



STS Directory

Accreditation number: STS 0585

International standard: ISO/IEC 17025:2005
Swiss standard: SN EN ISO/IEC 17025:2005

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Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 06.03.2018

Testing laboratory for electrotechnical components in railway applications

Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Electrical components for railway rolling stock or DC switchgear and components for railway fixed installations	Temperature-rise tests Verification of temperature rise Test current, temperatures and voltage drops measurements. Direct current from 0 to 10 kA	IEC / EN 60077-1 IEC / EN 60077-2 IEC / EN 60077-3 IEC 61992-1 / EN 50123-1 IEC 61992-2 / EN 50123-2 IEC 61992-3 / EN 50123-3 IEC 61992-4 / EN 50123-4
Electrical components for railway rolling stock applications	Operating limits Ambient air temperature from -50°C to +85°C.	IEC / EN 60077-1 IEC / EN 60077-2 IEC / EN 60077-3 IEC / EN 60077-4
DC switchgear and components for railway fixed installations	Mechanical operation test Ambient temperature from -50°C to +85°C.	IEC 61992-1 / EN 50123-1 IEC 61992-2 / EN 50123-2 IEC 61992-3 / EN 50123-3 IEC 61992-4 / EN 50123-4



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Group of products or materials, field of activity	Principle of measurement ²⁾ (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods)
Electrical components	Climatic tests Ambient air temperature from -50°C to +85°C. Tests for heat-dissipating specimens with gradual change of temperature.	IEC / EN 60068-2-1 IEC / EN 60068-2-2
Electrical components	Dielectric tests Power-frequency withstand voltage test from 10 kV to 100 kV. Frequency: 50 Hz.	IEC / EN 60060-1
	Partial Discharge measurements Measuring range from 5 to 100 pC between 10 and 100 kV.	IEC / EN 60270
Electrical components for railway rolling stock or DC switchgear and components for railway fixed installations	Mechanical endurance Number of operating cycles. Resistance of the main circuit. Control supply voltage and current.	IEC / EN 60077-1 IEC / EN 60077-2 IEC / EN 60077-3 IEC / EN 60077-4 IEC 61992-1 / EN 50123-1 IEC 61992-2 / EN 50123-2 IEC 61992-3 / EN 50123-3 IEC 61992-4 / EN 50123-4
Voltage sensors for railway applications included energy measuring, traction control and protection.	Accuracy tests Ratio error and phase displacement measurement for alternating high voltage up to 50 kV at 16 2/3 Hz, 50 Hz and 60 Hz.	EN 50463-2 / IEC 62888-2

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