


Schedule of Accreditation

issued by

United Kingdom Accreditation Service

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

 4702 Accredited to ISO/IEC 17025:2017	kA Testing Facility Ltd	
	Issue No: 007 Issue date: 12 June 2020	
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Testing performed at the above address only		

DETAIL OF ACCREDITATION

Materials/Products tested	Type of test/Properties measured/Range of measurement	Standard specifications/ Equipment/Techniques used
Flexible Scope		
<p>The laboratory is accredited for testing activities in accordance with the standards included in the schedule listed below. This may also include tests on the same or similar product types against standards, or customer-specified methods, that are not specifically listed in this Schedule, providing that:</p>		
<p>(1) The method or standard does not introduce new principles of measurement.</p>		
<p>(2) The method or standard does not require measurements to be made outside the parametric boundaries defined within the standard specifications already accredited and detailed within this Schedule of Accreditation.</p>		
<p>(3)</p>		
<p>Information about flexible scopes of accreditation is available in UKAS document LAB39:Aug 2004, EA 2/15 M:2008 and ILAC G18:04/2010</p>		
<p>Area covered by the flexible scope:</p>		
<p>Characterisation of: Low-voltage switchgear and controlgear assemblies, Power switchgear and controlgear assemblies, Distribution boards intended to be operated by ordinary persons, Alternating-current circuit breakers, Alternating current disconnectors and earthing switches, Switches for rated voltages above 1 kV up to and including 52 kV, AC metal-enclosed switchgear and controlgear for rated voltage above 1 kV and up to and including 52 kV, AC solid-insulation enclosed switchgear and controlgear for rated voltages above 1kV and up to 52kV, Empty enclosures.</p>		
<p>Tensile and impact testing of steel and plastic materials.</p>		
<p>Corrosion testing of steel product</p>		
<p>Environmental testing (including temperature, humidity and UV) of steel and plastic products</p>		
<p>Paint adhesion.</p>		
<p>Fire hazard of materials.</p>		



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<p>Low-voltage switchgear and controlgear assemblies.</p> <p>- General rules</p> <p>- Power switchgear and controlgear assemblies</p>	<p><u>Electrical Products Tests</u></p> <p>Clause 10.2.2 Resistance to Corrosion Salt Spray Test Severity A & B</p> <p>Clause 10.2.3.1</p> <p>Clause 10.2.3.2 Resistance of insulating materials to abnormal heat and fire due to internal electric effects</p>	<p>IEC 61439-1:2011 Edition 2.0 BS EN 61439-1:2011</p> <p>IEC 61439-2:2011 Edition 2.0 BS EN 61439-2:2011</p>
<p>- Distribution boards intended to be operated by ordinary persons (DBO)</p>	<p>Clause 10.2.5 Lifting - 3200kg Maximum</p>	<p>IEC 61439-3:2012 Edition 1.0 BS EN 61439-3:2012</p>
<p>Particular requirements for assemblies for construction sites (ACS)</p>	<p>Clause 10.2.6 Mechanical Impact IK07, IK08, IK09, IK10 only</p>	<p>IEC 61439-4:2012 Edition 1.0 BS EN 61439-4 2013</p>
<p>- Assemblies for power distribution in public networks</p>	<p>Clause 10.2.7 Marking</p>	<p>IEC 61439-5:2014 Edition 1.0 BS EN 61439-5 2015</p>
<p>- Busbar trunking systems (busways)</p>	<p>IEC/BS EN 61439-5</p> <p>Clause 10.2.101.2 Clause 10.2.101.3 Clause 10.2.101.4 Clause 10.2.101.6 Clause 10.2.101.8</p>	<p>IEC 61439-6:2012 Edition 1.0 BS EN 61439-6: 2012</p>
<p>Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations</p>	<p>IEC TS 61439-7</p> <p>Clause 10.2.102.1 Clause 10.2.102.2 Clause 10.2.102.3 Clause 10.2.102.4 Clause 10.2.102.5 Clause 10.2.102.6</p> <p>Clause 10.3 Degree of protection IP2X, IP3X, IP 4X, IPX3 and IP X4 only</p> <p>Clause 10.4 Clearances and creepage distances</p>	<p>IEC 61439-7:2018 BS EN 61439-7:2020</p>



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Low-voltage switchgear and controlgear assemblies. (Cont'd)	<p><u>Electrical Products Tests (cont'd)</u></p> <p>Clause 10.5.2 Effectiveness of the protective circuit</p> <p>Clause 10.9 Dielectric properties</p> <p>Sub clause 10.9.2 Power-frequency withstand 0 to 5000 V 100 mA</p> <p>Sub clause 10.9.3 Impulse withstand voltage 0 to 32 kV Lightning Impulse</p> <p>Clause 10.10.2 Verification of temperature rise by testing with current. 7000 A 50Hz 60Hz 10 to 180°C</p> <p>Clause 10.13 Mechanical Operation</p> <p>Clause 10.2.101 Mechanical loading. Crushing 1000Kg</p> <p>Clause 10.2.102 Thermal cycling test</p>	Standards as shown on page 2 (Cont'd)
High-voltage test techniques. General definitions and test requirements	<p>Withstand voltage tests Clause 6.3.1 0 to 130kV ac only ac voltage)</p> <p>Lightning impulse voltage tests Clause 7 0 to 300 kV</p>	IEC 60060-1:2010 Edition 3 BS EN 60060-1:2010
High-voltage test techniques. Partial discharge measurements	<p>Partial discharge Test 0 to 130 kV</p>	IEC 60270:2000 +AMD 1:2015 Edition 3.1 BS EN 60270:2001+A1:2016



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	<u>Electrical Products Tests (cont'd)</u>	
Glow-wire apparatus and common test procedure	Glow Wire Test	IEC 60695-2-10:2012 BS EN 60695-2-10:2013
Glow-wire flammability test method for end-products (GWEPT)		IEC 60695-2-11:2014 BS EN 60695-2-11:2014
Ball Pressure Test on Plastics	Ball Pressure	BS EN 60695-10-2:2014 IEC 60695-10-2:2014
Needle Flame Test on Materials	Needle Flame Test	IEC/BS EN 60695-11-5
	1kW flame	BS EN 60695-11-2:2017 IEC 60695-11-2:2017
	50W flame	BS EN 60695-11-10:2013 IEC 60695-11-10:2013
	500W flame	BS EN 60695-11-20:1999 IEC 60695-11-20:1999
Empty enclosures for low-voltage switchgear and controlgear assemblies. General requirements	Marking	IEC 62208:2011
	Static loads	BS EN 62208:2011
	Lifting	
	Axial loads of metal inserts	Clause 9.3
	Mechanical impacts (IK code)	Clause 9.4
	Degree of protection (IP code)	Clause 9.5
	Thermal stability	Clause 9.6
	Resistance to abnormal heat	Clause 9.7
	Dielectric strength	Clause 9.8 IP2X-4X
	Continuity of the protective circuit	Clause 9.8 IPX3-X4
	Resistance to UV radiation	Clause 9.9.1
	Corrosion	Clause 9.9.3
	Thermal power dissipation	Clause 9.10 Clause 9.11 Clause 9.12 Clause 9.13 Clause 9.14
	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	Mechanical Impact IK07, IK08, IK09, IK10



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Enclosures for Electrical Equipment	<u>Electrical Products Tests (cont'd)</u>	BSEN 60529:1992 + A2: 2013 IEC 60529:2013 Edition 2.2
	<u>Ingress Protection Tests</u>	
High-voltage switchgear and controlgear. - Common specifications for alternating current switchgear and controlgear	IP2X Protected against solid objects greater than 12 mm diameter	IEC 62271-1:2017 Edition 2.0 BS EN 62271-1:2017
	IP3X Protected against solid objects greater than 2.5mm diameter	
- Alternating-current circuit-breakers	IP4X Protected against solid objects greater than 1.0mm diameter	IEC 62271-100:2008 + AMD 1:2012 + AMD 2:2017 (Edition 2.2) BS EN 62271-100:2009+A2:2017
	IPX3 Protected against spraying water	
- Alternating current disconnectors and earthing switches	IPX4 Protected against splashing water	IEC 62271-102:2013 Edition 1.2 (Withdrawn) BS EN 62271-102:2002+A2:2013 (Withdrawn)
	Dielectric tests Dry tests only Clause 6.2	
- Switches for rated voltages above 1 kV up to and including 52 kV	Power -frequency voltage tests Clause 6.2.6.1 0 to 130kV	IEC 62271-103:2011 Edition 1.0 BS EN 62271-103:2011
	Lightning impulse voltage tests Clause 6.2.6.2 0 to 300 kV	
- AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	Partial discharge Test Clause 6.2.9 0 to 130 kV	IEC 62271-200:2011 Edition 2.0 BS EN 62271-200:2012
	Measurements of the resistance of Circuits Clause 6.4 0 to 200mΩ 0 to 200 A	
AC solid-insulation enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	Temperature-rise tests Clause 6.5 7000 A 50Hz 60Hz 10 °C to 180 °C	IEC 62271-201:2014 Edition 2.0 BS EN 62271-201:2014
	Mechanical Impact (IK coding) Clause 6.7.2 IK07,IK08,IK09,IK10 only	



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ENVIRONMENTAL TESTING Steel Products Plastic Products	Environmental Tests	
	Salt Spray Corrosion	ISO 4628-3:2016 ISO 9227:2017 BS EN 60068-2-11:1999 IEC 60068-2-11:1981
	Resistance to temperature/humidity Conditioning of samples Thermal stability	
	-42 to +99°C 10 to +98% RH	
	Cold	BS EN 60068-2-1:2007 IEC 60068-2-1:2007
	Dry heat	BS EN 60068-2-2:2007 IEC 60068-2-2:2007
Paint Varnish	Damp heat, cyclic	BS EN 60068-2-30:2005 IEC 60068-2-30:2005
	Damp heat, steady state	BS EN 60068-2-78:2013 IEC 60068-2-78:2012
	Environmental/weathering UV	ISO 4892-2:2013 ISO 16474-2:2013
Steel Plastic	Tensile/flexural 10N to 50kN	Documented In-House Method TP36
Plastic	Impact	ISO 179-1:2010 (Charpy) ISO 180:2019 (IZOD)
Paint	Paint Adhesion	ISO 2409:2013
END		