


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>2003</b></p> <p>Accredited to <b>ISO/IEC 17025:2017</b></p>	<p><b>Electrium Testing Laboratory (Wythenshawe)</b> <b>Part of Electrium Sales Limited, A Siemens Company</b></p> <p><b>Issue No: 019    Issue date: 02 October 2020</b></p>	
	<p><b>Sharston Road</b> <b>Wythenshawe</b> <b>Manchester</b> <b>M22 4RA</b></p>	<p><b>Contact: Mr G. E. Brown</b> <b>Tel: +44 (0)161 998 5454</b> <b>Fax: +44 (0)161 945 1587</b> <b>E-Mail: ged.brown@electrium.co.uk</b> <b>Website: www.electrium.co.uk</b></p>
<p><b>Testing performed at the above address only</b></p>		

### DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
<p><b>ELECTRICAL PRODUCT TESTS</b></p> <p>Electrical accessories – Circuit-breakers for overcurrent protection of household and similar installations</p>	<p>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 14 kV Short-circuit tests Single phase 20 kA 240 V Three phase 16 kA 415 V</p>	<p>BS EN 60898-1:2019 IEC 60898-1:2015 Edition 2.1</p>
<p>Low-voltage switchgear and controlgear -</p> <p>Part 1: General rules</p>	<p>Safety Tests Up to 500 V 50 Hz Glow wire up to 960 °C Conductor csa up to 240 mm<sup>2</sup> 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</p>	<p>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 &amp; 8.4 EMC</p>



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ELECTRICAL PRODUCT TESTS (cont'd)		
<p>Low-voltage switchgear and controlgear -</p> <p>Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units</p>	<p>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 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</p> <p>AC20A, AC20B AC21A, AC21B I<sub>e</sub> up to 250 A AC22A, AC22B I<sub>e</sub> up to 250 A AC23A, AC23B I<sub>e</sub> up to 250 A</p>	<p>BS EN 60947-3 2009+ A1: 2012 IEC 60947-3 2008+ Am1: 2012</p>
<p>Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's) -</p>	<p>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</p>	<p>BS EN 61008-1:2012 + A12 :2017 IEC 61008-1:2013 Edition 3.2 Excluding clauses 9.21, 9.23 &amp; 9.24 EMC</p> <p>BS EN 61008-2-1: 1995 Incorporating amendment 1 IEC 61008-2-1: 1990, Edition 1.0 Excluding clauses 9.21 and 9.24</p> <p>BS IEC 61008-2-2: 1995 IEC 61008-2-2: 1990, Edition 1.0 Excluding clauses 9.21, 9.23 &amp; 9.24</p>
<p>Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) -</p>	<p>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</p>	<p>BS EN 61009-1: 2012 + A12:2016 IEC 61009-1: 2013 Edition 3.2 Excluding clauses 9.21, 9.23 &amp; 9.24 EMC</p> <p>BS EN 61009-2-1: 1995 Incorporating amendment A1 IEC 61009-2-1: 1991 Edition 1.0 Excluding clauses 9.21 and 9.24</p> <p>BS IEC 61009-2-2: 1991 IEC 61009-2-2: 1991 Edition 1.0 Excluding clauses 9.21, 9.23 &amp; 9.24</p>



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ELECTRICAL PRODUCT TESTS (cont'd)		
<p>Low-voltage switchgear and controlgear assemblies -</p> <p>Part 1: General rules</p>	<p>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</p>	<p>BS EN 61439-1: 2011 IEC 61439-1: 2011 Edition 2.0 Excluding clauses 9.4, 10.2.2, 10.2.4, 10.2.5 and 10.12</p>
<p>Low-voltage switchgear and controlgear assemblies -</p> <p>Part 2: Power switchgear and control assemblies</p>	<p>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</p>	<p>BS EN 61439-2: 2011 IEC 61439-2: 2011 Edition 2.0 Excluding clauses 9.4, 10.2.2, 10.2.4, 10.2.5 and 10.12</p>
<p>Low-voltage switchgear and controlgear assemblies -</p> <p>Part 3: Distribution boards intended to be operated by ordinary persons</p>	<p>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</p>	<p>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</p>



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<p><b>ELECTRICAL PRODUCT TESTS</b> (cont'd)</p> <p>Empty enclosures for low-voltage switchgear and control gear assemblies — General requirements -</p> <p>Arc fault detection devices</p>	<p>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</p> <p>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</p>	<p>BS EN 62208: 2011 IEC 62208: Edition 2.0 Excluding 9.3, 9.4, 9.5, 9.11 and 9.12</p> <p>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</p>
<p><b>ENVIRONMENTAL TESTING</b></p> <p>Impact testing -</p>	<p>Spring Hammer (0.7J) Pendulum hammer (0.7 J)</p> <p>IK05 (0.7 J)</p>	<p>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</p> <p>IEC 62262: 2002</p>



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<p>ENVIRONMENTAL TESTING (cont'd)</p> <p>Fire hazard testing –</p> <p>Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure</p> <p>Fire hazard testing –</p> <p>Part 2-11: Glowing/hot-wire based test methods – glow-wire flammability test method for end-products</p> <p>Fire hazard testing –</p> <p>Part 10-2: Abnormal heat — Ball pressure test</p> <p>Degree of protection provided by enclosures (IK code)</p>	<p>Up to 960 °C</p> <p>Up to 960 °C</p> <p>Up to 125 °C</p> <p>IK05 (0.7 J)</p>	<p>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</p> <p>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</p> <p>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</p> <p>BS EN 62262:2002 IEC 62262:2002</p>
<p align="center">END</p>		