



**Accreditation number**                    **STS 015**  
Accreditation standard ISO/IEC    17025:2005

## STS Directory

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### Testing laboratory for electromagnetic compatibility (EMC), measurements according to ONIR, as well as safety testing, environmental and mechanical simulation for components

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[www.sas.ch](http://www.sas.ch) (accredited bodies)

#### Scope of accreditation in December 2010

Group of products or materials, field of activity	Principle of measurement <sup>2)</sup> (characteristics, measuring ranges, type of test)	Test methods, remarks (national, international standards, in-house test methods) <i>Restrictions and Footnotes see last page</i>
<b>Electrical Equipment and Installations</b>	<b>Electromagnetic compatibility (EMC)</b> <b><i>Emission, Basic Standards</i></b>  Disturbance voltages and currents frequency range: f = 9 kHz - 30 MHz	EN 55016-1-1 CISPR 16-1-1 EN 55016-1-2 CISPR 16-1-2 EN 55016-2-1 CISPR 16-2-1
Generic standards	<b><i>Test item in product standards</i></b>  Disturbance voltages and currents	Application of the above test item, required in EMC product standards, among others:  EN 61000-6-3 <sup>K)</sup> IEC 61000-6-3 <sup>K)</sup> EN 61000-6-4 <sup>K)</sup> IEC 61000-6-4 <sup>K)</sup>
Industrial, scientific and medical (ISM) radio-frequency equipment	Disturbance voltages and currents	EN 55011 <sup>K)</sup>

1) Type A: It is not allowed to change the scope  
2) Type B: Optimizing defined test methods (adapt to client's needs, adapted standards) is allowed  
3) Type C: Introduction of additional test methods for the different types of tests is allowed



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Information technology (IT) equipment	Disturbance voltages and currents	CISPR 11 <sup>K)</sup>  EN 55022 <sup>K)</sup> CISPR 22 <sup>K)</sup>
Adjustable speed electrical power drive systems	Disturbance voltages and currents	EN 61800-3 <sup>K)</sup> IEC 61800-3 <sup>K)</sup>
<b>Components testing</b>	<b>Electrical safety</b> Passive filter units for electromagnetic interference suppression	EN 60939-1 EN 60939-2 IEC 60939-1 IEC 60939-2
	Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	EN 60384-1 IEC 60384-1 EN 60384-14 IEC 60384-14
	Fixed inductors for electromagnetic interference suppression	EN 60938-1 EN 60938-2 IEC 60938-1 IEC 60938-2
<b>Electrical and electronic components</b>	<b>Environmental simulation, mechanical and climatic tests, solderability</b>	
	General and guidance	EN 60068-1 IEC 60068-1
	Cold	EN 60068-2-1 IEC 60068-2-1
	Dry heat	EN 60068-2-2 IEC 60068-2-2
	Change of temperature	EN 60068-2-14

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	Vibration (sinusoidal)	IEC 60068-2-14 EN 60068-2-6 IEC 60068-2-6
	Vibration, broad-band random (digital control)	EN 60068-2-64 IEC 60068-2-64
	Shock	EN 60068-2-27 IEC 60068-2-27
	Free fall	EN 60068-2-32 IEC 60068-2-32
	Damp heat, steady state	EN 60068-2-78 IEC 60068-2-78
	Solderability and resistance to soldering heat	EN 60068-2-20 IEC 60068-2-20
	Solderability by wetting balance method	EN 60068-2-54 IEC 60068-2-54
	Robustness of terminations	EN 60068-2-21 IEC 60068-2-21
	Damp heat, cyclic	EN 60068-2-30 IEC 60068-2-30
	Composite temperature/humidity cyclic test	EN 60068-2-38 IEC 60068-2-38
	Immersion in cleaning solvents	EN 60068-2-45 IEC 60068-2-45
	Vibration Vibration, High Frequency Shock (Specified Pulse) Vibration random	MIL-STD-202, Method 201A MIL-STD-202, Method 204D MIL-STD-202, Method 213B MIL-STD-202, Method 214A

### *Restrictions and comments*

K) The test method "Disturbance voltages and currents" is only one of several EMC test items in the EMC product standards.