS & TRANSFORMERS	Step Voltage regulator	Short circuit test	IS 2026(Part 21):2018/IEC 60076-21:2011/IEEE Std C57.15
475	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformer	Inrush current measurement	IEC 60310



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476	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Ability to withstand the dynamic effects of short circuit (Short Circuit Test)	IEC 60310
477	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Applied voltage test	IEC 60310
478	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Induced voltage withstand test	IEC 60310
479	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction transformers	Insulation resistance	IEC 60310
480	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Lightning impulse voltage withstand test	IEC-60310
481	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Measurement of no-load loss & current	IEC 60310:2025
482	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Measurement of short circuit impedance and load loss	IEC 60310
483	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction transformers	Measurement of sound level	IEC 60310
484	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Measurement of voltage ratio & check of phase displacement	IEC 60310
485	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Measurement of winding resistance	IEC 60310
486	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Permissible Flux Density & Over fluxing	IEC 60310
487	ELECTRICAL-INDUCTORS & TRANSFORMERS	Traction Transformers	Temperature rise test	IEC 60310



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488	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Short circuit withstand capability	IEC: 61869-1, 2023; IEC: 61869-3, 2011; IEC: 61869-4, 2013; IEC: 61869-5, 2011, IEEE C57.13: 2016; IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4) 2015, IS 16227 : Part 5 : 2015 + A1
489	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage Transformers & CVT	Chopped Lightning impulse Voltage Test On Primary Winding	IEC: 61869-1, 2023, IEC: 61869-3, 2011; IEC: 61869-4, 2013; IEC: 61869-5, 2011, IEEE C57.13: 2016; IEEE C57.13.5:2019, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4) 2015, IS 16227 : Part 5 : 2015 + A1
490	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Enclosure tightness test at the ambient temperature	IEC: 61869-1, 2023, IEC: 61869-3, 2011; IEC: 61869-4, 2013; IEC: 61869-5, 2011, IEEE C57.13: 2016; IEEE C57.13.5:2019, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4) 2015, IS 16227 : Part 5 : 2015 + A1



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491	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	High voltage Power Frequency Test (Dry and Wet)	IEC: 61869-1, 2023, IEC: 61869-3, 2011; IEC: 61869-4, 2013; IEC: 61869-5, 2011, IEEE C57.13: 2016; IEEE C57.13.5:2019, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4) 2015, IS 16227 : Part 5 : 2015 + A1
492	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Induced Voltage Withstand test	IEC: 61869-1, 2023, IEC: 61869-3, 2011; IEC: 61869-4, 2013; IEC: 61869-5, 2011, IEEE C57.13: 2016; IEEE C57.13.5:2019, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4) 2015, IS 16227 : Part 5 : 2015 + A1
493	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage Transformers & CVT	Lightning impulse Voltage Test Capacitive Voltage Transformer	IEC: 61869-1, 2023, IEC: 61869-3, 2011; IEC: 61869-4, 2013; IEC: 61869-5, 2011, IEEE C57.13: 2016; IEEE C57.13.5:2019, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4) 2015, IS 16227 : Part 5 : 2015 + A1



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494	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Partial Discharge	IEC: 61869-1, 2023; IEC: 61869-3, 2011; IEC: 61869-4, 2013; IEC: 61869-5, 2011, IEEE C57.13: 2016; IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4) 2015, IS 16227 : Part 5 : 2015 + A1
495	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Switching impulse Voltage Withstand on primary Winding (Dry)	IEC: 61869-1, 2023; IEC: 61869-3, 2011; IEC: 61869-4, 2013; IEC: 61869-5, 2011, IEEE C57.13: 2016; IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4) 2015, IS 16227 : Part 5 : 2015 + A1
496	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Temperature rise	IEC: 61869-1, 2023; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)



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497	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Terminal Marking & Polarity	IEC: 61869-1, 2023; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)
498	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Verification of the degree of Protection by enclosures.(Verification of IP coding and Mechanical impact test)	IEC: 61869-1:2023; IS/IEC 60529-2001, IEC 60529-2013IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)
499	ELECTRICAL-INDUCTORS & TRANSFORMERS	Voltage transformers & CVT	Voltage Error and phase Displacement	IEC: 61869-1: 2023; IEC: 61869-3, 2012; IEC: 61869-4, 2013; IEC: 61869-5, 2011; IEEE C57.13: 2016;IEEE C57.13.5:2019, IEC 61869-1:2023, IS 16227(part-1) 2016, IS 16227(part-3) 2015, IS 16227(part-4), IS 16227(part-5)
500	ELECTRICAL-INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Breakdown voltage	IS 1866:2017, IEC 60422:2024, IEC 60156



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501	ELECTRICAL-INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Dielectric dissipation factor ( DDF) at 90°C	IS 1866:2017, IEC 60422:2024, IEC 60247
502	ELECTRICAL-INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Resistivity at 90°C	IS 1866:2017, IEC 60422:2024, IEC 60247
503	ELECTRICAL-INSULATING MATERIALS & INSULATORS	Mineral Insulating Oil in Electrical Equipment Supervision and Maintenance Guidance	Water Content	IS 1866:2017, IEC 60422:2024, IEC 60814
504	ELECTRICAL-INSULATING MATERIALS & INSULATORS	New Mineral Insulating Oils	Breakdown voltage	IS 335:2018, IEC 60296:2020, IS 6792:2023/IEC 60156:1995, IEC 60156
505	ELECTRICAL-INSULATING MATERIALS & INSULATORS	New Mineral Insulating Oils	Dielectric dissipation factor (DDF) at 90 °C	IS 335-2018, IEC 60296-2020, IS 16086 2013, IEC 60247 2004, or IEC 61620: 1998, IS 16840
506	ELECTRICAL-INSULATING MATERIALS & INSULATORS	New Mineral Insulating Oils	Water Content	IS 335-2018, IEC 60296-2020, IEC 60814
507	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control	Residual operating Characteristics	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018 IEC-61008-1, 2013 (CSV), IEC-61008-2-1, 1990, IEC-61008-2-2



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508	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Making & breaking capacity	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024, IS/IEC-60947-2:2016+A1:2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024, IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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509	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short-circuit at 1,1 times take-over current current	IS/IEC-60947-1:2007+A1:2015, IS/IEC-60947-2:2016, IS/IEC-60947-3:2012, IS/IEC-60947-4-1:2012, IS/IEC-60947-4-2:2011, IS/IEC-60947-5-1:2009, IEC-60947-1:2020, IEC-60947-2:2019, IEC-60947-3:2020, IEC-60947-4-1:2018, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2003, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2:



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510	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Tripping Limits and Characteristics	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1:2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019,IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014,BSEN:60947-2:2017+A1:2020BSEN:60947-3:2009+A1:2012+A2
511	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Autoreclosure	Mechanical operation	IEC 62271-100:2021+AMD1:2024 CSV, IS/IEC 62271 : PART 100 : 2021 ( IEC 62271-100:2021) IEC 62271-111:2019, IS/IEC 62271 : Part 111 : 2019 ( IEC 62271-111:2019) IEEE/IEC C37.60/62271-111



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512	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Autoreclosures	Operating Duty	IEC 62271-100:2021+AMD1:2024 CSV, IS/IEC 62271 : PART 100 : 2021 ( IEC 62271-100:2021) IEC 62271-111:2019, IS/IEC 62271 : Part 111 : 2019 ( IEC 62271-111:2019) IEEE/IEC C37.60/62271-111: 2019
513	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Autoreclosures	Short time current	IEC:62271-100:2021, IS/IEC:62271-100:2021;IE C 62271:111:2019; IEEE/IEC C37.60/62271-111
514	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Autoreclosures	Temperature rise	IS/IEC 62271(Part1):2017,IS/IEC 62271(Part100):2021,IS/IEC 62271(Part111):2019,IEC 62271-1:2017,IEC 62271 100:2021, IEC62271-111:2019, ANSI/IEEE C-37.60



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515	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels. MCB boards. Distribution pillars, distribution fuse boards and cut out etc.	Verification of the short circuit withstand strength	IS 13032:1991+A1:1993+A2:2017; IS 8084:2025; IS 5039:1983+A1.1997; IS 2675:1983; IS 8623:Part 2:1993+A1.1993; IS 8623:Part 3:1993+A1.1997; IS/IEC 61439-0:2010; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC/TS 61439-7:2014; IS/IEC60947-1:2020; IEC 61439-1 2020; IEC 61439-2 2020; IEC 61439-3:2012; IEC 61439-4-2012; IEC 61439-5:2014; IEC 61439-6 2012; IEC 60947-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
516	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Ability to withstand mechanical load	IS 13032:1991+A1:1993+A2:2017; IS 8084:2025; IS 5039:1983+A1.1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4-2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
517	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Ability to withstand mechanical load	IS 13032:1991+A1:1993+A2:2017; IS 8084:2025; IS 5039:1983+A1.1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4-2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529: 2013, IEEE C37.23



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
518	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Conductors covered by insulating material to provide protection against electric shock	IS 13032:1991+A1:1993+A2:2017; IS 8084:2025; IS 5039:1983+A1.1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4-2012 IEC 61439-5:2014 IEC 61439-6 2012, IEC 60529, 2013 IEEE C37.23
519	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Conductors covered by insulating material to provide protection against electric shock	IS 13032:1991+A1:1993+A2:2017; IS 8084:2025; IS 5039:1983+A1.1997; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2012 IEC 61439-4-2012 IEC 61439-5:2014, IEC 61439-6:2012, IEC 60529:2013, IEEE C37.23



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520	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	External operation handles of insulating material	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 60529, 2013, IEEE Std C37.23
521	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	External operation handles of insulating material	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6:2012, IEC 60529:2013, IEEE Std C37.23



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522	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Testing of enclosures made of insulating material	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529, 2013, IEEE Std C37.23
523	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Degree of protection of assemblies	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 60529, 2013, IEEE Std C37.23



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524	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Degree of protection of assemblies	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 60529: 2013, IEEE Std C37.23
525	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Impulse withstand voltage test	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6: 2012, IEC 60529: 2013, IEEE Std C37.23



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
526	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Mechanical operation- ON-OFF Operations of switchgears conducted as per standard	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 60529, 2013, IEEE Std C37.23
527	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Mechanical operation, Verification of Mechanical operation-- ON-OFF manual operations on switchgears conducted as per standard	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 60529, 2013, IEEE Std C37.23



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528	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Power-frequency withstand voltage	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529, 2013, IEEE Std C37.23-2015, IEC60947-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
529	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Temperature Rise	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529, 2013, IEEE Std C37.23-2015, IEC60947-1



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530	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Temperature Rise	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529: 2013, IEEE Std C37.23-2015, IEC60947-1



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531	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Verification of Clearances and creepage distance	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529:2013, IEEE Std C37.23



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532	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Verification of clearances and creepage distance	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529, 2013, IEEE Std C37.23
533	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Impulse withstand voltage test	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 60529, 2013, IEEE Std C37.23



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
534	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Lifting-Verification by test	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 60529, 2013, IEEE Std C37.23
535	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Marking	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 60529, 2013, IEEE Std C37.23



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536	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Marking-Verification by test	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 60529, 2013, IEEE Std C37.23
537	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Mechanical Impact (IK)	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 60529, 2013, IEEE Std C37.23



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538	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Mechanical impact (IK)	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6: 2012, IEC 60529: 2013, IEEE Std C37.23



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539	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Resistance to abnormal heat and fire due to internal electric effects	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529, 2013, IEEE Std C37.23-2015, IEC60947-1



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540	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Resistance to abnormal heat and fire due to internal electric effects	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529: 2013, IEEE Std C37.23-2015, IEC60947-1



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541	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Resistance to corrosion	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529, 2013, IEEE Std C37.23-2015, IEC60947-1



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542	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Resistance to corrosion	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529: 2013, IEEE Std C37.23-2015, IEC60947-1
543	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Short-time withstand current	IEEE C37.23



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544	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Terminals for external conductors	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529, 2013, IEEE Std C37.23-2015, IEC60947-1



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545	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Terminals for external conductors	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529: 2013, IEEE Std C37.23-2015, IEC60947-1



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546	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Testing of enclosures made of insulating material- Power frequency withstand voltage test	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529, 2013, IEEE Std C37.23



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547	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Thermal stability	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529, 2013, IEEE Std C37.23



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
548	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Thermal stability	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4-2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529: 2013, IEEE Std C37.23
549	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels, MCB boards, Distribution pillars, distribution fuse boards and cut out etc.	Verification of the protective circuit	IEEE C37.23



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550	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels. MCB boards. Distribution pillars, distribution fuse boards and cut out etc.	Short time current test	IS 13032:1991+A1:1993+A2:2017; IS 8084:2025; IS 5039:1983+A1.1997; IS 2675:1983; IS 8623:Part 2:1993+A1.1993; IS 8623:Part 3:1993+A1.1997; IS/IEC 61439-0:2010; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC/TS 61439-7:2014; IS/IEC60947-1:2007+A1:2015; IEC 61439-1 2020; IEC 61439-2 2020; IEC 61439-3:2012; IEC 61439-4-2012; IEC 61439-5:2014; IEC 61439-6 2012; IEC60947-1:2020; IEC 60529



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551	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels. MCB boards. Distribution pillars, distribution fuse boards and cut out etc.	Testing under condition of arcing due to internal fault	IS 13032:1991+A1:1993+A2:2017; IS 5039:1983+A1.1997; IS 2675:1983; IS 8623:Part 2:1993+A1.1993; IS 8623:Part 3:1993+A1.1997; IS/IEC 61439-0:2010; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC/TS 61439-7:2014; IS/IEC60947-1:2007+A1:2015; IEC 61439-1 2020; IEC 61439-2 2020; IEC 61439-3:2012; IEC 61439-4:2012; IEC 61439-5:2014; IEC 61439-6 2012; IEC60947-1:2020; IEC 60529



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552	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Bus ducts, panels. MCB boards. Distribution pillars, distribution fuse boards and cut out etc.	Verification of the protective circuit	IS 13032:1991+A1:1993+A2:2017; IS 8084:2025; IS 5039:1983+A1.1997; IS 2675:1983; IS 8623:Part 2:1993+A1.1993; IS 8623:Part 3:1993+A1.1997; IS/IEC 61439-0:2010; IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC/TS 61439-7:2014; IS/IEC60947-1:2007+A1:2015; IEC 61439-1 2020; IEC 61439-2 2020; IEC 61439-3:2012; IEC 61439-4:2012; IEC 61439-5:2014; IEC 61439-6 2012; IEC60947-1:2020; IEC 60529
553	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnecter and Earthing Switches	Making Performance of Earthing switches	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IS/IEC 62271-1:2007, IS/IEC 62271-100:2021, IS/IEC 62271-102:2018, IS/IEC 62271-103:2011, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111-2019, IEEE C37.30.1



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554	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Resistance of main circuit	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IS/IEC 62271-1:2017, IS/IEC 62271-100:2021, IS/IEC 62271-102:2018, IS/IEC 62271-103:2021, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111-2019, IEEE C37.30.1
555	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Lightning impulse voltage tests, Power-frequency voltage withstand tests	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IS/IEC 62271(Part 102), 2018, IEC 62271-102:2022, IS/IEC 62271 : Part 103 : 2021, IEC 62271-103: 2021, IEEE Std C37.30.1-2022 (Revision of IEEE Std C37.30.1-2011), IEEE Std C37.09-2018 Cor1-2021, IEEE Std C37.32,2002, IEEE Std C37.23-2015, IEEE Std C37.34



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
556	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Lightning Impulse Voltage Withstand (Upto 400 kV Class)	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IS/IEC 62271(Part 102), 2018, IEC 62271-102:2022, IS/IEC 62271 : Part 103 : 2021, IEC 62271-103: 2021, IEEE Std C37.30.1-2022 (Revision of IEEE Std C37.30.1-2011), IEEE Std C37.09-2018 Cor1-2021, IEEE Std C37.32,2002, IEEE Std C37.23-2015, IEEE Std C37.34
557	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Mechanical Endurance	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IS/IEC 62271(Part 102), 2018, IEC 62271-102:2022, IS/IEC 62271 : Part 103 : 2021, IEC 62271-103: 2021, IEEE Std C37.30.1-2022 (Revision of IEEE Std C37.30.1-2011), IEEE Std C37.09-2018 Cor1-2021, IEEE Std C37.32,2002, IEEE Std C37.23-2015, IEEE Std C37.34



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558	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Short Time Withstand Current and Peak Withstand Current.	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IS/IEC 62271-1:2007, IS/IEC 62271-100:2021, IS/IEC 62271-102:2018, IS/IEC 62271-103:2011, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111-2019, IEEE C37.30.1
559	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Switching impulse voltage test(dry)	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IS/IEC 62271(Part 102), 2018, IEC 62271-102:2022, IS/IEC 62271 : Part 103 : 2021, IEC 62271-103: 2021, IEEE Std C37.30.1-2022 (Revision of IEEE Std C37.30.1-2011), IEEE Std C37.09-2018 Cor1-2021, IEEE Std C37.32,2002, IEEE Std C37.23-2015, IEEE Std C37.34



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560	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Disconnectors and Earthing switches	Temperature rise test	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IS/IEC 62271(Part 102), 2018, IEC 62271-102:2022, IS/IEC 62271 : Part 103 : 2021, IEC 62271-103: 2021, IEEE Std C37.30.1-2022 (Revision of IEEE Std C37.30.1-2011), IEEE Std C37.09-2018 Cor1-2021, IEEE Std C37.32,2002, IEEE Std C37.23-2015, IEEE Std C37.34
561	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Fuses/ Distribution Fuse Boards and Cut outs	Time Current Characteristic	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385-3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529-1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42
562	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Fuses/ Distribution Fuse Boards and Cut-Outs	Shot Circuit Breaking Capacity	IS 9385 :Part 1:2024/IEC 60282- 1:2020; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385-3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42



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563	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Fuses/ Distribution Fuse Boards and Cut-Outs	Dielectric test.	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385- 3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529- 1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42
564	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Fuses/ Distribution Fuse Boards and Cut-Outs	Temperature rise Test.	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385- 3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529- 1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42



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565	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer / Capacitor Switch / Load Break Switch	Earth fault current test (TDef1)	IS/IEC:62271-1:2007, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2011, IEC 62271-1:2017+A:1, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989+A1:1999+A2:2013, IEEE C37.40:2003, IEEE C37.41:2016, IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 2011+A1.2017, IEEE C37.42



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566	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer /Capacitor Switch / Load Break Switch	Cable- and line-charging current test under earth faults (TDef2)	IIS/IEC:62271-1:2007, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2011, IEC 62271-1:2017+A:1, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-110:2017, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989+A1:1999+A2:2013, IEEE C37.40:2003, IEEE C37.41:2016,IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 2011+A1.2017, IEEE C37.42
567	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Switching impulse voltage test(dry)	IS/IEC 62271 (Part 1),2017; IS/IEC 62271(Part 103)-2021, IEC 62271-1, 2017 . IEC 62271-103, 2021. IEEE StdC37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32,2002, IEEE Std C37.23,2003, IEEE Std C37.66-2021, IEEE Std C37.34



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
568	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Dielectric Tests (Wet & Dry)	IS/IEC 62271 (Part 1),2017; IS/IEC 62271(Part 103)-2021, IEC 62271-1, 2017 . IEC 62271-103, 2021. IEEE Std C37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32,2002, IEEE Std C37.23,2003, IEEE Std C37.66-2021, IEEE Std C37.34
569	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Lightning Impulse Voltage Withstand (Upto 400 kV Class)	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IS/IEC 62271(Part 103)-2021, IEC 62271-103, 2021. IEEE Std C37.30.6-2023, IEEE Std C37.09-2018 Cor1-2021 IEEE Std C37.32,2002, IEEE Std C37.23-2015, IEEE Std C37.66-2021 , IEEE Std C37.34



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
570	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Making and Breaking Tests (Test Duties)	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271-100:2021+A1:202 4, IS/IEC 62271-100: 2021, IEC 62271-103:2021,IS/IEC 62271-103:2021,IEC 62271-110:2023, IS/IEC 62271-110:2023, IEC 62271-200:2021+A1:202 4, IS/IEC 62271-200: 2021, IEC 62271-201:2014, IS/IEC 62271-201:2006, IEC 62271-202:2022, IS/IEC 62271-202:2022, IEC 62271-203:2022, IS/IEC 62271-203:2022, IEC 60077-1&2:2017, IEC 60077-4:2019, IEC : 60529:1989+A1:1999+A 2:2013, IS/IEC 60529 : 2001+A1:2024, IS 6581:1972+A1:1984, IEEE/IEC C3
571	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Mechanical endurance test	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IS/IEC 62271(Part 103)-2021, IEC 62271-103, 2021. IEEE Std C37.30.6-2023, IEEE Std C37.09-2018 Cor1-2021 IEEE Std C37.32,2002, IEEE Std C37.23-2015, IEEE Std C37.66-2021, IEEE Std C37.34



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572	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Rated Short Circuit Making Capacity	IS/IEC:62271-1:2017, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2021, IEC 62271-1:2017, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-106:2021; IEC 62271-110:2023, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989, IEEE C37.40:2003, IEEE C37.41:2024, IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 :2022, IEEE C37.42



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
573	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Resistance of Main Circuit	IS/IEC:62271-1:2017, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2021, IEC 62271-1:2017, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-106:2021; IEC 62271-110:2023, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989, IEEE C37.40:2003, IEEE C37.41:2024, IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 :2022, IEEE C37.42



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
574	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Short Time Withstand Current and Peak Withstand Current	IS/IEC:62271-1:2017, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2021, IEC 62271-1:2017, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-106:2021; IEC 62271-110:2023, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989, IEEE C37.40:2003, IEEE C37.41:2024, IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 :2022, IEEE C37.42



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575	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Single Capacitor Bank Switching	IS/IEC:62271-1:2017, IS/IEC:62271-102:2018, IS/IEC 62271-100:2021, IS/IEC 62271-103:2021, IEC 62271-1:2017, IEC 62271-100:2021, IEC 62271-102:2018, IEC 62271-103:2021, IEC 62271-104:2020, IEC 62271-105:2021, IEC 62271-106:2021; IEC 62271-110:2023, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-203:2022, IS/IEC 62271-200:2021, IEC 60529:1989, IEEE C37.40:2003, IEEE C37.41:2024, IEEE 37.09:2018/Cor1-2021, IEEE C37.30.1 :2022, IEEE C37.42
576	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.T. Switches/ Line Sectionalizer/ Capacitor Switch/ Load Break Switch	Temperature Rise (0 to 25 KA)	IS/IEC 62271 (Part 1)-2017; IS/IEC 62271(Part 103)-2021, IEC 62271-1, 2017 . IEC 62271-103, 2021. IEEE StdC37.30, 1997 IEEE Std C37.09, 1993 IEEE Std C37.32,2002, IEEE Std C37.23,2003, IEEE Std C37.66-2021, IEEE Std C37.34



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577	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Measurement of the resistance of the main circuit.	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271-100:2021+A1:2024, IS/IEC 62271-100:2021, IEC 62271-103:2021, IS/IEC 62271-103:2021, IEC 62271-110:2023, IS/IEC 62271-110:2023, IEC 62271-200:2021+A1:2024, IS/IEC 62271-200:2021, IEC 62271-201:2014, IS/IEC 62271-201:2006, IEC 62271-202:2022, IS/IEC 62271-202:2022, IEC 62271-203:2022, IS/IEC 62271-203:2022, IEC 60077-1&2:2017, IEC 60077-4:2019, IEC : 60529:1989+A1:1999+A2:2013, IS/IEC 60529 : 2001+A1:2024, IS 6581:1972+A1:1984, IEEE/IEC C3



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
578	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Inductive Load Current Switching	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271-100:2021+A1:202 4 , IS/IEC 62271-100: 2021, IEC 62271-110:2023, IS/IEC 62271-110:2023, IEC 62271-200:2021+A1:202 4, IS/IEC 62271-200: 2021, IEC 62271-201:2014, IS/IEC 62271-201:2006, IEC 62271-202:2022, IS/IEC 62271-202:2022, IEC 62271-203:2022 , IS/IEC 62271-203:2022, IEC 60077-1&2:2017, IEC 60077-4:2019, IEC : 60529:1989+A1:1999+A 2:2013, IS/IEC 60529 : 2001+A1:2024, IS 6581:1972+A1:1984, IEEE/IEC C37.60/62271-111:2019, IEEE C37.09



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579	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Internal Arc Test	IEC 62271-1:2017, IEC 62271-100:2021, IEC: 62271-110:2023, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022 IEC 62271-203:2022, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019, IEC 60529:1989, IS/IEC 62271-1:2017, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2018, BS 6581:1985/IEC60694:1980, IEEE C37.09:2018 CoR.1-2021, IEEE std C37.20.7 2017, IEEE/IEC C37.60/62271-111



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
580	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Lightning Impulse Voltage withstand	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271-100:2021+A1:2024, IS/IEC 62271-100:2021, IEC 62271-110:2023, IS/IEC 62271-110:2023, IEC 62271-200:2021+A1:2024, IS/IEC 62271-200:2021, IEC 62271-201:2014, IS/IEC 62271-201:2006, IEC 62271-202:2022, IS/IEC 62271-202:2022, IEC 62271-203:2022, IS/IEC 62271-203:2022, IEC 60077-1&2:2017, IEC 60077-4:2019, IEC : 60529:1989+A1:1999+A2:2013, IS/IEC 60529 : 2001+A1:2024, IS 6581:1972+A1:1984, IEEE/IEC C37.60/62271-111:2019, IEEE C37.09



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
581	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Mechanical Operation at Ambient Air Temperature	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271-100:2021+A1:2024, IS/IEC 62271-100:2021, IEC 62271-110:2023, IS/IEC 62271-110:2023, IEC 62271-200:2021+A1:2024, IS/IEC 62271-200:2021, IEC 62271-201:2014, IS/IEC 62271-201:2006, IEC 62271-202:2022, IS/IEC 62271-202:2022, IEC 62271-203:2022, IS/IEC 62271-203:2022, IEC 60077-1&2:2017, IEC 60077-4:2019, IEC : 60529:1989+A1:1999+A2:2013, IS/IEC 60529 : 2001+A1:2024, IS 6581:1972+A1:1984, IEEE/IEC C37.60/62271-111:2019, IEEE C37.09



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582	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Temperature rise test (0-25KA)	IEC 62271-100:2021. IEC 62271-110,2017. IEC 62271-102,2018 IEC 62271-200,2021. IEC 62271-201, 2022. IEC 62271-202, 2022 IEC 62271- 203, 2011. IEC 62271-1, 2017. IEC 60077-2,2017. IEC 60077-4,2019 BS 6581,1985/IEC 694, 1980.IS/IEC 62271 (part-1),2017.IS/IEC 62271 (part-100), 2021, IS/IEC 62271(part-200), 2021.IS/IEC 62271 (part-102), 2018. IS/IEC 62271-201:2006 . IS/IEC 62271-202:2022 . IS/IEC 62271-203:2022 IEEE Std C37.09



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583	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V, Circuit Breaker & Switchgear Panel With Circuit Breaker	Verification of the degree of Protection by enclosures.(Verification of IP coding and Mechanical impact test)	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271-100:2021+A1:2024 , IS/IEC 62271-100:2021, IEC 62271-110:2023, IS/IEC 62271-110:2023, IEC 62271-200:2021+A1:2024, IS/IEC 62271-200:2021, IEC 62271-201:2014, IS/IEC 62271-201:2006, IEC 62271-202:2022, IS/IEC 62271-202:2022, IEC 62271-203:2022 , IS/IEC 62271-203:2022, IEC 60077-1&2:2017, IEC 60077-4:2019, IEC : 60529:1989+A1:1999+A2:2013, IS/IEC 60529 : 2001+A1:2024, IS 6581:1972+A1:1984, IEEE/IEC C37.60/62271-111:2019, IEEE C37.09,



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584	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit Breaker & Switchgear Panel with Circuit Breaker	No-load operation	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271-100:2021+A1:2024, IS/IEC 62271-100:2021, IEC 62271-103:2021, IS/IEC 62271-103:2021, IEC 62271-110:2023, IS/IEC 62271-110:2023, IEC 62271-200:2021+A1:2024, IS/IEC 62271-200:2021, IEC 62271-201:2014, IS/IEC 62271-201:2006, IEC 62271-202:2022, IS/IEC 62271-202:2022, IEC 62271-203:2022, IS/IEC 62271-203:2022, IEC 60077-1&2:2017, IEC 60077-4:2019, IEC : 60529:1989+A1:1999+A2:2013, IS/IEC 60529 : 2001+A1:2024, IS 6581:1972+A1:1984, IEEE/IEC C3



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
585	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit Breaker & Switchgear Panel with Circuit Breaker	Switching impulse voltage test(dry)	IEC 62271-100:2021. IEC 62271-110,2017. IEC 62271-102,2018 IEC 62271-200,2021. IEC 62271-201, 2022. IEC 62271-202, 2022 IEC 62271- 203, 2011. IEC 62271-1, 2017. IEC 60077-2,2017. IEC 60077-4,2019 BS 6581,1985/IEC 694, 1980.IS/IEC 62271 (part-1),2017.IS/IEC 62271 (part-100), 2021, IS/IEC 62271(part-200), 2021.IS/IEC 62271 (part-102), 2018. IS/IEC 62271-201:2006 . IS/IEC 62271-202:2022 . IS/IEC 62271-203:2022, IEC 60529: 2013, IS/IEC 60259: 2001, IEC 62262: 2002, IEEE Std C37.09



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586	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit breaker & switchgear panel with circuit breaker	Terminal Fault Tests (Short circuit making and breaking), Single-phase and double-earth fault tests and Out-of-phase making and breaking tests	IEC 62271-1:2017, IEC 62271-100:2021, IEC: 62271-110:2023, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022, IEC 62271-203:2022, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019, IEC 60529:1989, IS/IEC 62271-1:2017, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2018, BS 6581:1985/IEC 60694:1980, IEEE C37.09:2018 CoR.1-2021, IEEE C37.60:2018 /IEC 62271-111
587	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit Breaker & Switchgear Panel with Circuit Breaker	Capacitive Current Switching (Line Charging, Cable charging & Capacitor bank current) & Single Phase Capacitive Current (Line Charging, Cable charging & Capacitor bank current)	IEC 62271-1:2017+A1:2021, IEC 62271-100:2021, IEC: 62271-110:2023, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022, IEC 62271-203:2022, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019, IEC 60529:1989+A1:1999+A 2:2013, IS/IEC 62271-1:2017, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2018, BS 6581:1985/IEC60694:1980, IEEE C37.09:2018 CoR.1-2021, IEEE/IEC C37.60/62271-111



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588	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit Breaker & Switchgear Panel with Circuit Breaker	Dielectric test (Wet/Dry): power frequency withstand voltage test	IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271-100:2021+A1:2024, IS/IEC 62271-100:2021, IEC 62271-110:2023, IS/IEC 62271-110:2023, IEC 62271-200:2021+A1:2024, IS/IEC 62271-200:2021, IEC 62271-201:2014, IS/IEC 62271-201:2006, IEC 62271-202:2022, IS/IEC 62271-202:2022, IEC 62271-203:2022, IS/IEC 62271-203:2022, IEC 60077-1&2:2017, IEC 60077-4:2019, IEC : 60529:1989+A1:1999+A2:2013, IS/IEC 60529 : 2001+A1:2024, IS 6581:1972+A1:1984, IEEE/IEC C37.60/62271-111:2019, IEEE C37.09



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589	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	H.V. Circuit Breaker & Switchgear Panel with Circuit Breaker	Short Time Withstand Current & peak Withstand Current	IEC 62271-1:2017, IEC 62271-100:2021, IEC: 62271-110:2023, IEC 62271-200:2021, IEC 62271-201:2014, IEC 62271-202:2022, IEC 62271-203:2022, IEC 60077-1:2017, IEC 60077-2:2017, IEC 60077-4:2019, IEC 60529:1989, IS/IEC 62271-1:2017, IS/IEC 62271-100:2021, IS/IEC 62271-200:2021, IS/IEC 62271-102:2018, BS 6581:1985/IEC 60694:1980, IEEE C37.09:2018 CoR.1-2021, IEEE C37.60:2018 /IEC 62271-111
590	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor	Rated Making and Breaking Capacity	IS/IEC 62271-106 : 2021; IS: 5561:2018+A1:2023; IEC 62271-1, 2017+A1:2021; IEC 62271-106:2021, IEEE/IEC C37.60/62271-111
591	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor / HT Connector	Short Time Current	IS/IEC 62271-106 : 2021; IS: 5561:2018+A1:2023; IEC 62271-1, 2017+A1:2021; IEC 62271-106:2021, IEEE/IEC C37.60/62271-111
592	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor / HT Connector	Power frequency withstand test (Dielectric test)	IS/IEC 62271-106 : 2012, IS 5561:2018+A1: 2023, IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271 - 106



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593	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor / HT Connector	Dielectric Test	IS/IEC 62271-106 : 2012, IS 5561:2018+A1: 2023, IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271 -106
594	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor/ HT Connector	Dimensions	IS/IEC 62271-106 : 2012, IS 5561:2018+A1: 2023, IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271 -106
595	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor/ HT Connector	Mechanical Endurance	IS/IEC 62271-106 : 2012, IS 5561:2018+A1: 2023, IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271 - 106
596	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Contactor/ HT Connector	Temperature Rise Test	IS/IEC 62271-106 : 2012, IS 5561:2018+A1: 2023, IEC 62271-1:2017+A1:2021, IS/IEC 62271-1:2017, IEC 62271 - 106
597	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Fuses / Distribution fuse boards and cut outs	Power Dissipation	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385-3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529-1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42



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598	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Fuses/ Distribution fuse boards and cut outs	Creepage distance and clearance	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385-3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529-1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42
599	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	HT Fuses/ Distribution fuse boards and cut outs	Degrees of Protection	IS 9385 :Part 1:2018/IEC 60282- 1:2009; IS 9385:Part 2:2018/IEC 60282- 2:2008; IS:9385-3:1980; IS:9385- 4:1983; IEC:60282- 1:2020; IEC:60282- 2:2008; IS/IEC 60947-1:2020; IEC 60947-1:2020; IS/IEC:60529:2001; IEC 60529-1989+A1:1999+A2:2013; IEEE C37.40:2003; IEEE C37.41:2016; IEEE C37.42



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600	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	.Moisture and Humidity Test / Reliability (Climatic test)	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024 , IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 , IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1 : 2015, IEC 60898-1:2015+A1:2019, IS 12640-1 : 2024 ( IEC 61008-1 : 2013), IEC 61008-1:2024, IS 12640-2, A1: 2016 + A2 & 3 : 2018, IEC 61009-1



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601	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Performance under Conditional short Circuit current	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2



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602	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of rated making and breaking capacities, change over ability and reversibility	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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603	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control	Condition of Arcing Due to Internal Fault	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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604	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control	Controls, Sequence and Limits of Operation	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024, IS/IEC-60947-2:2016+A1:2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024, IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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605	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Fuse protected short circuit withstand	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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606	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short circuit at selectivity limit current	IS 12640:Part 1:2016/IEC 61008-1: 2012+A1:2016+A2:2018 +A3:2018+A4:2018, IS 12640-2:2016/IEC 61009-1 : 2012+A1:2016+A2:2018 +A3:2018, IEC 61008-1:2010+A1:2012+A2:2013, IEC-61008-2-1:1990, IEC-61008-2-2:1990, IS/IEC-60898-1:2015, IS/IEC-60898-2:2003, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2:
607	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	28-day Testing	IS/IEC 60898 -1 : 2015, IEC 60898-1:2015+A1:2019, IS 12640-1 : 2024 ( IEC 61008-1 : 2013), IEC 61008-1:2024, IS 12640-2, A1: 2016 + A2 & A3 : 2018, IEC 61009-1: 2024, IEC 60898-2:2016, IS/IEC 60898: PART 2: 2016 (IEC 60898-2: 2016)
608	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Ageing of electronic Component	IS 12640-1: 2024 (IEC 61008-1 : 2013), IEC 61008-1:2024, IS 12640-2, A1: 2016 + A2 & A3 : 2018, IEC 61009-1,



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609	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Behaviour of RCCB In Case of Earth Fault Current Comprising a D.C. Component	IS 12640-1: 2024 (IEC 61008-1:2013), IEC 61008-1:2024, IS 12640-2, 2016 (61009-1: 2012) +A1: 2016 + A2 & 3 : 2018, IEC 61009-1
610	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	behavioyur of The RCCB In Case of Failure of The Line Voltage	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1, 2013 (CSV)
611	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Circuit Fault Current	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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612	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Clearances and Creepage Distances	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024, IS/IEC-60947-2:2016+A1:2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024, IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
613	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Condition of Arcing Due to Internal Fault	IS 12640:Part 1:2016/IEC 61008-1: 2012+A1:2016+A2:2018 +A3:2018+A4:2018, IS 12640-2:2016/IEC 61009-1 : 2012+A1:2016+A2:2018 +A3:2018, IEC 61008-1:2010+A1:2012+ A2:2013, IEC-61008-2-1:1990, IEC-61008-2-2:1990, IS/IEC-60898-1:2015, IS/IEC-60898-2:2003, IEC-60898-1:2015+A1:20 19, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2 011, BSEN:60947-2:2006+A1:2 009, BSEN:60947-3:2009+A1



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614	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	conventional operational Performance	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024, IS/IEC-60947-2:2016+A1:2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024, IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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615	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Coordination at the rated making and breaking capacity	IS/IEC 60947-1 :2004, IS/IEC 60947-2 :2016 IS/IEC 60947-3:2012 IS/IEC 60947 - 4 - 1 ,2012 IS/IEC 60947 - 4 - 2 ,2011 IS/IEC 60947 - 5 - 1 ,2009, IEC 60947-1, 2020, IEC 60947-2, 2016:2016, IEC 60947-3, 2020, IEC 60947-4-1, 2018 , IEC 60947-4-2, 2020,IEC 60947-5-1 2016 , IEC 60947-7-1, 2009, IEC 60947-7-2, 2009 IS/IEC 60898-1, 2015, IS/IEC 60898-2, 2003, IEC 60898-1 2015, IEC 60898-2 2016 , IS 12640 : Part 1, 2016 , IS 12640 Part 2
616	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Degree of protection of test device	IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024 (IEC 61008-1:2013), IEC 61008-1:2024, IS 12640-2, 2016 (61009-1: 2012) +A1: 2016 + A2 & 3 : 2018, IEC 61009-1



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617	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Dielectric Properties-- 1) Verification of impulse withstand voltage 2) Power-frequency withstand verification of solid insulation 3) Power-frequency withstand verification after switching and short-circuit tests 4) Verification of creepage distances 5) Verification of leakage current of equipment suitable for isolation	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1:2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV



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618	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Dielectric Verification- 1) Power-frequency withstand verification of solid insulation 2) Verification of leakage current of equipment suitable for isolation	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1:2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV
619	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Discrimination between SCPD and overload relay	IS/IEC-60947-1, 2007, IS/IEC-60947-2, 2016, IS/IEC-60947-3, 2012, IS/IEC-60947-4-1, 2012, IS/IEC-60947-4-2, 2011, IS/IEC-60947-5-1, 2009, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2018, IEC-60947-4-2,2020, IEC-60947-5-1,2016, IEC-60947-7-1



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620	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Environment Test -- Verification of Reliability- Climatic test, Resistance to humidity, Damp Heat Cycle test	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1
621	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Fuse protected short circuit making	IS/IEC 60898-1, 2015, IS/IEC 60898-2, 2003, IEC 60898-1 2015, IEC 60898-2 2016 , IS 12640 : Part 1, 2016 , IS 12640 : Part 2, 2016, IEC 61008-1, 2010 , A1-2012 , A2-2013, IEC 61008-2-1 1990, IEC 61008-2-2 1990, IEC 61009-1, 2010, A1-2012 , A2



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622	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Indelibility of Marking	IS/IEC 60947-1 : 2020,IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020,IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023,IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024,IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025,IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015,IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016,IS/IEC 60898-2 : 2016, IS 12640-1: 2024,IEC 61008-1:2024, IS 12640-2, 2016+A1:2016,A2 & A3:2018, IEC 61009-1



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623	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Individual pole short circuit breaking capacity	IS 10027:2018, IEC 60755: 2017 , IS 13032, 1991, IEC 60695-2-10;IS/IEC-60947-1, 2007, IS/IEC-60947-2, 2016, IS/IEC-60947-3, 2012, IS/IEC-60947-4-1, 2012, IS/IEC-60947-4-2, 2011, IS/IEC-60947-5-1, 2009, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2018, IEC-60947-4-2,2020, IEC-60947-5-1,2016, IEC-60947-7-1,2009, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2:2015 IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2003, IEC-60898-1, 2015+A1, 2



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624	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Insulation Resistance (at max 1000vDC)	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024, IS/IEC-60947-2:2016+A1:2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024, IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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625	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure (Glow wire test)	IS/IEC 60947-1 : 2020,IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020,IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023,IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024,IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025,IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015,IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016,IS/IEC 60898-2 : 2016, IS 12640-1: 2024,IEC 61008-1:2024, IS 12640-2, 2016+A1:2016,A2 & A3:2018, IEC 61009-1 :



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626	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Leakage Current (at max 5000v)	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1
627	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Limiting Values of The Non Operating Currents Under Overcurrent Conditions	IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024 (IEC 61008-1:2013), IEC 61008-1:2024, IS 12640-2, 2016 (61009-1: 2012) +A1: 2016 + A2 & 3 : 2018, IEC 61009-1



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628	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Mechanical and Electrical Endurance	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1
629	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Mechanism/Trip Free Mechanism	IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024 (IEC 61008-1:2013), IEC 61008-1:2024, IS 12640-2, 2016 (61009-1: 2012) +A1: 2016 + A2 & 3 : 2018, IEC 61009-1



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630	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Non Interchangeability	IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024 (IEC 61008-1:2013), IEC 61008-1:2024, IS 12640-2, 2016 (61009-1: 2012) +A1: 2016 + A2 & 3 : 2018, IEC 61009-1
631	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Operation of the test device at the limits of rated voltage	IS 12640-1: 2024 (IEC 61008-1:2013), IEC 61008-1:2024, IS 12640-2, 2016 (61009-1: 2012) +A1: 2016 + A2 & 3 : 2018, IEC 61009-1
632	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Operational Performance Capability (electrical and mechanical endurance test both)	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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633	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Operational Performance- - Operational performance capability without current, Operational performance capability with current, Verification of mechanical and electrical endurance,	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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634	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Over Current Device Calibration Test	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024, IS/IEC-60947-2:2016+A1:2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024, IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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635	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Overload Performance	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024, IS/IEC-60947-2:2016+A1:2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024, IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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636	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Performance at Rated Short Circuit Capacity	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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637	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Performance under short circuit conditions	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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638	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Performance/ Behavior under short circuit conditions	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
639	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Protection Against Electric Shock (MCB/RCBO)	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1



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640	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Rated Earth Fault Breaking Current	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
641	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Rated residual making and breaking capacity	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
642	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Rated service short circuit breaking capacity	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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643	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Rated ultimate short circuit breaking capacity	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2 011+A2:2014; BSEN:60947-2:2017+A1:2 020; BSEN:60947-3:2009+A1:2 012;+A2
644	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Reliability at 40 °C	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1 CSV



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645	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Reliability of Screws, Current carrying Parts and Connectors	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
646	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Reliability of Screws, For External Conductors	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1
647	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Resistance Against Unwanted Tripping Due to Current	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: CSV
648	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Resistance of The Insulation Against Impulse Voltages	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC-61009-1: CSV



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
649	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Resistance to Mechanical Shock and Impact	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: CSV
650	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Sensitivity	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: CSV
651	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Service Short Circuit Capacity	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
652	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Shock	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: CSV
653	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short circuit Breaking capacity at Maximum short time withstand current	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2 011+A2:2014; BSEN:60947-2:2017+A1:2 020; BSEN:60947-3:2009+A1:2 012;+A2



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654	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short circuit at ultimate short circuit breaking capacity	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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655	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short circuit making capacity	IS/IEC-60947-1:2020; IS/IEC-60947-2:2016; IS/IEC-60947-3:2020; IS/IEC-60947-4-1:2018; IS/IEC-60947-4-2:2020; IS/IEC-60947-5-1:2016; IEC-60947-1:2020; IEC-60947-2:2019; IEC-60947-3:2020; IEC-60947-4-1:2018; IEC-60947-4-2:2020; IEC-60947-5-1:2016; IEC-60947-5-2:2019; IEC-60947-7-1:2009; IS/IEC-60898-1:2015; IS/IEC-60898-2:2016; IEC-60898-1:2015+A1:2019; IEC-60898-2:2016; BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012+A2
656	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short circuit Performance at I500A	IS/IEC 60898-1, 2015, IS/IEC 60898-2, 2003, IEC 60898-1 2015, IEC 60898-2 2016 , IS 12640 : Part 1, 2016 , IS 12640 : 1991, IEC 61008-1, 2010 , A1-2012 , A2-2013,IEC 61008-2-1 1990, IEC 61008-2-2 1990, IEC 61009-1, 2010, A1-2012 , A2-2013 IEC 61009-2-1, 1991, IEC 61009-2-2



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657	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Short time withstand current	IS/IEC-60947-1:2020, IS/IEC-60947-2:2016, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016 , IEC-60947-1:2020, IEC-60947-2:2024, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2024, IEC-60947-5-1:2024, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2



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658	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Strength of Actuator Mechanism	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1



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659	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Switching duty test	IS/IEC 60947-1 :2004+A1-2015 IS/IEC 60947-2 :2003 IS/IEC 60947-3:2012 IS/IEC 60947 - 4 - 1 ,2012 IS/IEC 60947 - 4 - 2 ,2011 IS/IEC 60947 - 5 - 1 ,2009, IEC 60947-1, 2007,A1:2010,A2:2014, IEC 60947-2, 2016:2016, IEC 60947-3, 2008,A1:2012+A2:2015 IEC 60947-4-1, 2018 , IEC 60947-4-2, 2011,IEC 60947-5-1 2016 , IEC 60947-7-1, 2009, IEC 60947-7-2, 2009 IS/IEC 60898-1, 2015, IS/IEC 60898-2, 2003, IEC 60898-1 2015, IEC 60898-2 2016 , IS 12640 : Part 1, 2016 , IS 12640 : 19
660	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Test Device Ampere Turns	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC-61009-1: CSV



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
661	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Time Current Characteristics	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1CSV



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662	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Trip and non trip test	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A2:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019, IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013, IEC-61009-1CSV



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663	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of Ability to Withstand Overload Currents	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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664	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of Marking Dimensions, Visual Examination, General and Indelibility of marking.	IS/IEC 60947-1 : 2020,IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020,IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023,IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024,IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025,IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015,IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016,IS/IEC 60898-2 : 2016, IS 12640-1: 2024,IEC 61008-1:2024, IS 12640-2, 2016+A1:2016,A2 & A3:2018, IEC 61009-1



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665	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of Mechanical Propertis of Terminals	IS/IEC 60947-1 : 2020,IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020,IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023,IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024,IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025,IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015,IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016,IS/IEC 60898-2 : 2016, IS 12640-1: 2024,IEC 61008-1:2024, IS 12640-2, 2016+A1:2016,A2 & A3:2018, IEC 61009-1



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666	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of operation and operating Limits	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024, IS/IEC-60947-2:2016+A1:2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024, IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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667	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of Overload Releases	IS/IEC 60947-1 : 2020, IEC 60947-1:2020, IEC 60947-2:2024, IS/IEC-60947-2:2016+A1:2023, IS/IEC-60947-3:2020, IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023, IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024, IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024, IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025, IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024, IEC 61008-1:2024, IS 12640-2, 2016+A1:2016, A2 & A3:2018, IEC 61009-1



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668	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of rated making and breaking capacities, change over ability and reversibility	IS 12640:Part 1:2016/IEC 61008-1: 2012+A1:2016+A2:2018 +A3:2018+A4:2018, IS 12640-2:2016/IEC 61009-1 : 2012+A1:2016+A2:2018 +A3:2018, IEC 61008-1:2010+A1:2012+A2:2013, IEC-61008-2-1:1990, IEC-61008-2-2:1990, IS/IEC-60898-1:2015, IS/IEC-60898-2:2003 IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2:
669	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of the operation of the test device at the limits of rated voltage	IS/IEC 60898 -1: 2015, IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016, IS/IEC 60898-2 : 2016, IS 12640-1: 2024 (IEC 61008-1:2013), IEC 61008-1:2024, IS 12640-2, 2016 (61009-1: 2012) +A1: 2016 + A2 & 3 : 2018, IEC 61009-1
670	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Verification of the coordination at rated conditional residual short circuit current	IS 12640 : Part 1, 2016 , IS 12640-2 : 2016, IEC 61008-1, 2010 , A1-2012 , A2-2013,IEC 61008-2-1 1990, IEC 61008-2-2 1990, IEC 61009-1, 2010, A1-2012 , A2-2013 IEC 61009-2-1, 1991, IEC 61009-2-2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
671	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	Voltage Drop/Effective Earthing	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A1:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019 IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2:2015 IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2:



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
672	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear	withstand overload current	IS/IEC-60947-1, 2020, IS/IEC-60947-2, 2016 + A1:2019, IS/IEC-60947-3, 2020, IS/IEC-60947-4-1, 2020, IS/IEC-60947-5-1, 2016, IS/IEC 60947-5-2:2019 IEC-60947-1,2020, IEC-60947-2,2019, IEC-60947-3,2020, IEC-60947-4-1,2023, IEC-60947-5-1,2016, IEC-60947-7-1,2009, BSEN:60947-1:2007+A1:2011+A2:2014; BSEN:60947-2:2017+A1:2020; BSEN:60947-3:2009+A1:2012;+A2:2015 IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2
673	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut-outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Mechanical strength	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



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674	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut-outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Resistance to Rusting	IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1:2013 CSV 13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
675	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut-outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Lightning Impulse Voltage Withstand	IS/IEC 60947-1 : 2020,IEC 60947-1:2020, IEC 60947-2:2024 ,IS/IEC-60947-2:2016+A1: 2023, IS/IEC-60947-3:2020,IEC 60947-3:2020+A1:2025, IEC 60947-4-1:2023,IS/IEC 60947-4-1 : 2018, IEC 60947-4-2:2020+A1:2024 ,IS/IEC 60947-4-2:2020, IEC 60947-5-1:2024,IS/IEC 60947- 5- 1:2016, IEC 60947-7-1:2025,IS/IEC 60947- 7-1 : 2009, IS/IEC 60898 -1: 2015,IEC 60898-1:2015+A1:2019, IEC 60898-2: 2016,IS/IEC 60898-2 : 2016, IS 12640-1: 2024,IEC 61008-1:2024, IS 12640-2, 2016+A1:2016,A2 & A3:2018, IEC 61009-1



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676	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut-outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Temperature Rise (upto 10KA)	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1:2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV



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677	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L V Switchgear and Control gear / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut-outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Resistance to heat	IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC 61009-1: 2013 IS 13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1



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678	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L.V, Circuit Breaker & Swichgear Panel With Circuit	Resistance Rise Circuit	IS/IEC 60947-1:2020 IS/IEC-60947-1:2007+A1:2015, IS/IEC-60947-2:2016 + AMD.1: 2023, IS/IEC-60947-3:2020, IS/IEC-60947-4-1:2018, IS/IEC-60947-4-2:2020, IS/IEC-60947-5-1:2016, IEC-60947-1:2020, IEC-60947-2:2016 + AMD.1:2019 CSV, IEC-60947-3:2020, IEC-60947-4-1:2023, IEC-60947-4-2:2020, IEC-60947-5-1:2016, IEC-60947-7-1:2009, IS/IEC-60898-1:2015, IS/IEC-60898-2:2016, IEC-60898-1:2015+A1:2019, IEC-60898-2:2016, IS 12640-1:2016+A4:2018, IS 12640-2:2016+A3:2018 & IEC 61008-1:2013 CSV, IEC 61009-1:CSV



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
679	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	L.V, Circuit Breaker & Switchgear Panel With Circuit / LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Resistance test / Resistance Rise Test	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2, 2016, IS-9926, 1981, IS/IEC-60898-1, 2015, IS/IEC-60898-2, 2016, IEC-60898-1, 2015+A1, 2019, IEC-60898-2, 2016, IS-12640-1, 2016 + A4, 2018, IS-12640-2, 2016, +A3, 2018, IEC-61008-1, 2013 (CSV), IEC-61009-1 CSV
680	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Protection Against Electric Shock	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
681	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Re-wirable type fuses, fuses (cut- outs) Auxiliary terminal blocks interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Measurement of Resistance	IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+ A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657:



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682	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Re-wirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Measurement of Insulation Resistance	IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657
683	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxilliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Conventional fusing and non-fusing current test	IS/IEC 60269 : Part 1 : 2014, IS/IEC 60269 : Part 2 : 2016, IS/IEC 60269 : Part 3 : 2010, IS 13703 : Part 4 : 1993 ( IEC Pub 269-4 : 1980), IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC 60269-1:2024 RLV, IEC 60269-2:2013+AMD1:2016+AMD2:2024 CSV, IEC 60269-3:2024 CMV, IEC 60269-4:2024 CMV
684	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxilliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Conventional Time and current	IS 9926, 1981



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
685	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Electric Endurance	S 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+ A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657



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686	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Performance Under Short Circuit Conditions	IS 13703- 2-1:1993;IS 13703- 2-2:1993; IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2024; IS/IEC 60269-2:2024; IS/IEC 60269-3:2010;IEC 60269-1: 2024; IEC 60269-2: 2013; IEC 60269-3:2024; IEC 60269-4: 2024; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657



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687	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Verification of Breaking Capacity	IS 13703- 2-1:1993;IS 13703- 2-2:1993; IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+ A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657



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688	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Verification of I 2t characteristics and overcurrent discrimination	IS 13703 (Part 1), 1993 IS 13703( Part 2/ Sec 1), 1993 IS 13703 (Part 2 /Sec 2 ), 1993 IS 13703( Part 4), 1993 IS 8187 : 1976 A1 , 1980 IS 2086, 1993 A1, 1997 IS 10027 : 2000 IEC 60269-1, 2006, A1-2009, A2-2014 IEC 60269-2, 2013 IEC 60269-3, 2010 + A1-2013 IEC 60269-4, 2009 +A1-2012 BSEN 60269-1:2007+A2 2014/ BS 88-1:2007 +A2 2014 BSHD 60269-2:2010/ BS 88-2 :2010 BSHD 60269-3:2010 +A1 2013/ BS 88-3:2010 BSHD 60269-4:2009 + A1 2012, BS 88-4:2009 + A1 2012 BS 7657



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
689	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnect- ing units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Verification of the cut-off current characteristics	IS 13703- 2-1:1993;IS 13703- 2-2:1993; IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+ A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657
690	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Freedom from seasonal cracking	IS/IEC 60269 : Part 1 : 2014, IS/IEC 60269 : Part 2 : 2016, IS/IEC 60269 : Part 3 : 2010, IS 13703 : Part 4 : 1993 ( IEC Pub 269-4 : 1980), IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC 60269-1:2024 RLV, IEC 60269-2:2013+AMD1:2016+AMD2:2024 CSV, IEC 60269-3:2024 CMV, IEC 60269-4:2024 CMV



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691	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Resistance to Heat	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
692	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Degree of Protection	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
693	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Dimensions	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2: 2016 , IS-9926



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
694	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Insulation resistance (at max 1000V)	IS 13703-4:1993; IS 2086:1993+A1-1997; IS 10027: 2018; IS/IEC 60269-1:2014; IS/IEC 60269-2:2016; IS/IEC 60269-3:2010;IEC 60269-1: 2006+A1.2009+A2.2014; IEC 60269-2: 2013+A1-2016; IEC 60269-3:2010+A1.2013+A2-2019; IEC 60269-4: 2009+A1.2012; BSEN 60269-1:2007+A2:2014 /BS88-1:2007+A2.2014; BSHD 60269-2:2013/BS 88-2: 2013; BSHD 60269-3 2010+A1 2013/BS 88-3: 2010; BSEN 60269-4:2009 +A1.2012+A2-2016/BS 88-4:2009+A1:2012; BS 7657
695	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Mechanical Endurance	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



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S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
696	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Mechanical Strength of Fuse Holder	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
697	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Non-deterioration of insulating parts of fuse links, fuse base and contacts	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
698	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Temperature Cycle	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2



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699	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Time Current Characteristics	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
700	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Verification of the insulating properties	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
701	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Visual Examination -- Ambient Temperature measurement of fuse and dimensional measurement of fuse wire	IS 9926 : 1981, IS-2086, 1993+A1
702	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Water Absorption (Non Ceramic)	IS 9926 : 1981, IS-2086, 1993+A1



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703	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Withdrawal Force	13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010,+A1,2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2: 2016 , IS-9926
704	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Rated current test	IS 13032:1991+A1:1993+A2:2017; IS 8084 : 2025, IEC TR 61439-0:2022, IS/IEC 61439 : Part 0 : 2010, IS/IEC 61439:Part1:2020; IS/IEC 61439-2:2020; IS/IEC:61439-3:2012; IS/IEC 61439-4:2012; IS/IEC61439-5:2014; IS/IEC 61439-6:2012; IS/IEC 61439 : Part 7 : 2022, IS/IEC 60529: 2001+A1: 2024, IEC 61439-1 2020, IEC 61439-2 2020, IEC 61439-3:2024 IEC 61439-4:2023 IEC 61439-5:2023 IEC 61439-6 2012, IEC 61439-7:2022, IEC 60529, 2013, IEEE Std C37.23-2015, IEC60947-1



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705	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Temperature Rise	IS-13703-2-1, 1993, IS-13703-2-2, 1993, 13703-4, 1993, IS/IEC-60269-1, 2014, IS/IEC-60269-2, 2016, IS/IEC-60269-3, 2010, IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC-60269-1, 2006+A1, 2009+A2, 2014, IEC-60269-2, 2013+A1, 2016, IEC-60269-3, 2010, +A1, 2013+A2, 2019, IEC-60269-4, 2009+ A1, 2012+A2
706	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Water Absorption on Ceramic Material	IS 2086:1993+A1
707	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV fuses, fuse holders/base, Rewirable type fuses, fuses (cut- outs) Auxiliary terminal blocks & interconnecting units, cartridge fuses, D type (AC/DC) fuses, semiconductor fuses, fuses with enclosure	Overload test	IS/IEC 60269 : Part 1 : 2014, IS/IEC 60269 : Part 2 : 2016, IS/IEC 60269 : Part 3 : 2010, IS 13703 : Part 4 : 1993 ( IEC Pub 269-4 : 1980), IS-2086, 1993+A1, 1997, IS-10027, 2018, IEC 60269-1:2024 RLV, IEC 60269-2:2013+AMD1:2016+AMD2:2024 CSV, IEC 60269-3:2024 CMV, IEC 60269-4:2024 CMV
708	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	LV Switchgear and Control gear Assemblies	Arc Fault Test	IEC/TR:61641:2014; IS/IEC:61439-2:2020; IEC:61439-2



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709	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Motor Terminal Box	Internal Arc Fault	As per CPRI DOCUMENT: TEST OPERATING PROCEDURE STATION - 1 (TOP-1) Issue no. 7 dated 05.08.
710	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Motor Terminal Box	Through Fault Current	As per CPRI DOCUMENT: TEST OPERATING PROCEDURE STATION - 1 (TOP-1) Issue no. 7 dated 05.08
711	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Pre-Fabricated Substation	Internal Arc Test	IEC 62271-202:2022; IS/IEC 62271-202
712	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Pre-Fabricated substation	Short-time withstand current and peak withstand current test	IEC 62271-202:2022; IS/IEC 62271-202:
713	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	Rewirable Fuse	Temperature cycle test	IS-2086, 1993+A1
714	ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT	VCB PANELS OUTDOOR BREAKERS & Auto reclosures AS PER IEC 62271	PARTIAL DISCHARGE TEST	IEC 62271-1: 2021, IEC 62271-100: 2021, IEC 62271-200 : 2021, IEC 62271-102: 2022, IEC 62271-103:2021, IS/IEC 62271(PART1):2017, IS/IEC 62271(PART100):2021, IS/IEC 62271(PART102):2018, IS/IEC 62271(PART103):2021, IS/IEC 62271(PART200):2021, IEC-62271-111



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715	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	All types of Insulators & Bushings	Partial Discharge test	IS / IEC 60383-1 :2023, IS / IEC 60383-2 :1993, IS / IEC 60137
716	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, power connectors, Insulators	Short Time Current	IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155: 2003, IS/IEC 60168: 2000, IS 731:1971+A5.1987,+A6.1993,+A7
717	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, Power connectors, Insulators	Visual inspection and dimensional check	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988 ,IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273
718	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, power connectors, Insulators	HV power frequency test (dry & wet)	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988 ,IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273
719	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, power connectors, Insulators	Lightning impulse Test & Switching Impulse	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988 ,IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273
720	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, Power connectors, Insulators	puncture	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988 ,IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273



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721	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, power connectors, Insulators	Routine test -- Dry lightning impulse voltage withstand test, Dry power-frequency voltage withstand test	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021 IEC 60273
722	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, Power connectors, Insulators	Switching Impulse Voltega (Dry) ( upto 220 kV class)	IEC 60137:2017, IS/IEC 60137:2017, IEC 60305 : 2021, IEEE C57.19.01
723	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, power connectors, Insulators	Temperature rise test	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273
724	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushing, Power connectors, Insulators	Verification of Dimensions	IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60273
725	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Bushings & Insulators	Measurement of Capacitance and tan delta	IEC 60137:2017, IEC 61109, IS 9431 : 2024, IS/IEC 60137 : 2017, IEC 60137:2017, IS/IEC 60137:2017, IS 7421:1988, IS 5561:2018, IS/IEC 62155:2003, IS/IEC 60168:2000, IS 731:1971, IEC 60305 : 2021, IEC 60273: 1990
726	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Hollow Insulator Post Insulator (Indoor/ Potdoor) Upto 400 KV Rating	Impulse Voltage Withstand	IS/IEC 62155:2003, IS 5350(part-1):1970, IS 5350(part-2):1973, IS 5350(part-3):1971



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727	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Insulator Strings	Power Arc Test	IEC 61467
728	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Line Traps	Short Time Current	IS: 8792-2023; IS:8793-1995; IEC:60353
729	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Neutral Grounding Resistor Units	Short Time Current	As per CPRI DOCUMENT: TEST OPERATING PROCEDURE STATION - 1 (TOP-1) Issue No.7 dated 05.08.2020; IEEE Std C57.32
730	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Neutral Grounding Resistor Units	Temperature Rise	As per CPRI DOCUMENT: TEST OPERATING PROCEDURE STATION - 1 (TOP-1) Issue No.7 dated 05.08.2020; IEEE Std 32
731	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load tap Changer	Breaking Capacity test	IS 8468 : Part 1 2018, IEC 60214-1
732	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Degree of Protection	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529
733	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	High Voltage	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529



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734	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Lightning Impulse Test ( Upto 220 KV class	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529
735	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Mechanical Endurance	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529
736	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Mechanical Test	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529
737	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Service Duty Tests	IS 8468 : Part 1 2018, IEC 60214-1
738	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Short Circuit Current	IS 8468 : Part 1 : 2018/IEC 60214-1 : 2014; IEC 60214-1:2014; IEC/IEEE 60214-2
739	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Temperature Rise Test ( upto 25 KA)	IS 8468(Part-1):2018/IEC 60214-1:2014, IS/IEC 60947-1:2004, IS/IEC60529:2001, IEC 60214-1,2014 , IEC/IEEE 60214-2:2019 ,IEC 60947-1:2020, ,IEC 60529



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740	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	On Load Tap Changer	Transition Impedance	IS 8468 : Part 1 2018, IEC 60214-1
741	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Porcelain Insulators for Over Head Power Lines With Nominal Voltage Greater than 1000 V Insulator String, Post Insulators, Solid Core Insulator, Composite Insulators, pin Insulator, Polyester Housings Upto 400 KV rating	Lightning Impulse and 50% Impulse Voltage Flashover	IEC:60168:1994+AMD1:1997+AMD2:2000,IEC:60383-1/1993,IEC:60383-2/1993,IEC61109:2008,IEC 60433:1998,IS/IEC 60168:2000,IS:731:1971, IS1445:
742	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Spacers for Bundle Conductor	Fault Current	IS 10162:1982+A.No.1
743	ELECTRICAL-TRANSMISSION LINE EQUIPMENT & ACCESSORIES	Surge Arresters	Short Circuit Test	IS 15086 /Part 4 : 2017 / IEC 60099-4 : 2014, IEC 60099-4, 2014; IEC 60099-5, 2018; IEEE C62.11