



STS Directory

Accreditation number: STS 0585

International standard: ISO/IEC 17025:2017
Swiss standard: SN EN ISO/IEC 17025:2018

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Initial accreditation: 06.03.2013
Current accreditation: 06.03.2023 to 05.03.2028
Scope of accreditation see: www.sas.admin.ch
(Accredited bodies)

Scope of accreditation as of 06.03.2023

Testing laboratory for electrotechnical components in railway applications

| Group of products or materials, field of activity | Principle of measurement ⁿ⁾ (characteristics, measuring ranges, type of test) | Test methods, remarks (national, international standards, in-house test methods) |
|---|--|--|
| Electrical components for railway applications | Temperature-rise tests Verification of temperature rise Test current, temperatures and voltage drops measurements Direct current up to 10 kA Alternating current up to 5 kA at 50 Hz | IEC 60077-1 IEC 60077-2 SN EN IEC 60077-3 SN EN IEC 60077-4 IEC 61992-1 IEC 61992-2 IEC 61992-3 IEC 61992-4 SN EN 50123-1 SN EN 50123-2 SN EN 50123-3 SN EN 50123-4 IEC 62505-1 IEC 62505-2 |



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|---|--|---|
| Electrical components for railway applications | <p>Temperature-rise tests Verification of temperature rise Test current, temperatures and voltage drops measurements Direct current up to 10 kA Alternating current up to 5 kA at 50 Hz</p> <p>Mechanical endurance Number of operating cycles Verification of switching operations Circuit resistance measurements</p> <p>Operating limits Mechanical operation test Low and high temperature tests Ambient air temperature from -50°C to +85°C</p> | <p>SN EN 50152-1 SN EN 50152-2</p> <p>IEC 62271-1 SN EN IEC 62271-100</p> <p>IEC 60077-1 IEC 60077-2 SN EN IEC 60077-3 SN EN IEC 60077-4</p> <p>IEC 61992-1 IEC 61992-2 IEC 61992-3 IEC 61992-4</p> <p>SN EN 50123-1 SN EN 50123-2 SN EN 50123-3 SN EN 50123-4</p> <p>IEC 62505-1 IEC 62505-2</p> <p>SN EN 50152-1 SN EN 50152-2</p> <p>IEC 60077-1 IEC 60077-2 SN EN IEC 60077-3 SN EN IEC 60077-4</p> <p>IEC 61992-1 IEC 61992-2 IEC 61992-3 IEC 61992-4</p> <p>SN EN 50123-1 SN EN 50123-2 SN EN 50123-3 SN EN 50123-4</p> <p>IEC 62505-1 IEC 62505-2</p> <p>SN EN 50152-1 SN EN 50152-2</p> |



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|--|---|---|
| Electrical components for railway applications | <p>Operating limits Mechanical operation test Low and high temperature tests Ambient air temperature from -50°C to +85°C</p> <p>Dielectric tests Power-frequency voltage test from 10 kV to 100 kV at 50 Hz</p> | <p>IEC 60068-2-1 IEC 60068-2-2</p> <p>IEC 60060-1</p> <p>IEC 60077-1 IEC 60077-2 SN EN IEC 60077-3 SN EN IEC 60077-4</p> <p>IEC 61992-1 IEC 61992-2 IEC 61992-3 IEC 61992-4</p> <p>SN EN 50123-1 SN EN 50123-2 SN EN 50123-3 SN EN 50123-4</p> <p>IEC 62505-1 IEC 62505-2</p> <p>SN EN 50152-1 SN EN 50152-2</p> <p>IEC 62497-1 SN EN 50124-1</p> <p>IEC 60270</p> <p>SN EN 50463-2 IEC 62888-2</p> |
| Voltage sensors for railway applications including energy measurement on board trains, traction control, protection, detection, etc. | <p>Accuracy tests Ratio error and phase displacement measurement for alternating high voltage up to 50 kV for AC traction systems at 16,7 Hz, 50 Hz and 60 Hz</p> <p>Accuracy tests Percentage error for DC high voltage up to 8 kV for DC traction systems</p> | <p>SN EN 50463-2 IEC 62888-2</p> <p>IEC 61869-1 IEC 61869-6 IEC 60044-7, standard partially replaced by IEC 61869-11</p> <p>SN EN 50463-2 IEC 62888-2</p> |



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|--|---|--|
| Current transformers for railway applications including energy measurement on board trains, traction control, protection, etc. | Accuracy tests Alternating high current measurement up to 756 A for AC traction systems at 16,7 Hz, 50 Hz and 60 Hz | SN EN 50463-2 IEC 62888-2 IEC 61869-1 IEC 61869-2 |

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