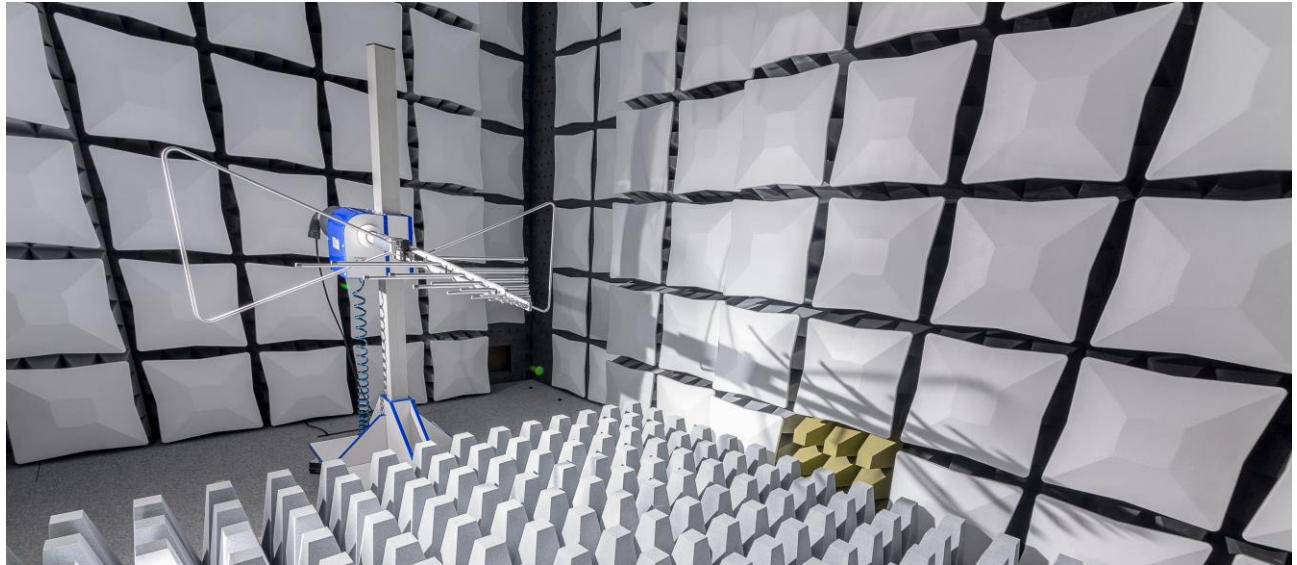


Corporate EMC Test Center



List of accredited activities performed under the flexible scope

The Corporate EMC Test Center is accredited by the German National Accreditation Body DAkkS according to DIN EN ISO/IEC 17025:2018 as test lab in the field of Electromagnetic Compatibility.

The annex to the certificate of accreditation is available at the DAkkS website at

<https://www.dakks.de/en/accredited-body.html?id=D-PL-20745-03-00>

At the time of publication of this document, the test and measurement methods listed in the annex of this document are considered as accredited methods within the scope of the flexible accreditation.

Note: The Corporate EMC Test Center is an internal service provider of SICK AG.
No tests are offered for external customers.

Waldkirch, 2024-04-10

Annex

Legend

German standard
European standard
International standard

Standard / issue	Title of the standard	Restrictions
Basic Standards		
DIN EN IEC 55016-1-1: 2020	Specification for radio disturbance and immunity measuring apparatus and methods - Part 1-1: Radio disturbance and immunity measuring apparatus - Measuring apparatus (CISPR 16-1-1:2019); German version EN IEC 55016-1-1:2019	No discontinuous disturbance analyzer. Only the frequency range up to 6 GHz.
EN IEC 55016-1-1: 2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	No discontinuous disturbance analyzer. Only the frequency range up to 6 GHz.
CISPR 16-1-1: 2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	No discontinuous disturbance analyzer. Only the frequency range up to 6 GHz.
DIN EN 55016-2-1: 2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements (CISPR 16-2-1:2014 + A1:2017); German version EN 55016-2-1:2014 + A1:2017	Only two-line V-AMN according DIN EN 55016-1-2 clause 4.4, up 16 A.
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 16-2-1:2014); German version EN 55016-2-1:2014	Only two-line V-AMN according DIN EN 55016-1-2 clause 4.4, up 16 A.
EN 55016-2-1: 2014 + A1:2017	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	Only two-line V-AMN according DIN EN 55016-1-2 clause 4.4, up 16 A.
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	Only two-line V-AMN according DIN EN 55016-1-2 clause 4.4, up 16 A.
CISPR 16-2-1: 2014 + AMD 1:2017	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	Only two-line V-AMN according CISPR 16-1-2 clause 4.4, up 16 A.
CISPR 16-2-1: 2014	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	Only two-line V-AMN according CISPR 16-1-2 clause 4.4, up 16 A.

Standard / issue	Title of the standard	Restrictions
DIN EN 55016-2-3: 2020	Specification for radio disturbance and immunity measuring apparatus and methods – Part 2-3: Methods of measurement of disturbances and immunity – Radiated disturbance measurements (CISPR 16-2-3:2016 + A1:2019); German version EN 55016-2-3:2017 + A1:2019	Measurement in FAR according clauses 7.4 and 7.6. Test volume: D=1.5 m, h=1.5 m.
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	Measurement in FAR according clauses 7.4 and 7.6. Test volume: D=1.5 m, h=1.5 m.
EN 55016-2-3: 2017 + A1:2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	Measurement in FAR according clauses 7.4 and 7.6. Test volume: D=1.5 m, h=1.5 m.
EN 55016-2-3: 2017	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	Measurement in FAR according clauses 7.4 and 7.6. Test volume: D=1.5 m, h=1.5 m.
CISPR 16-2-3: AMD 2:2023	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements; Amendment 2	Measurement in FAR according clauses 7.4 and 7.6. Test volume: D=1.5 m, h=1.5 m.
CISPR 16-2-3: 2016 + AMD 1:2019	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	Measurement in FAR according clauses 7.4 and 7.6. Test volume: D=1.5 m, h=1.5 m.
CISPR 16-2-3: 2016	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-3: Methods of measurement of disturbances and immunity - Radiated disturbance measurements	Measurement in FAR according clauses 7.4 and 7.6. Test volume: D=1.5 m, h=1.5 m.
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	Air discharge: ≤ 30 kV. Contact discharge: ≤ 30 kV.
DIN EN 61000-4-2: 2001	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test (IEC 61000-4-2:1995 + A1:1998 + A2:2000); German version EN 61000-4-2:1995 + A1:1998 + A2:2001	Air discharge: ≤ 30 kV. Contact discharge: ≤ 30 kV.
EN 61000-4-2: 2009	Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test	Air discharge: ≤ 30 kV. Contact discharge: ≤ 30 kV.
EN 61000-4-2: 1995 + A1:1998 + A2:2001	Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test	Air discharge: ≤ 30 kV. Contact discharge: ≤ 30 kV.

Standard / issue	Title of the standard	Restrictions
IEC 61000-4-2: 2008	Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test	Air discharge: ≤ 30 kV. Contact discharge: ≤ 30 kV.
IEC 61000-4-2: 1995+AMD 1:1998 + AMD 2:2000	Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test	Air discharge: ≤ 30 kV. Contact discharge: ≤ 30 kV.
DIN EN IEC 61000-4-3: 2021	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2020); German version EN IEC 61000-4-3:2020	-
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	-
EN 61000-4-3: 2020	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test (IEC 61000-4-3:2020)	-
EN 61000-4-3: 2006 + A1:2008 + A2:2010	Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	80 MHz – 1000 MHz: - 25 V/m (1.5x1.5 m ²) - 30 V/m (1.0x1.0 m ²) 1 GHz - 3 GHz: - 30 V/m (1.5x1.5 m ²) 3 GHz – 6 GHz: - 20 V/m (1.5x1.5 m ²) Measuring distance: 2.7 m.
IEC 61000-4-3: 2020	Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	-
IEC 61000-4-3: 2006 + AMD 1:2007 + AMD 2:2010	Electromagnetic compatibility (EMC) – Part 4-3: Testing and measurement techniques – Radiated, radio-frequency, electromagnetic field immunity test	80 MHz – 1000 MHz: - 25 V/m (1.5x1.5 m ²) - 30 V/m (1.0x1.0 m ²) 1 GHz - 3 GHz: - 30 V/m (1.5x1.5 m ²) 3 GHz – 6 GHz: - 20 V/m (1.5x1.5 m ²) Measuring distance: 2.7 m.
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	Power supply: single phase, ≤ 16 A.
DIN EN 61000-4-4: 2010	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test (IEC 61000-4-4:2004 + Cor. 1:2006 + Cor. 2:2007 + A1:2010); German version EN 61000-4-4:2004 + A1:2010	Power supply: single phase, ≤ 16 A.

Standard / issue	Title of the standard	Restrictions
EN 61000-4-4: 2012	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test	Power supply: single phase, ≤ 16 A.
EN 61000-4-4: 2004 + A1:2010	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test	Power supply: single phase, ≤ 16 A.
IEC 61000-4-4: 2012	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/ burst immunity test	Power supply: single phase, ≤ 16 A.
IEC 61000-4-4: 2004 + AMD 1:2010	Electromagnetic compatibility (EMC) – Part 4-4: Testing and measurement techniques – Electrical fast transient/burst immunity test	Power supply: single phase, ≤ 16 A.
DIN EN 61000-4-5: 2019	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test (IEC 61000-4-5:2014 + A1:2017); German version EN 61000-4-5:2014 + A1:2017	Power supply: single phase, ≤ 16 A.
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	Power supply: single phase, ≤ 16 A.
EN 61000-4-5: 2014 + A1:2017	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test	Power supply: single phase, ≤ 16 A.
EN 61000-4-5: 2014	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test	Power supply: single phase, ≤ 16 A.
IEC 61000-4-5: 2014 + AMD 1:2017	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test	Power supply: single phase, ≤ 16 A.
IEC 61000-4-5: 2014	Electromagnetic compatibility (EMC) – Part 4-5: Testing and measurement techniques – Surge immunity test	Power supply: single phase, ≤ 16 A.
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	150 kHz – 80 MHz, 30 VEMF.
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	150 kHz – 80 MHz, 30 VEMF.
EN IEC 61000-4-6: 2023	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio- frequency fields (IEC 61000-4-6:2023)	150 kHz – 80 MHz, 30 VEMF.
EN 61000-4-6: 2014	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz – 80 MHz, 30 VEMF.
EN 61000-4-6: 2009	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz – 80 MHz, 30 VEMF.
IEC 61000-4-6: 2023	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio- frequency fields	150 kHz – 80 MHz, 30 VEMF.

Standard / issue	Title of the standard	Restrictions
IEC 61000-4-6: 2013	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz – 80 MHz, 30 VEMF.
IEC 61000-4-6: 2008	Electromagnetic compatibility (EMC) – Part 4-6: Testing and measurement techniques – Immunity to conducted disturbances, induced by radio-frequency fields	150 kHz – 80 MHz, 30 VEMF.
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	-
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	Electromagnetic compatibility (EMC) – Part 4-8: Testing and measurement techniques – Power frequency magnetic field immunity test	-
DIN EN IEC 61000-4-11: 2021	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase (IEC 61000-4-11:2020 + COR1:2020); German version EN IEC 61000-4- 11:2020 + AC:2020	-
DIN EN 61000-4-11: 2019	Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests (IEC 61000-4-11:2004 + A1:2017); German version EN 61000-4-11:2004 + A1:2017	-
EN IEC 61000-4-11: 2020	Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	-
EN 61000-4-11: 2004 + A1:2017	Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	-
IEC 61000-4-11: 2020	Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	-
IEC 61000-4-11: 2004 + AMD 1:2017	Electromagnetic compatibility (EMC) – Part 4-11: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations immunity tests for equipment with input current up to 16 A per phase	-
DIN EN 61000-4-16: 2016	Electromagnetic compatibility (EMC) - Part 4-16: Testing and measurement techniques - Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz (IEC 61000-4-16:2015); German version EN 61000-4-16:2016	-

Standard / issue	Title of the standard	Restrictions
EN 61000-4-16: 2016	Electromagnetic compatibility (EMC) – Part 4-16: Testing and measurement techniques – Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	-
IEC 61000-4-16: 2015	Electromagnetic compatibility (EMC) – Part 4-16: Testing and measurement techniques – Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	-
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	-
EN 61000-4-29: 2000	Electromagnetic compatibility (EMC) – Part 4-29: Testing and measurement techniques – Voltage dips, short interruptions and voltage variations on d.c. input power port immunity tests	-
IEC 61000-4-29: 2000	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	-
Generic Standards		
DIN EN IEC 61000-6-1: 2019	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments (IEC 61000-6-1:2016); German version EN IEC 61000-6-1:2019	No tests according IEC 61000-4-34.
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	No tests according IEC 61000-4-34.
EN IEC 61000-6-1: 2019	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments	No tests according IEC 61000-4-34.
EN 61000-6-1: 2007	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments	No tests according IEC 61000-4-34.
IEC 61000-6-1: 2016	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments	No tests according IEC 61000-4-34.
IEC 61000-6-1: 2005	Electromagnetic compatibility (EMC) – Part 6-1: Generic standards – Immunity for residential, commercial and light-industrial environments	No tests according IEC 61000-4-34.
DIN EN IEC 61000-6-2: 2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments (IEC 61000-6-2:2016); German version EN IEC 61000-6-2:2019	No tests according IEC 61000-4-34.

Standard / issue	Title of the standard	Restrictions
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	No tests according IEC 61000-4-34.
EN IEC 61000-6-2: 2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments (IEC 61000-6-2:2016)	No tests according IEC 61000-4-34.
EN 61000-6-2: 2005	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environments	No tests according IEC 61000-4-34.
IEC 61000-6-2: 2016	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environment	No tests according IEC 61000-4-34.
IEC 61000-6-2: 2005	Electromagnetic compatibility (EMC) – Part 6-2: Generic standards – Immunity for industrial environment	No tests according IEC 61000-4-34.
DIN EN 61000-6-3: 2011	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	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
EN IEC 61000-6-3: 2021	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for equipment in residential environments (IEC 61000-6-3:2020)	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
EN 61000-6-3: 2007 + A1:2011	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light-industrial environments	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
IEC 61000-6-3: 2020	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light- industrial environments	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
IEC 61000-6-3: 2006 + AMD 1:2010	Electromagnetic compatibility (EMC) – Part 6-3: Generic standards – Emission standard for residential, commercial and light- industrial environments	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
DIN EN IEC 61000-6-4: 2020	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments (IEC 61000-6-4:2018); German version EN IEC 61000-6-4:2019	-
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	-
EN IEC 61000-6-4: 2019	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments	-
EN 61000-6-4: 2007 + A1:2011	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments	-
IEC 61000-6-4: 2018	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments	-

Standard / issue	Title of the standard	Restrictions
IEC 61000-6-4: 2006 + AMD 1:2010	Electromagnetic compatibility (EMC) – Part 6-4: Generic standards – Emission standard for industrial environments	-
DIN EN 61000-6-7: 2015	Electromagnetic compatibility (EMC) - Part 6-7: Generic standards - Immunity requirements for equipment intended to perform functions in a safety-related system (functional safety) in industrial locations (IEC 61000-6-7:2014); German version EN 61000-6-7:2015	No tests according IEC 61000-4-34.
EN 61000-6-7: 2015	Electromagnetic compatibility (EMC) – Part 6-7: Generic standards – Immunity requirements for equipment intended to perform functions in a safety-related system (functional safety) in industrial locations	No tests according IEC 61000-4-34.
IEC 61000-6-7: 2014	Electromagnetic compatibility (EMC) – Part 6-7: Generic standards – Immunity requirements for equipment intended to perform functions in a safety-related system (functional safety) in industrial locations	No tests according IEC 61000-4-34.
DIN EN IEC 61000-6-8: 2022	Electromagnetic compatibility (EMC) – Part 6-8: Generic standards – Emission standard for professional equipment in commercial and light- industrial locations	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
EN IEC 61000-6-8: 2020	Electromagnetic compatibility (EMC) – Part 6-8: Generic standards – Emission standard for professional equipment in commercial and light- industrial locations	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
IEC 61000-6-8: 2020	Electromagnetic compatibility (EMC) – Part 6-8: Generic standards – Emission standard for professional equipment in commercial and light- industrial locations	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
Product Family Standards		
DIN EN 55011: 2022	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement German version EN 55011:2016 + A1:2017 + A11:2020 + A2:2021	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.
DIN EN 55011: 2018 + A11:2021	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement German version EN 55011:2016 + A1:2017 + A11:2022	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.
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	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.
EN 55011: 2016 + A1:2017 + A11:2020 + A2:2021	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.

Standard / issue	Title of the standard	Restrictions
EN 55011: 2016 + A1:2017 + A11:2020	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.
CISPR 11: 2015 + AMD 1:2016 + AMD 2:2019	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.
CISPR 11: 2015 + AMD 1: 2016	Industrial, scientific and medical equipment – Radio-frequency disturbance characteristics – Limits and methods of measurement	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.
DIN EN 55032: 2016 + A11:2021	Electromagnetic compatibility of multimedia equipment - Emission Requirements (CISPR 32:2015); German version EN 55032:2015	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.
DIN EN 55032: 2016	Electromagnetic compatibility of multimedia equipment - Emission Requirements (CISPR 32:2015); German version EN 55032:2015	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.
EN 55032: 2015 + A11:2020 + A1:2020	Electromagnetic compatibility of multimedia equipment – Emission Requirements	Only Conducted Emission. Single phase EUT ≤ 16 A.
EN 55032: 2015	Electromagnetic compatibility of multimedia equipment – Emission Requirements	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.
CISPR 32: 2015 + AMD 1:2019	Electromagnetic compatibility of multimedia equipment – Emission Requirements	Only Conducted Emission. Single phase EUT ≤ 16 A.
CISPR 32: 2015	Electromagnetic compatibility of multimedia equipment – Emission Requirements	Single phase EUT ≤ 16 A only. Radiated emissions in FAR, test volume: D= 1.5 m * h=1.5 m.
DIN EN IEC 60947-1: 2022	Low-voltage switchgear and controlgear - Part 1: General rules (IEC 60947-1:2007 + A1:2010 + A2:2014); German version EN 60947-1:2007 + A1:2011 + A2:2014	Only EMC according clause 8.3. No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-34.
DIN EN 60947-1: 2015	Low-voltage switchgear and controlgear - Part 1: General rules (IEC 60947-1:2007 + A1:2010 + A2:2014); German version EN 60947-1:2007 + A1:2011 + A2:2014	Only EMC according clause 8.3. No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-34.
EN IEC 60947-1: 2021	Low-voltage switchgear and controlgear – Part 1: General rules	Only EMC according clause 8.3. No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-34.

Standard / issue	Title of the standard	Restrictions
EN 60947-1: 2007 + A1:2011 + A2:2014	Low-voltage switchgear and controlgear – Part 1: General rules	Only EMC according clause 8.3. No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-34.
IEC 60947-1: 2020	Low-voltage switchgear and controlgear – Part 1: General rules	Only EMC according clause 8.3. No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-34.
IEC 60947-1: 2007 + AMD 1:2010 + AMD 2:2014	Low-voltage switchgear and controlgear – Part 1: General rules	Only EMC according clause 8.3. No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-34.
DIN EN 60947-5-1: 2018	Low-voltage switchgear and controlgear - Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices (IEC 60947-5-1:2016 + COR1:2016); German version EN 60947-5-1:2017	Only EMC according clause 7.3. No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-34.
EN 60947-5-1: 2017	Low-voltage switchgear and controlgear – Part 5-1: Control circuit devices and switching elements – Electromechanical control circuit devices	Only EMC according clause 7.3. No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-34.
IEC 60947-5-1: 2016	Low-voltage switchgear and controlgear – Part 5-1: Control circuit devices and switching elements – Electromechanical control circuit devices	Only EMC according clause 7.3. No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-4-34.
DIN EN IEC 60947-5-2: 2023	Low-voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches (IEC 60947-5-2:2019, modified); German version EN IEC 60947-5-2:2020 + A11:2022	Only EMC according clause 8.2.6. No tests according IEC 61000-3-2, IEC 61000-3-3.
DIN EN IEC 60947-5-2: 2021	Low-voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches (IEC 60947-5-2:2019); German version EN IEC 60947-5-2:2020	Only EMC according clause 8.2.6. No tests according IEC 61000-3-2, IEC 61000-3-3.
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	Only EMC according clause 7.2.6. No tests according IEC 61000-3-2, IEC 61000-3-3.
EN IEC 60947-5-2: 2020 + A11:2022	Low-voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches	Only EMC according clause 7.3. No tests according IEC 61000-3-2, IEC 61000-3-3.
EN IEC 60947-5-2: 2020	Low-voltage switchgear and controlgear – Part 5-2: Control circuit devices and switching elements – Proximity switches	Only EMC according clause 7.3. No tests according IEC 61000-3-2, IEC 61000-3-3.

Standard / issue	Title of the standard	Restrictions
EN 60947-5-2: 2007 + A1:2012	Low-voltage switchgear and controlgear – Part 5-2: Control circuit devices and switching elements – Proximity switches	Only EMC according clause 7.3. No tests according IEC 61000-3-2, IEC 61000-3-3.
IEC 60947-5-2: 2019	Low-voltage switchgear and controlgear – Part 5-2: Control circuit devices and switching elements – Proximity switches	Only EMC according clause 7.3. No tests according IEC 61000-3-2, IEC 61000-3-3.
IEC 60947-5-2: 2007 + AMD 1:2012	Low-voltage switchgear and controlgear – Part 5-2: Control circuit devices and switching elements – Proximity switches	Only EMC according clause 7.3. No tests according IEC 61000-3-2, IEC 61000-3-3.
DIN EN 60947-5-3: 2014	Low-voltage switchgear and controlgear - Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions (PDDB) (IEC 60947-5-3:2013); German version EN 60947-5-3:2013	Only EMC according clause 7.3.3.
EN 60947-5-3: 2013	Low-voltage switchgear and controlgear – Part 5-3: Control circuit devices and switching elements – Requirements for proximity devices with defined behaviour under fault conditions (PDDB)	Only EMC according clause 7.3.3.
IEC 60947-5-3: 2013	Low-voltage switchgear and controlgear – Part 5-3: Control circuit devices and switching elements – Requirements for proximity devices with defined behaviour under fault conditions	Only EMC according clause 7.3.3.
DIN EN 60947-5-7: 2004	Niederspannungsschaltgeräte – Teil 5-7: Steuergeräte und Schaltelemente – Anforderungen an Näherungssensoren mit Analogausgang (IEC 60947-5-7:2003); Deutsche Fassung EN 60947-5-7:2003	Only EMC according clause 8.6.
EN 60947-5-7: 2003	Low-voltage switchgear and controlgear – Part 5-7: Control circuit devices and switching elements – Requirements for proximity devices with analogue output	Only EMC according clause 8.6.
IEC 60947-5-7: 2003	Low-voltage switchgear and controlgear – Part 5-7: Control circuit devices and switching elements – Requirements for proximity devices with analogue output	Only EMC according clause 8.6.
DIN EN 61131-2: 2008	Programmable controllers - Part 2: Equipment requirements and tests (IEC 61131-2:2007); German version EN 61131-2:2007	Only EMC according clause 8 and 9.
EN 61131-2: 2007	Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests	Only EMC according clause 8 and 9.
IEC 61131-2: 2017	Industrial-process measurement and control - Programmable controllers - Part 2: Equipment requirements and tests	Only EMC according clause 7.
DIN EN 61131-6: 2013	Programmable controllers - Part 6: Functional safety (IEC 61131-6:2012); German version EN 61131-6:2012	Only EMC according clause 12.5.2, General EMC environment.

Standard / issue	Title of the standard	Restrictions
EN 61131-6: 2012	Programmable controllers - Part 6: Functional safety	Only EMC according clause 12.5.2, General EMC environment.
IEC 61131-6: 2012	Programmable controllers - Part 6: Functional safety	Only EMC according clause 12.5.2, General EMC environment.
DIN EN 61131-9: 2015	Programmable controllers - Part 9: Single-drop digital communication interface for small sensors and actuators (SDCI) (IEC 61131- 9:2013); German version EN 61131-9:2013	Only EMC according annex H.
EN IEC 61131-9: 2022	Programmable controllers – Part 9: Single-drop digital communication interface for small sensors and actuators (SDCI)	Only EMC according annex H.
EN 61131-9: 2013	Programmable controllers – Part 9: Single-drop digital communication interface for small sensors and actuators (SDCI)	Only EMC according annex H.
IEC 61131-9: 2022	Programmable controllers – Part 9: Single-drop digital communication interface for small sensors and actuators (SDCI)	Only EMC according annex H.
IEC 61131-9: 2013	Programmable controllers – Part 9: Single-drop digital communication interface for small sensors and actuators (SDCI)	Only EMC according annex H.
DIN EN IEC 61326-1: 2022	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements (IEC 61326-1:2020); German version EN IEC 61326-1:2021	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
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	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
EN IEC 61326-1: 2021	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 1: General requirements (IEC 61326-1:2020)	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
EN 61326-1: 2013	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
IEC 61326-1: 2020	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
IEC 61326-1: 2012	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 1: General requirements	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.

Standard / issue	Title of the standard	Restrictions
DIN EN IEC 61326-2-3: 2022	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-3: Particular requirements - Test configuration, operational conditions and performance criteria for transducers with integrated or remote signal conditioning (IEC 61326-2-3:2020); German version EN IEC 61326-2-3:2021	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
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	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
EN IEC 61326-2-3: 2021	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-3: Particular requirements – Test	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
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	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
IEC 61326-2-3: 2020	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 2-3: Particular requirements – Test	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
IEC 61326-2-3: 2012	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	No tests according IEC 61000-3-2, IEC 61000-3-3, IEC 61000-3-11, IEC 61000-3-12.
DIN EN 61326-3-1: 2018	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) - General industrial applications (IEC 61326-3-1:2017); German version EN 61326-3-1:2017	No tests according IEC 61000-4-34.
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	No tests according IEC 61000-4-34.
EN 61326-3-1: 2017	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) – General industrial applications	No tests according IEC 61000-4-34.

Standard / issue	Title of the standard	Restrictions
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	No tests according IEC 61000-4-34.
IEC 61326-3-1: 2017	Electrical equipment for measurement, control and laboratory use – EMC requirements – Part 3-1: Immunity requirements for safety-related systems and for equipment intended to perform safety-related functions (functional safety) – General industrial applications	No tests according IEC 61000-4-34.
IEC 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	No tests according IEC 61000-4-34.
DIN EN IEC 61496-1: 2021	Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests (IEC 61496-1:2020); German version EN IEC 61496-1:2020	Only EMC according clause 4.3.2.
DIN EN 61496-1: 2014	Safety of machinery - Electro-sensitive protective equipment - Part 1: General requirements and tests (IEC 61496-1:2012); German version EN 61496-1:2013	Only EMC according clause 4.3.2.
EN IEC 61496-1: 2020	Safety of machinery – Electro-sensitive protective equipment – Part 1: General requirements and tests	Only EMC according clause 4.3.2.
EN 61496-1: 2013	Safety of machinery – Electro-sensitive protective equipment – Part 1: General requirements and tests	Only EMC according clause 4.3.2.
IEC 61496-1: 2020	Safety of machinery – Electro-sensitive protective equipment – Part 1: General requirements and tests	Only EMC according clause 4.3.2.
IEC 61496-1: 2012	Safety of machinery – Electro-sensitive protective equipment – Part 1: General requirements and tests	Only EMC according clause 4.3.2.
DIN EN 61800-5-2: 2017	Adjustable speed electrical power drive systems – Part 5-2: Safety requirements – Functional (IEC 61800-5-2:2016); German version EN 61800-5-2:2017	No tests according IEC 61000-4-34.
EN 61800-5-2: 2017	Adjustable speed electrical power drive systems – Part 5-2: Safety requirements – Functional	No tests according IEC 61000-4-34.
IEC 61800-5-2: 2016	Adjustable speed electrical power drive systems – Part 5-2: Safety requirements – Functional	No tests according IEC 61000-4-34.
OIML R 129-2: 2020	Multi-dimensional measuring instruments Part 2: Metrological controls and performance tests	-
EMC of Radio Equipment (RED 2014/53/EU, Art. 3.1 b))		
ETSI EN 301 489-1 V2.2.3:2019	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard for ElectroMagnetic Compatibility	No tests according clauses 8.5, 8.6, 9.6.

Standard / issue	Title of the standard	Restrictions
ETSI EN 301 489-1 V2.2.0:2017	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU and the essential requirements of article 6 of Directive 2014/30/EU	No tests according clauses 8.5, 8.6, 9.6, 9.7.
ETSI EN 301 489-3 V2.3.2:2023	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard for ElectroMagnetic Compatibility	-
ETSI EN 301 489-3 V2.1.1:2019	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz; Harmonised Standard covering the essential requirements of article 3.1(b) of Directive 2014/53/EU	-
ETSI EN 301 489-17 V3.2.4:2020-09	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility	-
ETSI EN 301 489-17 V3.2.3:2020-07	ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems; Harmonised Standard for ElectroMagnetic Compatibility	-
Shipping		
DNV-CG-0339:2021	Environmental test specification for electrical, electronic and programmable equipment and systems	Only EMC according clause 14. Test Conducted low frequency: Max. AC supply voltage 177 V. From the 21 to 50 harmonics max. 14.64 V test level.
Automotive		
ISO 16750-2: 2023	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads	Only EMC acc. to chapter 4.5, 4.6.1.1, 4.6.2, 4.6.4.
ISO 16750-2: 2012	Road vehicles - Environmental conditions and testing for electrical and electronic equipment - Part 2: Electrical loads	Only EMC acc to the chapter 4.5, 4.6.1, 4.6.2, 4.6.4.