

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-20201-01-02 according to DIN EN ISO/IEC 17025:2018

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

Holder of certificate:

**Siemens Healthcare GmbH  
Corporate Testing Laboratory**

At the following locations:

**Allee am Röthelheimpark 2, 91052 Erlangen  
Guenther-Scharowsky-Straße 21, 91058 Erlangen**

Tests in the fields:

**Safety electrical equipment  
Electromagnetic compatibility (EMC) and Radio**

**The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkKS, to use standards or equivalent testing methods listed here with different issue dates.**

**The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.**

**# On-site assessment in the field safety electrical equipment and electromagnetic compatibility (EMC)**

**This document is a translation. The definitive version is the original German annex to the accreditation certificate.**

Annex to the accreditation certificate D-PL-20201-01-02

| Technical field        | Standard or test method / revision level   | Title of standard or test method (deviations / modifications of standard)  | Test area / Reductions   |
|------------------------|--|--|--|
| Electrical engineering | # IEC 60529:1989 + A1:1999 + A2:2013 + CSV/COR2:2015<br># EN 60529:1991 + A1:2000 + A2:2013<br><br># DIN EN 60529:2000 | Degrees of protection provided by enclosures (IP code) (IEC 60529:1989 + A1:1999); German version EN 60529:1991 + A1:2000  | Only<br>IPx8<br>IPx3<br>IPx4   |
| Electrical engineering | # IEC 61010-1:2001<br># EN 61010-1:2001<br><br># DIN EN 61010-1:2002   | Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements (IEC 61010-1:2001); German version EN 61010-1:2001             |  |
| Electrical engineering | # IEC 61010-1:2010 + A1:2016<br># EN 61010-1:2010<br><br># DIN EN 61010-1:2011   | Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements (IEC 61010-1:2010 + Cor.:2011); German version EN 61010-1:2010 |  |
| <b>Basic standards</b> |  |  |  |
| EMC                    | # IEC 61000-4-2:2008   | Electromagnetic compatibility (EMC) Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test   |  |
| EMC                    | # DIN EN 61000-4-2:2009  | Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:2008); German version EN 61000-4-2:2009      |  |
| EMC                    | IEC 61000-4-3:2008   | Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test                                      | Upper frequency limit 6 GHz<br>up to 4,2 GHz -<br>20 V/m<br>above 10 V/m |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

**Annex to the accreditation certificate D-PL-20201-01-02**

| <b>Technical field</b> | <b>Standard or test method / revision level</b> | <b>Title of standard or test method (deviations / modifications of standard)</b>   | <b>Test area / Reductions</b>   |
|------------------------|---|--|---|
| EMC                    | IEC 61000-4-3:2010                              | Electromagnetic compatibility (EMC) Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test  | Upper frequency 6 GHz<br>up to 4,2 GHz – 20 V/m<br>above 10 V/m       |
| EMC                    | DIN EN 61000-4-3:2011                           | Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2006 + A1:2007 + A2:2010); German version EN 61000-4-3:2006 + A1:2008 + A2:2010 | Upper frequency limit 6 GHz<br>up to 4,2 GHz - 20 V/m<br>above 10 V/m |
| EMC                    | # IEC 61000-4-4:2004                            | Electromagnetic compatibility (EMC) Part 4-4: Testing and measurement techniques - Electrical fast transient / burst immunity test   |   |
| 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                         | Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4:2012); German version EN 61000-4-4:2012  |   |
| EMC                    | # IEC 61000-4-5:2005                            | Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test   |   |
| EMC                    | # DIN EN 61000-4-5:2007                         | Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2005); German version EN 61000-4-5:2006  |   |
| EMC                    | # IEC 61000-4-5:2014                            | Electromagnetic compatibility (EMC) Part 4-5: Testing and measurement techniques - Surge immunity test   |   |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)   | Test area / Reductions |
|-----------------|--|---|------------------------|
| EMC             | # DIN EN 61000-4-5:2015                  | Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014); German version EN 61000-4-5:2014   |                        |
| EMC             | # IEC 61000-4-6:2008                     | Electromagnetic compatibility (EMC) Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields  |                        |
| EMC             | # DIN EN 61000-4-6:2007                  | Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2003 + A1:2004 + A2:2006); German version EN 61000-4-6:2007 + Corrigendum August 2007 |                        |
| EMC             | # DIN EN 61000-4-6:2009                  | Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields (IEC 61000-4-6:2008); German version EN 61000-4-6:2009   |                        |
| EMC             | # DIN 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); German version EN 61000-4-6:2014   |                        |
| EMC             | # IEC 61000-4-8:2009                     | Electromagnetic compatibility (EMC) Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test   |                        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)  | Test area / Reductions |
|-----------------|--|--|------------------------|
| EMC             | # DIN 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); German version EN 61000-4-8:2010                               |                        |
| EMC             | IEC 61000-4-9:1993 + A1:2000             | Electromagnetic compatibility (EMC) Part 4-9: Testing and measurement techniques - Pulse magnetic field immunity test  |                        |
| EMC             | DIN EN 61000-4-9:2001                    | Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques; Pulse magnetic field immunity test (IEC 61000-4-9:1993 + A1:2000); German version EN 61000-4-9:1993 + A1:2001                      |                        |
| EMC             | IEC 61000-4-11:2004                      | Electromagnetic compatibility (EMC) Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests  |                        |
| EMC             | DIN EN 61000-4-11:2005                   | Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2004); German version EN 61000-4-11:2004 |                        |
| EMC             | IEC 61000-4-13:2002 + A1:2009            | 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                           |                        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)  | Test area / Reductions  |
|-----------------|--|--|---|
| EMC             | DIN EN 61000-4-13:2010                   | 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); German version EN 61000-4-13:2002 + A1:2009            |   |
| EMC             | IEC 61000-4-14:1999 + A1:2001 + 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  |   |
| EMC             | DIN EN 61000-4-14:2010                   | 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); German version EN 61000-4-14:1999 + A1:2004 + A2:2009 |   |
| EMC             | IEC 61000-4-17:1999/AMD2:2008            | Electromagnetic compatibility (EMC) Part 4-17: Testing and measurement techniques – Ripple on d.c. input power port immunity test  |   |
| EMC             | DIN EN 61000-4-17/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); German version EN 61000-4-17:1999/A2:2009   |   |
| EMC             | IEC 61000-4-18:2006/A1:2010              | Electromagnetic compatibility (EMC) Part 4-18: Testing and measurement techniques – Damped oscillatory wave immunity test  | No testing acc. to part 6.1.2 with frequencies of 3, 10 and 30 MHz. |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

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|-----------------|--|--|---|
| EMV             | DIN EN 61000-4-18/A1:2011                | Electromagnetic compatibility (EMC) - Part 4-18: Testing and measurement techniques - Damped oscillatory wave immunity test (IEC 61000-4-18:2006/A1:2010); German version EN 61000-4-18:2007/A1:2010   | No testing acc. to part 6.1.2 with frequencies of 3, 10 and 30 MHz. |
| 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 (IEC 61000-4-27:2000 + A1:2009); German version EN 61000-4-27:2000 + A1:2009  |   |
| EMC             | DIN EN 61000-4-27:2009                   | Elektromagnetische Verträglichkeit (EMV) Teil 4-27: Prüf- und Messverfahren – Prüfung der Störfestigkeit von Geräten mit einem Eingangsstrom, der 16 A je Leiter nicht überschreitet, gegen Unsymmetrie der Versorgungsspannung (IEC 61000-4-27:2000 + A1:2009)                                  |   |
| EMC             | IEC 61000-4-28:1999 + A1:2001 + 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                   | 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); German version EN 61000-4-28:2000 + A1:2004 + A2:2009 |   |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level  | Title of standard or test method (deviations / modifications of standard)   | Test area / Reductions |
|-----------------|---|---|------------------------|
| 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                    | 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); German version EN 61000-4-29:2000  |                        |
| EMC             | IEC 61000-4-34:2005 + A1:2009 + Cor.: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                    | 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); German version EN 61000-4-34:2007 + A1:2009 |                        |
| EMC             | ISO 11452-9:2012                          | Road vehicles —<br>Component test methods for electrical disturbances from narrowband radiated electromagnetic energy -<br>Part 9: Portable transmitters  |                        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019



| Technical field          | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)  | Test area / Reductions |
|--------------------------|--|--|------------------------|
| <b>Generic standards</b> |  |  |                        |
| EMC                      | IEC 61000-6-1:2005                       | Electromagnetic compatibility (EMC) Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments   |                        |
| EMC                      | DIN EN 61000-6-1:2007                    | Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments (IEC 61000-6-1:2005); German version EN 61000-6-1:2007  |                        |
| EMC                      | IEC 61000-6-2:2005                       | Electromagnetic compatibility (EMC) Part 6-2: Generic standards – Immunity for industrial environments   |                        |
| EMC                      | DIN EN 61000-6-2:2006                    | Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments (IEC 61000-6-2:2005); German version EN 61000-6-2:2005  |                        |
| EMC                      | IEC 61000-6-2:2016                       | Electromagnetic compatibility (EMC) Part 6-2: Generic standards - Immunity for industrial environments   |                        |
| EMC                      | IEC 61000-6-3:2011                       | Electromagnetic compatibility (EMC) Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments  | No TEM waveguide       |
| EMC                      | DIN EN 61000-6-3:2011 + Ber.1:2012       | Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments (IEC 61000-6-3:2006 + A1:2010); German version EN 61000-6-3:2007 + A1:2011, Corrigendum to DIN EN 61000-6-3 (VDE 0839-6-3):2011-09; German version EN 61000-6-3:2007/A1:2011/AC:2012 | No TEM waveguide       |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field                 | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)   | Test area / Reductions  |
|---------------------------------|--|---|-------------------------|
| EMC                             | IEC 61000-6-4:2006 + A1:2010             | Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments   | No TEM waveguide        |
| EMC                             | DIN EN 61000-6-4:2011                    | Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2006 + A1:2010); German version EN 61000-6-4:2007 + A1:2011                                    | No TEM waveguide        |
| EMC                             | IEC 61000-6-4:2018                       | Electromagnetic compatibility (EMC) Part 6-4: Generic standards - Emission standard for industrial environments   | No TEM waveguide        |
| <b>Product family standards</b> |  |   |                         |
| EMC                             | DIN EN 50121-2:2007                      | Railway applications - Electromagnetic compatibility - Part 2: Emission of the whole railway system to the outside world; German version EN 50121-2:2006  | Only components testing |
| EMC                             | DIN EN 50130-4:2012                      | Alarm systems - Part 4: Electromagnetic compatibility - Product family standard: Immunity requirements for components of fire, intruder, hold up, CCTV, access control and social alarm systems; German version EN 50130-4:2011 |                         |
| EMC                             | DIN EN 50370-1:2006                      | Electromagnetic compatibility (EMC) - Product family standard for machine tools - Part 1: Emission; German version EN 50370-1:2005  |                         |
| EMC                             | DIN EN 60204-31:1999                     | Safety of machinery - Electrical equipment of machines - Part 31: Particular safety and EMC requirements for sewing machines, units and systems (IEC 60204-31:1996, modified); German version EN 60204-31:1998                  |                         |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level      | Title of standard or test method (deviations / modifications of standard)   | Test area / Reductions               |
|-----------------|---|---|--------------------------------------|
| EMC             | DIN EN 60255-26:2010                          | Measuring relays and protection equipment - Part 26: Electromagnetic compatibility requirements (IEC 60255-26:2008); German version EN 60255-26:2009  | No testing acc. to DIN EN 61000-4-16 |
| EMC             | IEC/CISPR 11:2015                             | Industrial, scientific and medical equipment<br>Radio-frequency disturbance characteristics - Limits and methods of measurement   | No delta network emulation           |
| EMC             | DIN EN 55011:2011                             | Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (IEC/CISPR 11:2009, modified + A1:2010); German version EN 55011:2009 + A1:2010                        |                                      |
| EMC             | DIN EN 55011:2018                             | Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement (CISPR 11:2015, modified + A1:2017); German version EN 55011:2016 + A1:2017)                           | No delta network emulation           |
| EMC             | IEC/CISPR 14-1:2005<br>+ A1:2008<br>+ A2:2011 | Electromagnetic compatibility<br>Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission   | No TEM waveguide                     |
| EMC             | DIN EN 55014-1:2012                           | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1:2005 + A1:2008 + Cor. :2009 + A2:2011); German version EN 55014-1:2006 + A1:2009 + A2:2011 | No TEM-waveguide                     |
| EMC             | IEC/CISPR 14-2:2015                           | Electromagnetic compatibility<br>Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard   |                                      |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level  | Title of standard or test method (deviations / modifications of standard)   | Test area / Reductions |
|-----------------|---|---|------------------------|
| EMC             | DIN EN 55014-2:2016                       | Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard (CISPR 14-2:2015); German version EN 55014-2:2015  |                        |
| EMC             | IEC 61326-1:2005                          | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements  |                        |
| EMC             | IEC 61547:2009                            | Limits and methods of measurement of radio disturbance characteristics of electrical lighting and similar equipment   |                        |
| EMC             | DIN EN 61547:2010                         | Equipment for general lighting purposes - EMC immunity requirements (IEC 61547:2009); German version EN 61547:2009  |                        |
| EMC             | IEC/CISPR 16-2-1:2008 + A1:2010 + A2:2013 | Specification for radio disturbance and immunity measuring apparatus and methods<br>Part 2-1: Methods of measurement of disturbances and immunity –<br>Conducted disturbance measurements   |                        |
| EMC             | DIN EN 55016-2-1:2014                     | Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements (CISPR 16-2-1:2008 + A1:2010 + A2:2013); German version EN 55016-2-1:2009 + A1:2011 + A2:2013 |                        |
| EMC             | IEC/CISPR 16-2-2:2010                     | Specification for radio disturbance and immunity measuring apparatus and methods<br>Part 2-2: Methods of measurement of disturbances and immunity –<br>Measurement of disturbance power   |                        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level  | Title of standard or test method (deviations / modifications of standard)  | Test area / Reductions |
|-----------------|---|--|------------------------|
| EMC             | DIN EN 55016-2-2:2011                     | Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-2: Methods of measurement of disturbances and immunity - Measurement of disturbance power (CISPR 16-2-2:2010); German version EN 55016-2-2:2011  |                        |
| EMC             | IEC/CISPR 16-2-3:2010 + A1:2010 + A2:2014 | Specification for radio disturbance and immunity measuring apparatus and methods<br>Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements  |                        |
| EMC             | DIN EN 55016-2-3:2014                     | Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements (CISPR 16-2-3:2010 + A1:2010 + A2:2014); German version EN 55016-2-3:2010 + A1:2010 + AC:2013 + A2:2014 |                        |
| EMC             | IEC/CISPR 22:2008                         | Information technology equipment<br>Radio disturbance characteristics – Limits and methods of measurement  |                        |
| EMC             | DIN EN 55022:2011                         | Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement (CISPR 22:2008, modified); German version EN 55022:2010   |                        |
| EMC             | # IEC/CISPR 24:2010+AMD1:2015             | Information technology equipment<br>Immunity characteristics - Limits and methods of measurement   |                        |
| EMC             | # DIN EN 55024:2016                       | Information technology equipment - Immunity characteristics - Limits and methods of measurement (CISPR 24:2010 + Cor.:2011 + A1:2015); German version EN 55024:2010 + A1:2015  |                        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

**Annex to the accreditation certificate D-PL-20201-01-02**

| <b>Technical field</b> | <b>Standard or test method / revision level</b> | <b>Title of standard or test method (deviations / modifications of standard)</b>  | <b>Test area / Reductions</b>       |
|------------------------|---|---|-------------------------------------|
| EMC                    | IEC/ CISPR 32:2012 + Cor.1:2012+ Cor.2:2012     | Electromagnetic compatibility of multimedia equipment - Emission requirements (CISPR 32:2012+ Cor. 1:2012 + Cor. 2:2012); German version EN 55032:2012  | No TV & Broadcast Receiver(75 Ohm)  |
| EMC                    | DIN EN 55032:2012 + Ber.1:2013                  | Electromagnetic compatibility of multimedia equipment - Emission requirements (CISPR 32:2012+ Cor. 1:2012 + Cor. 2:2012); German version EN 55032:2012  | No TV & Broadcast Receiver(75 Ohm)  |
| EMV                    | IEC/CISPR 32:2015                               | Electromagnetic compatibility of multimedia equipment- Emission requirements  | No TV & Broadcast Receiver (75 Ohm) |
| EMC                    | DIN EN 55032:2016                               | Electromagnetic compatibility of multimedia equipment - Emission Requirements (CISPR 32:2015); German version EN 55032:2015   | No TV & Broadcast Receiver (75 Ohm) |
| EMC                    | IEC 61000-3-2:2014                              | Electromagnetic compatibility (EMC) – Part 3-2: Limits – Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase).   |                                     |
| EMC                    | DIN EN 61000-3-2:2015                           | Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current $\leq 16$ A per phase) (IEC 61000-3-2:2014); German version EN 61000-3-2:2014   |                                     |
| EMC                    | IEC 61000-3-3:2013                              | 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 $\leq 16$ A per phase and not subject to conditional connection |                                     |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)  | Test area / Reductions |
|-----------------|--|--|------------------------|
| EMC             | DIN EN 61000-3-3:2009                    | 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 $\leq 16$ A per phase and not subject to conditional connection (IEC 61000-3-3:2008); German version EN 61000-3-3:2008 |                        |
| EMC             | DIN EN 61000-3-3:2014                    | 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 $\leq 16$ A per phase and not subject to conditional connection (IEC 61000-3-3:2013); German version EN 61000-3-3:2013 |                        |
| EMC             | IEC 61000-3-11:2000                      | 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 $\leq 75$ A and subject to conditional connection  |                        |
| EMC             | DIN EN 61000-3-11:2001                   | 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 $\leq 75$ A and subject to conditional connection (IEC 61000-3-11:2000); German version EN 61000-3-11:2000                 |                        |
| EMC             | IEC 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 $\leq 75$ A per phase  |                        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)  | Test area / Reductions |
|-----------------|--|--|------------------------|
| EMC             | DIN EN 61000-3-12:2012                   | 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); German version EN 61000-3-12:2011 |                        |
| EMC             | IEC 62040-2:2005                         | Uninterruptible power systems (UPS) Part 2: Electromagnetic compatibility (EMC) requirements   |                        |
| EMC             | DIN EN 62040-2:2006                      | Uninterruptible power systems (UPS) - Part 2: Electromagnetic compatibility (EMC) requirements (IEC 62040-2:2005); German version EN 62040-2:2006  |                        |
| EMC             | DIN EN 60669-2-1:2010                    | Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic switches (IEC 60669-2-1:2002, modified + A1:2008, modified); German version EN 60669-2-1:2004 + A1:2009                                   | EMC clause only        |
| EMC             | DIN EN 60669-2-2:2007                    | Switches for household and similar fixed electrical installations - Part 2-2: Particular requirements - Electromagnetic remote-control switches (RCS) (IEC 60669-2-2:2006); German version EN 60669-2-2:2006   | EMC clause only        |
| EMC             | DIN EN 60669-2-3:2007                    | Switches for household and similar fixed electrical installations - Part 2-3: Particular requirements - Time delay switches (TDS) (IEC 60669-2-3:2006); German version EN 60669-2-3:2006   | EMC clause only        |
| EMC             | DIN EN 60730-1:2012                      | Automatic electrical controls for household and similar use - Part 1: General requirements (IEC 60730-1:2010, modified); German version EN 60730-1:2011  | EMC clause only        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019



| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)   | Test area / Reductions |
|-----------------|--|---|------------------------|
| EMC             | DIN EN 60730-2-5:2011                    | Automatic electrical controls for household and similar use - Part 2-5: Particular requirements for automatic electrical burner control systems (IEC 60730-2-5:2000, modified + A1:2004, modified + A2:2008, modified); German version EN 60730-2-5:2002 + A1:2004 + A11:2005 + A2:2010 | EMC clause only        |
| EMC             | DIN EN 60730-2-6:2009                    | Automatic electrical controls for household and similar use - Part 2-6: Particular requirements for automatic electrical pressure sensing controls including mechanical requirements (IEC 60730-2-6:2007, modified); German version EN 60730-2-6:2008                                   | EMC clause only        |
| EMC             | DIN EN 60730-2-7:2011                    | Automatic electrical controls for household and similar use - Part 2-7: Particular requirements for timers and time switches (IEC 60730-2-7:2008, modified); German version EN 60730-2-7:2010   | EMC clause only        |
| EMC             | DIN EN 60730-2-8:2004                    | Automatic electrical controls for household and similar use - Part 2-8: Particular requirements for electrically operated water valves, including mechanical requirements (IEC 60730-2-8:2000, modified + A1:2002, modified); German version EN 60730-2-8:2002 + A1:2003                | EMC clause only        |
| EMC             | DIN EN 60730-2-9:2011                    | Automatic electrical controls for household and similar use - Part 2-9: Particular requirements for temperature sensing controls (IEC 60730-2-9:2008, modified); German version EN 60730-2-9:2010   | EMC clause only        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)   | Test area / Reductions |
|-----------------|--|---|------------------------|
| EMC             | DIN EN 60730-2-11:2008                   | Automatic electrical controls for household and similar use - Part 2-11: Particular requirements for energy regulators (IEC 60730-2-11:2006); German version EN 60730-2-11:2008   | EMC clause only        |
| EMC             | DIN EN 60730-2-13:2008                   | Automatic electrical controls for household and similar use - Part 2-13: Particular requirements for humidity sensing controls (IEC 60730-2-13:2006, modified); German version EN 60730-2-13:2008   | EMC clause only        |
| EMC             | DIN EN 60730-2-14:2009                   | Automatic electrical controls for household and similar use - Part 2-14: Particular requirements for electric actuators (IEC 60730-2-14:1995, modified + A1:2001 + A2:2007, modified); German version EN 60730-2-14:1997 + A1:2001 + A11:2005 + A2:2008 | EMC clause only        |
| EMC             | DIN EN 60947-1:2011                      | Low-voltage switchgear and controlgear - Part 1: General rules (IEC 60947-1:2007 + A1:2010); German version EN 60947-1:2007 + A1:2011   | EMC clause only        |
| EMC             | DIN EN 60947-2:2014                      | Low-voltage switchgear and controlgear - Part 2: Circuit-breakers (IEC 60947-2:2006 + A1:2009 + A2:2013); German version EN 60947-2:2006 + A1:2009 + A2:2013  | EMC clause only        |
| EMC             | DIN EN 60947-3:2012                      | Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units (IEC 60947-3:2008 + A1:2012); German version EN 60947-3:2009 + A1:2012  | EMC clause only        |
| EMC             | DIN EN 60947-4-1:2014                    | Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters (IEC 60947-4-1:2009 + A1:2012); German version EN 60947-4-1:2010 + A1:2012   | EMC clause only        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)   | Test area / Reductions |
|-----------------|--|---|------------------------|
| EMC             | DIN EN 60947-4-2:2013                    | Low-voltage switchgear and controlgear - Part 4-2: Contactors and motor-starters - AC semiconductor motor controllers and starters (IEC 60947-4-2:2011 + Cor.: 2012); German version EN 60947-4-2:2012  | EMC clause only        |
| EMC             | DIN EN 60947-4-3:2012                    | Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads (IEC 60947-4-3:1999 + A1:2006 + A2:2011); German version EN 60947-4-3:2000 + A1:2006 + A2:2011                     | EMC clause only        |
| EMC             | DIN EN 60947-5-1:2010                    | Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices (IEC 60947-5-1:2003 + A1:2009); German version EN 60947-5-1:2004 + Cor.:2005 + A1:2009                                  | EMC clause only        |
| EMC             | DIN EN 60947-5-2:2014                    | Low-voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches (IEC 60947-5-2:2007 + A1:2012); German version EN 60947-5-2:2007 + A1:2012   | EMC clause only        |
| EMC             | DIN EN 60947-5-3:2005 + Ber.1:2010       | Low-voltage switchgear and controlgear - Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions (PDF) (IEC 60947-5-3:1999 + A1:2005); German version EN 60947-5-3:1999 + A1:2005 | EMC clause only        |
| EMC             | DIN EN 60947-5-6:2000                    | Low-voltage switchgear and controlgear - Part 5-6: Control circuit devices and switching elements, DC interface for proximity sensors and switching amplifiers (NAMUR) (IEC 60947-5-6:1999); German version EN 60947-5-6:2000   | EMC clause only        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)  | Test area / Reductions |
|-----------------|--|--|------------------------|
| EMC             | DIN EN 60947-6-1:2006                    | Low-voltage switchgear and controlgear - Part 6-1: Multiple function equipment - Transfer switching equipment (IEC 60947-6-1:2005); German version EN 60947-6-1:2005   | EMC clause only        |
| EMC             | DIN EN 60947-6-2:2007                    | Low-voltage switchgear and controlgear - Part 6-2: Multiple function equipment - Control and protective switching devices (or equipment) (CPS) (IEC 60947-6-2:2002 + A1:2007); German version EN 60947-6-2:2003 + A1:2007  | EMC clause only        |
| EMC             | DIN EN 61204-3:2001                      | Low-voltage power supplies DC output - Part 3: Electromagnetic compatibility (EMC) (IEC 61204-3:2000); German version EN 61204-3:2000  |                        |
| EMC             | IEC 61326-1:2012                         | Electrical equipment for measurement, control and laboratory use<br>EMC requirements -<br>Part 1: General requirements   |                        |
| EMC             | IEC 61326-2-1:2012                       | 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 / Applies in conjunction with IEC 61326-1 (2012-07) |                        |
| EMC             | DIN EN 61326-1:2013                      | Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements (IEC 61326-1:2012); German version EN 61326-1:2013  |                        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)   | Test area / Reductions |
|-----------------|--|---|------------------------|
| EMC             | DIN EN 61326-2-1:2013                    | 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 61326-2-1:2012); German version EN 61326-2-1:2013   |                        |
| EMC             | DIN EN 61326-2-2:2013                    | 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 61326-2-2:2012); German version EN 61326-2-2:2013                                      |                        |
| EMC             | DIN EN 61326-2-3:2013                    | 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 61326-2-3:2012); German version EN 61326-2-3:2013  |                        |
| EMC             | DIN EN 61326-2-4:2013                    | 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 61326-2-4:2012); German version EN 61326-2-4:2013 |                        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

**Annex to the accreditation certificate D-PL-20201-01-02**

| Technical field | Standard or test method / revision level | Title of standard or test method (deviations / modifications of standard)   | Test area / Reductions |
|-----------------|--|---|------------------------|
| EMC             | DIN EN 61326-2-5:2013                    | 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 61326-2-5:2012); German version EN 61326-2-5:2013                                      |                        |
| EMC             | DIN EN 61326-3-1:2008                    | 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 61326-3-1:2008); German version EN 61326-3-1:2008                                    |                        |
| EMC             | DIN EN 61326-3-2:2008                    | 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 61326-3-2:2008); German version EN 61326-3-2:2008 |                        |
| EMC             | DIN EN 61800-3:2012                      | Adjustable speed electrical power drive systems - Part 3: EMC requirements and specific test methods (IEC 61800-3:2004 + A1:2011); German version EN 61800-3:2004 + A1:2012   |                        |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019

**Annex to the accreditation certificate D-PL-20201-01-02**

| <b>Technical field</b>       | <b>Standard or test method / revision level</b> | <b>Title of standard or test method (deviations / modifications of standard)</b>  | <b>Test area / Reductions</b> |
|------------------------------|---|---|-------------------------------|
| EMC                          | DIN EN 62040-2:2006                             | Uninterruptible power systems (UPS) – Part 2: Electromagnetic compatibility (EMC) requirements (IEC 62040-2:2005); German version EN 62040-2:2006   |                               |
| <b>Radio (RED Art. 3.1b)</b> |   |   |                               |
| EMC                          | ETSI/EN 301 489-1:2017-03 Vers. 2.2.0           | Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services<br>Part 1: Common technical requirements                    |                               |
| EMC                          | ETSI/EN 301 489-17:2017-03 Vers. 3.2.0          | Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment;<br>Part 17: Specific conditions for Broadband Data Transmission Systems |                               |

**-Translation-**

Abbreviations used: see last page

**Valid from: 18.07.2019**

Date of issue: 19.07.2019