



Scope of Accreditation for Testing
As per ISO/IEC 17025:2017

CAB Name: Havells India Limited (Havells Research & Development Laboratory) Page No. 1 of 11
Address: Plot No. 6, Site IV, Sahibabad Industrial Area, Sahibabad, Ghaziabad –201010 Uttar Pradesh
Certificate No.: T-0017 **Issue date:** 24.05.2025
Validity : 23.05.2029
Amendment Date : 10.03.2026

Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
ELECTRICAL-SWITCHGEAR & PROTECTIVE EQUIPMENT					
1	Circuit breakers & controllers MCCB, ACB	Test Sequence-I: Tripping limits and characteristics	1 A to 2000 A 100 A to 10,000A	IS/IEC 60947- 2 (CI No. 8.3.3.2)	Permanent
2	Circuit breakers & controllers MCCB, ACB	Test Sequence-I: Tripping limits and characteristics	0.0001 sec to 9999sec	IS/IEC 60947- 2 (CI No. 8.3.3.2)	Permanent
3	Circuit breakers & controllers ACB, MCCB	Test Sequence-I: Dielectric properties,	Qualitative: Power Frequency: -0.5kV to 5 kV Impulse: 2kV to 20kV	IS/IEC 60947- 2 (CI No. 8.3.3.3)	Permanent
4	Circuit breakers & controllers MCCB, ACB	Test Sequence-I : Mechanical operation and operational performance Capability	1 A to 1600A	IS/IEC 60947- 2 (CI No. 8.3.3.4)	Permanent
5	Circuit breakers & controllers MCCB, ACB	Test Sequence-I : Overload performance	500 A to 22 kA	IS/IEC 60947- 2 (CI No. 8.3.3.5)	Permanent
6	Circuit breakers & controllers MCCB, ACB	Test Sequence-I: Verification of dielectric withstand	Qualitative: Power Frequency: -0.5kV to 5 kV	IS/IEC 60947- 2 (CI No. 8.3.3.6)	Permanent
7	Circuit breakers & controllers MCCB, ACB	Test Sequence-I : Verification of temperature-rise Temperature- rise Single Phase-100A5000A & 3Phase 50A-4000A	10 deg C to 200 deg C	IS/IEC 60947- 2 (CI No. 8.3.3.7)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
8	Circuit breakers & controllers MCCB, ACB	Test Sequence-I : - Verification of overload releases	1 A to 2000 A 100 A to 10,000A	IS/IEC 60947- 2 (CI No. 8.3.3.8)	Permanent
9	Circuit breakers & controllers MCCB, ACB	Test Sequence-I : - Verification of overload releases	0.0001 sec to 9999 secs	IS/IEC 60947- 2 (CI No. 8.3.3.8)	Permanent
10	Circuit breakers & controllers MCCB, ACB	Test Sequence-I : Verification of undervoltage and shunt releases (if applicable)	12V to 460V AC 12V to 300V DC	IS/IEC 60947- 2 (CI No. 8.3.3.9)	Permanent
11	Circuit breakers & controllers MCCB, ACB	Test Sequence-I : Verification of main contact position where applicable	Qualitative	IS/IEC 60947- 2 (CI No.8.3.3.10)	Permanent
12	Circuit breakers & controllers MCCB, ACB	Test Sequence-II Rated service shortcircuit breaking capacity	0.5 kA to 25 kA	IS/IEC 60947- 2 (CI No. 8.3.4.2)	Permanent
13	Circuit breakers & controllers MCCB, ACB	Test Sequence-II Verification of operational performance capability	5 A to 1600 A	IS/IEC 60947- 2 (CI No. 8.3.4.3)	Permanent
14	Circuit breakers & controller MCCB, ACB	Test Sequence-II Verification of dielectric withstand	Qualitative Power Frequency: -0.5kV to 5 kV	IS/IEC 60947- 2 (CI No. 8.3.4.4)	Permanent
15	Circuit breakers & controllers MCCB, ACB	Test Sequence-II Verification of Temperature- rise Single Phase-100A5000A & 3Phase 50A-4000A	10 deg C to 200 deg C	IS/IEC 60947- 2 (CI No. 8.3.4.5)	Permanent
16	Circuit breakers & controllers MCCB, ACB	Test Sequence-II Verification of overload releases	0.0001 sec to 9999 secs	IS/IEC 60947- 2 (CI No. 8.3.4.6)	Permanent



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17	Circuit breakers & controllers MCCB, ACB	Test Sequence-II Verification of overload releases	1 A to 2000 A 100 A to 10,000A Single Phase	IS/IEC 60947- 2 (CI No. 8.3.4.6)	Permanent
18	Circuit breakers & controllers MCCB, ACB	Test Sequence-III Verification of overload releases	1 A to 2000 A 100 A to 10,000A Single Phase	IS/IEC 60947- 2 (CI No. 8.3.5.2)	Permanent
19	Circuit breakers & controllers MCCB, ACB	Test Sequence-III Verification of overload releases	0.0001 sec to 9999sec	IS/IEC 60947- 2 (CI No. 8.3.5.2)	Permanent
20	Circuit breakers & controllers MCCB, ACB	Test Sequence-III Rated ultimate short-circuit breaking capacity	0.5 kA to 25 kA	IS/IEC 60947- 2 (CI No. 8.3.5.3)	Permanent
21	Circuit breakers & controllers MCCB, ACB	Test Sequence-III Verification of dielectric withstand	Qualitative Power Frequency: -0.5kV to 5 kV	IS/IEC 60947- 2 (CI No. 8.3.5.4)	Permanent
22	Circuit breakers & controllers MCCB, ACB	Test Sequence-III Verification of overload releases	1 A to 2000 A 100 A to 10,000A Single Phase	IS/IEC 60947- 2 (CI No. 8.3.5.5)	Permanent
23	Circuit breakers & controllers MCCB, ACB	Test Sequence-III Verification of overload releases	0.0001 sec to 9999sec	IS/IEC 60947- 2 (CI No. 8.3.5.5)	Permanent
24	Circuit breakers & controllers MCCB,ACB	Test Sequence-IV Verification of overload releases	1 A to 2000 A 100 A to 10,000A Single Phase	IS/IEC 60947- 2 (CI No. 8.3.6.2)	Permanent
25	Circuit breakers & controllers MCCB,ACB	Test Sequence-IV Verification of overload releases	0.0001 sec to 9999sec	IS/IEC 60947- 2 (CI No. 8.3.6.2)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
26	Circuit breakers & controllers MCCB, ACB	Test Sequence-IV Rated short-time withstand current	0.5 kA to 25 kA 0.1 Sec Max at 50 Hz	IS/IEC 60947- 2 (CI No. 8.3.6.3)	Permanent
27	Circuit breakers & controllers MCCB, ACB	Test Sequence-IV Verification of temperature Rise Single Phase-100A 5000A & 3Phase 50A-4000A	10 deg C to 200 deg C	IS/IEC 60947- 2 (CI No. 8.3.6.4)	Permanent
28	Circuit breakers & controllers MCCB, ACB	Test Sequence-IV Short-circuit breaking capacity at maximum short-time withstand current	0.5 kA to 25 kA 0.1 Sec Max at 50 Hz	IS/IEC 60947- 2 (CI No. 8.3.6.5)	Permanent
29	Circuit breakers & controllers MCCB, ACB	Test Sequence-IV Verification of dielectric withstand	Qualitative Power Frequency: -0.5kV to 5 kV	IS/IEC 60947- 2 (CI No. 8.3.6.6)	Permanent
30	Circuit breakers & controllers MCCB, ACB	Test Sequence-IV Verification of overload release	0.0001 sec to 9999sec	IS/IEC 60947- 2 (CI No. 8.3.6.7)	Permanent
31	Circuit breakers & controllers MCCB, ACB	Test Sequence-IV Verification of overload releases	1 A to 2000 A 100 A to 10,000A Single Phase	IS/IEC 60947- 2 (CI No. 8.3.6.7)	Permanent
32	Circuit breakers & controllers MCCB, ACB	Test Sequence-VI: Combined test sequence - Verification of overload releases	0.0001 sec to 9999sec	IS/IEC 60947- 2 (CI No. 8.3.8.2)	Permanent
33	Circuit breakers & controllers MCCB, ACB	Test Sequence-VI: Combined test sequence - Verification of overload releases	1 A to 2000 A 100 A to 10,000A Single Phase	IS/IEC 60947- 2 (CI No. 8.3.8.2)	Permanent
34	Circuit breakers & controllers MCCB, ACB	Test Sequence-VI : Combined test sequence - Rated short-time withstand current	0.5 kA to 25 kA 0.1 Sec Max at 50 Hz	IS/IEC 60947- 2 (CI No. 8.3.8.3)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
35	Circuit breakers & controllers MCCB, ACB	Test Sequence-VI : Combined test sequence - Rated service short-circuit breaking capacity*	0.5 kA to 25 kA	IS/IEC 60947- 2 (CI No. 8.3.8.4)	Permanent
36	Circuit breakers & controllers MCCB, ACB	Test Sequence-VI: Combined test sequence Operational performance capability	5 A to 1600 A	IS/IEC 60947- 2 (CI No. 8.3.8.5)	Permanent
37	Circuit breakers & controllers MCCB, ACB	Test Sequence-VI: Combined test sequence Verification of dielectric withstand	Qualitative Power Frequency: -0.5kV to 5 kV	IS/IEC 60947- 2 (CI No. 8.3.8.6)	Permanent
38	Circuit breakers & controllers MCCB, ACB	Test Sequence-VI: Combined test sequence - Verification of temperature Rise Single Phase 100A-5000A & 3Phase 50A-4000A	10 deg C to 200 deg C	IS/IEC 60947- 2 (CI No. 8.3.8.7)	Permanent
39	Circuit breakers & controllers MCCB, ACB	Test Sequence-VI: Combined test sequence Verification of overload releases	0.0001 sec to 9999sec	IS/IEC 60947- 2 (CI No. 8.3.8.8)	Permanent
40	Circuit breakers & controllers MCCB, ACB	Test Sequence-VI: Combined test sequence Verification of overload releases	1 A to 2000 A 100 A to 10,000A Single Phase	IS/IEC 60947- 2 (CI No. 8.3.8.8)	Permanent
41	Circuit breakers & controllers MCCB, ACB	Construction al Requirement - General	650 deg C to 960 deg C	IS/IEC 60947- 2 (CI No.7.1.1)	Permanent
42	Circuit breakers & controllers MCCB, ACB	Clearances and creepage distances	0.5 mm to 300 mm	IS/IEC 60947- 2 (CI No.7.1.4)	Permanent
43	Circuit breakers & controllers MCCB, ACB	Clearances	0.5 mm to 150 mm	IS/IEC 60947- 2 (CI. No. 7.2.3.4)	Permanent



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44	Circuit breakers & controllers MCCB, ACB	Individual pole short-circuits breaking capacity (I _{su}), Individual pole short-circuits	0.5 kA to 25 kA	IS/IEC 60947-2: Annex C.2, H2	Permanent
45	Circuit breakers & controllers MCCB, ACB	Verification of dielectric withstand	Qualitative Power Frequency: -0.5kV to 5 kV	IS/IEC 60947-2: Annex C.3, H3	Permanent
46	Circuit breakers & controllers MCCB, ACB	Verification of overload releases	1 A to 2000 A 100 A to 10,000A Single Phase	IS/IEC 60947-2: Annex C.4, H4	Permanent
47	Circuit breakers & controllers MCCB, ACB	Verification of overload releases	0.0001 sec to 9999 sec	IS/IEC 60947-2: Annex C.4, H.4	Permanent
48	Motor starters Contactors, MPCB, Starter, Relay	Glow wire testing	650 deg C to 960 deg C	IS/IEC 60947-4-1: (Cl. No. 8.1.2.2)	Permanent
49	Motor starters Contactors, MPCB, Starter, Relay	Test Sequence -I verification of temperature rise	1 deg C to 200 deg C	IS/IEC 60947-4-1: (Cl. No. 9.3.3.3)	Permanent
50	Motor starters Contactors, MPCB, Starter, Relay	Test Sequence -I verification of operation and operating limits	Qualitative AC: 12V to 600 V DC :12VVdc to 300	IS/IEC 60947-4-1: (Cl. No. 9.3.3.1 and 9.3.3.2)	Permanent
51	Motor starters Contactors, MPCB, Starter, Relay	Test Sequence -I verification of dielectric properties	Qualitative: Power Frequency: -0.5kV to 5 kV Impulse: 2kV to 20kV	IS/IEC 60947-4-1: (Cl. No. 9.3.3.4)	Permanent
52	Switches & isolators Switches, disconnector s , Switch disconnector s and fuse combination units	Test Sequence -I Temperature -rise 1 A to 2000 A 100 A to 10,000A Single Phase	10 deg to 200 deg	IS/IEC 60947-3: (Cl. No. 9.3.4.2)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
53	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test Sequence -I Qualitative: Dielectric Properties Power Frequency: -0.5kV to 5 kV Impulse: 2kV to 20kV	Qualitative	IS/IEC 60947-3: (Cl.No: 9.3.4.3)	Permanent
54	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test Sequence -I Making and breaking capacities	0.05 kA to 25 kA	IS/IEC 60947-3: (Cl. No. 9.3.4.4)	Permanent
55	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test Sequence -I Dielectric Verification Qualitative: Power Frequency: -0.5kV to 5 kV	Qualitative	IS/IEC 60947-3: (Cl.No: 9.3.4.5)	Permanent
56	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test Sequence -I Leakage current	1 mA to 6 mA	S/IEC 60947-3: (Cl.No: 9.3.4.6)	Permanent
57	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination unit	Test Sequence -I Temperature -rise verification Temperature- rise Single Phase-100A-5000A & 3Phase 50A-4000A	10 deg to 200 deg	IS/IEC 60947-3: (Cl. No. 9.3.4.7)	Permanent
58	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test Sequence -I Strength of actuator mechanism	Qualitative	IS/IEC 60947-3: (Cl. No. 9.3.4.8)	Permanent
59	Switches & isolators Switches, disconnectors, Switch disconnectors	Test Sequence -II Operational performance	5 A to 1600A	IS/IEC 60947-3: (Cl. No. 9.3.5.2)	Permanent



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	s and fuse combination units				
60	Switches & isolators Switches, disconnectors , Switch disconnectors and fuse combination units	Test Sequence -II Dielectric Verification Qualitative : Power Frequency: -0.5kV to 5 kV	Qualitative	IS/IEC 60947-3: (Cl. No. 9.3.5.3)	Permanent
61	Switches & isolators Switches, disconnectors , Switch disconnectors and fuse combination units	Test Sequence -II Leakage current	1 mA to 6 mA	IS/IEC 60947-3: (Cl. No. 9.3.5.4)	Permanent
62	Switches & isolators Switches, disconnectors , Switch disconnectors and fuse combination units	Test Sequence -II Temperature -rise verification Temperature- rise Single Phase-100A5000A & 3Phase 50A-4000A	10 deg to 200 deg	IS/IEC 60947-3: (Cl. No. 9.3.5.5)	Permanent
63	Switches & isolators Switches, disconnectors , Switch disconnectors and fuse combination units	Test Sequence -III Short-time withstand current S.C – 0.5kA to 25kA At low voltage – 0.1kA to 12kA	0.5 kA to 25 kA 0.1 Sec Max at 50 Hz 0.1 kA to 12 kA 2 Sec Max at 50 Hz	IS/IEC 60947-3: (Cl. No. 9.3.6.2)	Permanent
64	Switches & isolators Switches, disconnectors , Switch disconnectors and fuse combination units	Test Sequence -III Short-circuit Making capacity	0.5 kA to 25 kA	IS/IEC 60947-3: (Cl. No. 9.3.6.3)	Permanent
65	Switches & isolators Switches, disconnectors , Switch disconnectors and fuse	Test Sequence -III Dielectric Verification Qualitative: Power Frequency: -0.5kV to 5 kV	Qualitative	IS/IEC 60947-3: (Cl. No. 9.3.6.4)	Permanent



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Sr. No	Parameter/ Materials/ Products tested	Type of Test/Properties measured	Range of measurement	Standard specifications/ Equipment/Techniques used	Facility
	combination units				
66	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test Sequence -III Leakage current	1 mA to 6 mA	IS/IEC 60947-3: (Cl. No. 9.3.6.5)	Permanent
67	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test Sequence -III Temperature-rise Verification Temperature- rise Single Phase-100A5000A & 3Phase 50A-4000A	10 deg to 200 deg	IS/IEC 60947-3: (Cl. No. 9.3.6.6)	Permanent
68	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test sequence IV: Fuse protected short-circuit withstand	0.5k A to 25 kA	IS/IEC 60947-3: (Cl. No. 9.3.7.3.1 a)	Permanent
69	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test sequence IV: Fuse protected short-circuit making	0.5k A to 25 kA	IS/IEC 60947-3: (Cl. No. 9.3.7.3.1 b)	Permanent
70	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test sequence IV: Dielectric Verification Qualitative : Power Frequency: -0.5kV to 5 kV	Qualitative	IS/IEC 60947-3: (Cl. No. 9.3.7.4)	Permanent
71	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test sequence IV: Leakage current	1 mA to 6 mA	S/IEC 60947-3: (Cl. No. 9.3.7.5)	Permanent



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72	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test sequence IV: Temperature -rise Verification Temperature- rise Single Phase-100A5000A & 3Phase 50A-4000A	10 deg to 200 deg	IS/IEC 60947-3: (Cl. No. 9.3.7.6)	Permanent
73	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test sequence V: Overload test	1 A to 2000 A 100 A to 10,000A Single Phase	IS/IEC 60947-3: (Cl. No. 9.3.8.2)	Permanent
74	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test sequence V: Overload test	0.0001 sec to 9999sec	IS/IEC 60947-3: (Cl. No. 9.3.8.2)	Permanent
75	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test sequence V: Dielectric verification	Qualitative Power Frequency: -0.5kV to 5 kV	IS/IEC 60947-3: (Cl. No. 9.3.8.3)	Permanent
76	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test sequence V: Leakage current	1 mA to 6 mA	IS/IEC 60947-3: (Cl. No. 9.3.8.4)	Permanent
77	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Test sequence V: Temperature -rise verification	10 deg to 200 deg	IS/IEC 60947-3: (Cl. No. 9.3.8.5)	Permanent
78	Switches & isolators Switches, disconnectors, Switch disconnectors	Mechanical Properties of Terminals (for use with unprepared conductors only)	Qualitative	IS/IEC 60947-1: (Cl.No: 9.2.5)	Permanent



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	s and fuse combination unit/Contactor/Starter/MCCB/ACB/Aux Devices				
79	Motor starters Contactors, MPCB, Starter, Relay	Test Sequence -II verification of rated Making & Breaking capacities, Verification of conventional operation	Qualitative 0.5 kA to 25 kA	IS/IEC 60947-4-1: (Cl. No. 9.3.3.5, 9.3.3.6)	Permanent
80	Switches & isolators Switches, disconnectors, Switch disconnectors and fuse combination units	Glow wire Testing	650 deg C to 960 deg C	IS/IEC 60947-3: (Cl. No: 8.1.2.2)	Permanent
81	Motor starters Contactors, MPCB, Starter, Relay	Test Sequence -IV verification of ability to withstand overload current	Qualitative 1 A to 2000 A 100 A to 10,000A	IS/IEC 60947-4-1: (Cl. No. 9.3.5)	Permanent
82	Motor starters Contactors, MPCB, Starter, Relay	Test Sequence -III Performance under Short Circuit Condition	Qualitative 0.5 kA to 25 kA	IS/IEC 60947-4-1: (Cl. No. 9.3.4)	Permanent
83	Control circuit devices	Test Sequence -I Operating limits of contactor relays (8.3.3.2),	Qualitative AC: 12V to 600 V DC :12Vdc to 300	IS/IEC 60947-5-1: (Cl. No. 8.3.3.2)	Permanent
84	Control circuit devices	Test Sequence -I Temperature rise (8.3.3.3)	10 deg C to 200 deg C	IS/IEC 60947-5-1: (Cl. No. 8.3.3.3)	Permanent
85	Control circuit devices	Test Sequence -I Dielectric properties (8.3.3.4)	Qualitative: Power Frequency: -0.5kV to 5 kV Impulse: 2kV to 20kV	IS/IEC 60947-5-1: (Cl. No. 8.3.3.4)	Permanent
86	Control circuit devices	Test Sequence -I Mechanical and electrical properties of terminals (8.2.4)	Qualitative	IS/IEC 60947-5-1: (Cl. No. 8.2.4)	Permanent



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