

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-19306-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 2020-07-29

Date of issue: 2020-07-29

Holder of certificate:

**Murrelektronik GmbH
Falkenstraße 3, 71570 Oppenweiler**

At the location:

Grabenstraße 27, 71570 Oppenweiler

Tests in the fields:

Electromagnetic compatibility (EMC)

Within the scope of accreditation marked with *), 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 procedures within the flexible scope of accreditation.

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

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

Content

1.	Standards that fall under the the flexible scope of accreditation*	2
1.1.	Basic EMC standards*	2
1.2.	EMC generic standard*	8
1.3.	Product family standards only EMC*	10
2.	Cables / Wires / RF Connectors * CABLES, WIRES, R.F. CONNECTORS.....	20
3.	Withdrawn procedures or procedures for which more recent editions exist.....	21
	(but which are still referenced)	21
3.1.	Basic EMC standards.....	21
3.2.	Product family standards only EMC.....	22

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
1. Standards that fall under the the flexible scope of accreditation*			
1.1. Basic EMC standards*			
EMC	EN 61000-4-2:2009-3	Electromagnetic compatibility (EMC) – Part 4-2: Testing and measurement techniques – Electrostatic discharge immunity test	
EMC	DIN EN 61000-4-2: 2009-12; VDE 0847-4-2:2009-12	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 61000-4-2:2008-12 ed.2.0	Electromagnetic compatibility (EMC) - Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test	
EMC	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	Frequency range: ≤ 2,7 GHz field strength: ≤ 10V/m test object: ≤ 50x50x50cm
EMC	DIN EN 61000-4-3: 2011-04; VDE 0847-4-3:2011-04	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency,	Frequency range: ≤ 2,7 GHz field strength: ≤ 10V/m

-Translation-

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
		electromagnetic field immunity test (IEC 61000-4-3:2006 + A1:2007 + A2:2010); German version EN 61000-4-3:2006 + A1:2008 + A2:2010	test object: ≤ 50x50x50cm
EMC	IEC 61000-4-3:2006 +AMD1:2007 +AMD2:2010-04 ed.3.2	Electromagnetic compatibility (EMC) - Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test	Frequency range: ≤ 2,7 GHz field strength: ≤ 10V/m test object: ≤ 50x50x50cm
EMC	EN 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: 2013-04; VDE 0847-4-4:2013-04	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 61000-4-4: 2012-04 ed.3.0	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	
EMC	EN 61000-4-5:2014 + A1:2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	DIN EN 61000-4-5:2019-03; VDE 0847-4-5:2019-03	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	
EMC	IEC 61000-4-5:2014 + A1:2017	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	

-Translation-

Annex to the accreditation certificate D-PL-19306-01-00

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	EN 61000-4-6:2014	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	DIN EN 61000-4-6: 2014-08; VDE 0847-4-6:2014-08	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 61000-4-6:2013-10 ed.4.0	Electromagnetic compatibility (EMC) - Part 4-6: Testing and measurement techniques - Immunity to conducted disturbances, induced by radio-frequency fields	
EMC	EN 61000-4-8:2010	Electromagnetic compatibility (EMC) - Part 4-8: Testing and measurement techniques - Power frequency magnetic field immunity test	
EMC	DIN EN 61000-4-8: 2010-11; VDE 0847-4-8:2010-11	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 61000-4-8:2009-9 ed.2.0	Electromagnetic compatibility (EMC) – Part 4-8: Testing and measurement techniques – Power frequency magnetic field immunity test	
EMC	EN 61000-4-9:2016	Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques; Pulse magnetic field immunity test	No free-standing equipment
EMC	DIN EN 61000-4-9:2017-05; VDE 0847-4-9:2017-05	Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques - Impulse magnetic field immunity test (IEC 61000-4-9:2016); German version EN 61000-4-9:2016	No free-standing equipment

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	IEC 61000-4-9:2016-07 ed.2.0	Electromagnetic compatibility (EMC) - Part 4-9: Testing and measurement techniques - Impulse magnetic field immunity test	No free-standing equipment
EMC	EN 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: 2005-02; VDE 0847-4-11:2005-02	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 61000-4-11:2004-03 ISH1:2010-08 ed.2.0	Electromagnetic compatibility (EMC) - Part 4-11: Testing and measurement techniques - Voltage dips, short interruptions and voltage variations immunity tests	
EMC	EN 61000-4-13:2002 + A1:2009 + A2:2016	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	
EMC	DIN EN 61000-4-13: 2016-10; VDE 0847-4-13:2016-10	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests (IEC 61000-4-13:2002 + A1:2009 + A2:2015); German version EN 61000-4-13:2002 + A1:2009 + A2:2016	

-Translation-

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	IEC 61000-4-13:2002 +AMD1:2009+ AMD2:2015-12 ed.1.2	Electromagnetic compatibility (EMC) - Part 4-13: Testing and measurement techniques - Harmonics and interharmonics including mains signalling at a.c. power port, low frequency immunity tests	
EMC	EN 61000-4-14:1999 + A1:2004 + A2:2009	Electromagnetic compatibility (EMC) - Part 4-14: Testing and measurement techniques - Voltage fluctuation immunity test for equipment with input current not exceeding 16 A per phase	
EMC	DIN EN 61000-4-14: 2010-04; VDE 0847-4-14:2010-04	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 61000-4-14:1999 +AMD1:2001 +AMD2:2009-08 ed.1.2	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	EN 61000-4-17:1999 + A1:2004	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: 2005-04; VDE 0847-4-17:2005-04	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test (IEC 61000-4-17:1999 + A1:2001); German version EN 61000-4-17:1999 + A1:2004	
EMC	IEC 61000-4-17:1999 +AMD1:2001+ AMD2:2008 ed.1.2 2009-01	Electromagnetic compatibility (EMC) - Part 4-17: Testing and measurement techniques - Ripple on d.c. input power port immunity test	

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	EN 61000-4-27:2000 + A1:2009	Electromagnetic compatibility (EMC) - Part 4-27: Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase	
EMC	DIN EN 61000-4-27:2009-12; VDE 0847-4-27:2009-12	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	IEC 61000-4-27:2000 +AMD1:2009-04 ed.1.1	Electromagnetic compatibility (EMC) - Part 4-27: Testing and measurement techniques - Unbalance, immunity test for equipment with input current not exceeding 16 A per phase	
EMC	EN 61000-4-28:2000 + A1:2004 + A2:2009	Electromagnetic compatibility (EMC) - Part 4-28: Testing and measurement techniques - Variation of power frequency, immunity test for equipment with input current not exceeding 16 A per phase	
EMC	DIN EN 61000-4-28:2009-12; VDE 0847-4-28:2009-12	Elektromagnetische Verträglichkeit (EMV) - Teil 4-28: Prüf- und Messverfahren - Prüfung der Störfestigkeit von Geräten mit einem Eingangsstrom, der 16 A je Leiter nicht überschreitet, gegen Schwankungen der energietechnischen Frequenz (Netzfrequenz) (IEC 61000-4-28:1999 + A1:2001 + A2:2009); Deutsche Fassung EN 61000-4-28:2000 + A1:2004 + A2:2009	
EMC	IEC 61000-4-28:1999 +AMD1:2001 +AMD2:2009-04 ed.1.2	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	

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	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	
EMC	DIN EN 61000-4-29:2001-10; VDE 0847-4-29:2001-10	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 61000-4-29:2000-08 ed.1.0	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	
1.2. EMC generic standard*			
EMC	EN IEC 61000-6-1:2019	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity for residential, commercial and light-industrial environments	Radiated field immunity test up to 2,7GHz for more see IEC 61000-4-3 Voltage dips / interruptions on AC connections only up to max. 16A possible
EMC	DIN EN IEC 61000-6-1:2019-11; VDE 0839-6-1:2019-11	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments (IEC 61000-6-1:2016); German version EN IEC 61000-6-1:2019	Radiated field immunity test to HF-Field (EN 61000-4-3 only up to max. 2,7GHz possible) Immunity tests against Voltage dips / interruptions on AC connections only up to max. 16A possible

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	IEC 61000-6-1:2016	Electromagnetic compatibility (EMC) - Part 6-1: Generic standards - Immunity standard for residential, commercial and light-industrial environments	Radiated field immunity test up to 2,7GHz for more see IEC 61000-4-3 Voltage dips / interruptions on AC connections only up to max. 16A possible
EMC	EN IEC 61000-6-2:2019	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments	Radiated field immunity test up to 2,7GHz for more see IEC 61000-4-3 Voltage dips / interruptions on AC connections only up to max. 16A possible
EMC	DIN EN IEC 61000-6-2:2019-11; VDE 0839-6-2:2019-11	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	Radiated field immunity test to HF-Field (EN 61000-4-3 only up to max. 2,7GHz possible) Immunity tests against Voltage dips / interruptions on AC connections only up to max. 16A possible
EMC	IEC 61000-6-2:2016	Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity standard for industrial environments	Radiated field immunity test up to 2,7GHz for more see IEC 61000-4-3 Voltage dips / interruptions on AC connections only up to max. 16A possible

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	EN 61000-6-3:2007 + A1:2011	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	Without radio interference field strength.
EMC	DIN EN 61000-6-3: 2011-09; VDE 0839-6-3:2011-09	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	Without radio interference field strength.
EMC	IEC 61000-6-3:2006 +AMD1:2010 ed.2.1 2011-02	Electromagnetic compatibility (EMC) - Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments	Without radio interference field strength.
EMC	EN 61000-6-4:2007 + A1:2011	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	Without radio interference field strength.
EMC	DIN EN 61000-6-4: 2011-09; VDE 0839-6-4:2011-09	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	Without radio interference field strength.
EMC	IEC 61000-6-4:Feb18	Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments	Without radio interference field strength.
1.3. Product family standards only EMC*			
EMC	EN 55011:2016 + A1:2017	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	Without radio interference field strength.
EMC	DIN EN 55011:2018-05; VDE 0875-11:2018-05	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	Without radio interference field strength.

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	CISPR 11:2015, modifiziert + A1:2017	Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement	Without radio interference field strength.
EMC	EN 55014-1:2017	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	Without radio interference field strength.
EMC	DIN EN 55014-1:2018-08; VDE 0875-14-1	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission (CISPR 14-1:2016 + COR1:2016); German version EN 55014-1:2017	Without radio interference field strength.
EMC	CISPR 14-1:2016 + COR1:2016	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 1: Emission	Without radio interference field strength.
EMC	EN 55014-2:2015-04	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar apparatus - Part 2: Immunity - Product family standard	Radiated field immunity test $\leq 2,7$ GHz for more see EN 61000-4-3
EMC	DIN EN 55014-2:2016-01; VDE 0875-14-2:2016-01	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	Radiated field immunity test $\leq 2,7$ GHz for more see EN 61000-4-3
EMC	CISPR 14-2:2015-02 ed. 2.0	Electromagnetic compatibility – Requirements for household appliances, electric tools and similar apparatus – Part 2: Immunity – Product family standard	Radiated field immunity test $\leq 2,7$ GHz for more see EN 61000-4-3
EMC	EN 55016-2-1:2014-07	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	DIN EN 55016-2-1:2019-11; VDE 0877-16-2-1:2019-11	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	by ME-PZ maximum strength of electric current 32A
EMC	CISPR 16-2-1:2014-02 ed.3.0	Specification for radio disturbance and immunity measuring apparatus and methods - Part 2-1: Methods of measurement of disturbances and immunity - Conducted disturbance measurements	
EMC	EN 55022:2010-12 + AC:2011-10	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement	Without radio interference field strength
EMC	DIN EN 55022:2011-12; VDE 0878-22:2011-12	Information technology equipment - Radio disturbance characteristics - Limits and methods of measurement (CISPR 22:2008, modified); German version EN 55022:2010	Without radio interference field strength
EMC	CISPR 22:2008-09 ed.6.0 ISH3:2012-04 ed.6.0	Information technology equipment – Radio disturbance characteristics – Limits and methods of measurement	Without radio interference field strength.
EMC	EN 55024:2010-11 + A1:2015-06	Information technology equipment - Immunity characteristics - Limits and methods of measurement	Radiated field immunity test $\leq 2,7$ GHz for more see EN 61000-4-3
EMC	DIN EN 55024:2016-05; VDE 0878-24:2016-05	Information technology equipment - Immunity characteristics - Limits and methods of measurement (CISPR 24:2010 + Cor.:2011 + A1:2015); German version EN 55024:2010 + A1:2015	Radiated field immunity test $\leq 2,7$ GHz for more see EN 61000-4-3
EMC	CISPR 24:2010 +AMD1:2015-04 ed.2.1	Information technology equipment - Immunity characteristics - Limits and methods of measurement	Radiated field immunity test $\leq 2,7$ GHz for more see EN 61000-4-3

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	EN 60947-1:2007-07 + A1:2011-01 + A2:2014-11	Low-voltage switchgear and controlgear - Part 1: General rules	Only section 7.3 & 8.4 EMC
EMC	DIN EN 60947-1:2015-09; VDE 0660-100:2015-09	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 section 7.3 & 8.4 EMC
EMC	IEC 60947-1:2007 +AMD1:2010 +AMD2:2014-09 ed.5.2	Low-voltage switchgear and controlgear - Part 1: General rules	Only section 7.3 & 8.4 EMC
EMC	EN 60947-3:2009-06 + A1:2012-04 + A2:2015-10	Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units	Only section 8.4 EMC
EMC	DIN EN 60947-3:2017-02; VDE 0660-107:2017-02	Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units (IEC 60947-3:2008 + A1:2012 + A2:2015); German version EN 60947-3:2009 + A1:2012 + A2:2015	Only section 8.4 EMC
EMC	IEC 60947-3:2008 +AMD1:2012 +AMD2:2015-07 ed.3.2	Low-voltage switchgear and controlgear - Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units	Only section 8.4 EMC
EMC	EN 60947-4-1:2010-04 + A1:2012-10	Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters	Only section 8.3 & 9.4 EMC
EMC	DIN EN 60947-4-1: 2014-02; VDE 0660-102:2014-02	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	Only section 8.3 & 9.4 EMC
EMC	IEC 60947-4-1:2009 +AMD1:2012-07 ed.3.1	Low-voltage switchgear and controlgear - Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters	Only section 8.3 & 9.4 EMC

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	EN 60947-4-2:2012-06	Low-voltage switchgear and controlgear - Part 4-2: Contactors and motor-starters - AC semiconductor motor controllers and starters	Only section 7.4, 8.3 & 9.3.5 EMC
EMC	DIN EN 60947-4-2: 2013-05; VDE 0660-117:2013-05	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	Only section 7.4, 8.3 & 9.3.5 EMC
EMC	IEC 60947-4-2:2011-05 + COR1: 2012-07 ed.3.0	Low-voltage switchgear and controlgear - Part 4-2: Contactors and motor-starters - AC semiconductor motor controllers and starters	Only section 7.4, 8.3 & 9.3.5 EMC
EMC	EN 60947-4-3:2014-06	Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads	Only section 8.3 & 9.4.1 EMC
EMC	DIN EN 60947-4-3: 2015-04; VDE 0660-109:2015-04	Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads (IEC 60947-4-3:2014); German version EN 60947-4-3:2014	Only section 8.3 & 9.4.1 EMC
EMC	IEC 60947-4-3:2014-05 ed.2.0	Low-voltage switchgear and controlgear - Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads	Only section 8.3 & 9.4.1 EMC
EMC	EN 60947-5-2:2007-12 + A1:2012-11	Low-voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches	Only section 7.2.6 & 8.6 EMC without radio interference field strength.
EMC	DIN EN 60947-5-2: 2014-01; VDE 0660-208:2014-01	Niederspannungsschaltgeräte - Teil 5-2: Steuergeräte und Schaltelemente - Näherungsschalter (IEC 60947-5-2:2007 + A1:2012); Deutsche Fassung EN 60947-5-2:2007 + A1:2012	Only section 7.2.6 & 8.6 EMC without radio interference field strength.

-Translation-

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	IEC 60947-5-2:2007 +AMD1:2012-09 ed.3.1	Low-voltage switchgear and controlgear - Part 5-2: Control circuit devices and switching elements - Proximity switches	Only section 7.2.6 & 8.6 EMC without radio interference field strength
EMC	EN 60947-5-3:2013-11	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 section 7.3.3 & 8.6 EMC Without radiated field immunity test, for more see EN 61000-4-3
EMC	DIN EN 60947-5-3: 2014-12; VDE 0660-214:2014-12	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 section 7.3.3 & 8.6 EMC Without radiated field immunity test, for more see EN 61000-4-3
EMC	IEC 60947-5-3:2013-08 ed.2.0	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 section 7.3.3 & 8.6 EMC Without radiated field immunity test, for more see EN 61000-4-3
EMC	EN 60947-8:2003-07 + A1:2006-11 + A2:2012-06	Low-voltage switchgear and controlgear - Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines	Only section 8.3 & 9.4 EMC without radio interference field strength
EMC	DIN EN 60947-8:2013-07; VDE 0660-302:2013-07	Low-voltage switchgear and controlgear - Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines (IEC 60947-8:2003 + A1:2006 + A2:2011); German version EN 60947-8:2003 + A1:2006 + A2:2012	Only section 8.3 & 9.4 EMC without radio interference field strength
EMC	IEC 60947-8:2003 +AMD1:2006 +AMD2:2011-10 ed.1.2	Low-voltage switchgear and controlgear - Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines	Only section 8.3 & 9.4 EMC without radio interference field strength

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	EN IEC 61000-3-2:2019	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
EMC	DIN EN IEC 61000-3-2:2019-12; VDE 0838-2:2019-12	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) (IEC 61000-3-2:2018); German version EN IEC 61000-3-2:2019	
EMC	IEC 61000-3-2:2018	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic current emissions (equipment input current ≤ 16 A per phase)	
EMC	EN 61000-3-3:2013-08	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	
EMC	DIN EN 61000-3-3: 2014-03; VDE 0838-3:2014-03	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection (IEC 61000-3-3:2013); German version EN 61000-3-3:2013	
EMC	IEC 61000-3-3:2013-05 ed.3.0	Electromagnetic compatibility (EMC) – Part 3-3: Limits – Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems, for equipment with rated current ≤ 16 A per phase and not subject to conditional connection	

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	EN 61131-2:2007-09	Programmable controllers - Part 2: Equipment requirements and tests	Only section 8, 9 & 10 EMC without radio interference field strength. Radiated field immunity test \leq 2,7GHz for more see EN 61000-4-3
EMC	DIN EN 61131-2:2008-04; VDE 0411-500:2008-04	Programmable controllers - Part 2: Equipment requirements and tests (IEC 61131-2:2007); German version EN 61131-2:2007	Only section 8, 9 & 10 EMC without radio interference field strength, Radiated field immunity test \leq 2,7GHz for more see EN 61000-4-3
EMC	DIN EN 61131-2 Berichtigung 1:2009-01; VDE 0411-500 Berichtigung 1:2009-01	Programmable controllers - Part 2: Equipment requirements and tests (IEC 61131-2:2007); German version EN 61131-2:2007, Corrigendum to DIN EN 61131-2 (VDE 0411-500):2008-04	Only section 8, 9 & 10 EMC without radio interference field strength, Radiated field immunity test \leq 2,7GHz for more see EN 61000-4-3
EMC	IEC 61131-2:2007-07 ed.3.0	Programmable controllers - Part 2: Equipment requirements and tests	Only section 8, 9 & 10 EMC without radio interference field strength, Radiated field immunity test \leq 2,7GHz for more see EN 61000-4-3
EMC	EN 61131-9:2013-12	Programmable controllers - Part 9: Single-drop digital communication interface for small sensors and actuators (SDCI)	Only section G1 EMC without radio interference field strength

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	DIN EN 61131-9: 2015-02; VDE 0411-509:2015-02	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 section G1 EMC without radio interference field strength
EMC	IEC 61131-9:2013-09 ed.1.0	Programmable controllers - Part 9: Single-drop digital communication interface for small sensors and actuators (SDCI)	Only section G1 EMC without radio interference field strength
EMC	EN IEC 61204-3:2018	Low-voltage power supplies DC output - Part 3: Electromagnetic compatibility (EMC)	Without radio interference field strength. Radiated field immunity test $\leq 2,7$ GHz for more see EN 61000-4-3
EMC	DIN EN IEC 61204-3:2018-11; VDE 0557-3:2018-11	Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC) (IEC 61204-3:2016); German version EN IEC 61204-3:2018	Without radio interference field strength. Radiated field immunity test $\leq 2,7$ GHz for more see EN 61000-4-3
EMC	IEC 61204-3:2016 ed.3.0	Low-voltage switch mode power supplies - Part 3: Electromagnetic compatibility (EMC)	Without radio interference field strength. Radiated field immunity test $\leq 2,7$ GHz for more see IEC 61000-4-3
EMC	EN 61326-2-5:2013-01	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	Without radio interference field strength. Radiated field immunity test $\leq 2,7$ GHz for more see EN 61000-4-3
EMC	DIN EN 61326-2-5: 2013-08; VDE 0843-20-2-5:2013-08	Electrical equipment for measurement, control and laboratory use - EMC requirements - Part 2-5: Particular requirements - Test configurations,	Without radio interference field strength. Radiated field immunity test

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
		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	≤2,7GHz for more see EN 61000-4-3
EMC	IEC 61326-2-5:2012-10 ed.2.0	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	Without radio interference field strength. Radiated field immunity test ≤2,7GHz for more see IEC 61000-4-3
EMC	EN 61812-1:2011-08	Time relays for industrial and residential use - Part 1: Requirements and tests	Only section 17 EMC without radio interference field strength. Radiated field immunity test ≤2,7GHz for more see EN 61000-4-3
EMC	DIN EN 61812-1:2012-03; VDE 0435-2021:2012-03	Time relays for industrial and residential use - Part 1: Requirements and tests (IEC 61812-1:2011); German version EN 61812-1:2011	Only section 17 EMC without radio interference field strength. Radiated field immunity test ≤2,7GHz for more see IEC 61000-4-3
EMC	IEC 61812-1:2011-05 ed.2.0	Time relays for industrial and residential use - Part 1: Requirements and tests	Only section 17 EMC without radio interference field strength. Radiated field immunity test ≤2,7GHz for more see IEC 61000-4-3

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	EN 62026-2:2013	Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 2: Actuator sensor interface (AS-i) (IEC 62026-2:2008, modified); German version EN 62026-2:2013	Only section 8.6 EMC without radio interference field strength. Radiated field immunity test $\leq 2,7$ GHz for more see IEC 61000-4-3
EMC	DIN EN 62026-2 VDE 0660-2026-2:2015-03 + Berichtigung 1:2015-12	Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 2: Actuator sensor interface (AS-i) (IEC 62026-2:2008, modified); German version EN 62026-2:2013	Only section 8.6 EMC without radio interference field strength. Radiated field immunity test $\leq 2,7$ GHz for more see IEC 61000-4-3
EMC	IEC 62026-2:2008-01 ed.2.0	Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 2: Actuator sensor interface (AS-i)	Only section 8.6 EMC without radio interference field strength. Radiated field immunity test $\leq 2,7$ GHz for more see IEC 61000-4-3
EMC	EN 62041:2010-12	Safety of transformers, reactors, power supply units and combinations thereof - EMC requirements	Without radio interference field strength
EMC	DIN EN 62041:2011-09; VDE 0570-10:2011-09	Safety of transformers, reactors, power supply units and combinations thereof - EMC requirements (IEC 62041:2010); German version EN 62041:2010	Without radio interference field strength
EMC	IEC 62041:2017 ed.3.0	Transformers, power supplies, reactors and similar products - EMC requirements	Without radio interference field strength
2. Cables / Wires / RF Connectors * CABLES, WIRES, R.F. CONNECTORS			
EMC	IEC 62153-4-3: 2013-10 ed.2.0	Metallic communication cable test methods - Part 4-3: Electromagnetic compatibility (EMC) - Surface transfer impedance - Triaxial method	Methode A,B,C

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	IEC 62153-4-4: 2015-04 ed.2.0	Metallic communication cable test methods - Part 4-4: Electromagnetic compatibility (EMC) - Test method for measuring of the screening attenuation as up to and above 3 GHz, triaxial method	
EMC	IEC 62153-4-9:2008-03 ed.1.0	Metallic communication cable test methods - Part 4-9: Electromagnetic compatibility (EMC) - Coupling attenuation of screened balanced cables, triaxial method	
3. Withdrawn procedures or procedures for which more recent editions exist (but which are still referenced)			
3.1. Basic EMC standards			
EMC	EN 61000-4-4:2004 + A1:2010	Electromagnetic compatibility (EMC) - Part 4-4 : Testing and measurement techniques - Electrical fast transient/burst immunity test	
EMC	DIN EN 61000-4-4: 2010-11; VDE 0847-4-4:2010-11	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	
EMC	IEC 61000-4-4:2012 ed.3	Electromagnetic compatibility (EMC) - Part 4-4: Testing and measurement techniques - Electrical fast transient/burst immunity test	
EMC	EN 61000-4-5:2006	Electromagnetic Compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	DIN EN 61000-4-5:2007-06; VDE 0847-4-5:2007-06	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	

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29

Technical field	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
EMC	IEC 61000-4-5:2014-05 ed.3	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	EN 61000-4-5:2014	Electromagnetic compatibility (EMC) - Part 4-5: Testing and measurement techniques - Surge immunity test	
EMC	DIN EN 61000-4-5: 2015-03; VDE 0847-4-5:2015-03	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	
3.2. Product family standards only EMC			
EMC	EN 50295:1999-03	Low-voltage switchgear and controlgear - Controller and device interface systems - Actuator Sensor Interface (AS-i)	Only section 8.5, 9.3.8 § 9.4.2 EMC without radio interference field strength. Radiated field immunity test ≤2,7GHz for more see EN 61000-4-3
EMC	DIN EN 50295:1999-10	Low-voltage switchgear and controlgear - Controller and device interface systems - Actuator Sensor Interface (AS-i); German version EN 50295:1999	Only section 8.5, 9.3.8 § 9.4.2 EMC without radio interference field strength. Radiated field immunity test ≤2,7GHz for more see EN 61000-4-3

Abbreviations used:

DIN Deutsches Institut für Normung e.V.

-Translation-

Valid from: 2020-07-29

Date of issue: 2020-07-29