

## STS-Directory

**Accreditation number: STS 0001**

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

Eurofins Electric & Electronic  
 Product Testing AG  
 Test center (HS)  
 Luppenstrasse3  
 8320 Fehraltorf

Leader: Tarik Mahammed  
 MS Manager: Richard McLean  
 Phone: +41 58 220 32 00  
 Email: [mail@cpt.eurofinseu.com](mailto:mail@cpt.eurofinseu.com)  
 Internet: [www.eurofins.ch](http://www.eurofins.ch)  
 First accredited: 11.08.1994  
 Current accreditation: 24.09.2021 to 23.09.2026  
 Directory see: [www.sas.admin.ch](http://www.sas.admin.ch)  
 (Accredited bodies)

Sites:  
 Ringstrasse 10  
 5432 Neuenhof (GS 1)  
 Phone +41 56 290 30 35

Wiesenstrasse 15  
 9400 Rorschach (GS 2)  
 Phone +41 58 220 32 50

Rte De Montena 75  
 1728 Rossens (GS 3)  
 Phone +41 58 220 33 33

### Scope of accreditation from 20.02.2026

#### Testing laboratory for safety tests, for electromagnetic compatibility (EMC) and environmental tests on electrotechnical products

Laboratory	Product or substance group, area of activity	Measurement principle <sup>2)</sup> (Characteristics, measuring ranges, test types)	Test procedures, comments (national, international standards, own procedures) <small>Restrictions and footnotes see last page</small>
GS1; GS2; GS3	<b>Electrical equipment and systems</b>	<b>Electromagnetic compatibility</b>  <b>Interference, basic standards:</b>  Part 3-2: Limit values for harmonic currents, $I \leq 16$ A  Part 3-12: Limits for harmonic currents caused by appliances and equipment with an input current $> 16$ A and $\leq 75$ A per conductor, intended for connection to public low-voltage distribution systems	EN 61000-3-2, IEC 61000-3-2  EN 61000-3-12, IEC 61000-3-12



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GS3		Part 3-3: Limitation of voltage changes, voltage fluctuations and flicker, $I \leq 16$ A	EN 61000-3-3, IEC 61000-3-3
GS3		Part 3-11: Limitation of stress changes, voltage fluctuations and flickers in public low-voltage supply networks - devices and devices with a rated current $\leq 75$ A	EN 61000-3-11, IEC 61000-3-11
GS3		Part 4-17: Test and measurement methods, testing of the interference immunity against alternating parts of the voltage at direct current mains connections	EN 61000-4-17, IEC 61000-4-17
GS3		Part 4-19: Test and measurement procedures, testing the immunity of AC mains connections to conducted symmetrical disturbances and disturbances from signal transmission in the frequency range from 2 kHz to 150 kHz	EN 61000-4-19, IEC 61000-4-19
GS3		Part 4-27: Test and measurement procedures, immunity test of devices with an input current not exceeding 16 A per conductor against unbalance (of the supply voltage)	EN 61000-4-27, IEC 61000-4-27
GS1; GS2; GS3		Part 4-29: Test and measurement procedures, tests for immunity to voltage dips, short interruptions and voltage fluctuations at d.c. mains inputs	EN 61000-4-29, IEC 61000-4-29
GS1; GS2; GS3		Part 4-34: Test and measurement procedures, immunity tests of apparatus and equipment with a mains current $> 16$ A per phase against voltage dips, short interruptions and voltage fluctuations	EN 61000-4-34, IEC 61000-4-34



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GS1; GS2; GS3	Requirements for devices and devices and determination of the methods for measuring high-frequency interference (radio interference) and interference immunity	<p>Part 1-1: Measuring devices Frequency range: f = 9 kHz - 30 MHz</p> <p>Part 1-2: Auxiliary/Aid Devices - Line-guided interference emission</p> <p>Part 1-3: Additional/auxiliary equipment - Interference power measurement</p> <p>Part 1-4: Auxiliary equipment - Radiated emissions</p> <p>Part 2-1: Measurement of conducted emissions</p> <p>Part 2-2: Measurement of interference power F = 30 – 300 MHz</p> <p>Part 2-3: Measurement of radiated emissions</p> <p>Part 3-12: Harmonic currents I &gt; 16 to ≤ 75 A</p> <p>Part 4-2: Testing of immunity to static electricity discharge</p> <p>Part 4-3: Testing of immunity to radio-frequency electromagnetic fields In situ allowed in Switzerland</p> <p>Part 4-4: Testing of immunity to fast transient electrical disturbances/ burst</p> <p>Part 4-5: Surge immunity test</p> <p>Part 4-6: Line-guided interference levels, induced by high-frequency fields, frequency range: F = 0.15 - 230 MHz</p> <p>Part 4-7: Guide harmonic currents</p>	<p>EN 55016-1-1, CISPR 16-1-1</p> <p>EN 55016-1-2, CISPR 16-1-2</p> <p>EN 55016-1-3, CISPR 16-1-3</p> <p>EN 55016-1-4, CISPR 16-1-4</p> <p>EN 55016-2-1, CISPR 16-2-1</p> <p>EN 55016-2-2, CISPR 16-2-2</p> <p>EN 55016-2-3, CISPR 16-2-3</p> <p>EN 61000-3-12, IEC 61000-3-12</p> <p>EN 61000-4-2, IEC 61000-4-2</p> <p>EN 61000-4-3, IEC 61000-4-3</p> <p>EN 61000-4-4, IEC 61000-4-4</p> <p>EN 61000-4-5, IEC 61000-4-5</p> <p>EN 61000-4-6, IEC 61000-4-6</p> <p>EN 61000-4-7, IEC 61000-4-7</p>



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GS3		Part 4-8: Testing of the immunity to magnetic fields with energy-related frequencies	EN 61000-4-8, IEC 61000-4-8
		Part 4-9: Pulsed magnetic fields	EN 61000-4-9, EC 61000-4-9
		Part 4-10: Damped oscillating magnetic fields	EN 61000-4-10, IEC 61000-4-10
		Part 4-11: Tests of the interference immunity against voltage drops and voltage fluctuations (AC) $I \leq 16$ A	EN 61000-4-11, IEC 61000-4-11
		Part 4-12: Test and measurement methods - Immunity to damped sinus vibrations (ring wave)	EN 61000-4-12, IEC 61000-4-12
		Part 4-13: Tests of the immunity to disturbances against harmonic	EN 61000-4-13, IEC 61000-4-13
GS3		Part 4-16: Test and measurement procedure testing of the interference immunity against line-guided, asymmetrical interference levels in the frequency range from 0 Hz to 150 kHz	EN 61000-4-16, IEC 61000-4-16
GS3		Part 4-18: Test and measurement methods - Testing of the immunity to oscillating waves	EN 61000-4-18, IEC 61000-4-18
GS3		Part 4-28: Testing of the immunity to interference against fluctuations in the grid frequency	EN 61000-4-28, IEC 61000-4-28
		Part 4-29: Voltage drops, short-term interruptions and voltage fluctuations DC (DC)	EN 61000-4-29, IEC 61000-4-29
		Part 4-34: Voltage drops, short-term interruptions and voltage fluctuations $I > 16$ A	EN 61000-4-34, IEC 61000-4-34
GS1; GS2; GS3	EMC	Part 6-1: Technical basic standards, interference immunity, residential areas, commercial and commercial areas as well as small businesses	EN 61000-6-1, IEC 61000-6-1
		Part 6-2: Technical basic standards interference immunity and industrial sector	EN 61000-6-2, IEC 61000-6-2



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		Part 6-3: Basic technical standards, disturbances for residential, commercial and commercial areas as well as small businesses	EN 61000-6-3, IEC 61000-6-3
		Part 6-4: Basic technical standards, interference for industrial sectors	EN 61000-6-4, IEC 61000-6-4
		Part 6-5: Interference of equipment, equipment and facilities, they are used in the field of power plants and switching stations	EN 61000-6-5, IEC 61000-6-5
		Part 6-7: Basic technical standards, fault resistance requirements for devices and devices used to perform safety-related function systems (functional safety) are provided at industrial sites	EN 61000-6-7, IEC 61000-6-7
		<b>Product standards:</b> EMC tests according to product standards that are fully covered by the above basic standards.	Among other things:
GS3	Machine tools	Part 1: Emission	EN 50370-1
GS3		Part 2: Immunity	EN 50370-2
GS3	Vehicles	Product family standard for electronic devices that are retrofitted into vehicles	EN 50498
GS1; GS2; GS3	Industrial, scientific and medical high-frequency devices (ISM devices)	Radio interference, limit values and measurement methods	EN 55011, CISPR 11
GS3	Vehicles, boats and from combustion engine driven devices	Radio interference properties, limit values and measurement methods for the protection of Outside recipients	EN 55012, CISPR 12
GS1; GS2; GS3	EMC, requirements for household appliances, power tools and similar electrical appliances	Part 1: Emission	EN 55014-1, CISPR 14-1
		Part 2: Immunity, product family standard	EN 55014-2, CISPR 14-2



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GS2; GS3	Electrical lighting equipment and similar electrical appliances	Limit values and measuring methods for the radio interference properties	EN 55015, CISPR 15
GS2; GS3	Facilities for general lighting purposes	EMC interference resistance	EN 61547, IEC 61547
GS1; GS2; GS3	Information technology facilities	Radio interference properties, limit values and measurement methods	EN 55022, CISPR 22
GS1; GS2; GS3	Information technology facilities	Interference properties, limit values and test methods	EN 55024, CISPR 24
GS1; GS2; GS3	Multimedia devices	Disturbance broadcast	EN 55032, CISPR 32
		Requirements for interference immunity	EN 55035, CISPR 35
GS1; GS2; GS3	Medical electrical equipment	Part 1-2: General provisions for safety, including the Essential. Performance characteristics, supplementary standard: EMV - Requirements and tests	EN 60601-1-2, IEC 60601-1-2
GS1; GS2; GS3	Electrical measuring, control, control and laboratory equipment, EMC	Part 1: General Requirements	EN 61326-1, IEC 61326-1
		Part 2-1: Particular requirements for sensitive test and measuring devices for applications without EMC protection measures	EN 61326-2-1, IEC 61326-2-1
		Part 2-2: Particular requirements for variable testing, measurement and monitoring devices for use in low-voltage supply networks	EN 61326-2-2, IEC 61326-2-2
		Part 2-3: Particular requirements – Test configuration, operational conditions and performance for transducers with integrated or remote signal conditioning	EN 61326-2-3, IEC 61326-2-3



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		Part 2-4: Particular requirements, test arrangement, operating conditions and performance characteristics for insulation monitoring devices according to IEC 61557-8 and devices for the insulation fault location	EN 61326-2-4, IEC 61326-2-4
		Part 2-5: Particular requirements, test arrangements, operating conditions and performance characteristics for field equipment with interfaces according to IEC 61784-1, CP 3/2	EN 61326-2-5, IEC 61326-2-5
		Part 2-6: Particular requirements, in vitro diagnostic medical devices	EN 61326-2-6, IEC 61326-2-6
		Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications	EN 61326-3-1, IEC 61326-3-1
		Part 3-2: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - Industrial applications with specified electromagnetic environment	EN 61326-3-2, IEC 61326-3-2
GS1; GS2; GS3	Speed-changeable electric drives	Part 3: EMC product standard including special test methods	EN 61800-3, IEC 61800-3
GS2; GS3		Functional safety	EN 61800-5-2, IEC 61800-5-2
GS1; GS2; GS3	Alarm systems	Part 4: Electromagnetic Compatibility. Product family standard: Requirements for the interference immunity of system parts for fire and burglar alarm systems as well as personal assistance call systems	EN 50130-4
		Part 2: Electromagnetic compatibility, requirements for the immunity to interference of system parts for fire and burglar alarm systems	IEC 62599-2



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GS1; GS2; GS3	Railway applications - EMC	Part 1: General	EN 50121-1, IEC 62236-1
		Part 2: Entire railway system into the outside world	EN 50121-2, IEC 62236-2
		Part 3-1: Railway vehicles – train and entire vehicle	EN 50121-3-1, IEC 62236-3-1
		Part 3-2: Railway vehicles - equipment	EN 50121-3-2, IEC 62236-3-2
		Part 4: Interference emissions and interference immunity of signal and telecommunications equipment	EN 50121-4, IEC 62236-4
GS3		Part 5: Fixed installations and facilities of the railway energy supply	EN 50121-5, IEC 62236-5
		Interface between “Control Command and Signalling Trackside (CCS)-Racks-Side” and other subsystems - Electromagnetic compatibility - EMC	ERA/ERTMS/033281 §3.2
GS3	Military applications	MIL-STD	MIL-STD 461 E, MIL-STD 461 F, (CE 101, CE 102, CS 101, CS106, CS 114, CS 115, CS116, RE 101, RE 102, RS 101, RS103)
GS3	Safety of transformers, chokes, power supplies and corresponding combinations	EMC requirements	EN 62041, IEC 62041
GS3	Assessment of electrical and electronic equipment regarding limitations of exposure of persons to electromagnetic fields (0 Hz - 300 GHz)	<b>EMF</b> General measurement methods	EN 62311, IEC 62311



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HS; GS1; GS2; GS3	Methods for measuring electromagnetic fields of	Household appliances	IEC 62233, EN 62233
GS2; GS3	Electrical appliances for household and similar use	Electromagnetic fields, method of assessment and measurement; luminaires	EN 62493, IEC 62493
GS3	Assessment of the compliance of low-power electronic and electrical devices with the basic restrictions for the safety of persons in electromagnetic fields (10 MHz to 300 GHz)	Small power devices	EN 62479, IEC 62479
GS3	Safety of persons in electromagnetic fields	Railway area	EN 50500, IEC 62597
GS3	Telecommunication network facilities	EMC	EN 300 386, ES 201 468
GS1; GS2; GS3	Electromagnetic Compatibility and Radio Spectrum Matters (ERM), Electromagnetic Compatibility (EMC) Standard for Radio Equipment and Services,	Part 1: Common technical requirements	ETSI EN 301 489-1
GS1; GS2; GS3		Part 3: Specific Conditions for Short-Range Devices (SRD) Operating on Frequencies between 9 kHz and 40 GHz	ETSI EN 301 489-3
GS3		Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	EN 301 489-7



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GS3		Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, wireless audio and in-ear monitoring devices; Harmonized Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	EN 301 489-9
GS1; GS2; GS3	Radio equipment LAN's	Part 17: Specific conditions for Wideband data and HIPERLAN equipment  <b>Radio technology</b>	ETSI EN 301 489-17
GS3	Short range radios (SRD)	25 MHz - 1000 MHz, up to 500 mW	EN 300 220-1 <sup>K2)</sup> , ETSI 300 220-1 <sup>K2)</sup> , EN 300 220-2 <sup>K2)</sup> , ETSI 300 220-2 <sup>K2)</sup>
GS3	Broadband transmission systems, data transmission devices	2.4 GHz ISM band, Broadband modulation techniques	EN 300 328, ETSI 300 328
GS3	All equipment transmitting on the 5 GHz RLAN band	5 GHz RLAN; Harmonized Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	EN 301 893, ETSI 301 893
GS3	Radio compatibility of railway vehicles with railway radio services	Regulation No. EMV 06; Technical Rules for Electromagnetic Compatibility; Proof of radio compatibility of railway vehicles with railway radio services.	EMV 06, ÖBB 50 02.04
GS3	Inductive loop systems	9 kHz to 30 MHz	EN 300 330-1, ETSI 300 330-1, EN 300 330, ETSI 300 330
GS3	Short range radios (SRD)	1 GHz to 40 GHz	EN 300 440-1 <sup>K1)</sup> , ETSI 300 440-1 <sup>K1)</sup> , EN 300 440-2 <sup>K1)</sup> , ETSI 300 440-2 <sup>K1)</sup> EN 300 440 <sup>K1)</sup> , ETSI 300 440 <sup>K1)</sup>
GS3	Wireless power transmission	< 30 MHz	Draft EN 303 417
GS3	Fixed and mobile services	Performance handed over  Band-external amplification intermodulation input signal  Accuracy modulation	EN 301 908-11  EN 301 908-11  ETSI TS 125 143



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		Carrier frequency	EN 300 220-1, EN 300 422-1, EN 300 454-1
		Transmission power or level (Blasted)	EN 300 220-1, EN 300 330-1, EN 300 422-1, EN 300 440-1 <sup>K1)</sup> , EN 300 454-1
		Frequency and modulation stroke	EN 300 220-1
		Neighboring channel power	EN 300 220-1
		Modulation bandwidth	EN 300 220-1/-2, EN 300 330-1/-2, EN 300 422-1/-2, EN 300 440-1/-2 <sup>K1)</sup> , EN 300 454-1/-2
		Secondary broadcasts (directed)	EN 300 220-1/-2, EN 300 330-1/-2, EN 300 422-1/-2, EN 300 440-1/-2 <sup>K1)</sup> , EN 300 454-1/-2
		Side broadcasts (beat)	EN 300 220-1/-2, EN 300 330-1/-2, EN 300 422-1/-2, EN 300 440-1/-2 <sup>K1)</sup> , EN 300 454-1/-2
		Frequency stability in case of undersupply	EN 300 220-1/-2
		Transient response power-on time	EN 300 454-1/-2, EN 300 220-1/-2, EN 300 330-1/-2, EN 300 440-1/-2 <sup>K1)</sup>
		Neighbor channel suppression	EN 300 220-1/2, EN 300 330-1/2, EN 300 440-1/2 <sup>K1)</sup>
		Neighbor Band Suppression	EN 300 220-1/2, EN 300 440-1/2 <sup>K1)</sup>
		Secondary reception point damping	EN 300 220-1/-2, EN 300 330-1/-2, EN 300 440-1/-2 <sup>K1)</sup>
		Application of the above or similar measuring principles for Radio systems are possible, provided that the measurement method is sufficiently covered by the infrastructure and by the corresponding standard.	
GS3	Motor vehicles, wheeled vehicles, electrical sub-assemblies	Disturbance broadcast	EN 55025, CISPR 25
GS1; GS2; GS3	Ships		DNVGL-CG-0339 Sect. 14



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GS3	Disturbance broadcast	Radio compatibility of railway vehicles with railway radio services	ANSI C63.4  ANSI C63.10 47 CFR FCC Part 15, Subpart B  47 CFR FCC Part 15, Subpart C ICES-003 RSS-210 RSS-310 RSS-247 RSS-Gene (Limited to ANSI C63.26)
GS2; GS3	Vehicles		EMC  72/245/EEC, 95/54/EC, 2004/104/EC
GS3			ISO 7637-1, ISO 7637-2, ISO 7637-3, ISO TR 10605, ISO 11451-2, ISO 11451-3, ISO 11451-4, ISO 11452-2, ISO 11452-3, ISO 11452-4, ISO 11452-5, ISO 14982, ISO 16750-2
GS3		Suppression of interference	UN ECE Reg 10, E/ECE/324/Add9/, E/ECE/Trans/505/Add9
GS3	Electric wheelchairs and mobiles	EMC of electric wheelchairs and mobiles	ISO 7176-21 RESNA WC-1
GS3	Elevators, escalators and walkways	Noise transmission (harmonic wave and flickers in ext. laboratory)  Interference immunity	EN 12015  EN 12016
HS	<b>Control and control units</b>	<b>Safety and environmental tests</b>	
HS	Automatic electrical regulating and control devices for domestic use and similar applications	Part 1: General Requirements  Part 2-2: Thermally acting motor protection devices	IEC 60730-1, IEC 60730-1  EN 60730-2-2, IEC 60730-2-2



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HS	<b>Equipment for potentially explosive atmospheres (ATEX)</b>	Part 2-3: Thermal protective devices for fluorescent lamp ballasts	EN 60730-2-3, IEC 60730-2-3
		Part 2-6: Automatic electric pressure control and control units including mechanical requirements	EN 60730-2-6, IEC 60730-2-6
		Part 2-7: Time control units, timers	EN 60730-2-7, IEC 60730-2-7
		Part 2-8: Electrically operated water valves, including mechanical requirements	EN 60730-2-8, IEC 60730-2-8
		Part 2-9: Temperature-dependent control units	EN 60730-2-9, IEC 60730-2-9
		Part 2-10: Engine start relay	EN 60730-2-10, IEC 60730-2-10
		Part 2-11: Energy regulator	EN 60730-2-11, IEC 60730-2-11
		Part 2-12: Electrically operated door locks	EN 60730-2-12, IEC 60730-2-12
		Part 2-13: Moisture-sensitive control units	EN 60730-2-13, IEC 60730-2-13
		Part 2-14: Electric actuators	EN 60730-2-14, IEC 60730-2-14
HS	Explosive atmospheres	Part 2-15: Electric water level dependent Control and control units in swimming or electrode sensors, version	EN 60730-2-15, IEC 60730-2-15
		Part 2-16: Automatic electric water level regulator in float version for domestic use and similar applications	EN 60730-2-16, IEC 60730-2-16
HS	<b>Safety requirements and tests</b>		
HS	Explosive atmospheres	Part 1: Explosion protection, basics and methodology	EN 1127-1
		Part 2: Explosion protection, basics and methodology in mines	EN 1127-2
HS	Industrial trucks	Use in potentially explosive areas	EN 1755



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HS	Non-electrical devices for use in potentially explosive atmospheres	Part 36: Basics and requirements  Part 37: Protection through constructive safety «c», ignition source monitoring «b», liquid encapsulation «k»  Part 38: Devices and components in explosive atmospheres in underground mines	ISO 80079-36  ISO 80079-37  ISO/IEC 80079-38
HS	Devices for use in atmospheres endangered by firedamp and/ or combustible dusts	Group I, Category M1	EN 50303
HS	Electrical equipment for potentially explosive atmospheres	Part 0: General Requirements  Part 1: Pressure-resistant encapsulation «D»  Part 2: Overpressure encapsulation «p»  Part 5: Sand encapsulation «q»  Part 7: Increased security «e»  Part 11: Self-assurance «i»  Part 14: Construction of electrical installations (except pit construction)  Part 15: Ignition type «n»  Part 18: Encapsulation «m»  Part 19: Repair and overhaul  Part 25: Intrinsically safe systems  Part 26: Design, testing of equipment Group II Category 1G  Part 27: FISCO  Part 28: Optical radiation	EN 60079-0, IEC 60079-0  EN 60079-1, IEC 60079-1  EN 60079-2, IEC 60079-2  EN 60079-5, IEC 60079-5  EN 60079-7, IEC 60079-7  EN 60079-11, IEC 60079-11  EN 60079-14, IEC 60079-14  IEC 60079-15, IEC 60079-15  EN 60079-18, IEC 60079-18  EN 60079-19, IEC 60079-19  EN 60079-25, IEC 60079-25  EN 60079-26, IEC 60079-26  EN 60079-27, IEC 60079-27  EN 60079-28, IEC 60079-28



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HS	<b>Household appliances and Trade</b>	Part 31: Device dust explosion protection through housing «T»  Requirements for process sealing between flammable process fluids and electrical systems.  Part 46: Equipment groups  <b>Safety requirements and tests</b>  Part 1: General requirements Part 2-2: Vacuum cleaner, water vacuum cleaner Part 2-3: Iron Part 2-4: Slingshots Part 2-5: Dishwashers Part 2-6: Fixed stoves, oven, etc. Part 2-7: Washing machines Part 2-8: Shavers, hair clippers Part 2-9: Place change. grill, toaster Part 2-10: Soil treatment wet scrubbers Part 2-11: Drum dryer Part 2-12: Warming plates Part 2-13: Deep fryers, frying pans u. Ä. Part 2-14: Food processors Parts 2-15: Devices e.g. Fluid heating Part 2-21: Water heater (hot water tank/boiler) Part 2-23: Skin and hair treatment devices Part 2-24: Refrigerators and freezers, ice makers Part 2-25: Microwave cookers	EN 60079-31, IEC 60079-31  ABNT IEC TS 60079-40  IEC TS 60079-46  EN 60335-1, IEC 60335-1 EN 60335-2-2, IEC 60335-2-2 EN 60335-2-3, IEC 60335-2-3 EN 60335-2-4, IEC 60335-2-4 EN 60335-2-5, IEC 60335-2-5 EN 60335-2-6, IEC 60335-2-6 EN 60335-2-7, IEC 60335-2-7 EN 60335-2-8, IEC 60335-2-8 IEC 60335-2-9, IEC 60335-2-9 EN 60335-2-10, IEC 60335-2-10 EN 60335-2-11, IEC 60335-2-11 EN 60335-2-12, IEC 60335-2-12 EN 60335-2-13, IEC 60335-2-13 EN 60335-2-14, IEC 60335-2-14 EN 60335-2-15, IEC 60335-2-15 IEC 60335-2-21, IEC 60335-2-21 EN 60335-2-23, IEC 60335-2-23 IEC 60335-2-24, IEC 60335-2-24 EN 60335-2-25, IEC 60335-2-25



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Laboratory	Product or substance group, area of activity	Measurement principle <sup>2)</sup> (Characteristics, measuring ranges, test types)	Test procedures, comments (national, international standards, own procedures) <small>Restrictions and footnotes see last page</small>
		Part 2-27: Skin treatment devices with UV and IR radiation	IEC 60335-2-27, IEC 60335-2-27
		Part 2-28: Sewing machines	EN 60335-2-28, IEC 60335-2-28
		Part 2-29: Battery Chargers	EN 60335-2-29, IEC 60335-2-29
		Part 2-30: Room heaters	EN 60335-2-30, IEC 60335-2-30
		Part 2-31: Extractor hoods	IEC 60335-2-31, IEC 60335-2-31
		Part 2-34: Motor compressor	IEC 60335-2-34, IEC 60335-2-34
		Part 2-35: Flow heater	EN 60335-2-35, IEC 60335-2-35
		Part 2-36: Electric stove, roast baking oven, hotplates, commercial use	IEC 60335-2-36, IEC 60335-2-36
		Part 2-37: Electrical fryers, commercial use	IEC 60335-2-37, IEC 60335-2-37
		Part 2-40: Electric air conditioners, room dehumidifiers, heat pumps	EN 60335-2-40, IEC 60335-2-40
		Part 2-41: Pumping	EN 60335-2-41, IEC 60335-2-41
		Part 2-43: Clothes and towel dryers	EN 60335-2-43, IEC 60335-2-43
		Part 2-45: Variable electric thermal tools etc.	IEC 60335-2-45, IEC 60335-2-45
		Part 2-52: Oral care devices	EN 60335-2-52, IEC 60335-2-52
		Part 2-58: Electric dishwashers for commercial use	EN 60335-2-58, IEC 60335-2-58
		Part 2-59: Insect killer	EN 60335-2-59, IEC 60335-2-59
		Part 2-64: Electric food processors, commercial use	EN 60335-2-64, IEC 60335-2-64
		Part 2-65: Air purifiers	EN 60335-2-65, IEC 60335-2-65
		Part 2-67: Floor treatment, cleaning machines, industrial/ commercial	EN 60335-2-67, IEC 60335-2-67
		Part 2-71: Electric heating equipment for animal husbandry and animal husbandry	EN 60335-2-71, IEC 60335-2-71
		Part 2-72: Vending machine. Industrial/ commercial soil treatment machines	EN 60335-2-72, IEC 60335-2-72
		Part 2-75: Output devices/ vending machines, commercial	EN 60335-2-75, IEC 60335-2-75



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Laboratory	Product or substance group, area of activity	Measurement principle <sup>2)</sup> (Characteristics, measuring ranges, test types)	Test procedures, comments (national, international standards, own procedures) <small>Restrictions and footnotes see last page</small>
		Part 2-78: Outdoor Barbecue Grills Part 2-80: Fans Part 2-84: Toilets Part 2-88: Humidifier, use with heating, ventilation or air conditioning systems Part 2-89: Commercial refrigerators, freezers with built-in/ separate Liquefied substitute/ Engine compressor Part 2-97: Roller shutters, awnings, Venetian blinds Part 2-98: Humidifier Part 2-99: Electric extractor hoods, commercial use Part 2-105: Multifunctional shower facilities	EN 60335-2-78, IEC 60335-2-78 EN 60335-2-80, IEC 60335-2-80 IEC 60335-2-84, IEC 60335-2-84 EN 60335-2-88, IEC 60335-2-88 EN 60335-2-89, IEC 60335-2-89 EN 60335-2-97, IEC 60335-2-97 IEC 60335-2-98, IEC 60335-2-98 IEC 60335-2-99, IEC 60335-2-99 IEC 60335-2-105, IEC 60335-2-105
HS	<b>Plugs, couplings, conductor connection material, cable reels, switches, accessories</b>	<b>Safety requirements and tests</b>	
HS	Device plug-in directions for domestic use and similar general purposes	Part 1: General requirements	EN 60320-1, IEC 60320-1
		Part 3: Standard sheets and teachings	EN 60320-3, IEC 60320-3
HS	Appliance couplers for household and similar general purposes	Part 1: General requirements	IEC 60998-1, IEC 60998-1
		Part 2-1: Connecting material as independent equipment with screw terminals	EN 60998-2-1, IEC 60998-2-1
		Part 2-2: Connecting material as independent equipment with screwless clamping points	EN 60998-2-2, IEC 60998-2-2



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Laboratory	Product or substance group, area of activity	Measurement principle <sup>2)</sup> (Characteristics, measuring ranges, test types)	Test procedures, comments (national, international standards, own procedures) <small>Restrictions and footnotes see last page</small>
HS	Connection material, electrical copper conductors, safety requirements for screw terminals and screwless terminals	Part 2-3: Connecting material as independent equipment with cutting terminals	IEC 60998-2-3, IEC 60998-2-3
		Part 2-4: Rotary terminals	EN 60998-2-4, IEC 60998-2-4
		Part 1: General requirements and special requirements for terminals for conductors of 0.2 mm <sup>2</sup> Up to and including 35 mm <sup>2</sup>	EN 60999-1, IEC 60999-1
HS	Plugs and sockets for household and similar purposes	Part 2: Special requirements for clamping points for conductors over 35 mm <sup>2</sup> Up to and including 300 mm <sup>2</sup>	EN 60999-2, EC 60999-2
		Part 1: General Requirements	IEC 60884-1
		Part 2-1: Secured connectors	IEC 60884-2-1
		Part 2-2: Sockets for appliances	IEC 60884-2-2
		Part 2-3: Switched sockets without locking for fixed installations	IEC 60884-2-3
		Part 2-4: Plugs and sockets SELV	IEC 60884-2-4
		Part 2-5: Adapters	IEC 60884-2-5
HS	Plugs and sockets for domestic and similar purposes	Part 2-7: Extension cable	IEC 60884-2-7
		Part 1: Description of the systems with risk analysis and national deviations to the IEC 60884 series	SN 441011-1
		Part 2-1: Standard sheets and design specifications for plug-in devices with protection classes IP20 and IP55	SN 441011-2-1
		Part 2-2: Multi- and intermediate adapters, extension cables, power strips as well as travel and fixed adapters.	SN 441011-2-2
		Part 2-3: Teaching	SN 441011-2-3
HS	Plugs and socket outlets for household and similar purposes	Part 1: Plugs and sockets 16 A, 250 V AC	IEC 60906-1



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Laboratory	Product or substance group, area of activity	Measurement principle <sup>2)</sup> (Characteristics, measuring ranges, test types)	Test procedures, comments (national, international standards, own procedures) <small>Restrictions and footnotes see last page</small>
HS	Boxes and housings for household appliances and similar fixed electrical installations	Part 3: SELV plug and sockets 16 A, 6V, 12 V, 24 V, 48 V, AC and DC Part 1: General requirements	IEC 60906-3 EN 60670-1, IEC 60670-1
HS	Electrical Installation mat. Cable scooters for domestic use and similar purposes	Part 21: Cans and housings with Suspension means Part 22: Special requirements for junction boxes	IEC 60670-21, IEC 60670-21 EN 60670-22, IEC 60670-22
HS	Cable roller for industrial use		EN 61242, IEC 61242
HS	Flat, non-reconnectable, two-pole plugs, 2.5A 250 V, for class II devices		EN 61316, IEC 61316
GS3	Low-voltage switchgear and control gear combinations	Part 1: General requirements	EN 50075
		Part 2: Energy, switchgear combinations	EN 61439-1, IEC 61439-1
		Part 3: Operation of layman access, installation distributor	EN 61439-2, IEC 61439-2
		Part 4: Building power distributors (BV)	EN 61439-3, IEC 61439-3
		Part 5: Switchgear combinations in public energy distribution networks	EN 61439-4, IEC 61439-4
		Part 6: Rail distributors	EN 61439-5, IEC 61439-5
HS	Electrical installation duct systems for electrical installations	Part 1 General requirements	EN 61439-6, IEC 61439-6
		Part 2-1: Special requirements for wall and ceiling	EN 50085-1 EN 50085-2-1



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Laboratory	Product or substance group, area of activity	Measurement principle <sup>2)</sup> (Characteristics, measuring ranges, test types)	Test procedures, comments (national, international standards, own procedures) Restrictions and footnotes see last page
HS	Switches for household and similar fixed electrical installations	Part 1: General requirements	IEC 60669-1, IEC 60669-1
		Part 2-5: Switches and similar installation material for use in electronic system technology for homes and buildings (ESHG)	IEC 60669-2-5
HS	Device switch	Part 1: General requirements	EN 61058-1, IEC 61058-1
		Part 2-1: Special requirements, cord switches	EN 61058-2-1, IEC 61058-2-1
		Part 2-4: Special requirements, independently mounted switches	EN 61058-2-4, IEC 61058-2-4
		Part 2-5: Special requirements, Selector switch	EN 61058-2-5, IEC 61058-2-5
HS; GS3	<b>Industrial mechanical and plant engineering</b>	Safety of machines	
	Electrical equipment of machines	Part 1: General requirements	EN 60204-1, IEC 60204-1
		Part 32: Requirements for lifting equipment	EN 60204-32, IEC 60204-32
HS	Uninterruptible Power Supply Systems (USV)	Part 1: General Requirements and Safety Requirements	EN 62040-1, IEC 62040-1
		Part 1-1: General requirements and safety requirements for UPS outside of closed premises	EN 62040-1-1, IEC 62040-1-1
		Part 1-2: General requirements and safety requirements for UPSs in closed premises	EN 62040-1-2, IEC 62040-1-2
		Part 2: EMC requirements	EN 62040-2, IEC 62040-2
		Part 3: Test requirements	EN 62040-3, IEC 62040-3
GS3	<b>Risk analyses Safety of machines</b>		
	Machines, control systems, safety systems	Basic terminology, methodology	ISO 12100-1
		Technical guiding principles	ISO 12100-2



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HS	<b>Functional safety</b> Functional safety of safety-related electrical/ electronic/ programmable electronic systems	Part 1: General Requirements Part 2: Requirements for safety-related electrical/ electronic/ programmable electronic systems Part 3: Software requirements Part 4: Terms and abbreviations Part 5: Examples of determining the level of security integrity Part 6: Application Guideline for IEC 61508-2 and IEC 61508-3 Part 7: Application instructions on procedures and measures	EN 61508-1, IEC 61508-1 EN 61508-2, IEC 61508-2 EN 61508-3, IEC 61508-3 EN 61508-4, IEC 61508-4 EN 61508-5, IEC 61508-5 EN 61508-6, IEC 61508-6 EN 61508-7, IEC 61508-7
HS	Functional safety, safety-related systems for the process industry	Part 1: General, terms, requirements for systems, software and hardware Part 2: Instructions for the application of Part 1 Part 3: Guidance for determining the required security levels of integrity	EN 61511-1, IEC 61511-1 EN 61511-2, IEC 61511-2 EN 61511-3, IEC 61511-3
HS; GS1; GS2; GS3	Electric power drive systems with adjustable speed	Part 5-2: Safety requirements Functional safety	EN 61800-5-2, IEC 61800-5-2
HS	<b>Laboratory equipment and measuring instruments</b>		
HS	Electrical measuring, control, control and laboratory equipment	Part 1: Security requirements Part 2-010: Special requirements for laboratory equipment for heating substances Part 2-020: Special requirements for laboratory centrifuges Part 2-030: Special provisions for test and measuring circuits	EN 61010-1, IEC 61010-1 EN 61010-2-010, IEC 61010-2-010 EN 61010-2-020, IEC 61010-2-020 EN 61010-2-030, IEC 61010-2-030



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HS	<b>Electrical medical equipment and systems</b>	Part 2-051: Special requirements for laboratory equipment for mixing and stirring	EN 61010-2-051, IEC 61010-2-051
		Part 2-081: Special requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	EN 61010-2-081, IEC 61010-2-081
		Part 2-101: Special requirements for in vitro diagnostic (IVD) medical devices	EN 61010-2-101, IEC 61010-2-101
		Part 2-201: Special requirements for control and regulation units	EN 61010-2-201, IEC 61010-2-201
HS	Medical devices	Application of risk management	EN ISO 14971
		Application of the suitability for use on medical devices	EN 62366, IEC 62366
		Medical device software, software life cycle processes	EN 62304, IEC62304
HS	Medical electrical equipment	Part 1: General provisions for security	EN 60601-1, IEC 60601-1
		Part 1-1: General Supplementary Standard, Definitions for the Safety of Medical Electrical Systems	EN 60601-1-1, IEC 60601-1-1
		Part 1-4: Supplementary Standard, Programmable Electrical Medical Systems	EN 60601-1-4, IEC 60601-1-4
		Part 1-6: Supplementary Standard, Suitability for use	EN 60601-1-6, IEC 60601-1-6
		Part 1-8: Supplementary Standard, Alarm systems	EN 60601-1-8, IEC 60601-1-8
		Part 1-11: Supplementary standard, requirements for medical electrical equipment and medical electrical systems for medical care in the home environment	EN 60601-1-11, IEC 60601-1-11
		Part 2-2: Particular requirements, safety of high-frequency surgical equipment	EN 60601-2-2, IEC 60601-2-2



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		Part 2-10: Particular stipulations, safety of devices for stimulating nerves and muscles	EN 60601-2-10, IEC 60601-2-10
		Part 2-12: Particular safety requirements including the essential performance characteristics of intensive care ventilators	EN 80601-2-12, IEC 80601-2-12
		Part 2-22: Particular stipulations, safety of diagnostic and therapeutic laser devices	EN 60601-2-22, IEC 60601-2-22
		Part 2-24: Particular stipulations, safety von infusion pumps and infusion regulators	EN 60601-2-24, IEC 60601-2-24
		Part 2-41: Particular requirements for the safety, including essential performance, of surgical lights and examination lights	EN 60601-2-41, IEC 60601-2-41
		Part 2-55: Particular requirements for the basic safety and essential performance of respiratory gas monitors	EN 80601-2-55, IEC 80601-2-55
		Part 2-58: Particular requirements for the safety, including essential performance, of devices for lens removal and vitrectomy in ophthalmic surgery	80601-2-58, IEC 80601-2-58
		Part 2-60: Particular requirements for the safety, including essential performance, of dental appliances	EN 80601-2-60, IEC 80601-2-60
		Part 2-61: Particular requirements for the safety, including essential performance, of pulse oximetry equipment	EN 80601-2-61, IEC 80601-2-61
HS	<b>Specialties</b>	Metric cable glands for electrical installations	EN 50262, IEC 62444
HS	<b>Electric vehicles</b>		
HS	Electrically operated road vehicles	Uniform conditions for the approval of battery-operated electric vehicles regarding the special requirements for construction and operational safety	UN ECE Reg. 100



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HS	Conductive charging systems for electric vehicles	Part 1: General requirements	EN 61851-1, IEC 61851-1
HS	<b>Computers and office equipment</b>	Part 22: AC charging station for electric vehicles	EN 61851-22, IEC 61851-22
HS	Safety of laser products	Part 1: Classification of facilities, requirements and user guidelines	EN 60825-1, IEC 60825-1
HS	Security of multimedia products	Electrical and electronic equipment in the field of audio, video, information and telecommunications technology, including electrical office machines, for a rated voltage of up to 600 V	EN 62368-1, IEC 62368-1
HS	<b>Low-tension switchgear</b>		
HS	Low-voltage switchgear	Part 1: General stipulations	EN 60947-1, IEC 60947-1
HS	Terminals for copper conductors	Part 7-1: Auxiliary facilities, Terminals for copper conductors	EN 60947-7-1, IEC 60947-7-1
HS	Protective conductor series terminals for copper conductors	Part 7-2: Auxiliary devices, protective conductor series terminals for copper conductors	IEC 60947-7-2, IEC 60947-7-2
HS	Low voltage Switchgear	Part 7-3: Auxiliary devices, safety requirements for safety series terminals	EN 60947-7-3, IEC 60947-7-3
HS	Low voltage Switchgear	Part 7-4: Auxiliary facilities, printed circuit board connection terminals for copper conductors	IEC 60947-7-4, IEC 60947-7-4
HS	<b>Fuses and overcurrent/ faults power switch and accessories</b>		
HS	<b>Transformers</b>		
HS	Safety of transformers, network devices and similar	Part 1: General requirements and tests	EN 61558-1, IEC 61558-1



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Laboratory	Product or substance group, area of activity	Measurement principle <sup>2)</sup> (Characteristics, measuring ranges, test types)	Test procedures, comments (national, international standards, own procedures) <small>Restrictions and footnotes see last page</small>
HS	Control transformers	Part 2-6: Safety Transformers for general applications  Part 2-16: Testing of switching power supplies and transformers in switching power supplies  Part 2-17: Safety transformers for switching power supplies	EN 61558-2-6, IEC 61558-2-6  EN 61558-2-16, IEC 61558-2-16  EN 61558-2-17, IEC 61558-2-17
HS	<b>Power Tools</b>		
HS	Hand-guided motorized power tools	Part 1: General requirements  Part 2-2: Screwdrivers and Impact Wrenches  Part 2-4: Grinders/Polishers except disc grinders  Part 2-8: Sheet Metal Shears/ Nibblers  Part 2-9: Thread Cutter  Part 2-11: Sawing with back-and-forth saw blade (jig/ sabr saws)  Part 2-14: Planers  Part 2-16: Tacker  Part 2-19: Flat dowel milling	EN 62841-1, IEC 62841-1  EN 62841-2-2, IEC 62841-2-2  EN 62841-2-4, IEC 62841-2-4  EN 62841-2-8, IEC 62841-2-8  EN 62841-2-9, IEC 62841-2-9  EN 62841-2-11, IEC 62841-2-11  EN 62841-2-14, IEC 62841-2-14  EN 60745-2-16, IEC 60745-2-16  EN 60745-2-19, IEC 60745-2-19
HS	Safety of transportable motor-driven power tools	Part 2-6: Special requirements for diamond drills with water supply	EN 62841-3-6, IEC 62841-3-6
HS	<b>Electrical engineering products</b>	<b>Environmental simulation tests</b>	
		Protections through housing (IP code)	EN 60529, IEC 60529
HS	Environmental assessments	Part 1: General and Guide  Part 2-1: Tests, Test group A: Cold  Part 2-2: Tests, Test group B: Dry heat  Part 2-18: Water	EN 60068-1, IEC 60068-1  EN 60068-2-1, IEC 60068-2-1  EN 60068-2-2, IEC 60068-2-2  EN 60068-2-18, IEC 60068-2-18



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HS	Tests to assess the risk of fire	Part 2-78: Moist heat, constant Part 1-1: General Guidelines Part 2-2: Testing with the needle flame Part 2-10: Glow wire testing equipment and general test method Part 2-11: Test with the glow wire for the flammability of end products Part 2-12: Glow wire for the flammability of materials Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature test method for materials Part 10-2: Unusual warmth, ball pressure test Part 11-5: Test procedure with the needle flame, experimental setup, preparations for the confirmation test and guidelines	EN 60068-2-78, IEC 60068-2-78 EN 60695-1-1, IEC 60695-1-1 EN 60695-2-2, IEC 60695-2-2 EN 60695-2-10, IEC 60695-2-10 EN 60695-2-11, IEC 60695-2-11 EN 60695-2-12, IEC 60695-2-12 EN 60695-2-13, IEC 60695-2-13 EN 60695-10-2, IEC 60695-10-2 EN 60695-11-5, IEC 60695-11-5
HS	<b>Energy consumption measurements</b>		
HS	Energy consumption measurement for household and commercial devices	Household appliances, measurements of standby consumption Methods for measuring the energy consumption of audio, video and similar devices Methods for measuring the energy consumption of IT devices	EN 62301, IEC 62301 EN 62087, IEC 62087 EN 62018, IEC 62018
HS	Electrical and electronic household and office appliances	Measurement of low power	EN 50564
HS	<b>Acoustics</b>	Determination of the sound power and sound energy levels of noise sources from sound pressure measurements	EN ISO 3746



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### Restrictions and comments

K1) Excluded:

- Class 1 and Class 2 recipients
- No DAA measurement at GBSAR facilities  
(Detect and avoid at Ground Based Synthetic Aperture Radar)

Limitations on measurements:  $f \leq 40$  GHz, therefore:

- Working frequencies  $f_0 \leq 40$  GHz
- Secondary wave measurement incomplete for working frequency  $f_0 > 20$  GHz

K2) Excluded:

- Class 1 and Class 2 recipients
- Devices with LBT (Lists Before Talc)

In case of contradictions in the language versions of the directories, the German version shall apply.

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