

Deutsche Akkreditierungsstelle GmbH

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01 nach DIN EN ISO/IEC 17025:2005

Gültigkeitsdauer: 11.01.2019 bis 21.04.2021 Ausstellungsdatum: 11.01.2019

Urkundeninhaber:

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Untertürkheimer Straße 6-10, 66117 Saarbrücken

Prüfungen in den Bereichen:

Elektromagnetische Verträglichkeit (EMV), Elektrotechnik (SEB)

Prüfungen in den Bereichen:

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Innerhalb der mit * gekennzeichneten Akkreditierungsbereiche ist dem Prüflaboratorium, ohne dass es einer vorherigen Information und Zustimmung der DAkkS bedarf, die Anwendung der hier aufgeführten genormten oder ihnen gleichzusetzenden Prüfverfahren mit unterschiedlichen Ausgabeständen gestattet.

Das Prüflaboratorium verfügt über eine aktuelle Liste aller Prüfverfahren im flexiblen Akkreditierungsbereich.

Die mit ** gekennzeichneten Akkreditierungsbereiche unterliegen nicht der Flexibilisierung.

D Elektromagnetische Verträglichkeit (EMV)

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|--|---|---|----------------------------|
| D.1 Grundnormen / Basic Standards * | | | |
| EMV | EN 61000-3-2:2014 IEC 61000-3-2:2014 | Electromagnetic compatibility (EMC) -- Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) | |
| EMV | EN 61000-3-3:2013 IEC 61000-3-3:2013 | ... -- 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 | |
| EMV | EN 61000-4-2:2009 IEC 61000-4-2:2008 | ... -- Part 4-2: Testing and measurement techniques – electrostatic discharge immunity test | |
| EMV | EN 61000-4-3: 2006 + A1:2008 + A2:2010 IEC 61000-4-3:2006 + A1:2007 + A2:2010 | ... -- Part 4-3: Testing and measurement techniques – radiated, radio frequency, electromagnetic field immunity test | |
| EMV | EN 61000-4-4:2012 IEC 61000-4-4:2012 | ... -- Part 4-4: Testing and measurement techniques – electrical fast transient/burst immunity test | |
| EMV | EN 61000-4-5:2014 IEC 61000-4-5:2014 | ... -- Part 4-5: Testing and measurement techniques – surge immunity test | |

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|--|---|---|----------------------------|
| EMV | EN 61000-4-6:2014 IEC 61000-4-6:2013 | ... -- Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields | |
| EMV | EN 61000-4-8:2010 IEC 61000-4-8:2009 | ... -- Part 4-8: Testing and measurement techniques – power frequency magnetic field immunity test | |
| EMV | EN 61000-4-9:2016 IEC 61000-4-9:2016 | ... -- Part 4-9: Testing and measurement techniques – pulse magnetic field immunity test | |
| EMV | EN 61000-4-11:2004 IEC 61000-4-11:2004 | ... -- Part 4-11: Testing and measurement techniques – voltage dips, short interruptions and voltage variations immunity test | |
| D.2 Fachgrundnormen / Generic Standards * | | | |
| EMV | EN 61000-6-1:2007 IEC 61000-6-1:2005 | ... -- Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments | |
| EMV | EN 61000-6-2:2005 IEC 61000-6-2:2005 | ... -- Part 6-2: Generic standards - Immunity for industrial environments | |
| EMV | EN 61000-6-3: 2007 + A1:2011 IEC 61000-6-3 2006 + A1:2010 AS/NZS 61000.6.3:2012 | ... -- Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments | |
| EMV | EN 61000-6-4: 2007 + A1:2010 IEC 61000-6-4 2006 + A1:2010 AS/NZS 61000.6.4:2007 | ... -- Part 6-4: Generic standards - Emission standard for industrial environments | |
| D.3 Produktnormen / Product Standards | | | |

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|---|----------------------------|
| EMV | EN 13241-1:2003+A2:2016 * | Tore- Produktnorm – Teil 1: Produkte ohne Feuer- und Rauchschutzeigenschaften; | |
| EMV | EN 50065-1:2011 * | Signalling on low-voltage electrical installations in the frequency range 3 kHz to 148,5 kHz -Part 1 : General requirements, frequency bands and Electromagnetic disturbances | |
| EMV | DIN EN 50121-3-2: 2016-01 * | Bahnanwendungen - Elektromagnetische Verträglichkeit - Teil 3-2: Bahnfahrzeuge - Geräte; Deutsche Fassung EN 50121-3-2:2006 | |
| EMV | EN 50121-4:2015 * | Railway applications – Electromagnetic compatibility (EMC) –Part 4: Emission and immunity of signalling and telecommunications apparatus | |
| EMV | 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 | |
| EMV | EN 50293:2012 * | Electromagnetic compatibility – Road traffic signal systems – Product standard | |
| EMV | EN 50412-2-1:2005 * VDE 0808-121:2006-04 | 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 | |
| EMV | DIN EN 50561-1: 2014-08 * | Power line communication apparatus used in low-voltage installations - Radio disturbance characteristics - | |
| EMV | EN 55011:2016 +A1:2017* IEC/CISPR 11 2015, modifiziert + A1:2017 | Industrial, scientific and medical (ISM) radio frequency equipment - Radio disturbances characteristic - Limits and methods of measurement. | |

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|-------------|--|--|----------------------------|
| EMV | EN 55013:2013+A1:2016 * IEC/CISPR 13:2009, modifiziert+AMD1:2015, modifiziert AS/NZS CISPR 13:2012 | Sound and television broadcast receivers and associated equipment - Radio disturbance characteristics - Limits and methods of measurement. | |
| EMV | EN 55014-1:2006 + A1:2009 + A2:2011 IEC/CISPR 14-1 2005 + A1:2008 + Cor. :2009 + A2:2011 AS/NZS CISPR 14.1:2013 | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus -Part 1 : Emission | |
| EMV | EN 55014-2:2015 IEC/CISPR 14-2:2015 | ... -Part 2: Immunity - Product family Standard | |
| EMV | EN 55015:2013+A1:2015 IEC/CISPR 15 2013+IS1:2013+ IS2:2013+A1:2015 AS/NZS CISPR 15:2011 | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment | |
| EMV | EN 55020:2007+ A12:2016 IEC/CISPR 20:2006 | Sound and television broadcast receivers and associated equipment - Immunity characteristics - Limits and methods of measurement | |
| EMV | EN 55022:2010 IEC/CISPR 22 2008, modifiziert AS/NZS CISPR 22: 2009/Amdt :2010 | Information technology equipment –Radio disturbance characteristics - Limits and methods of measurement | |
| EMV | EN 55024:2010+ A1:2015 IEC/CISPR 24:2010+ Cor.:2011+A1:2015 | Information technology equipment -Immunity characteristics - Limits and methods of measurement | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|--|----------------------------|
| EMV | DIN EN 55032:2016-02 | Elektromagnetische Verträglichkeit von Multimediageräten und -einrichtungen - Anforderungen an die Störaussendung (CISPR 32:2012+ Cor. 1:2012 + Cor. 2:2012); Deutsche Fassung EN 55032:2012 | |
| EMV | DIN EN 55035: 2018-04 EN 55035:2017 | Elektromagnetische Verträglichkeit von Multimediageräten – Anforderungen zur Störfestigkeit (CISPR 35:2016, modifiziert) | |
| EMV | 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 : Emission | |
| EMV | EN 55103-2:2009 | ... -Part 2: Immunity | |
| EMV | EN 60118-13:2011 IEC 60118-13:2016 | Electroacoustics Hearing aids -Part 13: Electromagnetic compatibility (EMC) | |
| EMV | EN 60669-2-1:2004/A1:2009 | Switches for household and similar fixed electrical installations -- Part 2-1: Particular requirements - Electronic switches | |
| EMV | EN 60669-2-2:2006 IEC 60669-2-2:2006 | ... -Part 2: Particular requirements -Section 2: Electromagnetic remote-control Switches (RCS) | |
| EMV | EN 60669-2-3:2006 IEC 60669-2-3:2006 | ... -- Part 2-3: Particular requirements - Time-delay switches (TDS) | |
| EMV | EN 60945:2002 IEC 60945 4th edition 2002:2002 | Maritime navigation and radio communication equipment and Systems - General requirements - Methods of testing and required test results | only EMC |
| EMV | EN 60974-10:2014+A1:2015 IEC 60974-10:2014+A1:2015 | Arc welding equipment --Part 10: Electromagnetic compatibility (EMC) requirements | |
| EMV | EN 61547:2009 IEC 61547:2009 | Equipment for general lighting purposes - EMC immunity requirements | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|---|----------------------------|
| EMV | EN 61800-3:2004 + A1:2012 IEC 61800-3 2004 + A1:2011 | Adjustable speed electrical power drive Systems --Part 3: EMC requirements and specific test methods | |
| EMV | EN 61204-3 :2000 IEC 61204-3:2000 | Stromversorgungsgeräte für Niederspannung mit Gleichstromausgang | |
| EMV | DIN EN 61326-1: 2013-07 | Titel (deutsch): Elektrische Mess-, Steuer-, Regel- und Laborgeräte - EMV-Anforderungen - Teil 1: Allgemeine Anforderungen (IEC 61326-1:2012); Deutsche Fassung EN 61326-1:2013 | |
| EMV | EN 300 386 V2.1.1 :2016-07 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Telecommunications network equipment Electromagnetic Compatibility (EMC) requirements | |
| EMV | EN 301 843-1 V1.3.1:2012-08 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for marine radio equipment and services; Part 1: Common technical requirements | |
| EMV | EN 301 843-2 V1.2.1:2004-06 | ... Part 2: Specific conditions for radiotelephone transmitters and receivers | |
| EMV | ETSI EN 301 843-4 V1.2.1:2004-04 | ... Part 4: Specific conditions for Narrow-Band Direct-Printing (NBDP) NAVTEX receivers | |
| EMV | Draft ETSI EN 301 489-1 V2.2.0:2017-03 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1 : Common technical requirements | |
| EMV | Draft ETSI EN 301 489-2 V2.1.0:2017-03 | ... Part 2: Specific conditions for radio paging equipment | |
| EMV | Final Draft ETSI EN 301 489-3 V2.1.1:2017-03 | ... Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|--|----------------------------|
| EMV | Draft ETSI EN 301 489-4 V3.2.0:2017-03 | ... Part 4: Specific conditions for fixed radio links and ancillary equipment and services | |
| EMV | Draft ETSI EN 301 489-5 V2.2.0:2017-03 | ... Part 5: Specific conditions for Private land Mobil Radio (PMR) and ancillary equipment (speech and non-speech) | |
| EMV | Draft ETSI EN 301 489-6 V2.2.0:2017-03 | ... Part 6: Specific conditions for Digital Enhanced Cordless Telecommunications (DECT) equipment | |
| EMV | EN 301 489-7 V1.3.1:2005-11 | ... Part 7: Specific conditions for mobile and portable radio and ancillary equipment of digital cellular radio telecommunications systems (GSM and DCS) | |
| EMV | EN 301 489-8 V1.2.1:2002-08 | ... Part 8: Specific conditions for GSM base stations | |
| EMV | Final Draft ETSI EN 301 489-9 V2.1.1:2017-03 | ... Part 9: Specific conditions for wireless microphones, similar Radio Frequency (RF) audio link equipment, cordless audio and in-ear monitoring devices | |
| EMV | EN 301 489-10 V1.3.1:2002-08 | ...; Part 10: Specific conditions for First (CT1 and CT1+) and Second Generation (CT2) Cordless Telephone equipment | |
| EMV | EN 301 489-11 V1.3.1:2006-05 | ... Part 11: Specific conditions for terrestrial sound broadcasting service transmitters | |
| EMV | Draft EN 301 489-12 V3.1.2:2017-10 | ... Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the Fixed Satellite Service (FSS) | |
| EMV | EN 301 489-13 V1.2.1:2002-08 | ...; Part 13: Specific conditions for Citizens' Band (CB) radio and ancillary equipment (speech and non-speech) | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|--|----------------------------|
| EMV | EN 301 489-14 V1.2.1:2003-05 | ... Part 14: Specific conditions for analogue and digital terrestrial TV broadcasting service transmitter" | |
| EMV | Draft ETSI EN 301 489-15 V2.2.0:2017-03 | ...; Part 15: Specific conditions for commercially available amateur radio equipment | |
| EMV | EN 301 489-16 V1.2.1:2002-08 | ...; Part 16: Specific conditions for analogue cellular radio communications equipment, mobile and portable | |
| EMV | Draft ETSI EN 301 489-17 V3.2.0:2017-03 | ...; Part 17: Specific conditions for 2,4 GHz wideband transmission systems and 5 GHz high performance RLAN equipment | |
| EMV | Draft ETSI EN 301 489-19 V2.1.0:2017-03 | ...; Part 19: Specific conditions for Receive Only Mobile Earth Stations (ROMES) operating in the 1,5 GHz band providing data communications | |
| EMV | Draft ETSI EN 301 489-20 V2.1.0:2017-10 | ...; Part 20: Specific conditions for Mobile Earth Stations (MES) used in the Mobile Satellite Services (MSS) | |
| EMV | EN 301 489-22 V1.3.1:2003-11 | ...; Part 22: Specific conditions for ground based VHF aeronautical mobile and fixed radio equipment | |
| EMV | EN 301 489-23 V1.5.1:2011-07 | ...; Part 23: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) Base Station (BS) radio, repeater and ancillary equipment | |
| EMV | EN 301 489-24 V1.5.1:2010-10 | ...; Part 24: Specific conditions for IMT-2000 CDMA Direct Spread (UTRA) for Mobile and portable (UE) radio and ancillary equipment | |
| EMV | EN 301 489-25 V2.3.2:2005-07 | ...; Part 25: Specific conditions for IMT-2000 CDMA Multi-carrier Mobile Stations and ancillary equipment | |
| EMV | EN 301 489-26 V2.3.2:2005-07 | ...; Part 26: Specific conditions for IMT-2000 CDMA Multi-carrier Base Stations and ancillary equipment | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|--|----------------------------|
| EMV | Draft ETSI EN 301 489–27 V2.2.0:2017-03 | ...; Part 27: Specific conditions for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) | |
| EMV | EN 301 489–28 V1.1.1:2004-09 | ...; Part 28: Specific conditions for wireless digital video links | |
| EMV | Draft ETSI EN 301 489–31 V2.2.0:2017-03 | ...; Part 31: Specific conditions for equipment in the 9 to 315 kHz band for Ultra Low Power Active Medical Implants (ULP-AMI) and related peripheral devices (ULP-AMI-P) | |
| EMV | Draft ETSI EN 301489-33 V2.2.0:2017-03 | Electromagnetic compatibility and Radio spectrum Matters (ERM) - Electromagnetic Compatibility (EMC) standard for radio equipment and services - Part 33: Specific conditions for Ultra Wide Band (UWB) communication devices | |
| EMV | Final Draft EN 301 489-34 V2.1.1:2017-04 | 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 | |
| EMV | Draft ETSI EN 301 489-50 V2.2.0:2017-03 | Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 50: Specific conditions for Cellular Communication Base Station (BS), repeater and ancillary equipment | |
| EMV | Draft ETSI EN 301 489-51 V2.1.0:2017-03 | 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 3.1b of Directive 2014/53/EU | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|---|---|--|----------------------------|
| EMV | Draft ETSI EN 301 489-52 V1.1.0 (2016-11) | Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 52: Specific conditions for Cellular Communication Mobile and portable (UE) radio and ancillary equipment; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU | |
| D.4 Hearing Aids Compatibility * | | | |
| | IEEE C63.19:2007 IEEE C63.19:2011 | Methods of Measurement of Compatibility between Wireless Communication Devices and Hearing Aids | |

E Produktsicherheit *

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| SEB | EN 60065: 2015 * EN 60065:2011 2002/A1/A2/A11/A12/AC VDE 0860: 2015 IEC 60065: 2014 IEC 60065 : 2011 UL 60065: 2015 UL 60065: 2003 CAN/CSA-C22.2 NO. 60065: 2016 AS/NZS 60065: 2012/A1: 2015 AS/NZS 60065: 2018 | Audio-, Video- und ähnliche elektronische Geräte - Sicherheitsanforderungen (Audio, Video and Similar Electronic Apparatus – Safety Requirements) | |
| SEB | EN 60086-4: 2015 IEC 60086-4: 2014 | Primary batteries - Part 4: Safety of lithium batteries | |
| SEB | EN 60086-5: 2016 EN 60086-5: 2011 IEC 60086-5: 2016 IEC 60086-5: 2011 | Primary batteries - Part 5: Safety of batteries with aqueous electrolyte | |
| SEB | EN 60215: 1989/A1/A2 VDE 0866: 1993/A1/A2 IEC 60215: 1987/A1/A2 IEC 60215: 2016 | Sicherheitsbestimmung für Funksender (Safety requirements for radio transmitting equipment) | |
| SEB | EN 60335-1: 2012/A11: 2014 IEC 60335-1: 2010/ Corr.1:2010/Corr. 2:2011/ A1:2013/A2:2016 | Household and similar electrical appliances – Safety – Part 1: General requirements | |
| SEB | EN 60335-2-29: 2004/ A2:2010 E EN 60335-2-29: 2015 IEC 60335-2-29: 2016 IEC 60335-2-29: 2002/A1:2004/A2:2009 | - Teil 2-29: Besondere Anforderungen für Batterieladegeräte (-Part 2-29: Particular requirements for battery chargers) | |

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| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| SEB | EN60335-2-95: 2016 IEC60335-2-95: 2011/ A1:2015 / A2:2017 | - Part 2-95: Particular requirements for drives for vertically moving garage doors for residential use | |
| SEB | EN60335-2-97: 2010 E EN 60335-2-97:2016 IEC60335-2-97:2016 IEC60335-2-97: 2002/ A1:2004/A2:2008 | - Part 2-97: Particular requirements for drives for rolling shutters, awnings, blinds and similar equipment | |
| SEB | EN 60669-1: 2009 IEC 60669-1:2017 IEC 60669-1:1998/A1:1999 /A2:2006 | Switches for household and similar fixed-electrical installations - Part 1: General requirements | |
| SEB | EN 60669-2-1: 2010 IEC 60669-2-1: 2002/ A1:2008 /A2:2015 | - Part 2-1: Particular requirements - Electronic switches | |
| SEB | EN 60695-11-5:2005 IEC 60695-11-5:2004 | Fire hazard testing - Part 11-5: Test flames - Needle-flame test method - Apparatus, confirmatory test arrangement and guidance | |
| SEB | EN 60695-2-10: 2014 IEC 60 695-2-10: 2013 | Part 2-10: Glowing/hot-wire based test methods – Glow-wire apparatus and common test procedure | |
| SEB | EN 60695-11-5:2017 EN 60695-11-5:2005 | Part 2-11: Glowing/hot-wire based test methods – Glow-wire flammability test method for end-products | |
| SEB | EN 60695-2-12:2011/A1 IEC 60695-2-12: 2010/A1 | Part 2-12: Glowing/hot-wire based test methods – Glow-wire flammability test method for materials | |
| SEB | EN 60695-11-10:2014 IEC 60695-11-10: 2013 | Part 11-10: Test flames – 50 W horizontal and vertical flame test methods | |
| SEB | EN 60695-11-20: 2015/AC IEC 60 695-11-20: 2015/C1 | Part 11-20: Test flames – 500 W flame test methods | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| SEB | EN 60730-1: 2016 EN 60730-1: 2012 IEC 60730-1: 2013/A1 | Automatic electrical controls for household and similar use - Part 1: General requirements | |
| SEB | EN 60730-2-2: 2006 IEC 60730-2-2: 2001/A1 | Automatic electrical controls for household and similar use - Part 2-2: Particular requirements for thermal motor protectors | |
| SEB | EN 60730-2-3: 2008 IEC 60730-2-3: 2006 | Automatic electrical controls for household and similar use - Part 2-3: Particular requirements for thermal protectors for ballasts for tubular fluorescent lamps | |
| SEB | EN 60730-2-4: 2008 IEC 60730-2-4: 2006 | Automatic electrical controls for household and similar use - Part 2-4: Particular requirements for thermal motor protectors for motor-compressors of hermetic and semi-hermetic type | |
| SEB | EN 60730-2-6: 2016 EN 60730-2-6: 2009 IEC 60730-2-6: 2015 | Automatic electrical controls for household and similar use - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements | |
| SEB | EN 60730-2-7: 2011 IEC 60730-2-7: 2015 | Automatic electrical controls for household and similar use - Part 2-7: Particular requirements for timers and time switches | |
| SEB | EN 60730-2-8: 2004 IEC 60730-2-8: 2000/A1/A2 | Automatic electrical controls for household and similar use - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements | |
| SEB | EN 60730-2-9: 2011 IEC 60730-2-9: 2015 / A1:2018 | Automatic electrical controls for household and similar use - Part 2-9: Particular requirements for temperature sensing controls | |
| SEB | EN 60730-2-10: 2008 IEC 60730-2-10: 2006 | Automatic electrical controls for household and similar use - Part 2-10: Particular requirements for motor-starting relays | |

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|-------------|---|---|----------------------------|
| SEB | EN 60730-2-11: 2008 IEC 60730-2-11: 2006 | Automatic electrical controls for household and similar use - Part 2-11: Particular requirements for energy regulators | |
| SEB | EN 60730-2-12: 2006 IEC 60730-2-12: 2015 | Automatic electrical controls for household and similar use - Part 2-12: Particular requirements for electrically operated door locks | |
| SEB | EN 60730-2-13: 2008 IEC 60730-2-13: 2017 IEC 60730-2-13: 2006 | Automatic electrical controls for household and similar use - Part 2-13: Particular requirements for humidity sensing controls | |
| SEB | EN 60730-2-14: 2009 IEC 60730-2-14: 2017 IEC 60730-2-14: 1995/A1/A2 | Automatic electrical controls for household and similar use - Part 2-14: Particular requirements for electric actuators | |
| SEB | EN 60730-2-15: 2011 IEC 60730-2-15: 2017 IEC 60730-2-15: 2008 | Automatic electrical controls for household and similar use - Part 2-15: Particular requirements for automatic electrical air flow, water flow and water level sensing controls | |
| SEB | EN 60730-2-19: 2009 IEC 60730-2-19: 1997/A1/A2 | Automatic electrical controls for household and similar use - Part 2-19: Particular requirements for electrically operated oil valves, including mechanical requirements | |
| SEB | EN 60825-1: 2015 IEC 60825-1: 2014 | Safety of laser products - Part 1: Equipment classification and requirements | |
| SEB | EN 60825-2: 2011 IEC 60825-2: 2004/A1/A2 | Safety of laser products - Part 2: Safety of optical fibre communication systems (OFCS) | |
| SEB | IEC 60 884-1:2002 /A1/A2 | Plugs and socket-outlets for household and similar purposes –Part 1: General requirements | |
| SEB | VDE 0620-1: 2016 | Stecker und Steckdosen für den Hausgebrauch und ähnliche Anwendungen – Teil 1: Allgemeine Anforderungen an ortsfeste Steckdosen | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|--|----------------------------|
| SEB | VDE 0620-2-1: 2016 | Stecker und Steckdosen für den Hausgebrauch und ähnliche Anwendungen – Teil 2-1: Allgemeine Anforderungen an Stecker und Kupplungsdosen | |
| SEB | BS 1363-1: 2016 | 13 A plugs, socket-outlets, adaptors and connection units. Specification for rewirable and non-rewirable 13 A fused plugs | |
| SEB | BS 1363-2: 2016 | 13 A plugs, socket-outlets, adaptors and connection units. Specification for 13 A switched and unswitched socket-outlet | |
| SEB | BS 1363-3: 2016 | 13 A plugs, socket-outlets, adaptors and connection units. Specification for adaptors | |
| SEB | AS/NZS 3112: 2016 | Approval and Test specification – Plugs and socket-outlets | |
| SEB | NF C61-314:2008/A1:2010 | Plugs and socket-outlets for household and similar purposes – 6A/250V and 16A/250V | |
| SEB | SEV 1011: 2009 | Stecker und Steckdosen für den Hausgebrauch und ähnliche Zwecke | |
| SEB | SEV-1011/A1:2012 | Stecker und Streckdosen für den Hausgebrauch und ähnliche Zwecke – A1: Abzweig- und Zwischenstecker, Verlängerungskabel, Steckdosenleisten sowie Reise- und Fixadapter | |
| SEB | EN 50075: 1990 VDE 0620-101:1992 | Steckvorrichtungen bis 400 V 25 A flache, nichtwiederanschließbare zweipolige Stecker, 2,5 A 250 V, mit Leitung, die für die Verbindung von Klasse-II-Geräten für Haushalt und ähnliche Zwecke (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) | |

Anlage zur Akkreditierungsurkunde D-PL-12076-01-01

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| SEB | EN 60 950-1: 2014 VDE 0805-1: 2014 IEC 60950-1: 2005/A1/A2 UL 60950-1: 2007 CAN/CSA-C22.2 NO. 60950-1-07: R2016 CAN/CSA-C22.2 NO. 60950-1A-07: R2016 CAN/CSA-C22.2 NO. 60950-1B-07: R2016 AS/NZS 60950.1: 2015 | Einrichtungen der Informationstechnik – Sicherheit, Teil 1: Allgemeine Anforderungen (Information Technology Equipment – Safety – Part1: General requirements) | |
| SEB | EN 60950-21: 2003 VDE 0805-21: 2003 IEC 60950-21: 2002 | Information technology equipment – Safety – Part 21: Remote power feeding | |
| SEB | EN 60950-22: 2017 EN 60950-22: 2006/AC VDE 0805-22: 2006 IEC 60950-22: 2016 | Information technology equipment – Safety – Part 22: Equipment to be installed outdoors | |
| SEB | EN 61010-1: 2011 IEC 61010-1: 2010/ A1:2016 | Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements | |
| SEB | EN 61010-2-010: 2014 IEC 61010-2-010: 2014 | Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-010: Particular requirements for laboratory equipment for the heating of materials | |
| SEB | EN 61010-2-020: 2017 EN 61010-2-020: 2007 IEC 61010-2-020: 2016 IEC 61010-2-020: 2006 | Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-020: Particular requirements for laboratory centrifuges | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|---|----------------------------|
| SEB | EN 61010-2-030: 2011 IEC 61010-2-030: 2017 IEC 61010-2-030: 2010 | Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-030: Particular requirements for testing and measuring circuits | |
| SEB | EN 61010-2-032:2012 IEC 61010-2-032: 2012 | 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 | |
| SEB | EN 61010-2-040: 2015 IEC 61010-2-040: 2015 | 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 | |
| SEB | EN 61010-2-051: 2015 IEC 61010-2-051: 2015 | Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-051: Particular requirements for laboratory equipment for mixing and stirring | |
| SEB | EN 61010-2-061: 2016 IEC 61010-2-061: 2015 | 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 | |
| SEB | EN 61010-2-081: 2015 IEC 61010-2-081: 2015 | 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 | |
| SEB | EN 61010-2-101: 2017 EN 61010-2-101: 2003 IEC 61010-2-101: 2015 | Safety requirements for electrical equipment for measurement, control, and laboratory use - Part 2-101: Particular requirements for in vitro diagnostic (IVD) medical equipment | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| SEB | EN 61010-2-201: 2013/AC IEC 61010-2-201: 2017 IEC 61010-2-201: 2013 | Safety requirements for electrical equipment for measurement, control and laboratory use - Part 2-201: Particular requirements for control equipment | |
| SEB | EN 61010-031: 2016 IEC 61010-031: 2015 | 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 | |
| SEB | EN 61058-1: 2002/A2:2008 E EN 61058-1: 2015 IEC 61058-1:2016 IEC 61058-1:2000 /A1:2001/A2:200 | Switches for appliances - Part 1: General requirements | |
| SEB | EN 61058-2-4:2005 IEC 61058-2-4:1995 /A1:2003 | Switches for appliances - Part 2-4: Particular requirements for independently mounted switches | |
| SEB | EN 61558-1: 2006/A1: 2009 IEC61558-1: 2017 IEC 61558-1: 2005/A1: 2009 | Safety of power transformers, power supplies, reactors and similar products - Part 1: General requirements and tests | |
| SEB | EN 61558-2-1: 2007 IEC 61558-2-1: 2007 | Safety of power transformers, power supplies, reactors and similar products - Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications | |
| SEB | EN 61558-2-2: 2007 IEC 61558-2-2: 2007 | Safety of power transformers, power supplies, reactors and similar products - Part 2-2: Particular requirements and tests for control transformers and power supplies incorporating control transformers | |
| SEB | EN 61558-2-3: 2011 IEC 61558-2-3: 2010 | Safety of transformers, reactors, power supply units and combinations thereof - Part 2-3: Particular requirements and tests for ignition transformers for gas and oil burners | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| SEB | EN 61558-2-4: 2009 IEC 61558-2-4: 2009 | Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V - Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers | |
| SEB | EN 61558-2-5: 2011 IEC 61558-2-5: 2010 | Safety of transformers, reactors, power supply units and combinations thereof - Part 2-5: Particular requirements and tests for transformer for shavers, power supply units for shavers and shaver supply units | |
| SEB | EN 61558-2-6: 2010 IEC 61558-2-6: 2009 | Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V - Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers | |
| SEB | EN 61558-2-7: 2008 IEC 61558-2-7: 2007 | Safety of power transformers, power supplies, reactors and similar products - Part 2-7: Particular requirements and tests for transformers and power supplies for toys | |
| SEB | EN 61558-2-8: 2011 IEC 61558-2-8: 2010 | Safety of transformers, reactors, power supply units and combinations thereof - Part 2-8: Particular requirements and tests for transformers and power supply units for bells and chimes | |
| SEB | EN 61558-2-9: 2011 IEC 61558-2-9: 2010 | Safety of transformers, reactors, power supply units and combinations thereof - Part 2-9: Particular requirements and tests for transformers and power supply units for class III handlamps for tungsten filament lamps | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|--|----------------------------|
| SEB | EN 61558-2-13: 2009 IEC 61558-2-13: 2009 | Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V - Part 2-13: Particular requirements and tests for auto transformers and power supply units incorporating auto transformers | |
| SEB | EN 61558-2-14: 2013 IEC 61558-2-14: 2012 | Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V - Part 2-14: Particular requirements and tests for variable transformers and power supply units incorporating variable transformers | |
| SEB | EN 61558-2-15: 2012 IEC 61558-2-15: 2011 | Safety of transformers, reactors, power supply units and combinations thereof - Part 2-15: Particular requirements and tests for isolating transformers for the supply of medical locations | |
| SEB | EN 61558-2-16:2010/ A1 IEC 61558-2-16: 2009/A1 | Safety of transformers, reactors, power supply units and similar products for supply voltages up to 1100 V - Part 2-16: Particular requirements and tests for switch mode power supply units and transformers for switch mode power supply units | |
| SEB | EN 61558-2-19: 2001 IEC 61558-2-19: 2000 | Safety of power transformers, power supply units and similar devices - Part 2-19: Particular requirements for perturbation attenuation transformers | |
| SEB | EN 61558-2-20: 2011 IEC 61558-2-20: 2010 | Safety of transformers, reactors, power supply units and combinations thereof - Part 2-20: Particular requirements and tests for small reactors | |
| SEB | EN 61558-2-23: 2011 IEC 61558-2-23: 2010 | Safety of transformers, reactors, power supply units and combinations thereof - Part 2-23: Particular requirements and tests for transformers and power supply units for construction sites | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|--------------------|--|---|----------------------------|
| SEB | EN 62133: 2013 IEC 62133: 2012 | 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 | |
| SEB | EN 62281: 2017 EN 62281: 2013 IEC 62281: 2016 IEC 62281: 2012 | Safety of primary and secondary lithium cells and batteries during transport | |
| SEB | EN 62368-1: 2014/AC: 2015 VDE 0868-1:2016 IEC 62368-1:2014/cor. 2015, Ed. 2 UL 62368-1: 2014 CAN/CSA-C22.2 NO. 62368-1-14 AS/NZS 62368.1:2018 | Audio/video, information and communication technology equipment Safety – Requirements | |
| SEB | EN 62133-1: 2017 IEC 62133-1: 2017 | 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 application – Part 1: Nickel systems | |
| Battery/ Safety | EN 62133-2: 2017 IEC 62133-2: 2017 | 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 application – Part 2: Lithium systems | |
| Battery/ Safety | IEEE 1725: 2013 | Rechargeable batteries for cellular telephones | |
| Battery/ Safety | IEEE 1625: 2014 | Rechargeable batteries for multi-cell mobile computing devices | |

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|----------------------------|--|--|----------------------------|
| Battery/ Safety | UN ST-SG-AC10-11 cl. 38.3 Revision 6 | Recommendations on the TRANSPORT OF DANGEROUS GOODS Manual of Tests and Criteria ST-SG-AC10-11 Section 38.3 Lithium metal and lithium ion batteries | |
| Battery/ Safety | VDE-AR-E 2510-50 | Stationäre Energiespeichersysteme mit Lithium-Batterien - Sicherheitsanforderungen | |
| Battery/ Safety | EN 62619: 2017 IEC 62619: 2017 | Secondary cells and batteries containing alkaline or other non-acid electrolytes - Safety requirements for secondary lithium cells and batteries, for use in industrial applications | |
| Battery/ Safety | UL 1642: 2012 | Lithium Batteries | |
| Battery/ Safety | UL 2054: 2004 | Household and commercial batteries | |
| Nicht Flexibler Bereich ** | | | |
| Battery/ Safety | Battery System program Revision 2.5: 2013 | CTIA Certification Requirements for Battery System Compliance to IEEE 1725 | |
| Safety | E EN62368-3: 2015 IEC 62368-3: 2017 | Audio/Video, information and communication technology equipment – Part 3: Safety aspect for DC power transfer through communication cables and ports | |
| Battery/ Safety | Regelung 6. Anhang: 1 – Part 2; 3; 4 (4A – 4B); 5; 6 (Part 1 – Part 3); 8 (Appendix, 8A - 8I); 9 (9A - 9B) der UN ECE-R 136 | Regelung Nr. 136 der Wirtschaftskommission der Vereinten Nationen für Europa (UN/ECE) – Einheitliche Bedingungen für die Genehmigung der Fahrzeuge der Kategorie L hinsichtlich der besonderen Anforderungen an den Elektroantrieb | |

F SAR / EMF *

SAR/EMF*

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| SAR/EMF | EN 50360:2001+ Cor.: 2006+ A1:2012 | Product standard to demonstrate the compliance of mobile phones with the basic restrictions related to human exposure to electromagnetic fields (300 MHz – 3 GHz) | |
| SAR/EMF | EN 50364:2010 | Limitation of human exposure to electromagnetic field from devices operating in the frequency range 0 Hz to 10 GHz, used in Electronic Article Surveillance (EAS), Radio Frequency Identification (RFID) and similar applications | |
| SAR/EMF | EN 50383:2010 | Basic standard for the calculation and measurement of electromagnetic field strength and SAR related to human exposure from radio base stations and fixed terminal stations for wireless telecommunication system (110 MHz – 40 GHz) | |
| SAR/EMF | EN 50385:2002 | Product standard to demonstrate the compliance of radio base stations and fixed terminal stations for wireless telecommunication systems with the basic restrictions or the reference levels related to the general exposure to radio frequency electromagnetic fields (110 MHz – 40 GHz) | |
| SAR/EMF | EN 50413:2009 +A1:2013 VDE 0848-1 | Basic standard on measurement and calculation procedures for human exposure to electric, magnetic and electromagnetic fields (0 Hz - 300 GHz) In combination with: 26. BImSchV, 26. Verordnung zur Durchführung des Bundes-Immissionsschutzgesetzes (Verordnung über elektromagnetische Felder), Bekanntmachung 14.08.2013 | |
| SAR/EMF | EN 50566:2013 | Product standard to demonstrate compliance of radio frequency fields from handheld and body-mounted wireless communication devices used by the general public (30 MHz - 6 GHz) | |

SAR/EMF*

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| SAR/EMF | EN 62 209-1:2016 IEC 62209-1:2016 | Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices – Human models, instrumentation, and procedures – Part 1: Procedure to determine the specific absorption rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz) | |
| SAR/EMF | EN 62 209-2:2010 IEC 62209-2:2010+Cor.:2010 | ... – Part 2: Procedure to determine the specific absorption rate (SAR) in the head and body for 30 MHz to 6 GHz hand-held and body-mounted devices used in close proximity to the body | |
| SAR/EMF | EN 62 311:2008 IEC 62 311:2007 | Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz – 300 GHz) | |
| SAR/EMF | DIN EN 62369-1:2010-03 | 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 devices used for electronic article surveillance, radio frequency identification and similar systems (IEC 62369-1:2008); German version EN 62369-1:2009 | |
| SAR/EMF | EN 62 479:2010 IEC 62 479:2010 | 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) | |
| SAR/EMF | IEEE C95.1-1992 IEEE C95.1-1999 IEEE C95.1-2005 | IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz | |

SAR/EMF*

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| SAR/EMF | IEEE C95.3-2002 | IEEE Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields – RF and Microwave | |
| SAR/EMF | IEEE 1528-2003 IEEE 1528-2011 IEEE 1528-2013 | Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques | |
| SAR/EMF | Canada: RSS-102 Issue 3 (2009) Issue 4 (2010) Issue 5 (2015) | Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands) | |
| SAR/EMF | EMR 2003 | Radio Communications (Electromagnetic Radiation – Human Exposure) Standard 2003 | |
| SAR/EMF | ARPANSA RPS No.3 - 2002 | Radiation Protection Standard for Maximum Exposure Levels to Radiofrequency Fields – 3 kHz to 300 GHz | |
| SAR/EMF | EN 50663:2017 | Generic standard for assessment of low power electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (10MHz - 300 GHz) | |
| SAR/EMF | EN 50665:2017 | Generic standard for assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz) | |
| SAR/EMF | AS/NZS 2772.2:2016 | Radiofrequency fields: Principles and methods of measurement and computation – 3 kHz to 300 GHz | |

G Umwelt

Umwelt *

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| Umwelt | EN 60945: 2003 IEC 60945: 2002 | Maritime navigation and radio communication equipment and Systems – General requirements – Methods of testing and required test results | |
| Umwelt | EN 60068-2-1: 2008 IEC 60068-2-1: 2007 | Environmental testing - Part 2-1: Tests - Test A: Cold | |
| Umwelt | EN 60068-2-2: 2008 IEC 60068-2-2: 2007 | Environmental testing - Part 2-2: Tests - Test B: Dry heat | |
| Umwelt | EN 60068-2-6: 2008 IEC 60068-2-6: 2007 | Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal) | |
| Umwelt | EN 60068-2-14: 2010 IEC 60068-2-14: 2009 | Environmental testing - Part 2-14: Tests - Test N: Change of temperature | |
| Umwelt | EN 60068-2-27: 2010 IEC 60068-2-27: 2008 | Environmental testing - Part 2-27: Tests - Test Ea and guidance: Shock | |
| Umwelt | EN 60068-2-30: 2006 IEC 60068-2-30: 2005 | Environmental testing - Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle) | |
| Umwelt | EN 60068-2-38: 2010 IEC 60068-2-38: 2009 | Environmental testing - Part 2-38: Tests - Test Z/AD: Composite temperature/humidity cyclic test | |

Umwelt *

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| Umwelt | EN 60068-2-47: 2006 IEC 60068-2-47: 2005 | Environmental testing - Part 2-47: Tests - Mounting of specimens for vibration, impact and similar dynamic tests | |
| Umwelt | EN 60068-2-48: 2000 IEC 60068-2-48: 1982 | Environmental testing - Part 2: Tests; guidance on the application of the tests of IEC 60068 to simulate the effects of storage | |
| Umwelt | EN 60068-2-64: 2009 IEC 60068-2-64: 2008 | Environmental testing - Part 2-64: Tests - Test Fh: Vibration, broadband random and guidance | |
| Umwelt | EN 60068-2-78: 2013 IEC 60068-2-78: 2012 | Environmental testing - Part 2-78: Tests; Test Cab: Damp heat, steady state | |

H Smart Card Technology

H1 Smart Card Terminals, Level 1 Type Approval Test *

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|--|----------------------------|
| Smart Card | EMV 2000 / v4.3 / 11.2011 | Integrated Circuit Card Specifications for Payment Systems; Book 1: Application Independent ICC to Terminal Interface Requirements | |
| Smart Card | EMV 2000/ v4.3 / 11.2011 | Integrated Circuit Card Specifications for Payment Systems; Book 2: Security and Key Management | |

H1 Smart Card Terminals, Level 1 Type Approval Test *

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|---|----------------------------|
| Smart Card | EMV 2000/ v4.3 / 11.2011 | Integrated Circuit Card Specifications for Payment Systems; Book 3: Application Specification | |
| Smart Card | EMV 2000/ v4.3 / 11.2011 | Integrated Circuit Card Specifications for Payment Systems; Book 4: Cardholder, Attendant and Acquirer Interface Requirements | |
| Smart Card | EMV 2000/ v4.3 / 11.2011 | Terminals Requirements of Chip Pay Now (Debit) and Pay Later (Credit) Cards | |
| Smart Card | EMVCo / Version 4.3a /11.2011 | EMVCo Terminal Type Approval Contact Level 1 Administrative Process | |

H2 RF Schnittstelle für ID-Dokumente (e-Passport) *

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|----------------------------|--|--|----------------------------|
| Nicht Flexibler Bereich ** | | | |
| | BSI TR-03105 Part 2, Edition 3 (2016-11-04) | Test Plan for Official Electronic ID Documents with Secure Contactless Integrated Circuit | |
| | BSI TR-03105 Part 4, Edition 3 (2016-11-04) | Test Plan for ICAO-compliant Proximity Coupling Devices (PCD) on Layers 1-4 | |
| | ISO/IEC 18745-2:2016, First edition (2016-08-15) | Information technology – Test methods for machine readable travel documents (MRTD) and associated devices – Part 2: Test methods for the contactless interface | |
| | CEN/TS 16794-2:2017, Second edition (July 2017) | Public transport – Communication between contactless readers and fare media – Part 2: Test plan for ISO/IEC 14443 | |

H2 RF Schnittstelle für ID-Dokumente (e-Passport) *

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|---|----------------------------|
| | ISO/IEC 10373-6:2016, Third edition (2016-07-15) | Identification cards – Test methods – Part 6: Proximity cards | |

I Bluetooth®

*I Bluetooth® **

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|--|----------------------------|
| Bluetooth | Low energy RF PHY | RF-PHY.TS/4.0/4.1/4.2 | |
| Bluetooth | RF Specification | Specification 2.1/2.1+EDR/3.0/3.0 + HS/4.0/4.1/4.2 | |
| Bluetooth | Profile Specification | PTS 6.4.0 | |

K Automotive

*Automotive **

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|---|----------------------------|
| EMV | ISO 11452-2 2nd edition:2004 | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 2: Absorber-lined shielded enclosure. | |
| EMV | ISO 11452-4 3rd edition:2005 Corr.1:2009 | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 4: Bulk current injection (BCI). | |
| EMV | ISO 11452-4 4th edition:2011 | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 4: Harness excitation methods | |
| EMV | ISO 11452-5 2nd edition:2002 | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 5: Stripline. | |

Automotive *

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|--|----------------------------|
| EMV | ISO 11452-8 2nd edition:2015 | Road vehicles – Component test methods for electrical disturbances from narrowband radiated electromagnetic energy – Part 8: Immunity to magnetic fields | |
| EMV | ISO 11452-9 1st edition:2012 | Road vehicles - Component test methods for electrical disturbances from narrowband radiated Electromagnetic energy - Part 9: Portable Transmitters | |
| EMV | ISO 16750-2 4th edition:2012 | Road vehicles – Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads | |
| EMV | ISO 10605 2008/ Amd.1:2014 | Road vehicles – Electrical disturbances from electrostatic discharges. | |
| EMV | ISO 7637-1 1st edition:1990 DIN 40 839-1:1992 | Road vehicles – Electrical disturbance by conduction and coupling – Part 1: Passenger cars and light commercial vehicles with nominal 12-V supply voltage – Electrical transient conduction along supply lines only. | |
| EMV | ISO 7637-2 1st edition:1990 DIN 40 839-1:1992 | Road vehicles – Electrical disturbance by conduction and coupling – Part 2: Commercial vehicles with nominal 24-V supply voltage – Electrical transient conduction along supply lines only. | |
| EMV | ISO 7637-2 2nd edition:2004 Amd1:2008 3rd edition:2011 | Road vehicles – Electrical disturbance from conduction and coupling – Part 2: Electrical transient conduction along supply lines only. | |

Automotive *

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|--|----------------------------|
| EMV | ISO 7637-3 1st edition:1995 | Road vehicles – Electrical disturbance by conduction and coupling – Part 3: Vehicles with nominal 12-V or 24-V supply voltage – Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines. | |
| EMV | ISO 7637-3 2nd edition:2007 | Road vehicles – Electrical disturbance from conduction and coupling – Part 3: Electrical transient transmission by capacitive and inductive coupling via lines other than supply lines | |
| EMV | ISO 14982 1st edition:1998 EN ISO 14982:2009 | Agricultural and forestry machinery – Electromagnetic compatibility – Test methods and acceptance criteria | |
| EMV | EN 12895:2015 DIN EN 12895: | Industrial trucks – Electromagnetic compatibility | |
| EMV | EN 13309:2010 DIN EN 13309:2010 | Construction machinery - Electromagnetic compatibility of machines with internal electrical power supply | |
| EMV | EN 50498:2010 DIN EN 50498:2011 | Electromagnetic compatibility (EMC) - Product family standard for aftermarket electronic equipment in vehicles; German version EN 50498:2010 | |
| EMV | EN 55012 2007 /A1:2009 DIN EN 55012:2010 IEC/CISPR 12 6th edition:2007/ A1:2009 AS/NZS CISPR 12:2009 | Vehicles, boats and internal combustion engine driven devices – Radio disturbance characteristics – Limits and methods of measurement for the protection of receivers except those installed in the vehicle/boat/device itself or in adjacent vehicles/boats/devices | |

Automotive *

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|----------------------------|---|--|---------------------------------------|
| EMV | EN 55025:2008 DIN EN 55025:2009 IEC/CISPR 25 3rd edition:2008 | Radio disturbance characteristics for the protection of receivers used on board vehicles, boats and on devices – Limits and methods of measurement | |
| EMV | ISO 13766 2nd edition:2006 | Earth-moving machinery – Electromagnetic compatibility | |
| EMV | UN ECE-R 10, Rev.4 Supplement 2 | Regelung Nr. 10– Einheitliche Bedingungen für die Genehmigung der Fahrzeuge hinsichtlich der elektromagnetischen Verträglichkeit Anhang 7, 8, 9, 10 | |
| EMV | UN ECE-R 10, Rev.5 | Regelung Nr. 10– Einheitliche Bedingungen für die Genehmigung der Fahrzeuge hinsichtlich der elektromagnetischen Verträglichkeit Anhang 7, 8, 9, 10, 17, 18, 19, 20, 21, 22 | Anhang 17 u. 18: nur ≤16 A / Phase |
| EMV/ Battery | Regelung 6. Anhang 1 – Part 2; 3; 4 (4A – 4B); 5; 6 (Part 1 – Part 3); 8 (Appendix, 8A - 8I); 9 (9A - 9B) der UN ECE-R 100 Rev. 2 Änd.01, Änd.02, Änd.03 | Regelung Nr. 100 der Wirtschaftskommission der Vereinten Nationen für Europa (UN/ECE) – Einheitliche Bedingungen für die Genehmigung der Fahrzeuge hinsichtlich der besonderen Anforderungen an den Elektroantrieb | |
| nicht Flexibler Bereich ** | | | |
| EMV | Übersetzung der KN41: 2016-12 | Car and internal combustion engine driven equipment electromagnetic compatibility test method | |

O Akustik

Akustik

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|---|----------------------------|
| Akustik | EN 50332-1 DIN EN 50332-1:2014 | Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 1: General method for "one package equipment"; | |
| Akustik | DIN EN 50332-2:2014 | Sound system equipment: Headphones and earphones associated with portable audio equipment - Maximum sound pressure level measurement methodology and limit considerations - Part 2: Matching of sets with headphones if either or both are offered separately | |
| Akustik | EN 60118-0: 1993 +A1:1994 DIN EN 60118-0:1994 IEC 60118-0:2015 | Hörgeräte; Teil 0: Messung der elektroakustischen Eigenschaften | |
| Akustik | EN 60118-1:1999 DIN EN 60118-1:1995+A1:1998 IEC 60118-1:1995+A1:1998 | Hörgeräte - Teil 1: Hörgeräte mit Induktionsspuleneingang | |
| Akustik | EN 60118-2:1995 +A2:1997 DIN EN 60118-2:1998 IEC 60118-2:1983+A1:1993 +A2:1997 | Hörgeräte - Teil 2: Hörgeräte mit automatischer Verstärkungsregelung | |
| Akustik | EN 60118-6:1999 DIN EN 60118-6:2000 IEC 60118-6:1999 | Hörgeräte - Teil 6: Eigenschaften elektrischer Eingänge von Hörgeräten | |

Akustik

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|---|---|----------------------------|
| Akustik | EN 60118-7:2005 DIN EN 60118-7:2006 IEC 60118-7:2005 | Akustik - Hörgeräte - Teil 7: Messung der Übertragungseigenschaften von Hörgeräten zum Zwecke der Qualitätssicherung in der Herstellung, Versorgung und Lieferung | |
| Akustik | EN 60118-13:2011 DIN EN 60118-13:2012 IEC 60118-13:2016 | Akustik - Hörgeräte - Teil 13: Elektromagnetische Verträglichkeit (EMV) | |
| Akustik | NSH 7.0 7th edition, 2007-03-01 | Hearing Aids, requirements and guidelines | |
| Akustik | ETSI EG 202 518 V1.4.1: 2014-01 | Speech Processing, Transmission and Quality Aspects (STQ); Acoustic Output of Terminal Equipment; Maximum Levels and Test Methodology for Various Applications | |
| Akustik | ETSI EN 300 175-8 V2.6.1: 2015-07 | Radio Equipment and Systems (RES); Digital European Cordless Telecommunication (DECT); Common Interface (CI); Part 8: Speech coding and transmission | |
| Akustik | 3GPP TS 26.131 V13.1.0: 2016-01 | 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Terminal acoustic characteristics for telephony; Requirements | |
| Akustik | 3GPP TS 26.132 V13.1.0: 2016-01 | 3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; Speech and video telephony terminal acoustic test specification | |
| Akustik | IEEE C63.19:2011 | Methods of Measurement of Compatibility between Wireless Communication Devices and Hearing Aids | |
| Akustik | CS-03 Part V Issue 09:2015-10 | Compliance Specification for Terminal Equipment, Terminal Systems, Network Protection Devices, Connection Arrangements and Hearing Aids Compatibility | |

Akustik

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|----------------------------|--|---|----------------------------|
| Akustik | 47 CFR Part 68.316:2016-03 | Hearing aid compatibility: Technical requirements. | Medizin |
| Akustik | 47 CFR Part 68.317:2016-03 | Hearing aid compatibility volume control: technical standards | |
| Akustik | AS/ACIF S040:2001 | Requirements for Customer Equipment for use with Standard Telephone Service – Features for special needs of persons with disabilities | |
| Akustik | AS/CA S004:2013 | Voice performance requirements for Customer Equipment | |
| Akustik | EN 60118-15:2012 IEC 60118-15:2012 | Electroacoustics - Hearing aids - Part 15: Methods for characterising signal processing in hearing aids with a speech-like signal | |
| Akustik | ANSI/ASA S3.22-2014 | Specification of Hearing Aid Characteristics | |
| Nicht Flexibler Bereich ** | | | |
| Akustik | TBR 10 Third Edition: 1999-07 | Digital European Cordless Telecommunications (DECT); Telephony applications | |
| Akustik | TBR 38:1998-05 | Attachment requirements for a terminal equipment incorporating an analogue handset function capable of supporting the justified case Service when connected to the analogue interface of the PSTN in Europe | |

P Near Field Communication (NFC) **

| Fachbereich | Norm oder Prüfverfahren (Ausgabestand) | Titel der Norm oder des Prüfverfahrens | Prüfbereich /Einschränkung |
|-------------|--|--|----------------------------|
| NFC | NFCForum_TestCasesForDP-2.0.00-Part 1-20170816 NFCForum_TestCasesForDP-2.0.00-Part 2-20170816 NFCForum_TestCasesForDP-2.0.00-Part 3-20170823 | NFC Forum Test Cases for Digital Protocol Part 1: Overview and General Information Version 2.0.00 (2017-08-09) [DP_TC1] NFC Forum Test Cases for Digital Protocol Part 2: Installation and Poll Mode Version 2.0.00 (2017-08-09) [DP_TC2] NFC Forum Test Cases for Digital Protocol Part 3: Listen Mode Version 2.0.00 (2017-08-09) [DP_TC3] | |
| NFC | NFCForum_TestCasesFor Analog_V2.0.11 | NFC Forum Test Cases for Analog Version 2.0.11_2017-06-20 (2017-06-22) [ANALOG_TC] | |
| NFC | NFCForum_TestCasesForType1Tag-v1.2.01 | NFC Forum Test Cases for Type 1 Tag Operation Version 1.2.01 (2015-12-11) [T1T_TC] | |
| NFC | NFCForum_TestCasesForType2Tag-v1.0.00 | NFC Forum Test Cases for Type 2 Tag and Type 2 Tag Operation Version 1.0.00 (2017-08-09) [T2T_TC] | |
| NFC | NFCForum-TestCasesForType3Tag-1.0.00 | NFC Forum Test Cases for Type 3 Tag and Type 3 Tag Operation Version 1.0.00 (2017-09-08) [T3T_TC] | |
| NFC | NFCForum-TestCasesForType4Tag-1.0_20170809 | NFC Forum Test Cases for Type 4 Tag and Type 4 Tag Operation Version 1.0.00 (2017-08-09) [T4T_TC] | |
| NFC | NFCForum-TestCasesForType5Tag-1.0.00-170809 | NFC Forum Test Cases for Type 5 Tag and Type 5 Tag Operation Version 1.0.00 (2017-08-09) [T5T_TC] | |
| NFC | NFCForum-TestCasesForTagPerformance-1.0.00-170809 | NFC Forum Test Cases for Tag Performance Version 1.0.00 (2017-08-09) [PERF_TC] | |
| NFC | NFCForum_Test_Cases_for_LLCP_v1.2.01 | NFC Forum Test Cases for LLCP Version 1.2.01 (2016-12-02) [LLCP_TC] | |
| NFC | NFCForum_TestCasesForSNEP_v1.0.06_2015-12-06 | NFC Forum Test Cases for the SNEP Protocol Version 1.0.06 (2016-01-13) [SNEP_TC] | |