Schedule of Accreditation

issued by

United Kingdom Accreditation Service

2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK



DETAIL OF ACCREDITATION

| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|---|---|---|
| ELECTRICAL PRODUCT TESTS | | |
| Electrical accessories – Circuit- breakers for overcurrent protection of household and similar installations | Safety Tests Up to 500 V 50 Hz Tripping Characteristics B, C and D for a normal current rating up to 125A Temperature rise up to 125 A Dielectric tests up to 5 kV Impulse tests up to 5 kV Impulse tests up to 14 kV Short-circuit tests Single phase 20 kA 240 V Three phase 16 kA 415 V | BS EN 60898-1:2019 IEC 60898-1:2015 Edition 2.1 |
| Swithches for household and similar fixed installations | Safety Tests Conditional short-circuit tests Single phase 20 kA 240 V Three phase 16 kA 415 V | BS EN 60669-2-4: 2005 Clause 18 only |
| Low-voltage switchgear and controlgear - Part 1: General rules | Safety Tests Up to 500 V 50 Hz Glow wire up to 960 °C Conductor csa up to 240 mm ² Temperature rise up to 3150 A Dielectric tests up to 5 kV Impulse tests up to 12 kV Conditional short-circuit tests Single phase 20 kA 240 V Three phase 16 kA 415 V Short-time withstand current Single phase 20 kA for 0.15 s; 5 kA for 0.5 s Three phase 16 kA for 0.15 s; 3 kA for 0.5 s Making and breaking capacity 250 A 240/415 V | BS EN 60947-1:2007 + A2:2014 IEC 60947-1:2014 Edition 5.2 IEC 60947-1:2007 + Am1: 2011 Edition 5.2 Excluding clauses 8.2.5.2.2, 8.2.5.2.3, 8.2.6, 8.2.7 & 8.4 EMC |



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United Kingdom Accreditation Service 2 Pine Trees, Chertsey Lane, Staines-upon-Thames, TW18 3HR, UK

Electrium Testing Laboratory (Wythenshawe) Part of Electrium Sales Limited, A Siemens Company

Accredited to ISO/IEC 17025:2017 Issue No: 021 Issue date: 09 September 2022

| Material (Dec.), states to state | Type of test/Properties | Standard specifications/ |
|--|---|---|
| Materials/Products tested | measured/Range of measurement | Equipment/Techniques used |
| | | |
| ELECTRICAL PRODUCT TESTS (cont'd) | | |
| Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units | Safety Tests Up to 500 V 50 Hz Temperature rise up to 800 A Dielectric tests up to 5 kV Impulse tests up to 12 kV Conditional short-circuit tests | BS EN 60947-3 2009+ A1: 2012 IEC 60947-3 2008+ Am1: 2012 |
| | Three phase 16 kA 415 V Short-time withstand current Single phase 20 kA for 0.15 s; 5 kA for 0.5 s Three phase 16 kA for 0.15 s; 3 kA for 0.5 s | |
| | AC20A, AC20B AC21A, AC21B I _e up to 250 A AC22A, AC22B I _e up to 250 A AC23A, AC23B I _e up to 250 A | |
| Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's) - | Safety Tests Up to 500 V 50 Hz Glow wire up to 960 °C Ball pressure up to 125 °C Temperature rise up to 125 A Dielectric tests up to 5 kV Impulse tests up to 12 kV Impulse tests up to 3 kA Conditional short-circuit tests Single phase 20 kA 240 V Three phase 16 kA 415 V | BS EN 61008-1:2012 + A12 :2017 IEC 61008-1:2013 Edition 3.2 Excluding clauses 9.21, 9.23 & 9.24 EMC |
| | | BS EN 61008-2-1: 1995 Incorporating amendment 1 IEC 61008-2-1: 1990, Edition 1.0 Excluding clauses 9.21 and 9.24 |
| | | BS IEC 61008-2-2: 1995 IEC 61008-2-2: 1990, Edition 1.0 Excluding clauses 9.21, 9.23 & 9.24 |
| Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) - | Safety Tests Up to 500 V 50 Hz Glow wire up to 960 °C Ball pressure up to 125 °C Temperature rise up to 125 A Dielectric tests up to 5 kV Impulse tests up to 12 kV Impulse tests up to 3 kA Conditional short-circuit tests Single phase 20 kA 240 V | BS EN 61009-1: 2012 + A12:2016 IEC 61009-1: 2013 Edition 3.2 Excluding clauses 9.21, 9.23 & 9.24 EMC |
| | | BS EN 61009-2-1: 1995 Incorporating amendment A1 IEC 61009-2-1: 1991 Edition 1.0 Excluding clauses 9.21 and 9.24 |
| | Three phase 16 kA 415 V | BS IEC 61009-2-2: 1991 |



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|--|---|--|
| | | IEC 61009-2-2: 1991 Edition 1.0 Excluding clauses 9.21, 9.23 & 9.24 |
| ELECTRICAL PRODUCT TESTS (cont'd) | | |
| Low-voltage switchgear and controlgear assemblies - Part 1: General rules | Safety Tests Up to 500 V 50 Hz Temperature rise up to 3150 A Dielectric tests up to 5 kV Impulse tests up to 12 kV Conditional short-circuit tests Single phase 20 kA 240 V Three phase 16 kA 415 V Short-time withstand current Single phase 20 kA for 0.15 s; 5 kA for 0.5 s Three phase 16 kA for 0.15 s; 3 kA for 0.5 s Up to IP40ABCD | BS EN IEC 61439-1 : 2021 IEC61439-1 : 2020 Ed 3.0 Excluding clauses 9.4, 10.2.2, 10.2.4, 10.2.5 and 10.12 |
| Low-voltage switchgear and controlgear assemblies - Part 2: Power switchgear and control assemblies | Safety Tests Up to 500 V 50 Hz Temperature rise up to 3150 A Dielectric tests up to 5 kV Impulse tests up to 12 kV Conditional short-circuit tests Single phase 20 kA 240 V Three phase 16 kA 415 V Short-time withstand current Single phase 20 kA for 0.15 s; 5 kA for 0.5 s Three phase 16 kA for 0.15 s; 3 kA for 0.5 s Up to IP40ABCD | BS EN IEC 61439-2 : 2021 IEC61439-2 : 2020 Ed 3.0 Excluding clauses 9.4, 10.2.2, 10.2.4, 10.2.5 and 10.12 |



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| Materials/Products tested | Type of test/Properties measured/Range of measurement | Standard specifications/ Equipment/Techniques used |
|--|--|--|
| Low-voltage switchgear and controlgear assemblies - Part 3: Distribution boards intended to be operated by ordinary persons | Safety Tests Up to 500 V 50 Hz Temperature rise up to 250 A Dielectric tests up to 5 kV Impulse tests up to 12 kV Conditional short-circuit tests Single phase 20 kA 240 V Three phase 16 kA 415 V Short-time withstand current Single phase 20 kA for 0.15 s; 5 kA for 0.5 s Three phase 16 kA for 0.15 s; 3 kA for 0.5 s Up to IP40ABCD | BS EN 61439-3: 2012 including annex ZB and 10.2.2 alternative test IEC 61439-3: 2012 Edition 1.0 Excluding clauses 9.4, 10.2.4, 10.2.5 and 10.12 |
| ELECTRICAL PRODUCT TESTS (cont'd) | | |
| Empty enclosures for low-voltage switchgear and control gear assemblies — General requirements - | Safety Tests Glow wire up to 960 °C Ball pressure up to 125 °C Dielectric tests up to 5 kV Impulse tests up to 12 kV Impact 0.7 J Up to IP40ABCD | BS EN 62208: 2011 IEC 62208: Edition 2.0 Excluding 9.3, 9.4, 9.5, 9.11 and 9.12 |
| Arc fault detection devices | Safety Tests Up to 500 V 50 Hz Glow wire up to 960 °C Ball pressure up to 125 °C Temperature-rise up to 125 A Dielectric tests up to 5 kV Impulse tests up to 14 kV Impulse tests up to 3 kA Conditional short-circuit tests Single phase 20 kA 240 V Three phase 16 kA 415 V Serial arc fault tests up to 63 A | BS EN 62606:2013 + A1:2017 IEC 62606:2017 Edition 1.1 Excluding clauses 9.9.3, 9.9.4, 9.9.5 and 9.21 |
| ENVIRONMENTAL TESTING | | |
| Impact testing - | Spring Hammer (0.7J) Pendulum hammer (0.7 J) | BS EN 60068-2-75: 2014 IEC 60068-2-75: 2014 Part 2. Tests Test Eh. Hammer tests For the following clauses: 4. Eha Pendulum hammer 5. Ehb Spring hammer |



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|--|--|--|
| | IK05 (0.7 J) | IEC 62262: 2002 |
| ENVIRONMENTAL TESTING (cont'd) | | |
| Fire hazard testing – | Up to 960 °C | |
| Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure | | BS EN 60695-2-10: 2001 IEC 60695-2-10: 2000 BS EN 60695-2-10:2013 IEC 60695-2-10:2013 Ed 2.0 |
| Fire hazard testing – | Up to 960 °C | |
| Part 2-11: Glowing/hot-wire based test methods – glow-wire flammability test method for end- products | | BS EN 60695-2-11: 2001 IEC 60695-2-11: 2000 BS EN 60695-2-11:2014 IEC 60695-2-11:2014 Edition 2.0 |
| Fire hazard testing – | Up to 125 °C | |
| Part 10-2: Abnormal heat — Ball pressure test | | BS EN 60695-10-2:2003 IEC 60695-10-2:2003 BS EN 60695-10-2:2014 IEC 60695-10-2:2014 Ed 3.0 |
| Degree of protection provided by enclosures (IK code) | IK05 (0.7 J) | BS EN 62262:2002 IEC 62262:2002 |
| END | | |