


# Schedule of Accreditation

issued by

## United Kingdom Accreditation Service

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

 <p><b>UKAS TESTING</b> 4702</p> <p>Accredited to ISO/IEC 17025:2017</p>	<p><b>kA Testing Facility Ltd</b></p> <p>Issue No: 006      Issue date: 31 May 2019</p>	
	<p><b>Leone Works</b> John Street Nottingham NG7 7HL United Kingdom</p>	<p><b>Contact: Nick Halaburda</b> Tel: +44 (0)115 978 4652 Fax: +44 (0)115 970 2106 E-Mail: sales@ka-testing.com Website: www.ka-testing.com</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>Low-voltage switchgear and controlgear assemblies Power switchgear and controlgear assemblies. Distribution boards intended to be operated by ordinary persons. Busbar trunking systems.</p>	<p>Resistance of insulating materials to abnormal heat and fire due to internal electric effects (Glow wire testing)</p>	<p>IEC 61439-2 Edition 2.0 2011 BS EN 61439-2: 2011 IEC 61439-1 Edition 2.0 2011 BS EN 61439-1: 2011 IEC 61439-3 Edition 1.0 2012 BS EN 61439-3: 2012 IEC 61439-6 Edition 1.0 2012 BS EN 61439-6: 2012</p>
	<p>Lifting 3200kg</p>	<p>Clause 10.2.3.2 (IEC 60695-2-10 &amp; IEC 60695-2-11)</p>
	<p>Mechanical Impact IK07,IK08,IK09,IK10</p>	<p>Clause 10.2.5</p>
	<p>Marking</p>	<p>Clause 10.2.6 (IEC 62262:2002 BS EN 62262:2002) (IEC 62208:2011 BS EN 62208:2011)</p>
	<p>Degree of protection of assemblies IP2X Protected against solid objects greater than 12.5mm diameter. Adequate clearance from hazardous parts by a 12mm x 80mm jointed test finger.</p>	<p>Clause 10.2.7</p>
	<p>IP3X Protected against solid objects greater than 2.5mm diameter</p>	<p>Clause 10.3 (BSEN 60529:1992 + A2: 2013) (IEC 60529 Edition 2.2 2013)</p>



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Low-voltage switchgear and controlgear assemblies Power switchgear and controlgear assemblies. Distribution boards intended to be operated by ordinary persons. Busbar trunking systems. (cont'd)	IP4X Protected against solid objects greater than 1.0mm diameter	IEC 61439-2 Edition 2.0 2011 BS EN 61439-2: 2011 IEC 61439-1 Edition 2.0 2011 BS EN 61439-1: 2011 IEC 61439-3 Edition 1.0 2012 BS EN 61439-3: 2012 IEC 61439-6 Edition 1.0 2012 BS EN 61439-6: 2012  Clause 10.3 (BSEN 60529:1992 + A2: 2013) (IEC 60529 Edition 2.2 2013)
	IPX3 Protected against spraying water	
	IPX4 Protected against splashing water	
	Clearances and creepage distances Effectiveness of the protective circuit	Clause 10.4  Sub clause 10.5.2
	Dielectric properties Power-frequency withstand 0 to 5000 V 100 mA Impulse withstand voltage 0 to 32 kV Lightning Impulse	Clause 10.9 Sub clause 10.9.2 Sub clause 10.9.3
	Verification of temperature rise by testing with current. 7000 A 50Hz 60Hz 10 to 180°C	Clause 10.10.2
	Mechanical Operation	Clause 10.13
	Mechanical loading. Crushing 1000Kg.	Clause 10.2.101 IEC 61439-6 Edition 1.0 2012 BS EN 61439-6: 2012
	Thermal cycling test	Clause 10.2.102 IEC 61439-6 Edition 1.0 2012 BS EN 61439-6: 2012



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High-voltage switchgear and controlgear 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 voltages 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.		IEC 62271-1: Edition 2.0 2017 IEC 62271-100 Edition 2.2:2008+AMD1:2012+AMD2:2017 IEC 62271-102 Edition 1.2 2013 IEC 62271-103 Edition 1.0 2011 IEC 62271-200 Edition 2.0 2011 IEC 62271-201 Edition 2.0 2014 BS EN 62271-1:2017 BS EN 62271-100:2009+A1:2012 BS EN 62271-102:2002+A2:2013 BS EN 62271-103:2011 BS EN 62271-200:2012 BS EN 62271-201:2014
	Mechanical Impact (IK coding) IK07,IK08,IK09,IK10	Clause 6.7.2
	Dielectric tests Dry tests only	Clause 6.2
	Power -frequency voltage tests 0 to 130kV	Clause 6.2.6.1 (IEC 60060-1 Edition 3 2010-09 BS EN 60060-1:2010 ac voltage)
	Lightning impulse voltage tests 0 to 300 kV	Clause 6.2.6.2 (IEC 60060-1 Edition 3 2010-09 BS EN 60060-1:2010 lightning impulse)
	Partial discharge Test 0 to 130 kV	Clause 6.2.9 (IEC 60270 edition 3.1 2015-11 BS EN 60270:2001)
	Measurements of the resistance of Circuits 0 to 200mΩ 0 to 200 A	Clause 6.4
Temperature-rise tests 7000 A 50Hz 60Hz 10 °C to 180 °C	Clause 6.5	



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Materials	Resistance to abnormal heat and fire - Glow wire test	IEC 60695-2-10 Edition 1.0 2000 IEC 60695-2-10 Edition 2.0 2013 IEC 60695-2-11 Edition 1.0 2000 IEC 60695-2-11 Edition 2.0 2014 BS EN 60695-2-10:2013 BS EN 60695-2-11:2014
Mechanical Impact Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) Empty enclosures for low-voltage switchgear and controlgear assemblies.	Mechanical Impact IK07, IK08, IK09, IK10	(IEC 62262:2002 BS EN 62262:2002)  (IEC 62208:2011 BS EN 62208:2011)
END		