

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-11020-03-01 according to DIN EN ISO/IEC 17025:2018

Valid from: 02.09.2026

Date of issue: 02.09.2026

This annex is a part of the accreditation certificate D-PL-11020-03-00.

Holder of accreditation certificate:

SGS Germany GmbH
Heidenkampsweg 99, 20097 Hamburg

with the locations

SGS Germany GmbH
Benzstr. 26/28, 82178 Puchheim (Location A)

SGS Germany GmbH
Traunreuter Str. 3, 82538 Gelting (Location B)

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and they conform to the principles of DIN EN ISO 9001.

Tests in location A in the fields: Electromagnetic Compatibility (EMC), Safety of Electrical Appliances, Low-voltage Switchgear and Controlgear Assemblies, Environmental Simulation, Radio Telecommunication

*This annex to the certificate was issued by the Deutsche Akkreditierungsstelle GmbH (DAkkS) and is digitally sealed.
This annex to the certificate is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any valid and surveyed accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (www.dakks.de).*

Abbreviations used: see last page

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Tests in location B in the fields: Environmental Simulation, Electromechanical Components, Batteries

Flexible Scope of Accreditation:

The testing laboratory is permitted to use standardised or equivalent test methods listed here with different issue dates without being required to prior inform and obtain approval from DAkkS (flexibilization according to category A).

Within the indicated test areas the testing laboratory is permitted without being required to prior inform and obtain approval from DAkkS to have the free choice from standardised or equivalent test methods. (flexibilization according to category B).

The testing laboratory has an up-to-date list of all test methods within the flexible scope of accreditation. The list is publicly available on the website of the testing laboratory.

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Location A Benzstr. 26/28, 82178 Puchheim			
1 Electromagnetic Compatibility (EMC)			
1.1 Basic Standards			
EMC	IEC 61000-4-2:2008 IEC 61000-4-2:2025	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	
EMC	DIN EN 61000-4-2:2009 (EN 61000-4-2: 2009)	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:2008)	
EMC	IEC 61000-4-3: 2006 +A1:2008 +A2:2010 IEC 61000-4-3:2020	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	
EMC	DIN EN IEC 61000-4-3:2021 (EN IEC 61000-4-3:2020)	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2020)	

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EMC	IEC 61000-4-4:2012	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	
EMC	DIN EN 61000-4-4:2013 (EN 61000-4-4:2012)	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4:2012)	
EMC	IEC 61000-4-5:2014 + A1:2017	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	DIN EN 61000-4-5:2019 (EN 61000-4-5: 2014 + A1:2017)	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014 + A1:2017)	
EMC	IEC 61000-4-6:2013 IEC 61000-4-6:2023	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	DIN EN 61000-4-6:2014 (EN 61000-4-6: 2014)	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2013)	
EMC	IEC 61000-4-8: 2009	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	1) Tests with frequencies 50Hz; 60Hz: test level 1000A/m only for test devices with "small" dimensions 2) Tests with frequencies 16 2/3, 400Hz: only „small“ test level for test devices with "small" dimensions

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EMC	DIN EN 61000-4-8:2010 (EN 61000-4-8: 2010)	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test (IEC 61000-4-8:2009)	1) Tests with frequencies 50Hz; 60Hz: test level 1000A/m only for test devices with "small" dimensions 2) Tests with frequencies 16 2/3, 400Hz: only „small“ test level for test devices with "small" dimensions
EMC	IEC 61000-4-9:2016	Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques; Impulse magnetic field immunity test	
EMC	DIN EN 61000-4-9:2017 (EN 61000-4-9: 2016)	Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques; Impulse magnetic field immunity test (IEC 61000-4-9:2016)	
EMC	IEC 61000-4-10:2016	Electromagnetic compatibility (EMC) - Part 4-10: Testing and measurement techniques; Damped oscillatory magnetic field immunity test	Test level 500 A/m only possible for test devices with "small" dimensions
EMC	DIN EN 61000-4-10:2018 (EN 61000-4-10: 2017)	Electromagnetic compatibility (EMC) - Part 4-10: Testing and measurement techniques; Damped oscillatory magnetic field immunity test (IEC 61000-4-10:2016)	Test level 500 A/m only possible for test devices with "small" dimensions
EMC	IEC 61000-4-11: 2004 +A1:2017 IEC 61000-4-11:2020	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	
EMC	DIN EN IEC 61000-4-11:2021 (EN IEC 61000-4-11:2020+AC2020)	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2020 + COR1:2020)	

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EMC	IEC 61000-4-13: 2002 +A1:2009 +A2:2015	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	
EMC	DIN EN 61000-4-13:2016 (EN 61000-4-13: 2002 +A1:2009 +A2:2016)	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests (IEC 61000-4-13:2002 + A1:2009 + A2:2015)	
EMC	IEC 61000-4-14:2009	Electromagnetic compatibility (EMC) - Part 4-14: Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase	
EMC	DIN EN 61000-4-14:2010 (EN 61000-4-14: 1999 +A1:2004 +A2:2009)	Electromagnetic compatibility (EMC) - Part 4-14: Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase (IEC 61000-4-14:1999 + A1:2001 + A2:2009)	
EMC	IEC 61000-4-16:2015	Electromagnetic Compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	
EMC	DIN EN 61000-4-16:2016 (EN 61000-4-16:2016)	Electromagnetic Compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz (IEC 61000-4-16:2015)	
EMC	IEC 61000-4-17:2009	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test	

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EMC	DIN EN 61000-4-17/A2:2009 (EN 61000-4-17:1999 +A1 :2004 +A2 :2009)	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test (IEC 61000-4-17:1999/A2:2008)	
EMC	IEC 61000-4-18:2019	Electromagnetic compatibility (EMC) - Part 4-18: Testing and measurement techniques - Damped oscillatory wave immunity test	
EMC	DIN EN IEC 61000-4-18:2020 VDE 0847-4-18:2020 (EN IEC 61000-4-18: 2019)	Electromagnetic compatibility (EMC) - Part 4-18: Testing and measurement techniques - Damped oscillatory wave immunity test (IEC 61000-4-18:2019 + COR1:2019)	
EMC	IEC 61000-4-27:2000 +A1:2009	Electromagnetic compatibility (EMC) - Part 4-27: Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase	
EMC	DIN EN 61000-4-27:2009 (EN 61000-4-27: 2000 A1:2009)	Electromagnetic compatibility (EMC) - Part 4-27: Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase (IEC 61000-4- 27:2000 + A1:2009)	
EMC	IEC 61000-4-28:2000 +A1:2004 +A2:2009	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase	
EMC	DIN EN 61000-4-28:2009 (EN 61000-4-28: 2000 +A1:2004+A2:2009)	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase (IEC 61000-4-28:1999 + A1:2001 + A2:2009)	

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EMC	IEC 61000-4-29:2000	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques; Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	
EMC	DIN EN 61000-4-29:2001 (EN 61000-4-29:2000)	Electromagnetic compatibility (EMC) - Part 4-29: Testing and measurement techniques; Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests (IEC 61000-4-29:2000)	
EMC	IEC 61000-4-34:2005 +A1:2009	Electromagnetic compatibility (EMC) – Part 4-34: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase	
EMC	DIN EN 61000-4-34:2010 (EN 61000-4-34:2007 +A1:2009)	Electromagnetic compatibility (EMC) – Part 4-34: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with mains current more than 16 A per phase (IEC 61000-4-34:2005 + A1:2009 + Cor. :2009)	
EMC	IEC 61000-4-39:2017	Electromagnetic Compatibility (EMC) - Part 4-39: Testing and measurement techniques - Radiated fields in close proximity - Immunity test	Only for frequency range < 26 MHz
EMC	DIN EN 61000-4-39:2019 (EN 61000-4-39:2017)	Electromagnetic Compatibility (EMC) - Part 4-39: Testing and measurement techniques - Radiated fields in close proximity - Immunity test (IEC 61000-4-39:2017)	Only for frequency range < 26 MHz
1.2 Generic standards			
EMC	IEC 61000-6-1:2016	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	

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EMC	DIN EN IEC 61000-6-1:2019 (EN IEC 61000-6-1:2019)	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments (IEC 61000-6-1:2016)	
EMC	IEC 61000-6-2:2016	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	
EMC	DIN EN IEC 61000-6-2:2019 (EN IEC 61000-6-2:2019)	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments (IEC 61000-6-2:2016)	
EMC	IEC 61000-6-3:2020	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards – Emission standard for equipment in residential environments	Only SAC
EMC	DIN EN IEC 61000-6-3:2022 (EN IEC 61000-6-3:2021)	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards – Emission standard for equipment in residential environments (IEC 61000-6-3:2020)	Only SAC
EMC	IEC 61000-6-4:2018	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	Only SAC
EMC	DIN EN IEC 61000-6-4:2020 (EN IEC 61000-6-4:2019)	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2018)	Only SAC
EMC	IEC 61000-6-5:2015	Electromagnetic compatibility (EMC) – Part 6-5: Generic standards – Immunity for power station and substation environments	
EMC	DIN EN 61000-6-5:2016 (EN 61000-6-5:2015)	Electromagnetic compatibility (EMC) – Part 6-5: Generic standards – Immunity for power station and substation environments (IEC 61000-6-5:2015)	

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EMC	IEC 61000-6-7:2014	Electromagnetic compatibility (EMC) Part 6-7: Generic standards - Immunity requirements for safety-related systems and equipment intended to perform functions in a safety-related system (functional safety) in industrial environments	
EMC	DIN EN 61000-6-7:2015 (EN 61000-6-7:2015)	Electromagnetic compatibility (EMC) Part 6-7: Generic standards - Immunity requirements for safety-related systems and equipment intended to perform functions in a safety-related system (functional safety) in industrial environments (IEC 61000-6-7:2014)	
EMC	IEC 61000-6-8:2020	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards – Emission standard for professional equipment in commercial and light-industrial locations	Only SAC
EMC	DIN EN IEC 61000-6-8:2022 (EN IEC 61000-6-8:2020)	Electromagnetic compatibility (EMC) - Part 6-8: Generic standards – Emission standard for professional equipment in commercial and light-industrial locations (IEC 61000-6-8:2020)	Only SAC
1.3 EMC Product family standards			
EMC	1 TR 9 :2016	Electromagnetic Compatibility of Deutsche Telekom AG Telecommunications Equipment	
EMC	DIN EN 12015:2021 (EN 12015:2021)	Electromagnetic compatibility - Product family standard for lifts, escalators and moving walks - Emission	
EMC	DIN EN 12016:2013 (EN 12016:2013)	Electromagnetic compatibility - Product family standard for lifts, escalators and moving walks - Immunity	
EMC	ETSI EN 300 132-1 V2.2.1 (2022-11)	Environmental Engineering (EE); Power supply interface at the input to Information and Communication Technology (ICT) equipment; Part 1: Alternating Current (AC)	

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EMC	ETSI EN 300 132-2 V2.7.1 (2022-09)	Environmental Engineering (EE); Power supply interface at the input of Information and Communication Technology (ICT) equipment; Part 2: -48 V Direct Current (DC)	
EMC	ETSI EN 300 132-3-0 V2.1.1 (2012-02)	Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 3: Operated by rectified current source, alternating current source or direct current source up to 400 V	
EMC	ETSI EN 300 132-3-1 V2.1.1 (2012-10)	Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 3: Operated by rectified current source, alternating current source or direct current source up to 400 V	
EMC	ETSI EN 300 386 V2.2.1 (2022-09)	Telecommunication network equipment; Electro Magnetic Compatibility (EMC) requirements	
EMC	DIN EN 50090-2-2:2007 (EN 50090-2-2: 1996 +A1:2002+A2:2007)	Home and Building Electronic Systems (HBES) - Part 2-2: System overview - General technical requirements	Only chapter 7; EMC
EMC	DIN EN 50090-8: 2001 (EN 50090-8: 2000)	Home and Building Electronic Systems (HBES) - Part 8: Conformity assessment of products	Only chapter 4.4 and without products according to EN 50065-1
EMC	DIN EN 50130-4: 2015 (EN 50130-4: 2011+A1:2014)	Alarm systems - Part 4: Electromagnetic compatibility; Product family standard: Immunity requirements for components of fire, intruder and social alarm systems	
EMC	DIN EN 50293: 2013 (EN 50293:2012)	Road traffic signal systems - Electromagnetic compatibility	
EMC	DIN EN 50412-2-1:2006 (EN 50412-2-1: 2005)	Power line communication apparatus and systems used in low-voltage installations in the frequency range 1,6 MHz to 30 MHz - Part 2-1: Residential, commercial and industrial environment - Immunity requirements	

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EMC	DIN EN 50491-5-1:2010 (EN 50491-5-1: 2010)	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-1: EMC requirements, conditions and test set-up	
EMC	DIN EN 50491-5-2: 2010 (EN 50491-5-2: 2010)	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-2: EMC requirements for HBES/BACS used in residential, commercial and light industry environment	
EMC	DIN EN 50491-5-3: 2010 (EN 50491-5-3:2010)	General requirements for Home and Building Electronic Systems (HBES) and Building Automation and Control Systems (BACS) - Part 5-3: EMC requirements for HBES/BACS used in industry environment	
EMC	DIN EN 50561-1: 2014 (EN 50561-1: 2013)	Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics - Limits and methods of measurement - Part 1: Apparatus for in-home use	
EMC	CISPR 11:2016 +A1:2017 +A2:2019 CISPR 11:2024	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	Only 3m, 10m distance, without SAC
EMC	DIN EN 55011:2022 (EN 55011:2016 + A1:2017 + A11:2020 + A2:2021)	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2015,modifiziert+ A1:2016 + A2:2019)	Only 3m, 10m distance
EMC	CISPR 14-1:2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	Without IEC 61000-4-20 (TEM waveguides) and IEC 61000-4-22 (FAR)

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EMC	DIN EN IEC 55014-1:2022 (EN IEC 55014-1:2021)	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1:2020)	Without IEC 61000-4-20 (TEM waveguides) and IEC 61000-4-22 (FAR)
EMC	CISPR 14-2:2020	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	Without IEC 61000-4-22 (FAR) and IEC 61000-4-20 (TEM)
EMC	DIN EN IEC 55014-2:2022 (EN IEC 55014-2:2021)	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard (CISPR 14-2:2020)	Without IEC 61000-4-22 (FAR) and IEC 61000-4-20 (TEM)
EMC	CISPR 15:2018+ ISH1:2019 + AMD1:2024	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment	
EMC	DIN EN IEC 55015:2020 (EN IEC 55015:2019 +A11:2020)	Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment (CISPR 15:2018 + ISH1:2019)	
EMC	CISPR 16-2-1:2014 + AMD1:2017	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	
EMC	CISPR 16-2-3:2016 + A1:2019 + AMD2:2023	Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements	Without FAR, TEM waveguide and Reverberation chamber
EMC	DIN EN 55016-2-3:2020 (EN 55016-2-3: 2017 + A1:2019)	Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements (CISPR 16-2-3:2016 + A1:2019)	Without FAR, TEM waveguide and Reverberation chamber

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EMC	CISPR 22:2008	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	
EMC	DIN EN 55022:2011 (EN 55022:2010)	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement (CISPR 22:2008, modifiziert)	
EMC	CISPR 24:2010 + Cor.:2011 + A1:2015	Information technology equipment - Immunity characteristics - Limits and methods of measurement	
EMC	DIN EN 55024:2016 (EN 55024:2010 + A1:2015)	Information technology equipment - Immunity characteristics - Limits and methods of measurement (CISPR 24:2010 + Cor.:2011 + A1:2015)	
EMC	CISPR 25:2002 + Corr 2004	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	
EMC	CISPR 25, Ed.4.0:2016 +COR1:2017	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	
EMC	CISPR 25:2021	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers	
EMC	DIN EN IEC 55025:2023 (EN IEC 55025:2022)	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of on-board receivers (CISPR 25:2021)	
EMC	CISPR 32:2015 + COR1:2016 + A1:2019	Electromagnetic compatibility of multimedia equipment - Emission requirements	Without FAR. Without "Home satellite receiving systems"

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EMC	DIN EN 55032:2022 (EN 55032:2015 + AC:2016 + A11:2020 + A1:2020)	Electromagnetic compatibility of multimedia equipment - Emission requirements (CISPR 32:2015 + COR1:2016 + A1:2019)	Without FAR. Without "Home satellite receiving systems"
EMC	CISPR 35:2016	Electromagnetic compatibility of multimedia equipment - Immunity requirements	Without IEC 61000-4-20 (TEM waveguides) Without IEC 61000-4-21 (Reverberation chamber) Without IEC 61000-4-22 (FAR)
EMC	DIN EN 55035:2018 (EN 55035:2017 + A11:2020)	Electromagnetic compatibility of multimedia equipment - Immunity requirements (CISPR 35:2016, modifiziert)	Without IEC 61000-4-20 (TEM waveguides) Without IEC 61000-4-21 (Reverberation chamber) Without IEC 61000-4-22 (FAR)
EMC	CISPR 36:2020 + AMD1:2023	Electric and hybrid electric road vehicles — Radio disturbance characteristics — Limits and methods of measurement for the protection of off-board receivers below 30 MHz	
EMC	DIN EN IEC 55036:2021 (EN IEC 55036:2020)	Electric and hybrid electric road vehicles — Radio disturbance characteristics — Limits and methods of measurement for the protection of off-board receivers below 30 MHz (CISPR 36:2020)	
EMC	DIN EN 55103-1:2013 (EN 55103-1:2009+A1: 2012)	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 1: Emissions;	

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EMC	DIN EN 55103-2:2010 (EN 55103-2:2009)	Electromagnetic compatibility - Product family standard for audio, video, audio-visual and entertainment lighting control apparatus for professional use - Part 2: Immunity	
EMC	IEC 60146-1-1:2009	Semiconductor converters - General requirements and line commutated converters - Part 1-1: Specification of basic requirements	Only Annex A "Harmonics and interharmonics"
EMC	DIN EN 60146-1-1: 2011 (EN 60146-1-1:2010)	Semiconductor converters - General requirements and line commutated converters - Part 1-1: Specification of basic requirements (IEC 60146-1-1:2009)	Only Annex A "Harmonics and interharmonics"
EMC	IEC 60335-1:2020	Household and similar electrical appliances Safety - Part 1: General requirements	Only chapter 19.11.4
EMC	IEC 61000-3-2: 2018 + AMD1:2020 +AMD2:2024	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
EMC	DIN EN IEC 61000-3-2:2023 (EN IEC 61000-3-2:2019 + A1:2021)	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) (IEC 61000-3-2:2018+A1:2020+ ISH1:2021)	
EMC	IEC 61000-3-3:2013+ A1:2017+A2:2021	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	
EMC	DIN EN 61000-3-3:2023 (EN 61000-3-3:2013 + A1:2019 + A2:2021 + A2:2021/AC:2022)	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013 + A1:2017 + A2:2021+A2:2021/COR1:2022)	

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EMC	IEC 61000-3-11: 2017	Electromagnetic compatibility (EMC) - Part 3-11: Limits; Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems; Equipment with rated current ≤ 75 A and subject to conditional connection	
EMC	DIN EN IEC 61000-3-11:2021 (EN IEC 61000-3-11: 2019)	Electromagnetic compatibility (EMC) - Part 3-11: Limits; Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems; Equipment with rated current ≤ 75 A and subject to conditional connection (IEC 61000-3-11:2017)	
EMC	IEC 61000-3-12:2011 + AMD:2021	Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase	
EMC	DIN EN 61000-3-12:2012 (EN 61000-3-12:2011)	Electromagnetic compatibility (EMC) - Part 3-12: Limits - Limits for harmonic currents produced by equipment connected to public low-voltage systems with input current > 16 A and ≤ 75 A per phase (IEC 61000-3-12:2011)	
EMC	IEC 61000-5-7: 2001	Electromagnetic compatibility (EMC) - Part 5-7: Installation and mitigation guidelines; Degrees of protection provided by enclosures against electromagnetic disturbances (EM-code)	
EMC	DIN EN 61000-5-7: 2001 (EN 61000-5-7:2001)	Electromagnetic compatibility (EMC) - Part 5-7: Installation and mitigation guidelines; Degrees of protection provided by enclosures against electromagnetic disturbances (EM-code) (IEC 61000-5-7:2001)	
EMC	IEC 61131-2:2017	Industrial-process measurement and control — Programmable controllers — Part 2: Equipment requirements and tests	Only Sec 6.2 and 7

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EMC	DIN EN 61131-2:2008 (EN 61131-2:2007)	Industrial-process measurement and control — Programmable controllers — Part 2: Equipment requirements and tests (IEC 61131-2:2007)	Only Sec 6.4, 8 and 9
EMC	IEC 61204-3:2016	Low-voltage power supplies DC output - Part 3: Electromagnetic compatibility (EMC)	
EMC	DIN EN IEC 61204-3: 2018 (EN IEC 61204-3:2018)	Low-voltage power supplies DC output - Part 3: Electromagnetic compatibility (EMC) (IEC 61204-3:2016)	
EMC	IEC 61326-1: 2020	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements	
EMC	DIN EN IEC 61326-1:2022 (EN IEC 61326-1:2021)	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements (IEC 61326-1:2020)	
EMC	IEC 61326-2-1:2020	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-1: Particular requirements – Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications	
EMC	DIN EN IEC 61326-2-1:2022 (EN IEC 61326-2-1:2021)	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-1: Particular requirements – Test configurations, operational conditions and performance criteria for sensitive test and measurement equipment for EMC unprotected applications (IEC 61326-2-1:2020)	

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EMC	IEC 61326-2-2:2020	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems	
EMC	DIN EN IEC 61326-2-2:2022 (EN IEC 61326-2-2:2021)	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-2: Particular requirements – Test configurations, operational conditions and performance criteria for portable test, measuring and monitoring equipment used in low-voltage distribution systems (IEC 61326-2-2:2020)	
EMC	IEC 61326-2-3: 2020	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-3: Particular requirements – Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning	
EMC	DIN EN IEC 61326-2-3:2022 (EN IEC 61326-2-3:2021)	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-3: Particular requirements – Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning (IEC 61326-2-3:2020)	
EMC	IEC 61326-2-4:2020	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-4: Particular requirements – Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9	

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EMC	DIN EN IEC 61326-2-4:2022 (EN IEC 61326-2-4:2021)	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-4: Particular requirements – Test configurations, operational conditions and performance criteria for insulation monitoring devices according to IEC 61557-8 and for equipment for insulation fault location according to IEC 61557-9 (IEC 61326-2-4:2020)	
EMC	IEC 61326-2-5: 2020	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1	
EMC	DIN EN IEC 61326-2-5:2022 (EN IEC 61326-2-5:2021)	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations, operational conditions and performance criteria for field devices with field bus interfaces according to IEC 61784-1 (IEC 61326-2-5:2020)	
EMC	IEC 61326-3-1:2017	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications	
EMC	DIN EN 61326-3-1: 2018 (EN 61326-3-1:2017)	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications (IEC 61326-3-1:2017)	

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EMC	IEC 61326-3-2:2017	Electrical equipment for measurement, control and laboratory use - EMC requirements - 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	
EMC	DIN EN IEC 61326-3-2: 2019 (EN IEC 61326-3-2:2018)	Electrical equipment for measurement, control and laboratory use - EMC requirements - 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 (IEC 61326-3-2:2017)	
EMC	IEC 61496-1:2020	Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests	Only section 4.3.2
EMC	DIN EN IEC 61496-1:2021 (EN IEC 61496-1:2020)	Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests (IEC 61496-1:2020)	Only section 4.3.2
EMC	IEC 61547:2020	Equipment for general lighting purposes - EMC immunity requirements	
EMC	DIN EN IEC 61547:2023 (EN IEC 61547:2023)	Equipment for general lighting purposes - EMC immunity requirements (IEC 61547:2020)	
EMC	IEC 61587-3:2013	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 - Part 3: Electromagnetic shielding performance tests for cabinets, racks and subracks	
EMC	DIN EN 61587-3:2013 (EN 61587-3: 2013)	Mechanical structures for electronic equipment - Tests for IEC 60917 and IEC 60297 - Part 3: Electromagnetic shielding performance tests for cabinets, racks and subracks (IEC 61587-3:2013)	

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EMC	IEC 61800-3:2022	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods	Without PDS of rated voltage above 1000 V
EMC	DIN EN IEC 61800-3:2024 (EN IEC 61800-3:2023)	Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods (IEC 61800-3:2022)	Without PDS of rated voltage above 1000 V
EMC	IEC 61850-3:2014	Communication networks and systems for power utility automation – Part 3: General requirements	Only chapter 6.7 EMC
EMC	DIN EN 61850-3:2014 (EN 61850-3:2014)	Communication networks and systems for power utility automation – Part 3: General requirements (IEC 61850-3:2013)	Only chapter 6.7 EMC
EMC	IEC 61851-1:2010	Electric vehicle conductive charging system - Part 1: General requirements	Only chapter 11.12 EMC
EMC	DIN EN 61851-1:2012 (EN 61851-1:2011)	Electric vehicle conductive charging system - Part 1: General requirements (IEC 61851-1:2010)	Only chapter 11.12 EMC
EMC	IEC 61851-21:2001	Electrical equipment of electric road vehicles - Electric vehicles conductive charging system - Part 2-1: Electric vehicle requirements for conductive connection to an a.c./d.c. supply	Only chapter 9 EMC
EMC	DIN EN 61851-21:2002 (EN 61851-21:2002)	Electrical equipment of electric road vehicles - Electric vehicles conductive charging system - Part 2-1: Electric vehicle requirements for conductive connection to an a.c./d.c. supply (IEC 61851-21:2001)	Only chapter 9 EMC
EMC	IEC 61851-21-1:2017	Electric vehicle conductive charging systems - Part 21-1: Electric vehicle onboard charger EMC requirements for conductive connection to an a.c./d.c. supply	
EMC	DIN EN 61851-21-1: 2018 (EN 61851-21-1 :2017 + AC:2017)	Electric vehicle conductive charging systems - Part 21-1: Electric vehicle onboard charger EMC requirements for conductive connection to an a.c./d.c. supply (IEC 61851-21-1:2017)	

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EMC	IEC 61851-21-2:2018	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems	
EMC	DIN EN IEC 61851-21-2:2021 (EN IEC 61851-21-2:2021)	Electric vehicle conductive charging system - Part 21-2: Electric vehicle requirements for conductive connection to an AC/DC supply - EMC requirements for off board electric vehicle charging systems (IEC 61851-21-2:2018)	
EMC	IEC 61851-22:2001	Electric vehicle conductive charging system - Part 22: AC electric vehicle charging station / Applies in conjunction with IEC 61851-1 (2001-01)	Only chapter 11.3 EMC
EMC	DIN EN 61851-22:2002 (EN 61851-22:2002)	Electric vehicle conductive charging system - Part 22: AC electric vehicle charging station / Applies in conjunction with IEC 61851-1 (IEC 61851-22:2001)	Only chapter 11.3 EMC
EMC	IEC 62040-2:2016	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements	Max. current 3x 125 A
EMC	DIN EN IEC 62040:2019 (EN IEC 62040-2: 2018)	Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements (IEC 62040-2:2016)	Max. current 3x 125 A
EMC	IEC 62301:2011	Household electrical appliances - Measurement of standby power	
EMC	ITU-T K.20:2019-11	Resistibility of telecommunication equipment installed in a telecommunication centre to overvoltages and overcurrents	Without pulse > 10 kA 8/20µs Without Test No. 7.3 (USB shielded cable to earth)

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EMC	ITU-T K.21: 2019 + A1:2020	Resistibility of telecommunication equipment installed in customer premises to overvoltages and overcurrents	Without pulse > 10 kA 8/20µs Without Test No. 7.3 (USB shielded cable to earth) Without Test 13 kV (10/700µs) acc. Annex A
EMC	ITU-T K.43:2009	Immunity requirements for telecommunication equipment	
EMC	ITU-T K.44:2019	Resistibility tests for telecommunication equipment exposed to overvoltages and overcurrents – Basic Recommendation	Without pulse > 10 kA 8/20µs Without Test No. 7.3 (USB shielded cable to earth)
EMC	ITU-T K.45:2019 +A1:2020	Resistibility of telecommunication equipment installed in the access and trunk networks to overvoltages and overcurrents	Without pulse > 10 kA 8/20µs Without Test 13 kV (10/700µs) acc. Annex A
EMC	ITU-T K.48:2006	EMC requirements for each telecommunication network equipment - Product family Recommendation	
EMC	ITU-T K.54:2004	Conducted immunity test method and level at fundamental power frequencies	
EMC	VdS 2110:2017	Guidelines for Intrusion Alarm Systems; Protection Against Environmental Influences; Requirements and Test Methods	Only chapter 5.1.6, EMC
EMC	VdS 2115:2015	Guidelines for Intrusion Alarm Systems and Power Supplies; Requirements and Test Methods	Only chapter 16, EMC
EMC	VdS 2195 :2001	Guidelines for Intrusion Alarm Systems, Class A Power Supply Units, Requirements	Only chapter I 5.5, EMC

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1.4 EMC for radio equipment and services (RED Art. 3.1b and Art. 3.2)			
EMC	ETSI EN 301 489-1 V2.1.1: 2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU	
EMC	ETSI EN 301 489-1 V2.2.3: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for Electromagnetic Compatibility	
EMC	ETSI EN 301 489-3 V2.1.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-4 V3.2.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-4 V3.3.1: 2021	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 4: Specific conditions for fixed radio links and ancillary equipment; Harmonised Standard for Electro Magnetic Compatibility	

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EMC	ETSI EN 301 489-6 V2.2.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-7 V1.3.1: 2005	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS)	Limited to Emission tests Chapter 7.1
EMC	ETSI EN 301 489-17 V3.1.1: 2017	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-17 V3.2.4: 2020	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for Electromagnetic Compatibility	
EMC	ETSI EN 301 489-19 V2.1.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications and GNSS receivers operating in the RNSS band (ROGNSS) providing positioning, navigation, and timing data; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	

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EMC	ETSI EN 301 489-24 V1.5.1: 2019	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA and E-UTRA) for Mobile and portable (UE) radio and ancillary equipment	Limited to Emission tests Chapter 7.1
EMC	ETSI EN 301 489-25 V2.3.2: 2005	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 25: Specific conditions for CDMA 1x spread spectrum Mobile Stations and ancillary equipment	Limited to Emission tests Chapter 7.1
EMC	ETSI EN 301 489-34 V1.4.1: 2013	Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones	
EMC	ETSI EN 301 489-34 V2.1.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 34: Specific conditions for External Power Supply (EPS) for mobile phones; Harmonised Standard covering the essential requirements of article 6 of Directive 2014/30/EU	
EMC	ETSI EN 301 489-35 V2.2.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 35: Specific requirements for Low Power Active Medical Implants (LP-AMI) operating in the 2 483,5 MHz to 2 500 MHz bands; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	The use of a simulated man is necessary (must be provided by customer)

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EMC	ETSI EN 301 489-50 V2.2.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-50 V2.3.1: 2021	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment; Harmonised Standard for Electromagnetic Compatibility	Performance Assessment limited to repeaters and ancillary equipment: Chapter 5.7, 5.8 Performance Criteria limited to repeaters and ancillary equipment: Chapter 6.1.2, 6.2.1 Repeaters
EMC	ETSI EN 301 489-51 V2.1.1: 2019	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 51: Specific conditions for Automotive, ground based Vehicles and Surveillance Radar Devices using 24,05 GHz to 24,25 GHz, 24,05 GHz to 24,5 GHz, 76 GHz to 77 GHz and 77 GHz to 81 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	
EMC	ETSI EN 301 489-52 V1.2.1 (2021-11)	Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication User Equipment (UE) radio and ancillary equipment; Harmonised Standard for Electromagnetic Compatibility	
EMC	ETSI EN 303 687 V1.1.1 (2023-06)	6 GHz WAS/RLAN; Harmonised Standard for access to radio spectrum	Limited to Chapter 5.4.5 and 5.4.7

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1.5 Telecommunication (TC)			
TC	ETSI EN 300 220-1 V3.1.1: 2017	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 1: Technical characteristics and methods of measurement	
TC	ETSI EN 300 220-2 V3.2.1: 2018	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard for access to radio spectrum for non specific radio equipment	
TC	ETSI EN 300 220-2 V3.1.1: 2017	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU for non specific radio equipment	
TC	ETSI EN 300 220-3-1 V2.1.1: 2016	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-1: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Low duty cycle high reliability equipment, social alarms equipment operating on designated frequencies (869,200 MHz to 869,250 MHz)	
TC	ETSI EN 300 220-3-2 V1.1.1: 2017	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 3-2: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Wireless alarms operating in designated LDC/HR frequency bands 868,60 MHz to 868,70 MHz, 869,25 MHz to 869,40 MHz, 869,65 MHz to 869,70 MHz	
TC	ETSI EN 300 220-4 V1.1.1: 2017	Short Range Devices (SRD) operating in the frequency range 25 MHz to 1 000 MHz; Part 4: Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU; Metering devices operating in designated band 169,400 MHz to 169,475 MHz	

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TC	ETSI EN 300 328 V2.1.1:2016	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz ISM band and using wide band modulation techniques; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TC	ETSI EN 300 328 V2.2.2:2019	Wideband transmission systems; Data transmission equipment operating in the 2,4 GHz band; Harmonised Standard for access to radio spectrum	
TC	ETSI EN 300 330 V2.1.1:2017	Short Range Devices (SRD); Radio equipment in the frequency range 9 kHz to 25 MHz and inductive loop systems in the frequency range 9 kHz to 30 MHz; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TC	ETSI EN 300 440 V2.2.1:2018	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard for access to radio spectrum	fmax = 40 GHz
TC	ETSI EN 300 440 V2.1.1:2017	Short Range Devices (SRD); Radio equipment to be used in the 1 GHz to 40 GHz frequency range; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
TC	ETSI EN 301 406 V2.2.2:2016	Digital Enhanced Cordless Telecommunications (DECT); Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	Only chapter 5.3.6.5.1 for radiated emissions
TC	ETSI EN 301 502 V12.5.2:2017	Global System for Mobile communications (GSM); Base Station (BS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Only chapter 5.3.16 for radiated spurious emissions

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TC	ETSI EN 301 511 V12.5.1:2017	Global System for Mobile communications (GSM); Mobile Stations (MS) equipment; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Only chapter 5.3.16 to 5.3.19 for radiated spurious emissions
TC	ETSI EN 301 893 V2.1.1:2017	5 GHz RLAN; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Without clauses 5.4.8 and 5.4.9
TC	ETSI EN 301 908-1 V13.1.1: 2019	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements	Only chapter 5.3.1 and 5.3.2 for radiated emission
TC	ETSI EN 301 908-1 V15.1.1: 2021	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements Release 15	Only chapter 5.3.1 and 5.3.2 for radiated emission
TC	ETSI EN 302 208 V3.1.1:2016	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU	
TC	ETSI EN 302 208 V3.3.1:2020	Radio Frequency Identification Equipment operating in the band 865 MHz to 868 MHz with power levels up to 2 W and in the band 915 MHz to 921 MHz with power levels up to 4 W; Harmonised Standard for access to radio spectrum	
TC	ETSI EN 303 413 V1.1.1:2017	Satellite Earth Stations and Systems (SES); Global Navigation Satellite System (GNSS) receivers; Radio equipment operating in the 1 164 MHz to 1 300 MHz and 1 559 MHz to 1 610 MHz frequency bands; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	Only chapter 5.5 for receiver spurious emission

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TC	ETSI EN 303 417 V1.1.1:2017	Wireless power transmission systems, using technologies other than radio frequency beam in the 19 - 21 kHz, 59 - 61 kHz, 79 - 90 kHz, 100 - 300 kHz, 6 765 - 6 795 kHz ranges; Harmonised Standard covering the essential requirements of article 3.2 of Directive 2014/53/EU	
1.6 EMF/EMVU			
EMC (EMF)	BGV B 11 DGUV VORSCHRIFT 15: 2001	BG Regulation - Electromagnetic Fields	H-field: 0 Hz to 1 GHz E-field: 1 Hz to 50 GHz Measurements of field strength and flux density values according to EN 50413
EMC (EMF)	DIN EN 50413:2020 (EN 50413:2019)	Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz)	Only chapter 5.2 "EM field measurement" H-Field: 0 Hz to 1 GHz E-Field: 1 Hz to 50 GHz
EMC (EMF)	DIN EN 50364:2019 (EN 50364:2018)	Product standard for human exposure to electromagnetic fields from devices operating in the frequency range 0 Hz to 300 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications	Only measurement of electric and magnetic fields acc to EN 62369-1:2009, Section 4.2: H-Field: 0 Hz to 1 GHz E-Field: 1 Hz to 50 GHz
EMC (EMF)	DIN EN 50663:2017 (EN 50663:2017)	Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (IEC 62479:2010, modified)	Refers to DIN EN 62479:2011 for technical aspects
EMC (EMF)	DIN EN 50665:2019 (EN 50665:2017)	Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	To max. 50 GHz

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EMC (EMF)	DIN EN 62233:2008 (EN 62233:2008)	Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure (IEC 62233:2005, modified)	• Only test method acc. to chapt. 5.5.2 • Without measurement of individual coupling factor acc. to annex C • Measurement with coupling factor acc. to Table D.3 is possible
EMC (EMF)	IEC 62493:2015 + AMD1:2022	Assessment of lighting equipment related to human exposure to electromagnetic fields	No assessment of Lighting equipment with intentional radiators that have to be assessed according to EN 62209-2 or EN 62232 (not accredited).
EMC (EMF)	DIN EN 62493:2024 (EN 62493:2015 + A1:2022)	Assessment of lighting equipment related to human exposure to electromagnetic fields (IEC 62493:2015)	No assessment of Lighting equipment with intentional radiators that have to be assessed according to EN 62209-2 or EN 62232 (not accredited).

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EMC (EMF)	IEC 62311:2020	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)	Only the following assessment methods: • Simplified assessment acc. to IEC 62479 (low power device) • Measurement of E and H resp. B
EMC (EMF)	DIN EN IEC 62311:2020 (EN IEC 62311:2020)	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) (IEC 62311:2019)	N Only the following assessment methods: • Simplified assessment acc. to IEC 62479 (low power device) • Measurement of E and H resp. B
EMC (EMF)	IEC 62369-1: 2008	Evaluation of human exposure to electromagnetic fields from short range devices (SRDs) in various applications over the frequency range 0 GHz to 300 GHz - Part 1: Fields produced by de-vices used for electronic article surveillance, radio frequency identification and similar systems	Without chapter 4.3, 4.4, 4.5, 4.6 H-Field: 0 Hz to 1 GHz E-Field: 1 Hz to 50 GHz
EMC (EMF)	DIN EN 62369-1:2010 (EN 62369-1:2009)	Evaluation of human exposure to electromagnetic fields from short range devices (SRDs) in various applications over the frequency range 0 GHz to 300 GHz - Part 1: Fields produced by de-vices used for electronic article surveillance, radio frequency identification and similar systems (IEC 62369-1:2008)	Without chapter 4.3, 4.4, 4.5, 4.6 H-Field: 0 Hz to 1 GHz E-Field: 1 Hz to 50 GHz
EMC (EMF)	IEC 62479:2010	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)	

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EMC (EMF)	DIN EN 62479:2011 (EN 62479:2010)	Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz) (IEC 62479:2010, modified)	
1.7 Railway			
EMC	DIN EN 50121-3-2:2016 + A1:2020 (EN 50121-3-2:2016 + A1:2019)	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock - Apparatus	
EMC	DIN EN 50121-4:2017 +A1:2020 (EN 50121-4:2016 +A1:2019)	Railway applications - Electromagnetic compatibility - Part 4: Emission and immunity of the signalling and telecommunications apparatus	
EMC	DIN EN 50121-5:2017 + A1:2020 (EN 50121-5:2017 + A1:2019)	Railway applications - Electromagnetic compatibility - Part 5: Emission and immunity of fixed power supply installations and apparatus	
EMC	DIN EN 50155:2022 (EN 50155:2021)	Railway applications - Rolling stock - Electronic equipment	Only chapter 13.4.1 – 13.4.3 and 13.4.9
EMC	IEC 62236-3-2 :2018	Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock – Apparatus	
EMC	Regelung Nr. EMC 06:2019	Technical Rules on Electromagnetic Compatibility: Demonstration of Radio Compatibility of Rail Vehicles with Railway Radio Services	Only Section 6 and Annex E as well as Partial Absorber Chamber
1.8 Automotive			
EMC	DIN EN 12895: 2020 (EN 12895:2015 +A1:2019)	Industrial trucks - Electromagnetic compatibility.	
EMC	DIN EN 13309:2010 (EN 13309:2010)	Construction machinery - Electromagnetic compatibility of machines with internal power supply	
EMC	DIN EN 15194:2024 (EN 15194:2017 + A1:2023)	Cycles - Electrically power assisted cycles - EPAC Bicycles	Only chapter 4.2.15 EMC

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EMC	ISO 13766-1: 2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions	
EMC	DIN EN ISO 13766-1:2019 (EN ISO 13766-1:2018)	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 1: General EMC requirements under typical electromagnetic environmental conditions (ISO 13766-1:2018)	
EMC	ISO 13766-2:2018	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 2: Additional EMC requirements for functional safety	
EMC	DIN EN ISO 13766-2:2018 (EN ISO 13766-2:2018)	Earth-moving and building construction machinery - Electromagnetic compatibility (EMC) of machines with internal electrical power supply - Part 2: Additional EMC requirements for functional safety (ISO 13766-2:2018)	
EMC	ISO 14982:1998	Agricultural and forestry machines - Electromagnetic compatibility - Test methods and acceptance criteria	
EMC	DIN EN ISO 14982:2009 (EN ISO 14982:2009)	Agricultural and forestry machines - Electromagnetic compatibility - Test methods and acceptance criteria (ISO 14982:1998)	
EMC	ISO/FDIS 14982-1:2025	Agricultural and forestry machinery — Electromagnetic compatibility - Part 1: General EMC requirements	
EMC	ISO/FDIS 14982-2:2025	Agricultural and forestry machinery — Electromagnetic compatibility - Part 2: Additional EMC requirements for functional safety	

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EMC	CISPR 12:2001 + A1:2005	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers	No boats
EMC	CISPR 12:2007 + A1:2009	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers	No boats
EMC	DIN EN 55012:2010 (EN 55012:2007+A1:2009)	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers (IEC/CISPR 12:2007 + A1:2009)	No boats
EMC	DIN EN 50498:2011 (EN 50498:2010)	Electromagnetic compatibility (EMC) - Product family standard for aftermarket electronic equipment in vehicles	
EMC	ECE R 10 Rev. 3, 4, 5, 6 2005/2012/ 2014/2019	Regulation No 10 of the Economic Commission for Europe of the United Nations (UN/ECE) – Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility	
EMC	ECE R 10 Rev. 07	Regulation No 10 of the Economic Commission for Europe of the United Nations (UN/ECE) – Uniform provisions concerning the approval of vehicles with regard to electromagnetic compatibility	Without Reverberation chamber Test acc. ISO 11452-11 and OTS (Outdoor Test Site). ACES (Accident Emergency Call System) must be provided by customer

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EMC	VO (EU) 44/2014	COMMISSION DELEGATED REGULATION (EU) No 44/2014 of 21 November 2013 supplementing Regulation (EU) No 168/2013 of the European Parliament and of the Council with regard to the vehicle construction and general requirements for the approval of two- or three-wheel vehicles and quadricycles	Only annex VII
EMC	VO (EU) 2015/208	COMMISSION DELEGATED REGULATION (EU) 2015/208 of 8 December 2014 supplementing Regulation (EU) No 167/2013 of the European Parliament and of the Council with regard to vehicle functional safety requirements for the approval of agricultural and forestry vehicles	Only annex XV, parts 3-5 and parts 6-8
EMC	VO (EU) 2018/829	COMMISSION DELEGATED REGULATION (EU) 2018/829 of 15 February 2018 amending and correcting Delegated Regulation (EU) 2015/208 supplementing Regulation (EU) No 167/2013 of the European Parliament and of the Council with regard to vehicle functional safety requirements for the approval of agricultural and forestry vehicles	Only annex XV, parts 3-5 and parts 6-8
EMC	ISO 7637-2:2004	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only	
EMC	ISO 7637-2:2011	Road vehicles - Electrical disturbances from conduction and coupling - Part 2: Electrical transient conduction along supply lines only	
EMC	ISO 7637-3:2016	Road vehicles - Electrical disturbances from conduction and coupling - Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines	
EMC	ISO/DTS 7637-4:2020-01	Road Vehicles – Electrical disturbances by conduction and coupling – Part 4: Electrical transient conduction along shielded high voltage supply lines only	

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EMC	ISO 10605:2008 + Corr 1:2010 + AMD1:2014 ISO 10605:2023	Road vehicles — Test methods for electrical disturbances from electrostatic discharge	
EMC	ISO 11451-2:2015	Road vehicles-electrical disturbances by narrow- band radiated electromagnetic energy - vehicle test methods, Part 2: Off-vehicle radiation source	Testlevel II below 40 MHz Testlevel IV above 40 MHz
EMC	ISO 11451-4:2013	Road vehicles-electrical disturbances by narrow- band radiated electromagnetic energy - vehicle test methods, Part 4: Bulk current injection (BCI)	
EMC	ISO 11451-4:2022	Road vehicles - Vehicle test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Harness excitation methods	Without TWC test method
EMC	ISO 11452-2: 2004	Road vehicles- Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2: Absorber-lined shielded enclosure	
EMC	ISO 11452-2:2019	Road vehicles- Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 2: Absorber-lined shielded enclosure	
EMC	ISO 11452-3:2024	Road vehicles-electrical disturbances by narrow-band radiated electromagnetic energy-component test methods, Part 3: Transverse electromagnetic mode (TEM) cell	
EMC	ISO 11452-4:2011	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Harness excitation methods	
EMC	ISO 11452-4:2020	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 4: Harness excitation methods	

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EMC	ISO 11452-5:2002	Road vehicles - Component test methods for electrical disturbances by narrowband radiated electromagnetic energy - Part 5: Stripline	
EMC	ISO 11452-8:2015	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 8: Immunity to magnetic fields	
EMC	ISO 11452-9:2021	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 9: Portable transmitters	
EMC	ISO 11452-10:2009	Road vehicles - Component test methods for electrical disturbances from narrowband radiated electromagnetic energy - Part 10: Immunity to conducted disturbance in the extended audio frequency range	
EMC	ISO 16750-2:2023	Road vehicles — Environmental conditions and testing for electrical and electronic equipment Part 2: Electrical loads	
1.9 Automotive - Manufacturer			
EMC	LV124:2013	Electrical and electronic components in motor vehicles up to 3,5t – Allgemeine General requirements, test conditions and tests	
EMC	LV148:2013	Electric and Electronic Components in Motor Vehicles - 48V On-Board Electrical System Requirements and Test Conditions	
EMC	BMW Group Standard GS 95002-2: 2021-05	Motor vehicles – Electromagnetic Compatibility (EMC) – Requirements and tests on components	Without test chap. 8.5 (SYNF) acc to IEC 61000-4-19
EMC	BMW Group Standard GS 95002-3: 2015-12	Motor vehicles – Electromagnetic Compatibility (EMC) – Requirements and tests on components up to 60 V nominal voltage	Test HV_TI01: Pulse HV1 not available, replaced by burst pulse acc. to EN 61000-4-4

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EMC	BMW Group Standard GS 95002-5: 2015-03	Motor vehicles – Electromagnetic Compatibility (EMC) - General requirements and tests in the frequency range 9 kHz to 30 MHz	
EMC	BMW Group Standard GS 95024-2-1: 2010-01	Electrical and Electronic Components in Motor Vehicles; Electrical Requirements and Tests	
EMC	BMW Group Standard GS 95024-2-2: 2011-02	Electrical and Electronic Components in Motor Vehicles; Electrical Requirements and Tests; additional Requirements and Tests	
EMC	BMW Group Standard GS 95025-1: 2012-05	Motor vehicles; Environmental requirements for electric and electronic equipment; EMC characteristics	Without EQ/CI_02 Test HV_TI01: Pulse HV1 not available, replaced by burst pulse acc. to EN 61000-4-4
EMC	BMW Group Standard GS 95024-2: 2021-03	Electrical and electronic components in motor vehicles – Electrical requirements and tests in 12-V onboard electrical systems	
EMC	Volkswagen AG VW 80000: 2022-12	Electric and Electronic Components in Motor Vehicles up to 3.5 t - General Requirements, Test Conditions, and Tests	Electrical tests only (chap. 5.4)
EMC	Volkswagen AG VW 82148: 2013-09	Electrical and electronic components in motor vehicles; 48V electrical system; Requirements and tests	

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EMC	Volkswagen AG VW TL 81000: 2024-06	Electromagnetic Compatibility of Automotive Electronic Components	Components only / Test acc. to chap. 5.5.3.2 not possible/ Test acc. to chap. 5.5.5: Surge: Test only possible acc. to IEC 61000-4-5, Surge acc. to SAE J 2894/1, 6 kV-ANSI-Standard C62.41 and C62.45 level 6 kV is not possible // Test acc. to chap. 5.5.6.5: Surge: Test only possible acc. to IEC 61000-4-5, Surge acc. to SAE J 2894/1, 6 kV-ANSI-Standard C62.41 and C62.45 level 6 kV is not possible
EMC	M 3285:2017-07	Electromagnetic compatibility (EMC) in MAN commercial vehicles	Excluding Chapter 7 (Vehicles) and 9.3 (NEMP)

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EMC	Mercedes-Benz MBN 10284-2: 2019-10	EMC-requirements — Component Tests (Passenger Cars and Vans)	NFA-Test: Original antennas or replacement antennas not available. For ICNIRP B test only test 1 and 2 possible, test 3 not feasible. ICNIRP I test is not feasible. CRC test not possible, as no Mode swirl Chamber available. Data format: JSON according to Annex B (normative) for ICNIRP I Test is not available.
EMC	Mercedes Benz MBN 10284-3: 2020-05	Electromagnetic compliance – Additional high voltage requirements	Only chapter 8 in scope: For 8.8 (ICNIPR-B) only test 2 possible (evaluation acc. to 1998 General Public), 8.9 (ICNIRP-I) not possible, 8.16 (CRC test) not possible
EMC	Daimler AG MBN 10284-4: 2017-07	EMC Performance Requirements – Component Tests (Commercial Vehicles and Buses)	

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EMC	Mercedes-Benz MBN 50284-2: 2023-02	EMC Requirements – Component Tests	NFA-Test: NFA-Test: Original antennas or replacement antennas not available. For CFME-B-Test only test 1 and 2 possible, test 3 not feasible. CFME-I-test not not feasible. No BLN-modulation for immunity-tests, but test with CW-modulation. CRC test not possible, as no Mode swirl Chamber available. Data format: JSON according to Annex B (normative) is not available.

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EMC	Mercedes-Benz MBN 50284-3: 2023-03	EMC Requirements – Supplemental Requirements, High Voltage and Charging (evaluation acc. to 1998 General Public), 8.9 (ICNIRP-I) not possible, 8.16 (CRC test) not possible	Only chap 8 in scope: For 8.10 (CMFE-B) only test 1 and 2 possible (evaluation acc. to 1998 General Public), 8.11 (CMFE-I) not possible --> refer to evaluation at MBN 50284-2 / 8.18 (CRC Test) not possible / 8.20 HV-TSUP: max. level 100 V possible // Annex D: normative test on drive shafts: not considered and not included in the scope
EMC	Mercedes-Benz MBN LV124-1: 2013-03	Electric and Electronic Components in Motor Vehicles up to 3,5t – General Requirements, Test Conditions and Tests – Part 1: Electrical Requirements and Tests, 12 V On-Board Electrical System.	
EMC	Mercedes-Benz MBN LV148: 2013-11	Electric and Electronic Components in Motor Vehicles - 48V On-Board Electrical System Requirements and Test Conditions	
EMC	Mercedes-Benz MBN 10567: 2024-01	Electric and Electronic Components in Motor Vehicles – 12 V On-Board Power Supply – Requirements and Tests	
EMC	Renault 36-00-808/--N: 2016	Resistance to electrical disturbances and electromagnetic compatibility instructions concerning electrical electronic and pyrotechnic equipment	Without EQ/IC_09, EQ/IC_11, EQ/MC_01 EQ/IR_05 only frequency range 360 MHz – 2.7 GHz
EMC	Hyundai KIA ES 96200-00, L 2014-06	Electromagnetic Compatibility Specification	Without test 4.4.6 Commercial transmitter

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EMC	Volvo STD 515-0003 2017-02	Parts and components Electromagnetic compatibility, EMC	Components only
EMC	Scania TB1901 2016-05	Technical Regulation Requirements and verification methods for electrical factors in a 24V system	Components only
EMC	BAPP, Teil 1 2017-10	Basic Requirements and Tests – ENBN 12V / Electrical and electronic systems in motor vehicles up to 3.5t – General requirements, test conditions and tests, Part 1	
EMC	VDA 320: 2014	Electric and Electronic Components in Motor Vehicles - 48V On-Board Power Supply - Requirements and Tests	
EMC	Nissan 28401NDS02- 8: 2016-03	Nissan design specification EMC specifications of electrical and electronic parts	
EMC	CS.00054: 2018-01 Fiat Chrysler Automobiles	GENERAL ELECTRICAL AND EMC PERFORMANCE REQUIREMENTS FOR E/E COMPONENTS	
1.10 Maritime Equipment			
EMC	IEC 60533: 2015	Electrical and electronic installations in ships - Electromagnetic compatibility	
EMC	IEC 60945:2002	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results	Only EMC (Chap. 7, 9, 10, 12.2 and 12.3)
EMC	DIN EN 60945: 2003 (EN 60945:2002)	Maritime navigation and radiocommunication equipment and systems - General requirements - Methods of testing and required test results (IEC 60945:2002)	Only EMC (Chap. 7, 9, 10, 12.2 and 12.3)
1.11 Airborne Equipment			
EMC	RTCA/DO-160D Section 15	Environmental Conditions and Test Procedures for Airborne Equipment - Magnetic Effect	
EMC	RTCA/DO-160D Section 16	Environmental Conditions and Test Procedures for Airborne Equipment - Power Input	No AC Equipment

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EMC	RTCA/DO-160D Section 17	Environmental Conditions and Test Procedures for Airborne Equipment – Voltage Spike	
EMC	RTCA/DO-160D Section 18	Environmental Conditions and Test Procedures for Airborne Equipment: Audio Frequency Conducted Susceptibility – Power Inputs	
EMC	RTCA/DO-160D Section 19	Environmental Conditions and Test Procedures for Airborne Equipment – Induced Signal Susceptibility	Without Section 19.3.4
EMC	RTCA/DO-160D Section 20	Environmental Conditions and Test Procedures for Airborne Equipment – Radio Frequency Susceptibility (Radiated and Conducted)	
EMC	RTCA/DO-160D Section 21	Environmental Conditions and Test Procedures for Airborne Equipment – Emission of Radio Frequency Energy	
EMC	RTCA/DO-160D Section 25	Environmental Conditions and Test Procedures for Airborne Equipment – Electrostatic Discharge (ESD)	
EMC	RTCA/DO-160E Section 15	Environmental Conditions and Test Procedures for Airborne Equipment - Magnetic Effect	
EMC	RTCA/DO-160E Section 16	Environmental Conditions and Test Procedures for Airborne Equipment - Power Input	No AC Equipment
EMC	RTCA/DO-160E Section 17	Environmental Conditions and Test Procedures for Airborne Equipment – Voltage Spike	
EMC	RTCA/DO-160E Section 18	Environmental Conditions and Test Procedures for Airborne Equipment: Audio Frequency Conducted Susceptibility – Power Inputs	
EMC	RTCA/DO-160E Section 19	Environmental Conditions and Test Procedures for Airborne Equipment – Induced Signal Susceptibility	Without Section 19.3.4
EMC	RTCA/DO-160E Section 20	Environmental Conditions and Test Procedures for Airborne Equipment – Radio Frequency Susceptibility (Radiated and Conducted)	

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EMC	RTCA/DO-160E Section 21	Environmental Conditions and Test Procedures for Airborne Equipment – Emission of Radio Frequency Energy	
EMC	RTCA/DO-160E Section 25	Environmental Conditions and Test Procedures for Airborne Equipment – Electrostatic Discharge (ESD)	
EMC	RTCA/DO-160F Section 15	Environmental Conditions and Test Procedures for Airborne Equipment - Magnetic Effect	
EMC	RTCA/DO-160F Section 16	Environmental Conditions and Test Procedures for Airborne Equipment - Power Input	Without 16.5, 16.7
EMC	RTCA/DO-160F Section 17	Environmental Conditions and Test Procedures for Airborne Equipment – Voltage Spike	
EMC	RTCA/DO-160F Section 18	Environmental Conditions and Test Procedures for Airborne Equipment: Audio Frequency Conducted Susceptibility – Power Inputs	
EMC	RTCA/DO-160F Section 19	Environmental Conditions and Test Procedures for Airborne Equipment – Induced Signal Susceptibility	Without Section 19.3.4
EMC	RTCA/DO-160F Section 20	Environmental Conditions and Test Procedures for Airborne Equipment – Radio Frequency Susceptibility (Radiated and Conducted)	
EMC	RTCA/DO-160F Section 21	Environmental Conditions and Test Procedures for Airborne Equipment – Emission of Radio Frequency Energy	
EMC	RTCA/DO-160F Section 25	Environmental Conditions and Test Procedures for Airborne Equipment – Electrostatic Discharge (ESD)	
EMC	RTCA/DO-160G Section 15	Environmental Conditions and Test Procedures for Airborne Equipment - Magnetic Effect	
EMC	RTCA/DO-160G Section 16	Environmental Conditions and Test Procedures for Airborne Equipment - Power Input	Without 16.5, 16.7

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EMC	RTCA/DO-160G Section 18	Environmental Conditions and Test Procedures for Airborne Equipment: Audio Frequency Conducted Susceptibility – Power Inputs	
EMC	RTCA/DO-160G Section 19	Environmental Conditions and Test Procedures for Airborne Equipment – Induced Signal Susceptibility	Without 19.3.5
EMC	RTCA/DO-160G Section 20	Environmental Conditions and Test Procedures for Airborne Equipment – Radio Frequency Susceptibility (Radiated and Conducted)	
EMC	RTCA/DO-160G Section 21	Environmental Conditions and Test Procedures for Airborne Equipment – Emission of Radio Frequency Energy	
EMC	RTCA/DO-160G Section 25	Environmental Conditions and Test Procedures for Airborne Equipment – Electrostatic Discharge (ESD)	
1.12 Military Equipment			
EMC	MIL-STD-461 Issues D	Requirements for the control of electromagnetic interference emission and susceptibility	Without: CE106, CS103, CS104, CS105, RE103 RS103 above 18 GHz; 30 – 200 MHz with 200 V/m in antenna method, RS105
EMC	MIL-STD-461 E	Requirements for the control of electromagnetic interference emission and susceptibility	Without: CE106, CS103, CS104, CS105, RE103 RS103 above 18 GHz; 30 – 200 MHz with 200 V/m in antenna method, RS105

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EMC	MIL-STD-461 F	Requirements for the control of electromagnetic interference emission and susceptibility	Without: CE106, CS103, CS104, CS105, CS106, RE103 RS103 above 18 GHz; 30 – 200 MHz with 200 V/m in antenna method, RS105
EMC	MIL-STD-461 G	Requirements for the control of electromagnetic interference emission and susceptibility	Without: CE106, CS103, CS104, CS105, CS106, CS117, RE103 RS103 above 18 GHz; 30 – 200 MHz with 200 V/m in antenna method, RS105
EMC	VG 95373-10: 2008	Electromagnetic Compatibility (EMC) - Electromagnetic Compatibility of Equipment - Part 10: Test procedure for conducted emissions (current)	
EMC	VG 95373-12: 2008	Electromagnetic Compatibility (EMC) - Electromagnetic Compatibility of Equipment - Part 12: Test procedures for radiated emissions	
EMC	VG 95373-13: 2008	Electromagnetic Compatibility (EMC) - Electromagnetic Compatibility of Equipment - Part 13: Test procedures for radiated susceptibility	Test range up to 18 GHz. GWK 2 from 200 MHz
EMC	VG 95373-14: 2008	Electromagnetic Compatibility (EMC) – Electromagnetic Compatibility of Equipment – Part 14: Test procedures for conducted susceptibility	
EMC	VG 95373 Part 15:2005	Electromagnetic compatibility - Electromagnetic compatibility of equipment - Part 15: Test methods for coupling and shielding	

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EMC	VG 96903 Part 76:2021	Nuclear electromagnetic pulse (NEMP) and lightning protection — Test methods, test equipment and limits — Part 76: Test with direct injection of a 1,2/50 μ s voltage pulse and a 8/20 μ s current pulse (Test method LF 76)	Max. 10 kV
1.13 Standards of foreign standardization organizations			
EMC	ANSI C 63.4-2014 + ANSI C63.4a:2017	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz	Measurements in GTEM Cell excluded; without chapter 12.3, 12.4
EMC (USA)	ASTM D4935-18: 2018	Limits and methods of measurement of radio disturbance characteristics of information technology equipment	
EMC (USA)	ATIS-0600315: 2013	Voltage Levels for dc-powered equipment used in the telecommunication environment	
EMC (USA)	GR-1089-CORE Issue 8:2022	Electromagnetic Compatibility and Electrical Safety - Generic Criteria for Network Telecommunications Equipment. Chapter 2, 3, 4, 5, 6, 10	No Surge and AC Faults on coax. cables
EMC (USA)	GR-3108-CORE: 2022	Generic Requirements for Network Equipment in the Outside Plant (OSP)	Only EMC relevant parts of section 5 (Electrical Requirements)
EMC (Canada)	CAN/CSA-CEI/IEC CISPR 11 :04 2013	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	Only 3m, 10m distance
EMC (Canada)	CAN/CSA-CISPR 12-10:2010	Vehicles, boats and internal combustion engines - Radio disturbance characteristics - Limits and methods of measurement for the protection of off-board receivers	No boats
EMC (Canada)	ICES-001 Issue 5: 2020	Industrial, Scientific and Medical (ISM) Radio Frequency Generators	

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EMC (Canada)	ICES-002 Issue 7: 2020	Vehicles, Boats and Other Devices Equipped with Internal Combustion Engine, Traction Batteries or Both	No boats
EMC (Canada)	ICES 003 Issue 7: 2020	Information Technology Equipment (Including Digital Apparatus)	fmax = 40 GHz
EMC (Canada)	ICES 005: 2018	Lighting Equipment	
EMC (Canada)	ICES Gen Issue 2 :2023	General Requirements for Compliance of Interference-Causing Equipment	
EMC	IEEE Std 299: 2006	IEEE Standard Method for Measuring the Effectiveness of Electromagnetic Shielding Enclosures	
EMC	NSA 65-6 :1964	National Security Agency Specification for R.F. shielded enclosure for communication equipment	
TC	ANSI C 63.10-2013 ANSI C63.10-2020	American National Standard for Testing of Unlicensed Wireless Devices Stand alone or in combination with:	Highest measureable Frequency Range is limited to fmax = 40 GHz; Measurements in GTEM Cell excluded
TC	ANSI C 63.17-2013	American National Standard - Methods of Measurement of the Electromagnetic and Operational Compatibility of Unlicensed Personal Communications Services (UPCS) Devices	Highest measureable Frequency Range is limited to fmax = 40 GHz
TC	FCC MP-5:1986	FCC Methods of Measurements of Radio Noise Emissions From Industrial, Scientific, and Medical Equipment; 1986	
TC + EMC	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations	
TC + EMC	47 CFR Part 15	Radio frequency Devices	
TC + EMC	47 CFR Part 18	Industrial, Scientific, and Medical Equipment	
TC	ANSI/TIA-603-D: 2010	Land Mobile FM or PM Communications Equipment Measurement and Performance Standards	Highest measureable Frequency Range is limited to fmax = 40 GHz

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TC	ANSI C63.26 :2015	IEEE/ANSI Standard For Compliance Testing Of Transmitters Used In Licensed Radio Services	Highest measureable Frequency Range is limited to fmax = 40 GHz
TC	RSS-Gen Issue 5 : April 2018 + Amendment 1: (March 2019) + Amendment 2: (February 2021)	General Requirements for Compliance of Radio Apparatus	Highest measureable Frequency Range is limited to fmax = 40 GHz
TC	IEEE Std 299: 2006	Land Mobile and Fixed Equipment Operating in the Band 1670–1675 MHz	Special auxiliary equipment to be provided externally
TC	RSS-112:2008	Land Mobile and Fixed Equipment Operating in the Band 1670–1675 MHz	Special auxiliary equipment to be provided externally
TC	RSS-119 Issue 12 : May 2015	Land Mobile and Fixed Equipment Operating in the Frequency Range 27.41-960 MHz	Special auxiliary equipment to be provided externally
TC	RSS-130 Issue 2 : February 2019	Equipment Operating in the Frequency Bands 617-652 MHz, 663-698 MHz, 698-756 MHz and 777-787 MHz	Special auxiliary equipment to be provided externally
TC	RSS-132 Issue 3 : January 2013	Cellular Telephone Systems Operating in the Bands 824-849 MHz and 869-894 MHz	Special auxiliary equipment to be provided externally
TC	RSS-134 Issue 2 : February 2016	900 MHz Narrowband Personal Communication Service	Special auxiliary equipment to be provided externally
TC	RSS-137 Issue 2 : February 2009	Location and Monitoring Service in the Band 902-928 MHz	Special auxiliary equipment to be provided externally
TC	RSS-139 Issue 3 : July 2015	Advanced Wireless Services (AWS) Equipment Operating in the Bands 1710-1780 MHz and 2110-2180 MHz	Special auxiliary equipment to be provided externally
TC	RSS-142 Issue 5 : April 2013	Narrowband Multipoint Communication Systems in the Bands 1429.5-1432 MHz	Special auxiliary equipment to be provided externally

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TC	RSS-194 Issue 1 : October 2007	Fixed Wireless Access Equipment Operating in the Band 953–960 MHz	Special auxiliary equipment to be provided externally
TC	RSS-199 Issue 3 : December 2016	Broadband Radio Service (BRS) Equipment Operating in the Band 2500–2690 MHz	Special auxiliary equipment to be provided externally
TC	RSS-210 Issue 10 : December 2019	Licence-Exempt Radio Apparatus: Category I Equipment	Special auxiliary equipment to be provided externally
TC	RSS-213 Issue 3 : March 2015	2 GHz Licence-Exempt Personal Communications Services (LE-PCS) Devices	Special auxiliary equipment to be provided externally
TC	RSS-216 Issue 2 : January 2016 + Amendment 1 (September 2020)	Wireless Power Transfer Devices	Special auxiliary equipment to be provided externally
TC	RSS-310 Issue 5: January 2020	Licence-Exempt Radio Apparatus: Category II Equipment	Special auxiliary equipment to be provided externally
2 Product Safety			
2.1 Audio/Video, Information and Communication Technology Equipment			
Electrical Engineering (ITAV)	IEC 62368-1:2023 IEC 62368-1:2018 IEC 62368-1:2014	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
Electrical Engineering (ITAV)	DIN EN IEC 62368-1:2025 (EN IEC 62368-1:2024 + A11:2024) DIN EN 62368-3:2020	Audio/video, information and communication technology equipment - Part 1: Safety requirements (IEC 62368-1:2023, modified)	
Electrical Engineering (ITAV)	UL 62368-1:2025 UL 62368-1:2019 UL 62368-1:2014	Audio/video, information and communication technology equipment - Part 1: Safety requirements	
Electrical Engineering (ITAV)	CAN/CSA-C22.2 NO. 62368-1-14:2014 CAN/CSA C22.2 No. 62368-1:19	Audio/video, information and communication technology equipment - Part 1: Safety requirements	

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Electrical Engineering (ITAV)	IEC 62368-3:2017	Audio/video, information and communication technology equipment - Part 3: Safety aspects for DC power transfer through communication cables and ports	
Electrical Engineering (ITAV)	DIN EN IEC 62368-3:2020 (EN IEC 62368-3:2020)	Audio/video, information and communication technology equipment - Part 3: Safety aspects for DC power transfer through communication cables and ports (IEC 62368-3:2017)	
Electrical Engineering (OFF)	IEC 60950-22:2016	Information Technology Equipment - Safety - Part 22: Equipment installed outdoors	
Electrical Engineering (OFF)	DIN EN 60950-22:2017 (EN 60950-22:2017)	Information Technology Equipment - Safety - Part 22: Equipment installed outdoors (IEC 60950-22:2016)	
Electrical Engineering (OFF)	ANSI/UL 60950-22: 2011 ANSI/UL 60950-22:2017 UL 60950-22:2017	Information Technology Equipment - Safety - Part 22: Equipment installed outdoors	
Electrical Engineering (OFF)	CAN/CSA-C22.2 NO. 60950-22:2017	Information Technology Equipment - Safety - Part 22: Equipment installed outdoors	
Electrical Engineering	DIN EN 41003:2009 + BEIBLATT 1: 2006	Particular safety requirements for equipment to be connected to telecommunication networks and/or a cable distribution system	No preparation with ultraviolet light, no tests of material properties after UV-irradiation
Electrical Engineering	IEC 62911:2016	Audio, video and information technology equipment - Routine electrical safety testing in production	
Electrical Engineering	IEC 60215:2016	Safety requirements for radio transmitting equipment	

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2.2 Safety requirements for electrical equipment for measurement, control and laboratory use			
Electrical Engineering (MEAS)	IEC 61010-1:2010 + COR:2011 + A1:2016, modifiziert + A1:2016/COR1:2019 IEC 61010-1 Ed. 3.1: 2017	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements (3rd Edition)	Except section 12.3 Ultraviolet (UV) Radiation and 12.5.2: (can be performed at SGS France)
Electrical Engineering (MEAS)	DIN EN 61010-1:2020 (EN 61010-1:2010 + A1:2019 + A1:2019/AC:2019)	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements (IEC 61010-1:2010 + COR:2011 + A1:2016, modified + A1:2016/COR1:2019)	Except section 12.3 Ultraviolet (UV) Radiation and 12.5.2: (can be performed at SGS France)
Electrical Engineering (MEAS)	ANSI/UL 61010-1: 2016 UL 61010-1 (3rd Ed.):2019	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements	
Electrical Engineering (MEAS)	CAN/CSA C22.2 NO. 61010-1-12: 2012 CAN/CSA-C22.2 No 61010-1 + Amd 1:2018	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements	
Electrical Engineering (MEAS)	IEC 61010-2-010:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-010:2022 (EN IEC 61010-2-010:2020)	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials (IEC 61010-2-010:2019)	
Electrical Engineering (MEAS)	ANSI/UL 61010-2-010: 2015 UL 61010-2-010: 2015 UL 61010-2-010: 2019-06-27	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials	

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Electrical Engineering (MEAS)	CSA C22.2 NO. 61010-2-010:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use – Part 2-010: Particular requirements for laboratory equipment for the heating of materials	
Electrical Engineering (MEAS)	IEC 61010-2- 011:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-011: 2023 (EN IEC 61010-2-011:2021)	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment (IEC 61010-2- 011:2019, modified)	
Electrical Engineering (MEAS)	ANSI/UL 61010-2-011:2017-01-31 UL 61010-2-011:2021-05-13	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	
Electrical Engineering (MEAS)	CAN/CSA-C22.2 No. 61010-2-011:2017 CSA C22.2 No. 61010-2-011: 2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-011: Particular requirements for refrigerating equipment	
Electrical Engineering (MEAS)	IEC 61010-2-012: 2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-012:2023 (EN IEC 61010-2-012:2022 + A11:2022)	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment (IEC 61010-2-012: 2019)	

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Electrical Engineering (MEAS)	UL 61010-2-012:2017-02-20	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment	
Electrical Engineering (MEAS)	CAN/CSA-C22.2 No. 61010-2-012:2017 CSA-C22.2 No. 61010-2-012:2019-11-01	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-012: Particular requirements for climatic and environmental testing and other temperature conditioning equipment	
Electrical Engineering (MEAS)	IEC 61010-2-020: 2016	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges	
Electrical Engineering (MEAS)	DIN EN 61010-2-020: 2017 (EN 61010-2-020: 2017)	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges (IEC 61010-2-020: 2016)	
Electrical Engineering (MEAS)	ANSI/ UL 61010-2-020: 2016-12-15	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges	
Electrical Engineering (MEAS)	CAN/CSA-C22.2 No. 61010-2-020:2017-05-01	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges	
Electrical Engineering (MEAS)	IEC 61010-2-030:2023 IEC 61010-2-030:2017	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	

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Electrical Engineering (MEAS)	DIN EN IEC 61010-2-030:2022 (EN IEC 61010-2-030:2021 + A11:2021)	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits (IEC 61010-2-030:2017)	
Electrical Engineering (MEAS)	ANSI/UL 61010-2-030: 2012 UL 61010-2-030:2018	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	
Electrical Engineering (MEAS)	CAN/CSA-C22.2 NO. 61010-2-030:2018	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits	
Electrical Engineering (MEAS)	IEC 61010-031:2022	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test	
Electrical Engineering (MEAS)	DIN EN IEC 61010-031:2024 (EN IEC 61010-031:2023)	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test (IEC 61010-031:2022)	
Electrical Engineering (MEAS)	ANSI/UL 61010-031: 2010 UL 61010-031: 2017	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test	

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Electrical Engineering (MEAS)	CAN/CSA-C22.2 NO. 61010-031: 2010 CAN/CSA-C22.2 NO. 61010-031: 2017-01-01	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 031: Safety requirements for hand-held probe assemblies for electrical measurement and test	
Electrical Engineering (MEAS)	IEC 61010-2-032:2019 + COR1:2020	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-032:2023 (EN IEC 61010-2-032:2021 + A11:2021)	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement (IEC 61010-2-032:2019, modified + COR1:2020)	
Electrical Engineering (MEAS)	ANSI/UL 61010-2-032: 2014 UL 61010-2-032:2020	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement	
Electrical Engineering (MEAS)	CSA-C22.2 No. 61010-2-032: 2020	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-032: Particular requirements for hand-held and hand-manipulated current sensors for electrical test and measurement	
Electrical Engineering (MEAS)	IEC 61010-2-033:2023 IEC 61010-2-033:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other hand-held meters, for domestic and professional use, capable of measuring mains voltage	

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Electrical Engineering (MEAS)	DIN EN IEC 61010-2-033:2023 (EN IEC 61010-2-033:2021 + A11:2021)	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other hand-held meters, for domestic and professional use, capable of measuring mains voltage (IEC 61010-2-033:2019, modified)	
Electrical Engineering (MEAS)	ANSI/UL 61010-2-033: 2014 UL 61010-2-033:2020	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other hand-held meters, for domestic and professional use, capable of measuring mains voltage	
Electrical Engineering (MEAS)	CSA-C22.2 No. 61010-2-033: 2020	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-033: Particular requirements for hand-held multimeters and other hand-held meters, for domestic and professional use, capable of measuring mains voltage	
Electrical Engineering (MEAS)	IEC 61010-2-034: 2017	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-034: Particular requirements for measurement equipment for insulation resistance and test equipment for electric strength	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-034: 2022 (EN IEC 61010-2-034:2021 /A11:2021)	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-034: Particular requirements for measurement equipment for insulation resistance and test equipment for electric strength (IEC 61010-2-034: 2017)	

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Electrical Engineering (MEAS)	UL 61010-2-034:2020	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-034: Particular requirements for measurement equipment for insulation resistance and test equipment for electric strength	
Electrical Engineering (MEAS)	CAN/CSA-C22.2 No. 61010-2-034:2018	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-034: Particular requirements for measurement equipment for insulation resistance and test equipment for electric strength	
Electrical Engineering (MEAS)	IEC 61010-2-040:2020	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-040:2023 (EN IEC 61010-2-040:2021)	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials (IEC 61010-2-040:2020)	
Electrical Engineering (MEAS)	ANSI/UL 61010-2-040:2016 UL 61010-2-040:2016 UL 61010-2-040:2021	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials	
Electrical Engineering (MEAS)	CAN/CSA-C22.2 NO. 61010-2-040-07: 2007 CAN/CSA-C22.2 NO. 61010-2-040: 2016 CAN/CSA-C22.2 NO. 61010-2-040: 2021	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-040: Particular requirements for sterilizers and washer-disinfectors used to treat medical materials	

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Electrical Engineering (MEAS)	IEC 61010-2-045:2000	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-045: Particular requirements for washer disinfectors used in medical, pharmaceutical, veterinary and laboratory fields	
Electrical Engineering (MEAS)	IEC 61010-2-051:2018	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-051: Particular requirements for laboratory equipment for mixing and stirring	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-051:2023 (EN IEC 61010-2-051:2021)	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-051: Particular requirements for laboratory equipment for mixing and stirring (IEC 61010-2-051: 2018)	
Electrical Engineering (MEAS)	ANSI/UL 61010-2-051:2015 UL 61010-2-051:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-051: Particular requirements for laboratory equipment for mixing and stirring	
Electrical Engineering (MEAS)	CAN/CSA-C22.2 No. 61010-2-051:2015 CSA-C22.2 No. 61010-2-051:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-051: Particular requirements for laboratory equipment for mixing and stirring	
Electrical Engineering (MEAS)	IEC 61010-2-061:2018	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-061:2023 (EN IEC 61010-2-061:2021 + A11:2021)	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization	

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Electrical Engineering (MEAS)	ANSI/ UL 61010-2-061:2015 UL 61010-2-061:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization	
Electrical Engineering (MEAS)	CAN/CSA-C22.2 No. 61010-2-061:2015-11-01 CSA C22.2 No. 61010-2-061:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-061: Particular requirements for laboratory atomic spectrometers with thermal atomization and ionization	
Electrical Engineering (MEAS)	IEC 61010-2-081:2019	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	No testing of biological contamination no measurement of ultrasonic pressure
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-081: 2022 (EN IEC 61010-2-081:2020)	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes (IEC 61010-2-081:2019)	No testing of biological contamination no measurement of ultrasonic pressure
Electrical Engineering (MEAS)	ANSI/UL 61010-2-081: 2015 UL 61010-2-081:2019	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	No testing of biological contamination no measurement of ultrasonic pressure

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Electrical Engineering (MEAS)	CAN/CSA-C22.2 NO. 61010-2-081:2019	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-081: Particular requirements for automatic and semi-automatic laboratory equipment for analysis and other purposes	No testing of biological contamination no measurement of ultrasonic pressure
Electrical Engineering (MEAS)	IEC 61010-2-091:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-091: Particular requirements for cabinet x-ray systems	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-091: 2023 (EN IEC 61010-2-091:2021)	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-091: Particular requirements for cabinet x-ray systems (IEC 61010-2-091:2019)	
Electrical Engineering (MEAS)	ANSI/UL 61010-2-091: 2014 UL 61010-2-91:2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-091: Particular requirements for cabinet x-ray systems	
Electrical Engineering (MEAS)	CSA-C22.2 No. 61010-2-091: 2019	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-091: Particular requirements for cabinet x-ray systems	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-120: 2019 (EN IEC 61010-2-120:2018)	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-120: Particular safety requirements for machinery (IEC 61010-2-120:2016)	
Electrical Engineering (MEAS)	IEC 61010-2-130: 2021	Safety requirements for electrical equipment for measurement, control, and laboratory use. Particular requirements for equipment intended to be used in educational establishments by children. Particular requirements for equipment intended to be used in educational establishments by children	

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Electrical Engineering (MEAS)	DIN EN IEC 61010-2-130:2023 (EN IEC 61010-2-130:2021)	Safety requirements for electrical equipment for measurement, control, and laboratory use. Particular requirements for equipment intended to be used in educational establishments by children. Particular requirements for equipment intended to be used in educational establishments by children (IEC 61010-2-130:2021)	
Electrical Engineering (MEAS)	IEC 61010-2-201:2024	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-201: 2025 VDE 0411-2-201 (EN IEC 61010-2-201:2024)	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment (IEC 61010-2-201:2024)	
Electrical Engineering (MEAS)	ANSI/UL 61010-2-201: 2017 UL 61010-2-201:2018	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	
Electrical Engineering (MEAS)	CAN/CSA-C22.2 No. 61010-2-201:2018	Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-201: Particular requirements for control equipment	
Electrical Engineering (MEAS)	IEC 61010-2-202:2020	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-202: Particular requirements for electrically operated valve actuators	
Electrical Engineering (MEAS)	DIN EN IEC 61010-2-202:2022 (EN IEC 61010-2-202:2021)	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-202: Particular requirements for electrically operated valve actuators (IEC 61010-2-202:2020)	

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Electrical Engineering (MEAS)	CAN/CSA-C22.2 No. 61010-2-202:2018	Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-202: Particular requirements for electrically operated valve actuators	
2.3 Safety of Laser Products			
Electrical Engineering (MISC)	IEC 60825-1:2014	Safety of laser products - Part 1: Equipment classification and requirements	
Electrical Engineering (MISC)	DIN EN 60825-1:2022 (EN 60825-1:2014 + AC:2017 + A11:2021 + A11:2021/AC:2022)	Safety of laser products - Part 1: Equipment classification and requirements (IEC 60825-1:2014)	
Electrical Engineering (MISC)	CAN/CSA-E60825-1: 2015	Safety of laser products - Part 1: Equipment classification and requirements	
Electrical Engineering (MISC)	IEC 60825-2:2004 + A1:2006 + A2:2010 IEC 60825-2:2021	Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS)	
Electrical Engineering (MISC)	DIN EN 60825-2:2011-06 + BEIBLATT 1: 2008 + BEIBLATT 2: 2019 (EN 60825-2:2004 + A1:2007 + A2:2010)	Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS) (IEC 60825-2:2004 + A1:2006 + A2:2010)	
2.4 Safety: Fire Hazard Testing			
Electrical Engineering	IEC 60695-2-10:2021	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure	
Electrical Engineering	DIN EN IEC 60695-2-10:2023 (EN IEC 60695-2-10:2021)	Fire hazard testing - Part 2-10: Glowing/hot-wire based test methods - Glow-wire apparatus and common test procedure (IEC 60695-2-10:2021)	
Electrical Engineering	IEC 60695-2-11:2021	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	

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Electrical Engineering	DIN EN IEC 60695-2-11:2022 (EN IEC 60695-2-11:2021)	Fire hazard testing - Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products (IEC 60695-2-11:2021)	
Electrical Engineering	IEC 60695-10-2:2014	Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method	
Electrical Engineering	DIN EN 60695-10-2:2016 (EN 60695-10-2: 2014)	Fire hazard testing - Part 10-2: Abnormal heat - Ball pressure test method (IEC 60695-10-2:2014)	
Electrical Engineering	IEC 60695-11-3:2012	Fire hazard testing - Test flames - 500 W flames - Apparatus and confirmational test methods	
Electrical Engineering	DIN EN 60695-11-3:2014 (EN 60695-11-3:2012)	Fire hazard testing - Test flames - 500 W flames - Apparatus and confirmational test methods (IEC 60695-11-3:2012)	
Electrical Engineering	IEC 60695-11-5:2016	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance	
Electrical Engineering	DIN EN 60695-11-5:2017 (EN 60695-11-5:2017)	Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance (IEC 60695-11-5:2016)	
Electrical Engineering	IEC 60695-11-10:2013 + CORRIGENDUM 1: 2014	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	
Electrical Engineering	DIN EN 60695-11-10:2014 Berichtigung 1:2015 (EN 60695-11-10:2013)	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods; Amendment A1 (IEC 60695-11-10:2013)	
Electrical Engineering	IEC 60695-11-20:2015 + COR1:2016	Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods	
Electrical Engineering	DIN EN 60695-11-20:2016 (EN 60695-11-20: 2015+ AC: 2016)	Fire hazard testing - Part 11-20: Test flames - 500 W flame test methods (IEC 60695-11-20:2015 + COR1:2016)	

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Electrical Engineering	IEC 60695-2-12:2021	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials	
Electrical Engineering	DIN EN IEC 60695-2-12:2022 (EN IEC 60695-2-12:2021)	Fire hazard testing - Part 2-12: Glowing/hot-wire based test methods - Glow-wire flammability index (GWFI) test method for materials (IEC 60695-2-12:2021)	
Electrical Engineering	IEC 60695-2-13:2021	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials	
Electrical Engineering	DIN EN IEC 60695-2-13:2022 (EN IEC 60695-2-13:2021)	Fire hazard testing - Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignition temperature (GWIT) test method for materials (IEC 60695-2-13:2021)	
Electrical Engineering	ANSI/UL 94:2018 UL 94 Ed. 6:2020 UL 94 Ed. 7:2023	Tests for Flammability of Plastic Materials for Parts in Devices and Applications	
Electrical Engineering	ANSI/UL 94A (2015-01)	Standard for Safety for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances / revision of ANSI/UL 94-2015	
Electrical Engineering	ANSI/UL 94B: 2015	Standard for Safety for Tests for Flammability of Plastic Materials for Parts in Devices and Appliances / revision of ANSI/UL 94b-2013	
Electrical Engineering	ANSI/UL 1581: 2017 ANSI/UL 1581A:2020 ANSI/UL 158:2022 ANSI/UL 158:2023	Reference standard for electrical wires, cables, and flexible cords	Restrictions: Only Vertical flame, FT1 and cable flame test
Electrical Engineering	UL 2556: 2015 UL 2556:2021 ANSI/UL 2556: 2015 ANSI/UL 2556A: 2013	Wire and cable test methods: Only vertical wiring FV-2, VW-1	
Electrical Engineering	DIN 75200:1980	Determination of burning behaviour of interior materials in motor vehicles	
Electrical Engineering	FMVSS 571.302 STANDARD NO. 302:2013	Flammability of interior materials	

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Electrical Engineering	ECE-R118	Uniform technical prescriptions concerning the burning behaviour and/or the capability to repel fuel or lubricant of materials used in the construction of certain categories of motor vehicles	
Electrical Engineering	ISO 3795:1989	Road vehicles, and tractors and machinery for agriculture and forestry - Determination of burning behaviour of interior materials	
Electrical Engineering	IEC 60112:2020	Method for the determination of the proof and the comparative tracking indices of solid insulating materials	
Electrical Engineering	DIN EN IEC 60112:2022 (EN IEC 60112:2016-10:2020)	Method for the determination of the proof and the comparative tracking indices of solid insulating materials (IEC 60112:2020)	
2.5 Safety: Installation Equipment			
Electrical Engineering (INST)	IEC 61800-5-1:2022 + COR1:2023	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy	Restrictions: The partial discharge test according to EN 61800-5-1 is not performed. Only low-voltage up to max. 1kV.
Electrical Engineering (INST)	DIN EN IEC 61800-5-1:2024 (EN IEC 61800-5-1:2023)	Adjustable speed electrical power drive systems - Part 5-1: Safety requirements - Electrical, thermal and energy (IEC 61800-5-1:2022 + COR1:2023)	Restrictions: The partial discharge test according to EN 61800-5-1 is not performed. Only low-voltage up to max. 1kV.
Electrical Engineering (INST)	UL 61800-5-1:2012 ANSI/UL 61800-5-1: 2017	Adjustable Speed Electrical Power Drive Systems - Part 5-1: Safety Requirements - Electrical, Thermal and Energy	Restrictions: The partial discharge test according to EN 61800-5-1 is not performed. Only low-voltage up to max. 1kV.

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Electrical Engineering (INST)	DIN EN 50178:1998 (EN 50178:1997)	Electronic equipment for use in power installations	Restrictions: Only low-voltage up to max. 1kV
Electrical Engineering (INST)	IEC 62477-1:2022 + COR1:2024	Safety requirements for power electronic converter systems and equipment - Part 1: General	
Electrical Engineering (INST)	DIN EN IEC 62477-1:2024 (EN IEC 62477-1:2023 + AC:2024)	Safety requirements for power electronic converter systems and equipment - Part 1: General (IEC 62477-1:2022 + COR1:2024)	
2.6 Safety: Measuring relays and protection equipment			
Electrical Engineering (CONT)	IEC 95/390/CD:2018 IEC 60255-27: 2013	Measuring relays and protection equipment - Part 27: Product safety requirements	
Electrical Engineering (CONT)	DIN EN IEC 60255-27: 2026-04 (EN IEC 60255-27:2025)	Measuring relays and protection equipment - Part 27: Product safety requirements (IEC 95/390/CD:2018)	
Electrical Engineering (CONT)	IEC 60730-1:2013, modifiziert + COR1:2014 + A1:2015 + A2:2020	Automatic electrical controls - Part 1: General requirements	
Electrical Engineering (CONT)	DIN EN 60730-1:2025 (EN 60730-1:2016 + A1:2019 + A2:2022 + A11:2024)	Automatic electrical controls - Part 1: General requirements (IEC 60730-1:2013, modifiziert + COR1:2014 + A1:2015 + A2:2020)	
2.7 Safety: Environmental Engineering (EE) / IP			
Electrical Engineering	DIN ETS 300 132-1: 2005 ETS 300132-1: 1996	Environmental Engineering (EE); Power supply interface at the input to telecommunications equipment; Part 1: Operated by alternating current (ac) derived from direct current (dc) sources	
Electrical Engineering	ETSI EN 300 132-2 V2.7.1 (2022-09) DIN EN 300132-2:2017	Environmental Engineering (EE); Power supply interface at the input of Information and Communication Technology (ICT) equipment; Part 2: -48 V Direct Current (DC)	
Electrical Engineering	ETSI EN 300 132-3 V2.2.1 (2021-07) DIN EN 300132-3-0:2013 DIN EN 300 132-3-1: 2013	Environmental Engineering (EE); Power supply interface at the input of Information and Communication Technology (ICT) equipment; Part 3: Up to 400 V Direct Current (DC)	

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Electrical Engineering	IEC 60529:1989/A2:2013 /COR1:2019	Degrees of protection provided by enclosures (IP Code)	
Electrical Engineering	DIN EN 60529:2014 Berichtigung 1:2017 Berichtigung 2:2019 (EN 60529:1991/A2:2013 /AC:2019-02)	Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989 + A1:1999 + A2:2013)	
Electrical Engineering	CAN/CSA-C22.2 NO. 60529: 2016	Degrees of protection provided by enclosures (IP Code)	
2.8 Safety: NEBS			
Electrical Engineering	Telcordia GR-3108-CORE	Generic Requirements for Network Equipment in the Outside Plant (OSP) Restrictions	Only section 5 (Electrical Requirements)
Electrical Engineering	Telcordia GR-63-Core	NEBSTM Requirements: Physical Protection Restrictions	Only Part 4.2 und 5.2.3 needle flame test
Electrical Engineering	Telcordia GR-1089-Core	Electromagnetic Compatibility (EMC) and Electrical Safety – Generic Criteria for Network Telecommunications Equipment Chapter 7, 8, 9	
2.9 Safety: Plugs and socket-outlets for household and similar purposes			
Electrical Engineering (INST)	IEC 60884-1:2022	Plugs and socket-outlets for household and similar purposes - Part 1: General requirements (+ IEC 60884-1 AMD 1)	
Electrical Engineering (INST)	IEC 60884-2-5: 2017	Plugs and socket-outlets for household and similar purposes - Part 2: Particular requirements for adaptors	
Electrical Engineering (INST)	BS 1363-1+A4: 1995	13 A plugs, socket-outlets, adaptors and connection units. Specification for rewirable and non-rewirable 13 A fused plugs	
Electrical Engineering (INST)	BS 1363-2: 1999 BS 1363-2+A1:2016	13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlets	

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Electrical Engineering (INST)	DIN VDE 0620-101:1992 (EN 50075:1990)	Plugs and socket-outlets up to 400 V 25 A; flat non-wirable two pole plugs, 2,5 A 250 V, with cord, for the connection of class-II-equipment for household and similar purposes	
2.10 Safety: E-Mobility / Electrical Vehicle			
Electrical Engineering (ELVH)	IEC 62196-1:2022	Plugs, socket-outlets, vehicle couplers and vehicle inlets - Conductive charging of electric vehicles - Part 1: Charging of electric vehicles up to 250 A a.c. and 400 A d.c.	
Electrical Engineering (ELVH)	DIN EN IEC 62196-1:2023 (EN IEC 62196-1: 2022)	Plugs, socket-outlets, vehicle couplers and vehicle inlets - Conductive charging of electric vehicles - Part 1: Charging of electric vehicles up to 250 A a.c. and 400 A d.c. (IEC 62196-1:2022)	
Electrical Engineering (ELVH)	IEC 61851-1: 2017	Electric equipment of electric road vehicles - Electric vehicle conductive charging system - Part 1: General requirements	
Electrical Engineering (ELVH)	DIN EN IEC 61851-1:2019 (EN IEC 61851-1: 2019)	Electric equipment of electric road vehicles - Electric vehicle conductive charging system - Part 1: General requirements	
Electrical Engineering (ELVH)	DIN EN IEC 61851-21-2:2021 (EN IEC 61851-21-2: 2021)	Electric vehicle conductive charging system. Electric vehicle requirements for conductive connection to an AC/DC supply. EMC requirements for off board electric vehicle charging systems	
Electrical Engineering (ELVH)	IEC 61851-22: 2001	Electric vehicle conductive charging system - Part 22: a.c. electric vehicle charging station	
Electrical Engineering (ELVH)	DIN EN 61851-22:2002 (EN 61851-22: 2002)	Electric vehicle conductive charging system - Part 22: a.c. electric vehicle charging station	
2.11 Safety: Low-voltage switchgear and controlgear assemblies			
Electrical Engineering (POW)	IEC 61439-1:2020	Low-voltage switchgear and controlgear assemblies – Part 1: General rules	

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Electrical Engineering (POW)	DIN EN IEC 61439-1:2021 (EN IEC 61439-1:2021)	Low-voltage switchgear and controlgear assemblies – Part 1: General rules (IEC 61439-1:2020)	
Electrical Engineering (POW)	DIN EN IEC 61439-7: 2024-07 (EN IEC 61439-7:2023)	Low-voltage switchgear and controlgear assemblies - Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicle charging stations (IEC 61439-7:2022)	
2.12 Safety: Safety of machinery/ Uninterruptible Power Systems (UPS)			
Electrical Engineering (HOUS, INDA)	DIN EN ISO 12100: 2011 + Berichtigung 1:2013 (EN ISO 12100:2010)	Safety of machinery - General principles for design - Risk assessment and risk reduction (ISO 12100:2010)	
Electrical Engineering (HOUS, INDA)	IEC 60204-1:2016/AMD:2021	Safety of machinery - Electrical equipment of machines - Part 1: General requirements	
Electrical Engineering (HOUS, INDA)	DIN EN 60204-1:2019-06 (EN 60204-1:2018)	Safety of machinery - Electrical equipment of machines - Part 1: General requirements (IEC 60204-1:2016)	
Electrical Engineering (HOUS, INDA)	IEC 61496-1:2020	Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests	
Electrical Engineering (HOUS, INDA)	DIN EN IEC 61496-1:2021-06 (EN IEC 61496-1:2020)	Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests (IEC 61496-1:2020)	
Electrical Engineering (HOUS, INDA)	IEC TS 61496-4-2:2014	Safety of machinery - Electro-sensitive protective equipment - Part 4-2: Particular requirements for equipment using vision based protective devices (VBPD) - Additional requirements when using reference pattern techniques (VBPDPP)	
Electrical Engineering (HOUS, INDA)	DIN IEC/TS 61496-4-2: 2015-06	Safety of machinery - Electro-sensitive protective equipment - Part 4-2: Particular requirements for equipment using vision based protective devices (VBPD) - Additional requirements when using reference pattern techniques (VBPDPP)	

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Electrical Engineering	IEC 60664-1:2020	Insulation coordination for equipment within low-voltage supply systems–Part 1: Principles, requirements and tests	
Electrical Engineering	DIN EN IEC 60664-1:2022-07 (EN IEC 60664-1:2020)	Insulation coordination for equipment within low-voltage supply systems–Part 1: Principles, requirements and tests (IEC 60664-1:2020)	
Electrical Engineering	IEC 62262:2021 + AMD1:2021	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	
Electrical Engineering	DIN EN 62262:2022-02 (EN 62262:2002 + A1:2021)	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code) (IEC 62262:2021 + AMD1:2021)	
Electrical Engineering (IND)	UL 1740:2018	STANDARD FOR SAFETY Robots and Robotic Equipment	
Electrical Engineering (IND)	UL 508A:2018	STANDARD FOR SAFETY Industrial Control Panels	
Electrical Engineering (IND)	NFPA 79:2015 NFPA 79:2021	Electrical Standard for Industrial Machinery	
Electrical Engineering (OFF)	IEC 62040-1:2017+ CORRIGENDUM 1:2019	Uninterruptible Power Systems (UPS) – Part 1: General and safety requirements for UPS.	This International Standard is to be read in conjunction with IEC 62477-1:2012.
Electrical Engineering (OFF)	DIN EN IEC 62040-1:2020 (EN IEC 62040-1:2019)	Uninterruptible Power Systems (UPS) – Part 1: General and safety requirements for UPS. (IEC 62040-1:2017-07)	
Electrical Engineering (OFF)	IEC 62040-3: 2011 + CORRIGENDUM 1:2011	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements	
Electrical Engineering (OFF)	DIN EN 62040-3:2011 (EN 62040-3:2011)	Uninterruptible power systems (UPS) - Part 3: Method of specifying the performance and test requirements (IEC 62040-3: 2011)	

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Electrical Engineering (OFF)	IEC 62040-4: 2013	Uninterruptible power systems (UPS) - Part 4: Environmental aspects - Requirements and reporting	
Electrical Engineering (OFF)	DIN EN 62040-4:2014 (EN 62040-4:2013)	Uninterruptible power systems (UPS) - Part 4: Environmental aspects - Requirements and reporting (IEC 62040-4: 2013)	
3 Environmental Simulation			
Environmental Simulation	Telcordia GR-63-CORE (2012-04)	NEBS Requirements: Physical Protection	Only section 4.6, 5.6 (Acoustic Noise) 5.2 (Fire Test Methods)

Location B Traunreuter Str. 3, 82538 Gelting
4 Environmental Simulation (Flex B)

Test type	Test parameter	Range		Typical test methods
Temperature + Humidity	Temperature	-70 to +180	°C	IEC 60068-2-1/-2 IEC 60068-2-14 (Nb) IEC 60068-2-30/-38 IEC 60068-2-61 IEC 60068-2-67/-78 MIL STD 810 (501,502, 507) RTCA DO-160 (4, 5, 6) GR-63-CORE (5.1.1/2/4/5)
	Relative Humidity	+10 to +98	% r.F.	
	Change of Temperature	≤ 15	K/min	
Temperature Shock	Temperature	-70 bis +180	°C	IEC 60068-2-14 MIL-STD-810 (503)
	Transfer time	≤ 8	s	
Vibration	Displacement (Sine / Random)	≤ 50 / 52	mm	IEC 60068-2-6 IEC 60068-2-64 IEC 60068-2-80 JESD22-B103 MIL-STD-810 (514 Procedure I) RTCA DO-160 (8)
	Velocity (Sine / Random)	≤ 2 / 3.5	m/s	
	Acceleration (Sine / Random)	≤ 100 / 50	m/s ²	
	Frequency range	3 to 2000	Hz	

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				GR-63-CORE (5.4.2/3)
Drop	Height	≤ 2	m	IEC 60068-2-31 GR-63-CORE
	Surfaces	Hard Wood, Concrete, Steel, PVC on Concrete		
Salt Mist	Salt Concentration	0 - 5	%	IEC 60068-2-11 IEC 60068-2-52 ISO 9227 (NSS) MIL-STD-810 RTCA DO-160
	Temperature during spraying, constant	RT bis +50	°C	
	Climate during non-spraying periods	See above	-	
Mechanical Shock	Displacement	≤ 52	mm	IEC 60068-2-27 JESD22-B104 MIL-STD-810 Mil-STD-883 RTCA DO-160
	Velocity	≤ 3.5	m/s	
	Acceleration (Electro Dynamical Shaker)	≤ 100	m/s²	
	Acceleration (Shock Tester)	≤ 10000		
Thermo-Vibro	Frequency Range	3 bis 2000	Hz	IEC 60068-2-1/-2/-14 in combination with IEC 60068-2-6/-27/-64 IEC 60068-2-53 ISO 16750-3
	Displacement	≤ 36 (Sine) ≤ 52 (Shock & Random)	mm	
	Velocity	≤ 1.6 (Sine) ≤ 2.65 (Shock)	m/s	
	Acceleration	≤ 39 (Sine) ≤ 35 (Random) ≤ 100 (Shock)	m/s²	
	Change of Temperature	≤ 15	K/min	
	Temperature	-70 bis +160	°C	
	Humidity	10 bis 98	% r.F	
Mixed Flowing Gas	Gas & concentration	H ₂ S: ≤ 1 NO ₂ : ≤ 1	ppm ppm	

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		Cl ₂ : ≤ 100 SO ₂ : ≤ 1	ppb ppm	IEC 60068-2-60 GR-63-CORE
	Temperature	+25 bis +30	°C	
	Humidity	60 bis 85	% r.F.	
Single Gas	Gas & concentration	H ₂ S: ≤ 50 SO ₂ : ≤ 50	ppm	IEC 60068-2-42 IEC 60068-2-43
	Temperature	+25 bis +85	°C	
	Humidity	50 bis 90	% r.F.	
Resistance of Surfaces to Chemical Agents	Chemical Agents	Agents that can be legally acquired in small amounts and that can safely be handled (no highly toxic/carcinogenic/explosive /mutageni c/ radioactive substances) Examples: Fuels, Oils and Lubricants, Other Operating Agents, Solvents and Cleaning Agents, Soft Drinks, Cosmetic Products, Artificial Sweat, Liquid Manure		IEC 60068-2-74 MIL-STD-810 (504) RTCA DO-160 (11) ISO 16750-5
	Application	Spraying, Splashing, Brushing, Wiping, Pouring, Dipping/Immersing		
	Storage	Climate (see above)		
	Evaluation	Naked Eye, Microscope		

Testing field	Standard / In-House Procedure / Version	Title of standard or In-House Procedure (Deviations / Modifications of standard)	Test Range / restriction
5 Environmental Simulation			
Environmental simulation	IEC 60068-2-1:2025	Tests A: Cold	
Environmental simulation	IEC 60068-2-2:2025	Tests B: Dry Heat	

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Environmental simulation	IEC 60068-2-6:2007	Test Fc: Vibration (sinusoidal)	
Environmental simulation	IEC 60068-2-11: 2021	Test Ka: Salt mist	
Environmental simulation	IEC 60068-2-13:2021	Test M: Low air pressure	
Environmental simulation	IEC 60068-2-14:2023	Tests N: Change of temperature	Only Methods Na, Nb
Environmental simulation	IEC 60068-2-18:2017	Test R and guidance: Water	Only Methods Ra 2, Rb 1, Rb 2, Rc 1
Environmental simulation	IEC 60068-2-21:2021	Test U: Robustness of terminations and integral mounting devices	without Uf ₁ , Uf ₂
Environmental simulation	IEC 60068-2-27:2008	Test Ea and guidance: Shock	
Environmental simulation	IEC 60068-2-30:2025	Test Db: Damp heat, cyclic (12 + 12 hour cycle)	
Environmental simulation	IEC 60068-2-31:2008	Test Ec: Rough handling shocks, primarily for equipment-type specimens	Only Drop and topple, Free fall – Procedure 1
Environmental simulation	IEC 60068-2-38:2021	Test Z/AD: Composite temperature/humidity cyclic test	
Environmental simulation	IEC 60068-2-40:1976+AMD1 1983	Test Z/AM: Combined cold/low air pressure tests	
Environmental simulation	IEC 60068-2-41:1976+AMD1 1983	Test Z/BM: Combined dry heat/low air pressure tests	
Environmental simulation	IEC 60068-2-42:2003	Test Kc: Sulphur dioxide test for contacts and connections	
Environmental simulation	IEC 60068-2-43:2003	Test Kd: Hydrogen sulphide test for contacts and connections	
Environmental simulation	IEC 60068-2-52:2017	Test Kb: Salt mist, cyclic (sodium chloride solution)	without test methods 7 and 8
Environmental simulation	IEC 60068-2-53:2010	Tests and guidance – Combined climatic (temperature/humidity) and dynamic (vibration/shock) tests	
Environmental simulation	IEC 60068-2-55:2013	Tests and guidance – Loose cargo testing including bounce	
Environmental simulation	IEC 60068-2-60:2015	Test Ke: Flowing mixed gas corrosion test	
Environmental simulation	IEC 60068-2-61:1991	Test Z/ABDM: Climatic sequence	

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Environmental simulation	IEC 60068-2-64:2019	Test Fh: Vibration, broad-band random and guidance	without non-Gaussian distrib. of amplitudes
Environmental simulation	IEC 60068-2-67:1995+AMD1 2019	Test Cy: Damp heat, steady state, accelerated test primarily intended for components	
Environmental simulation	IEC 60068-2-74:1999+AMD1 2018	Test Xc: Fluid contamination	
Environmental simulation	IEC 60068-2-78:2025	Test Cab: Damp heat, steady state	
Environmental simulation	IEC 60068-2-80:2005	Test Fi: Vibration – Mixed mode	
Environmental simulation	IEC 60068-2-82:2019	Test XW ₁ : Whisker test methods for electronic and electric components	Restriction: Whisker evaluation with optical microscope only No preconditioning. No statistical assessment of whisker lengths.
Environmental simulation	ETSI EN 300 019 -2-1 V2.3.1 (2017-11)	Storage	
Environmental simulation	ETSI EN 300 019 -2-2 V2.4.1 (2017-11)	Transportation	
Environmental simulation	ETSI EN 300 019 -2-3 V2.5.1 (2020-10)	Stationary use at weatherprotected locations	without Annex A
Environmental simulation	ETSI EN 300 019 -2-4 V2.5.1 (2018-07)	Stationary use at non-weatherprotected locations	
Environmental simulation	ETSI EN 300 019 -2-5 V3.1.1 (2021-09)	Ground vehicle installations	
Environmental simulation	ETSI EN 300 019 -2-6 V3.1.1 (2023-10)	Ship environments	
Environmental simulation	ETSI EN 300 019 -2-7 V3.0.1 (2003-04)	Portable and non-stationary use	
Environmental simulation	ISO 9227 :2022	Corrosion tests in artificial atmospheres – Salt spray tests	Only Test NSS
Environmental simulation	ASTM B 117:2019	Standard Practice for Operating Salt Spray (Fog) Apparatus	

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Environmental simulation	DIN 50018:2013	Testing in a saturated atmosphere in the presence of sulfur dioxide	
Environmental simulation	ISO 6988:1985	Metallic and other non-organic coatings; Sulfur dioxide test with general condensation of moisture	
Environmental simulation	IEC 60529:2013	Degrees of protection provided by enclosures	Only: IP 4x, 5x, 5kx, 6x, 6kx, x3, x4, x5, x6, x6k, x7, x8 IP x3/x4: shower tube only
Environmental simulation	ISO 20653:2013	Road vehicles - Protection of electrical equipment against foreign objects, water and access	Only: IP 4x, 5x, 5kx, 6x, 6kx, x3, x4, x5, x6, x6k, x7, x8 IP x3/x4: shower tube only
Environmental simulation	JESD22-B103:2016	Vibration, Variable Frequency	
Environmental simulation	JESD22-B104:2004	Mechanical Shock	
Environmental simulation	IEC 61373:2010	Railway applications – Rolling stock equipment – Shock and vibration tests	
Environmental simulation	EN 50155 (2021-07)	Railway applications - Rolling stock - Electronic equipment	Only: 13.4.1, 13.4.4, 13.4.5, 13.4.6, 13.4.7, 13.4.8, 13.4.10.1-4, 13.4.12, 13.4.13
Environmental simulation	ISO 16750-3:2023	Road vehicles - Environmental conditions and testing for electrical and electronic equipment — Part 3: Mechanical loads	Excluding sections 4.3.2.1, 4.4
Environmental simulation	ISO 16750-4:2023	Road vehicles - Environmental conditions and testing for electrical and electronic equipment — Part 4: Climatic loads	Excluding sections 5.4.2, 5.5.4, 5.5.5, 5.5.6, 5.8, 5.10, 5.12
Environmental simulation	ISO 16750-5:2023	Road vehicles - Environmental conditions and testing for electrical and electronic equipment — Part 5: Chemical loads	

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Environmental simulation	VW 80000:2021	Electric and Electronic Components in Motor Vehicles up to 3.5 t — General Requirements, Test Conditions, and Tests	Restrictions: M-07, M-08, M-09: excluded K-05: only Method Na K-10: see IP Tests K-11: excluded L-01: only within the limits of the remainder of the scope
Environmental simulation	MBN 10306:2020	Electrical and Electronic Components in Motor Vehicles—Environmental Requirements and Tests	Restrictions: 5.6.2+M-07: excluded K-05: only Method Na K-10: see IP Tests K-11: excluded L-01: only within the limits of the remainder of the scope
Environmental simulation	GS 95024-3-1:2023	Electrical and Electronic Components in Motor Vehicles—Environmental Requirements and Tests	Restrictions: 4.6.2+M-07: excluded K-05: only Method Na K-10: see IP Tests K-11: excluded L-01: only within the limits of the remainder of the scope
Environmental simulation	GS 95011-4 (2009-10)	Electronic devices in motor vehicles Dewing test and climate test	

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Environmental simulation	MBN 10 305-1 (2008-06)	E/E Environmental Testing Part 1: Test Specifications	Only sections: 6.4.3 Chemical Exposure – Cabin Compartment 6.4.4 Chemical Exposure - Outside Cabin Compartment
Environmental simulation	FCA CS.00056 (2018-12)	Environmental Specification for Electrical / Electronic (E/E) Components	Only section: 5.6.2 Chemical Exposure (incl. Annex C, List of Chemicals and Application Methods)
Environmental simulation	ISO 20567-1 (2017-01)	Paints and varnishes – Determination of stone-chip resistance of coatings – Part 1: Multi-impact testing	
Environmental simulation	Telcordia GR-63-CORE:2017	NEBS Requirements: Physical Protection	Restriction: Excluding sections 5.1.3, 5.2, 5.4.1, 5.5.3, 5.6
Environmental simulation	Telcordia GR-3108-CORE Issue 5 2022	Generic Requirements for Network Equipment in the Outside Plant (OSP)	Restriction: Excluding section 4.3.1, 5 (which is included in the scope of the Product Safety department) 6.3.2, 6.4.1, 6.5, 6.6
Environmental simulation	MIL-STD-810 G 2008-10 G w/Change 1 2014-04 H 2019-01 H w/Change 1 2022-05	Test Method Standard Environmental Engineering Considerations and Laboratory Tests	Only Methods: 500 (Proced. I, II, without humidity control), 501, 502, 503, 504, 507, 509, 514 (Proced. I), 516 (except Proced. VII, VIII) Rev H w/C1: w/o 509 Proc 2/3

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Environmental simulation	MIL-STD-883 (H 2010-02, J 2013-06, J w/Change 5 2015-06, K 2016-04, K w/Change 1 2016-07, K w/Change 2 2017-02) K w/Change 3 2018-05, L 2019-09, MIL-STD-883-2 2019-06)	Test Method Standard Microcircuits Test Method Standard, Mechanical Test Methods for Microcircuits, Part 2: Test Methods 2000-2999	Only Methods: 2002, 2007
Environmental simulation	RTCA DO-160 (D 1997-07, E 2004-12, F 2007-12, G 2010-12)	Environmental Conditions and Test Procedures for Airborne Equipment	Only Sections: 4 (excluding decompression and overpressure), 5, 6, 7 (excl. Crash Safety Test Proc. 2 (Sustained)), 8, 10 (only Condensing Water Proof Test, Continuous Stream Proof Test), 11, (only Immersion), 14, 24 (excl. Category B)
Batteries	UN ST/SG/AC.10/11 Rev 8, 2023	United Nations Recommendations on the Transport of dangerous goods Manual of Test and Criteria	Only Section 38.3 Lithium metal and lithium ion batteries, T1, T2, T3, T4, T5, T7
Batteries	IEC 62133-2:2022	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for portable sealed secondary cells, and for batteries made from them, for use in portable applications - Part 2: Lithium systems	Only Sections: 7.3.3, 7.3.8
Batteries	IEC 62619:2022	Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications	Only Section 7.2.3

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6 Electromechanical Components			
Electrical Engineering	IEC 60512-1-1 (2002-02)	General examination - Test 1a: Visual examination	
Electrical Engineering	IEC 60512-1-2 (2002-02)	General examination - Test 1b: Examination of dimension and mass	Only Vernier Gauge, Micrometer, Dial Gauge (incl. End-Gauge), Gauges, Test-Pins, Measuring Microscope Balance
Electrical Engineering	IEC 60512-1-3 (1997-07)	General examination - Section 3: Test 1c - Electrical engagement length	
Electrical Engineering	IEC 60512-1-4 (1997-08)	General - Section 4: Test 1d: Contact protection effectiveness (scoop-proof)	
Electrical Engineering	IEC 60512-2-1 (2002-02)	Electrical continuity and contact resistance tests - Test 2a: Contact resistance - Millivolt level method	
Electrical Engineering	IEC 60512-2-2 (2003-05)	Electrical continuity and contact resistance tests - Test 2b: Contact resistance; Specified test current method	
Electrical Engineering	IEC 60512-2-3 (2002-02)	Electrical continuity and contact resistance tests - Test 2c: Contact resistance variation	
Electrical Engineering	IEC 60512-2-5 (2003-05)	Electrical continuity and contact resistance tests - Test 2e: Contact disturbance	
Electrical Engineering	IEC 60512-2-6 (2002-06)	Electrical continuity and contact resistance tests - Test 2f: Housing (shell) electrical continuity	
Electrical Engineering	IEC 60512-3-1 (2002-02)	Insulation tests - Test 3a: Insulation resistance	
Electrical Engineering	IEC 60512-4-1 (2003-05)	Voltage stress tests - Test 4a: Voltage proof	

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Electrical Engineering	IEC 60512-4-3 (2002-02)	Voltage stress tests - Test 4c: Voltage proof of pre-insulated crimp barrels	
Electrical Engineering	IEC 60512-5-1 (2002-02)	Current-carrying capacity tests - Test 5a: Temperature rise	
Electrical Engineering	IEC 60512-5-2 (2002-02)	Current-carrying capacity tests - Test 5b: Current-temperature derating	
Electrical Engineering	IEC 60512-6-2 (2002-02)	Dynamic stress tests - Test 6b: Bump	
Electrical Engineering	IEC 60512-6-3 (2002-02)	Dynamic stress tests - Test 6c: Shock	
Electrical Engineering	IEC 60512-6-4 (2002-02)	Dynamic stress tests - Test 6d: Vibration (sinusoidal)	
Electrical Engineering	IEC 60512-6-5 (1997-10)	Dynamic stress tests - Section 5: Test 6e: Random vibration	
Electrical Engineering	IEC 60512-8-1 (2010-06)	Static load tests (fixed connectors) - Test 8a: Static load, transverse	
Electrical Engineering	IEC 60512-8-2 (2011-04)	Static load tests (fixed connectors) - Test 8b: Static load, axial	
Electrical Engineering	IEC 60512-8-3 (2018-01)	Static load tests (fixed connectors) - Test 8c: Robustness of actuating lever	
Electrical Engineering	IEC 60512-9-1 (2010-03)	Endurance tests - Test 9a: Mechanical operation	
Electrical Engineering	IEC 60512-9-2 (2011-11)	Endurance tests - Test 9b: Electrical load and temperature	
Electrical Engineering	IEC 60512-9-3 (2011-06)	Endurance tests - Test 9c: Mechanical operation (engaging and separating) with electrical load	
Electrical Engineering	IEC 60512-9-4 (2011-04)	Endurance tests - Test 9d: Durability of contact retention system and seals (maintenance, ageing)	
Electrical Engineering	IEC 60512-9-5 (2020-06)	Endurance tests - Test 9e: Current loading, cyclic	
Electrical Engineering	IEC 60512-10-4 (2003-08)	Impact tests (free components), static load tests (fixed components), endurance test and overload tests - Test 10d: Electrical overload (connectors)	
Electrical Engineering	IEC 60512-11-1 (2019-05)	Climatic tests - Section 1: Test 11a: Climatic sequence	

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Electrical Engineering	IEC 60512-11-3 (2002-02)	Climatic tests - Test 11c: Damp heat, steady state	
Electrical Engineering	IEC 60512-11-4 (2002-02)	Climatic tests - Test 11d: Rapid change of temperature	
Electrical Engineering	IEC 60512-11-6 (2002-02)	Climatic tests - Test 11f: Corrosion, salt mist	
Electrical Engineering	IEC 60512-11-7 (2003-05)	Climatic tests - Test 11g: Flowing mixed gas corrosion test	
Electrical Engineering	IEC 60512-11-9 (2002-02)	Climatic tests - Test 11i: Dry heat	
Electrical Engineering	IEC 60512-11-10(2002-02)	Climatic tests - Test 11j: Cold	
Electrical Engineering	IEC 60512-11-11(2002-02)	Climatic tests - Test 11k: Low air pressure	
Electrical Engineering	IEC 60512-11-12(2002-02)	Climatic tests - Test 11m: Damp heat, cyclic	
Electrical Engineering	IEC 60512-11-13(2002-02)	Climatic tests - Test 11n: Gas tightness, solderless wrapped connections	
Electrical Engineering	IEC 60512-11-14(2003-07)	Climatic tests - Test 11p: Flowing single gas corrosion test	
Electrical Engineering	IEC 60512-13-1 (2006-02)	Mechanical operation tests; Test 13a: Engaging and separating forces	
Electrical Engineering	IEC 60512-13-2 (2006-02)	Mechanical operation tests; Test 13b: Insertion and withdrawal forces	
Electrical Engineering	IEC 60512-13-5 (2006-02)	Mechanical operation tests - Test 13e: Polarizing and keying method	
Electrical Engineering	IEC 60512-14-4 (2006-03)	Sealing tests - Test 14d: Immersion - Waterproof	
Electrical Engineering	IEC 60512-14-5 (2006-03)	Sealing tests - Test 14e: Immersion at low air pressure	
Electrical Engineering	IEC 60512-14-6 (2006-03)	Sealing tests - Test 14f: Interfacial sealing	
Electrical Engineering	IEC 60512-14-7 (1997-10)	Sealing tests - Section 7: Test 14g: Impacting water	
Electrical Engineering	IEC 60512-15-1 (2008-05)	Connector tests (mechanical) - Test 15a: Contact retention in insert	

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Electrical Engineering	IEC 60512-15-2 (2018-01)	Connector tests (mechanical) - Test 15b: Insert retention in housing (axial)	Only Method A (Force)
Electrical Engineering	IEC 60512-15-3 (2008-05)	Connector tests (mechanical) - Test 15c: Insert retention in housing (torsional)	
Electrical Engineering	IEC 60512-15-4 (2008-05)	Connector tests (mechanical) - Test 15d: Contact insertion, release and extraction force	
Electrical Engineering	IEC 60512-15-5 (2008-05)	Connector tests (mechanical) - Test 15e: Contact retention in insert, cable nutation	
Electrical Engineering	IEC 60512-15-6 (2008-05)	Connector tests (mechanical) - Test 15f: Effectiveness of connector coupling devices	
Electrical Engineering	IEC 60512-15-7 (2008-05)	Connector tests (mechanical) - Test 15g: Robustness of protective cover attachment	
Electrical Engineering	IEC 60512-15-8 (1995-11)	Mechanical tests on contacts and terminations - Section 8: Test 15h: Contact retention system resistance to tool application	
Electrical Engineering	IEC 60512-16-1 (2008-06)	Mechanical tests on contacts and terminations - Test 16a: Probe damage	
Electrical Engineering	IEC 60512-16-2 (2008-06)	Mechanical tests on contacts and terminations - Test 16b: Restricted entry	
Electrical Engineering	IEC 60512-16-3 (2008-07)	Mechanical tests on contacts and terminations - Test 16c: Contact-bending strength	
Electrical Engineering	IEC 60512-16-4 (2008-06)	Mechanical tests on contacts and terminations - Test 16d: Tensile strength (crimped connections)	
Electrical Engineering	IEC 60512-16-5 (2008-07)	Mechanical tests on contacts and terminations - Test 16e: Gauge retention force (resilient contacts)	

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Electrical Engineering	IEC 60512-16-6 (2008-07)	Part 16-6: Mechanical tests on contacts and terminations - Test 16f: Robustness of terminations	
Electrical Engineering	IEC 60512-16-7 (2008-07)	Mechanical tests on contacts and terminations - Test 16g: Measurement of contact deformation after crimping	
Electrical Engineering	IEC 60512-16-8 (2008-05)	Mechanical tests on connections and terminations - Test 16h: Insulating grip effectiveness (crimped connections)	
Electrical Engineering	IEC 60512-16-9 (2008-05)	Mechanical tests on contacts and terminations - Test 16i: Grounding contact spring holding force	
Electrical Engineering	IEC 60512-16-11(2008-05)	Mechanical tests on contacts and terminations - Test 16k: Stripping force, solderless wrapped connections	
Electrical Engineering	IEC 60512-16-13(2008-05)	Mechanical tests on contacts and terminations - Test 16m: Un-wrapping, solderless wrapped connections	
Electrical Engineering	IEC 60512-16-14(2008-07)	Mechanical tests on contacts and terminations - Test 16n: Bending strength, fixed male tabs	
Electrical Engineering	IEC 60512-16-16(2008-07)	Mechanical tests on contacts and terminations - Test 16p: Torsional strength, fixed male tabs	
Electrical Engineering	IEC 60512-16-17(2008-07)	Mechanical tests on contacts and terminations - Test 16q: Tensile and compressive strength, fixed male tabs	
Electrical Engineering	IEC 60512-16-18(2008-05)	Mechanical tests on contacts and terminations - Test 16r: Deflection of contacts, simulation	
Electrical Engineering	IEC 60512-16-20 (1996-08)	Mechanical tests on contacts and terminations - Section 20: Test 16t: Mechanical strength (wired termination of solderless connections)	

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Electrical Engineering	IEC 60512-16-21 (2012-05)	Mechanical tests on contacts and terminations – Test 16u: Whisker test via the application of external mechanical stresses	Restriction: Whisker evaluation with optical microscope only
Electrical Engineering	IEC 60512-17-1 (2010-06)	Cable clamping tests - Test 17a: Cable clamp robustness	
Electrical Engineering	IEC 60512-17-2 (2011-04)	Cable clamping tests - Test 17b: Cable clamp resistance to cable rotation	
Electrical Engineering	IEC 60512-17-3 (2010-06)	Cable clamping tests - Test 17c: Cable clamp resistance to cable pull (tensile)	
Electrical Engineering	IEC 60512-17-4 (2010-06)	Cable clamping tests - Test 17d: Cable clamp resistance to cable torsion	
Electrical Engineering	IEC 60512-19-1 (2010-03)	Chemical resistance tests - Test 19a: Fluid resistance of pre-insulated crimp barrels	
Electrical Engineering	IEC 60512-19-3 (1997-07)	Chemical resistance tests - Section 3: Test 19c: Fluid resistance	
Electrical Engineering	IEC 60352-2:2024	Solderless connections – Part 2: Crimped connections – General requirements, test methods and practical guidance	
Electrical Engineering	IEC 60352-5:2020	Solderless connections – Part 5: Press-in connections – General requirements, test methods and practical guidance	
Electrical Engineering	IPC-9797A:2023	Press-Fit Standard for Automotive Requirements and Other High-Reliability Applications	
Electrical Engineering	HELLA Norm HN28100-01: 2022	Test Guideline for Press-in Technology	Without measurement of 3D lengths for whisker test

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Electrical Engineering	VW 75174:2018	Automotive Connectors	Restrictions: PG 1: see IEC 60512-1-2 PG 6: without E6.1 PG 2, 3, 4, 9, 28, 29: excluded PG 23: without B23.2, B23.4
Electrical Engineering	MBN 10384:2010	Automotive Connectors, Test Specification	Restrictions: PG 1: see IEC 60512-1-2 PG 6: without E6.1 PG 2, 3, 4, 9, 28, 29: excluded PG 23: without B23.2, B23.4
Electrical Engineering	GS 95006-7-1:2021	Wiring harnesses in motor vehicles; connectors; tests	Restrictions: PG 1: see IEC 60512-1-2 PG 6: without E6.1 PG 2, 3, 4, 9, 28, 29: excluded PG 17: Sharpness Level 6 excluded EP 1-4: excluded PG 23: without B23.4, B23.8
Electrical Engineering	VW 75174-2:2020	Vehicle Contacts, Slow-Motion test	
Electrical Engineering	MBN 10384-2:2007	Road vehicles, Automotive connections, Slow-Motion test	
Electrical Engineering	GS 95006-7-2:2018	Wiring harnesses in motor vehicles; connectors, Slow Motion test	

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