



**Scope of Accreditation for Testing**

As per ISO/IEC 17025

**CAB Name** : C&S Electric Ltd (R & D Test lab)  
**Address** : Plot No. C-58, Phase 2 Main Rd, C Block, Sector 80, Noida-201305,  
 Uttar Pradesh  
**Certificate No.:** T-0062

Page No. 1 of 8

**Issue date:** 10.06.2026  
**Validity:** 09.06.2030

Sr. No.	Product/ Material to be tested	Parameter/ Type of test/ Properties Measured	Range of measurement/ detection limit	Standard specifications/ Equipment/Techniques used	Facility
<b>Discipline:</b> Electrical <b>Group:</b> Control Gear & Switchgear					
1	Circuit breakers & controllers (MCCB, ACB)	Verification of dielectric withstand	High Voltage Test 0.5 to 5 kV & Leakage Current Test 0.01mA to 6 mA	IS/IEC 60947-2: (Cl. 8.3.3.6), (Cl. 8.3.4.4), (Cl. 8.3.5.4), (Cl. 8.3.6.6), (Cl.8.3.7.4), (Cl.8.3.7.8), (Cl. 8.3.8.6), (Annex. C.3) & (Annex. H.3)	Permanent
		Verification of overload releases	1 to 3000 Amp & 1 sec to 20000 sec	IS/IEC 60947-2 (Cl. 8.3.3.8), (Cl.8.3.4.5), (Cl.8.3.5.2), (Cl. 8.3.5.5), (Cl.8.3.6.2), (Cl.8.3.6.7), (Cl. 8.3.7.5), (Cl.8.3.7.9), (Cl.8.3.8.2), (Cl. 8.3.8.8), (Annex. C.4) & (Annex. H.4)	Permanent
		Verification of under-voltage and shunt releases	1 to 600 V (ac & dc)	IS/IEC 60947-2 (Cl. 8.3.3.9)	Permanent
		Tripping limits and characteristics	1 to 3000 Amp & 1 sec to 20000 sec	IS/IEC 60947-2 (Cl. 8.3.3.2)	Permanent



Certificate



scope



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Page No. 2 of 8

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		Dielectric properties	Impulse Test 0.5-15 kV, High Voltage Test 0.5-5kV & Leakage Current Test 0.01mA to 6 mA	IS/IEC 60947- 2: (Cl. 8.3.3.3)	Permanent
		Mechanical operation and operational performance capability	1 to 600 V (ac & dc), 1 sec to 20000 sec, 1 deg C to 200 deg C, 40A to 4000A, 1 to 999999 Counts	IS/IEC 60947-2 (CL.8.3.3.4)	Permanent
		Verification of operational performance capability	40A to 4000A & 1 to 999999 Counts	IS/IEC 60947-2 (Cl. 8.3.4.3)	Permanent
		Overload Performance	40A to 4000A & 1 to 999999 Counts	IS/IEC 60947-2 (Cl. 8.3.3.5)	Permanent
		Verification of Temperature Rise	1 to 3000A, 1 deg to 200 deg C	IS/IEC 60947-2 (Cl. 8.3.3.7), (Cl.8.3.4.5), (Cl.8.3.6.4), (Cl.8.3.7.3), (Cl.8.3.8.7)	Permanent
2	Low Voltage Switchgear & Control Gear (MCCB, ACB)	Temperature Rise	1 to 3000A, 1 deg to 200 deg C	IS/IEC 60947-1 (Cl.9.3.3.3) UL 60947-1 (Cl. 9.3.3.3)	Permanent
		Dielectric Properties	Impulse Test 0.5-15 kV & High Voltage Test 0.5-5kV	IS/IEC 60947-1 (Cl.9.3.3.4) UL 60947-1 (Cl. 9.3.3.4)	Permanent



Certificate



scope



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**CAB Name** : C&S Electric Ltd (R & D Test lab)

Page No. 3 of 8

**Address** : Plot No. C-58, Phase 2 Main Rd, C Block, Sector 80, Noida-201305,  
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		Mechanical & Electrical Properties of terminals	0.1 kg to 22.7 kg	IS/IEC 60947-1 (Cl. 9.2.5) UL 60947-1 (Cl. 9.2.5)	Permanent
		Degree of protection against access to hazardous parts and against ingress of solid foreign objects	Ingress Protection (IP20)	IS/IEC 60947-1 (Annex-C.5) UL 60947-1 (Annex-C.5)	Permanent
		Making and breaking capacities	40A to 4000A 1 to 999999 Counts & 220V to 462V	IS/IEC 60947-1 (Cl. 9.3.3.5) UL 60947-1 (Cl. 9.3.3.5)	Permanent
<b>3</b>	Low Voltage Switchgear & Control Gear (Switch Disconnector and Switch Disconnector fuse)	Temperature Rise Test	1 to 3000A, 1 deg to 200 deg C	IS/IEC 60947-3 (Cl. 8.2.2), (Cl. 9.3.4.2)	Permanent
		Temperature rise verification	1 to 3000A, 1 deg to 200 deg C	IS/IEC 60947-3 (Cl.9.3.4.7), (Cl.9.3.5.5), (Cl.9.3.6.6), (Cl.9.3.7.6) & (Cl.9.3.8.5)	Permanent
		Dielectric properties	Impulse Test 0.5-15 kV & High Voltage Test 0.5-5kV	IS/IEC 60947-3 (Cl. 8.2.3), (Cl.9.3.4.3)	Permanent
		Dielectric verification	0.5 kV to 5 kV	IS/IEC 60947-3 (Cl. 9.3.4.5), (Cl.9.3.5.3), (Cl.9.3.6.4), (Cl. 9.3.7.4), (Cl.9.3.8.3)	Permanent
		Leakage current	0.01mA to 6 mA	IS/IEC 60947-3 (Cl.9.3.4.6), (Cl.9.3.5.4), (Cl.9.3.6.5), (Cl. 9.3.7.5), (Cl.9.3.8.4)	Permanent



Certificate



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**Reg Office:** 307/20, 2nd Lane No. 5A, Ranjit Nagar, New Delhi 110008, India



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Page No. 4 of 8

**Address** : Plot No. C-58, Phase 2 Main Rd, C Block, Sector 80, Noida-201305,  
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		Making and breaking capacities	40A to 4000A & 1 to 999999 Counts 220V to 462V	IS/IEC 60947-3 (Cl.8.2.4.1), (Cl.9.3.4.4)	Permanent
		Operational Performance	40A to 4000A & 1 to 999999 Counts	IS/IEC 60947- 3: (Cl.8.2.4.2) & (Cl.9.3.5.2)	Permanent
		Strength of actuator mechanism	1 to 500 N	IS/IEC 60947- 3 (Cl. 9.3.4.8)	Permanent
		Overload test	1-3000 Amp 1 to 20000 sec	IS/IEC 60947- 3 (Cl. 9.3.8.2)	Permanent
		Verification of limitation of rotation / actuation force	1 to 700 N	IS/IEC 60947- 3 (Cl. 9.3.3.1)	Permanent
4	Low Voltage Switchgear & Control Gear (Contactors and Motor Starters)	Temperature rise	1 deg to 200 deg C (10A to 3000A)	IS/IEC 60947- 4 - 1:2018 (Cl. 9.3.3.3) UL 60947- 4 -1 (Cl. 9.3.3.3)	Permanent
		Temperature rise	1 deg to 200 deg C (10A to 3000A)	IS/IEC 60947- 4 - 1:2023 (Cl. 9.3.3.3)	Permanent
		Dielectric properties	Impulse Test 0.5 to 15 kV & High Voltage Test 0.5 to 5kV	IS/IEC 60947- 4 - 1:2018 (Cl. 9.3.3.4) UL 60947- 4 -1 (Cl. 9.3.3.4)	Permanent
		Dielectric properties	Impulse Test 0.5 to 15 kV & High Voltage Test 0.5 to 5kV	IS/IEC 60947- 4 - 1:2023 (Cl. 9.3.3.4)	Permanent



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scope



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**CAB Name** : C&S Electric Ltd (R & D Test lab)

Page No. 5 of 8

**Address** : Plot No. C-58, Phase 2 Main Rd, C Block, Sector 80, Noida-201305,  
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		Performance under no load, normal load and overload conditions (operation)	1-600 V (ac & dc) -20 degree to 150 degree C	IS/IEC 60947-4-1:2018 (Cl. 9.3.3.1) UL 60947-4-1 (Cl. 9.3.3.1)	Permanent
		Performance under no load, normal load and overload conditions (operation)	1-600 V (ac & dc) -20 degree to 150 degree C	IS/IEC 60947-4-1:2023 (Cl. 9.3.3.1)	Permanent
		Performance under no load, normal load and overload conditions (operating limits)	1-600 V (ac & dc) & 0-2Amp	IS/IEC 60947-4-1:2018 (Cl. 9.3.3.2) UL 60947-4-1 (Cl. 9.3.3.2)	Permanent
		Performance under no load, normal load and overload conditions (operating limits)	1-600 V (ac & dc) & 0.01-2Amp	IS/IEC 60947-4-1:2023 (Cl. 9.3.3.2)	Permanent
		Overload current with stand Capability of contactors	1 to 3000 Amp & 2 sec to 20000 sec	IS/IEC 60947-4-1:2018 (Cl. 9.3.5) UL 60947-4-1 (Cl. 9.3.5)	Permanent
		Overload current with stand Capability of contactors & IMPSDs	1 to 3000 Amp & 2 sec to 20000 sec	IS/IEC 60947-4-1:2023 (Cl. 9.3.5)	Permanent



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scope



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As per ISO/IEC 17025

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Page No. **6** of **8**

**Address** : Plot No. C-58, Phase 2 Main Rd, C Block, Sector 80, Noida-201305,  
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		Making and breaking capacities	40A to 4000A 1 to 999999 Counts & 220V to 462V	IS/IEC 60947-4-1:2018 (Cl. 9.3.3.5) UL 60947-4-1 (Cl. 9.3.3.5)	Permanent
		Making and breaking capacities	40A to 4000A & 1 to 999999 Counts 220V to 462V	IS/IEC 60947-4-1:2023 (Cl. 9.3.3.5)	Permanent
		Operational Performance Capability	40A to 4000A & 1 to 999999 Counts	IS/IEC 60947-4-1:2018 (Cl. 9.3.3.6) UL 60947-4-1 (Cl. 9.3.3.6)	Permanent
		Operational Performance Capability	40A to 4000A & 1 to 999999 Counts	IS/IEC 60947-4-1:2023 (Cl. 9.3.3.6)	Permanent
		Electrical Durability	40A to 4000A & 1 to 999999 Counts	IS/IEC 60947-4-1:2018 (Annex. B.3) UL 60947-4-1 (Annex B.3)	Permanent
		Electrical Durability	40A to 4000A & 1 to 999999 Counts	IS/IEC 60947-4-1:2023 (Annex. B.3)	Permanent
		Test Sequence-5 Verification of mechanical properties of terminals	0.1 to 22.7 kg,	IEC 60947-1, (Cl.9.2.5), (Cl.9.2.2), (Cl.9.2.3) UL 60947-4-1 (Cl. 9.3.1.e)	Permanent



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Page No. 7 of 8

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		Test Sequence-5 Verification of degrees of protection of enclosed contactors and starters	Ingress Protection (IP20)	Annex C of IEC 60947-1 UL 60947-4-1 (Cl.9.3.1.e)	Permanent
<b>5</b>	Low Voltage Switchgear & Control Gear (Control Circuit Devices and switching elements)	Temperature rise	1 to 3000A, 1 deg to 200 deg C	IS/IEC 60947-5-1 (Cl. 8.3.3.3) UL 60947-5-1 (Cl. 8.3.3.3)	Permanent
		Dielectric properties	Impulse Test 0.5 to 15 kV High Voltage Test 0.5 to 5kV	IS/IEC 60947-5-1 (Cl. 8.3.3.4) UL 60947-5-1 (Cl.8.3.3.4)	Permanent
		Dielectric verification	0.5 to 5kV	IS/IEC 60947-5-1 (Cl. 8.3.3.5.5 b) UL 60947-5-1 (Cl.8.3.3.5.5 b)	Permanent
		Operating limits of contactor relays	0 to 600 V (ac & dc), -20 deg C to 150 deg C & 0 to 2A	IS/IEC 60947-5-1 (Cl. 8.3.3.2) UL 60947-5-1 (Cl. 8.3.3.2)	Permanent
		Making and breaking capacities of switching elements under normal conditions	0.1 to100 A (ac) @ 600V 0.01 to 8A (dc) @ 600V	IS/IEC 60947-5-1 (Cl. 8.3.3.5.3) UL 60947-5-1 (Cl.8.3.3.5.3)	Permanent
		Making and breaking capacities of switching elements under abnormal conditions	0.1 -100 A (ac) @ 600V 0.01-8A (dc) @ 600V	IS/IEC 60947-5-1 (Cl. 8.3.3.5.4) UL 60947-5-1 (Cl.8.3.3.5.4)	Permanent



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		Electrical Durability	40A to 4000A & 1 to 999999 Counts	IS/IEC 60947-5-1 (Annex-C.3) UL 60947-5-1 (Annex-C.3)	Permanent
		Mechanical Properties of terminals	0.1 to 22.7 kg,	IS/IEC 60947-5-1 (Cl. 8.2.4) UL 60947-5-1 (Cl. 8.2.4)	Permanent
		Measurement of clearance and creepage distances	0.1 to 200mm	IS/IEC 60947-5-1 (Cl. 8.3.1 Test Sequence 6-Test no.1) UL 60947-5-1 (Cl.8.3.1 Test Sequence 6-Test no.1)	Permanent
		Degree of protection of enclosed control circuit devices.	Ingress Protection (IP20)	IS/IEC 60947-5-1 (Cl. 8.3.1 Test Sequence 5- Test no.1) UL 60947-5-1(Cl.8.3.1 Test Sequence 5- Test no.1)	Permanent



Certificate



scope