Zertifikat zur Anerkennung

Certificate of acceptance

von / *of*

Siemens AG
EMV Labor RBG S 10
Siemensstraße 10, 93055 Regensburg
GERMANY

durch die / *by the*

VDE Prüf- und Zertifizierungsinstitut GmbH

VDE Testing and Certification Institute

für das / *for the*

Test Data Acceptance Program

in der Stufe 2 / in the Stage 2

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2022-07-08

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VDE INSTITUT

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for

Siemens AG
EMV Labor RBG S 10
Siemensstraße 10, 93055 Regensburg
GERMANY

Products:	Standards:	Persons:
	IECEE CB scheme	Mr. Alois Winzinger Mr. Daniel Baumann Mr. Patrick Wittmann Mr. Wolfgang Bonn
Low-voltage switchgear and controlgear – Part 1: General rules --	IEC 60947-1:2020 EN IEC 60947-1:2021 DIN EN IEC 60947-1 (VDE 0660-100):2022-03 Accepted clauses 8.3 and 9.4 (EMC) Radiated emission in 3 m FAR ---	
Low-voltage switchgear and controlgear – Part 1: General rules --	IEC 60947-1:2007 IEC 60947-1:2007/AMD1:2010 IEC 60947-1:2007/AMD2:2014 EN 60947-1:2007 EN 60947-1:2007/A1:2011 EN 60947-1:2007/A2:2014 DIN EN 60947-1 (VDE 0660-100):2015-09 Accepted clauses 7.3 and 8.4 (EMC) No radiated emission measurements (3 m FAR not forseen in standard) ---	
Low-voltage switchgear and controlgear – Part 5-1: Control circuit devices and switching elements – Electromechanical control circuit devices --	IEC 60947-5-1:2016 EN 60947-5-1:2017 DIN EN 60947-5-1 (VDE 0660-200):2018-03 Accepted clauses: 7.3 and 8.4 (EMC) No radiated emission measurements (3 m FAR not forseen in standard) ---	
Low-voltage switchgear and controlgear – Circuit breakers --	IEC 60947-2:2016 IEC 60947-2:2016/AMD1:2019 EN 60947-2:2017 EN 60947-2:2017/A1:2020 DIN EN 60947-2 (VDE 0660-101):2020-11 Annex B, F, J, M, N (all clauses dealing with EMC) No radiated emission measurements (3 m FAR not forseen in standard) ---	

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Products:	Standards:
Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fusecombination units --	IEC 60947-3:2020 EN IEC 60947-3:2021 DIN EN IEC 60947-3 (VDE 0660-107):2021-09 EMC, Radiated emission in 3 m FAR ---
Low-voltage switchgear and controlgear – Part 3: Switches, disconnectors, switch-disconnectors and fusecombination units ----	IEC 60947-3:2008 IEC 60947-3:2008/AMD1:2012 IEC 60947-3:2008/AMD2:2015 EN 60947-3:2009 EN 60947-3:2009/A1:2012 EN 60947-3:2009/A2:2015 DIN EN 60947-3 (VDE 0660-107):2017-02 All clauses dealing with EMC No radiated emission measurements (3 m FAR not forseen in standard) ---
Low-voltage switchgear and controlgear – Part 4-1: Contactors and motorstarters – Electromechanical contactors and motor-starters --	IEC 60947-4-1:2018 EN IEC 60947-4-1:2019 DIN EN IEC 60947-4-1 (VDE 0660-102):2020-05 EMC, Radiated emission in 3 m FAR ---
Low-voltage switchgear and controlgear – Part 4-1: Contactors and motorstarters – Electromechanical contactors and motor-starters --	IEC 60947-4-1:2009 IEC 60947-4-1:2009/AMD1:2012 EN 60947-4-1:2010 EN 60947-4-1:2010/A1:2012 DIN EN 60947-4-1 (VDE 0660-102):2014-02 All clauses dealing with EMC No radiated emission measurements (3 m FAR not forseen in standard) ---
AFDD --	EC 62606:2013 IEC 62606:2013/AMD1:2017 EN 62606:2013 + A1:2017 DIN EN 62606 (VDE 0665-10):2014-08 DIN EN 62606/A1 (VDE 0665-10/A1):2021-05 Accepted clause 9.21 (EMC), No disturbance power measurements No radiated emission measurements (3 m FAR not forseen in standard) ---

Persons:

Mr. Alois Winzinger
Mr. Daniel Baumann
Mr. Patrick Wittmann
Mr. Wolfgang Bonn

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Products:	Standards:	Persons:
IC-CPD ---	IEC 62752:2016 IEC 62752:2016/AMD1:2018 EN 62752:2016 + A1:2020 DIN EN 62752 (VDE 0666-10):2017-04 (A1 yet not published as DIN EN) Accepted clauses 9.26 and 9.16, no disturbance power measurements, Radiated emission in 3 m FAR ---	Mr. Alois Winzinger Mr. Daniel Baumann Mr. Patrick Wittmann Mr. Wolfgang Bonn
Residual direct current monitoring device to be used for mode 3 charging of electric vehicle --	IEC 62955:2018 Accepted clauses 9.21.2 and 9.18.1, no disturbance power measurements, Radiated emission in 3 m FAR ---	
Residual current operated circuitbreakers without integral overcurrent protection for household and similar uses (RCCBs) --	IEC 61008-1:2010 IEC 61008-1:2010/AMD1:2012 IEC 61008-1:2010/AMD2:2013 Accepted clauses 9.24.2 (EMC) and 9.19.1 No disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) ---	
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Applicability of the general rules to RCCBs functionally dependent on line voltage ---	IEC 61008-2-2:1990 Accepted clauses 9.24.2 and 9.19.1 No disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) ---	
Residual current operated circuit breakers with integral overcurrent protection for household and similar uses (RCBOs) --	IEC 61009-1:2010 IEC 61009-1:2010/AMD1:2012 IEC 61009-1:2010/AMD2:2013 Accepted clauses 9.24.2 and 9.19.1 No disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) ---	
Residual current operated circuitbreakers with integral overcurrent protection for household and similar uses (RCBOs) --	IEC 61009-2-1:1991 Accepted clauses 9.24.2 and 9.19.1, No disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) ---	

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Products:	Standards:	Persons:
Residual current operated circuit breakers with integral overcurrent protection for household and similar uses (RCBOs) -- Residual current operated protective devices (RCD) for household and similar use --	IEC 61009-2-2:1991 Accepted clauses 9.24.2 and 9.19.1, no disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) --- IEC 61543:1995 IEC 61543:1995/AMD1:2004 IEC 61543:1995/AMD2:2005 All clauses Radiated emission with 3 m FAR (if test method is allowed by standard) ---	Mr. Alois Winzinger Mr. Daniel Baumann Mr. Patrick Wittmann Mr. Wolfgang Bonn
Industrial, scientific and medical equipment --	CISPR 11:2015 CISPR 11:2015/AMD1:2016 CISPR 11:2015/AMD2:2019 Radiated emission with 3 m FAR ---	
Household appliances, electric tools and similar apparatus --	CISPR 14-1:2005 CISPR 14-1:2005/AMD1:2008 CISPR 14-1:2005/AMD2:2011 EN 55014-1:2006 EN 55014-1:2006/A1:2009 EN 55014-1:2006/A2:2011 DIN EN 55014-1:2012-05 No disturbance power Measurements No radiated emission measurements (3 m FAR not forseen in standard) ---	
Household appliances, electric tools and similar apparatus --	CISPR 14-1:2016 EN 55014-1:2017 DIN EN 55014-1 (VDE 0875-14-1):2018-08 No disturbance power measurements Radiated emission with 3 m FAR ---	
Household appliances, electric tools and similar apparatus --	CISPR 14-1:2020 EN IEC 55014-1:2021 (DIN EN IEC not published yet) No disturbance power measurements Radiated emission with 3 m FAR ---	
Radio disturbances	CISPR 22:2008 EN 55022:2010 EN 55022:2010/AC:2011 DIN EN 55022 (VDE 0878-22):2011-12 + Ber. 1:2016-08 No measurements with CVP. No radiated emission measurements (3 m FAR not forseen in standard) ---	

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Products:	Standards:	Persons:
Electromagnetic compatibility of multimedia equipment – Emission Requirements --	CISPR 32:2015 EN 55032:2015 DIN EN 55032 (VDE 0878-32):2016-02 No measurements with CVP. Radiated emission with 3 m FAR ---	Mr. Alois Winzinger Mr. Daniel Baumann Mr. Patrick Wittmann Mr. Wolfgang Bonn
Electromagnetic compatibility of multimedia equipment – Emission Requirements	CISPR 32:2015/AMD1:2019-10 EN 55032:2015/A1:2020 No measurements with CVP. Radiated emission with 3 m FAR ---	
Limits for harmonic current emissions (equipment input current ≤ 16 A per phase) --	IEC 61000-3-2:2014 EN 61000-3-2:2014 DIN EN 61000-3-2 (VDE 0838-2):2015-03 All clauses IEC 61000-3-2:2018 EN IEC 61000-3-2:2019 DIN EN IEC 61000-3-2 (VDE 0838-2):2019-12 All clauses IEC 61000-3-2/AMD1:2020 All clauses ---	
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 EN 61000-3-3:2013 DIN EN 61000-3-3 (VDE 0838-3):2014-03 All clauses IEC 61000-3-3:2013 IEC 61000-3-3:2013/AMD1:2017 EN 61000-3-3:2013 EN 61000-3-3:2013/A1:2019 DIN EN 61000-3-3 (VDE 08383):2020-07 All clauses IEC 61000-3-3:2013/AMD2:2021 EN 61000-3-3:2013/A2:2021 All clauses ---	
Immunity for residential, commercial and light-industrial environments --	IEC 61000-6-1:2016 EN IEC 61000-6-1:2019 DIN EN IEC 61000-6-1 (VDE 0839-6-1):2019-11 All clauses ---	

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Products:	Standards:
Immunity standard for industrial environments-- Immunity standard for industrial environments --	IEC 61000-6-2:2016 EN IEC 61000-6-2:2019 DIN EN IEC 61000-6-2 (VDE 0839-6-2):2019-11 All clauses ---
Generic standards – Emission standard for residential, commercial and light-industrial environments --	IEC 61000-6-3:2020 EN IEC 61000-6-3:2021 DIN EN IEC 61000-6-3 (VDE 0839-6-3):2022-06 Radiated emission with 3 m FAR IEC 61000-6-4:2018 EN IEC 61000-6-4:2019 DIN EN IEC 61000-6-4 (VDE 0839-6-4):2020-09 Radiated emission with 3 m FAR ---
Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic switches --	IEC 60669-2-1:2002 IEC 60669-2-1:2002/AMD1:2008 IEC 60669-2-1:2002/AMD2:2015 Clause 26 (EMC) Radiated emission with 3 m FAR (26.2.2), if test method is allowed by standard ---
Switches for household and similar fixed electrical installations – Part 2-1: Particular requirements – Electronic control devices --	IEC 60669-2-1:2021 Clause 26 (EMC) Radiated emission with 3 m FAR ---
Switches for household and similar fixed electrical installations - Part 2-5: Particular requirements - Switches and related accessories for use in home and building electronic systems (HBES)	IEC 60669-2-5:2013 Clause 26 (EMC) Radiated emission with 3 m FAR (26.3.4) ----------
	NO IECEE CB scheme
Schalter für Haushalt und ähnliche ortsfeste elektrische Installationen – Ergänzungsnorm – Schalter und ähnliches Installationsmaterial zur Verwendung in elektronischer Systemtechnik für Heim und Gebäude (ESHG	EN 50428:2005 EN 50428:2005/A1:2007 EN 50428:2005/A2:2009 DIN EN 50428 (VDE 0632-400):2010-02 Clause 26 (EMC) except for 26.2.4 No radiated emissions (26.2.4), 3 m FAR not forseen in standard ---

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Products:	Standards:	Persons:
Switches for household and similar fixed electrical installations - Part 2-1: Particular requirements - Electronic Switches --	IEC 60669-2-1:2002, mod. IEC 60669-2-1:2010/AMD1:2008, mod. EN 60669-2-1:2004 EN 60669-2-1:2004/A1:2009 DIN EN 60669-2-1 (VDE 0632-2-1):2010-03 Radiated emission with 3 m FAR (26.2.2), if test method is allowed by standard ---	Mr. Alois Winzinger Mr. Daniel Baumann Mr. Patrick Wittmann Mr. Wolfgang Bonn
Switches for household and similar fixed electrical installations - Part 2-5: Particular requirements - Switches and related accessories for use in home and building electronic systems (HBES --	IEC 60669-2-5:2013, mod. EN 60669-2-5:2016 DIN EN 60669-2-5 (VDE 0632-2-5):2017-05 Clause 26 (EMC) Radiated emission with 3 m FAR (26.3.4) ---	
Residual current operated protective devices (RCD) for household and similar use-- Fehlerstrom-/Differenzstrom-Schutzschalter ohne eingebauten Überstromschutz (RCCBs) für Hausinstallationen und für ahnliche Anwendungen – Teil 120: Anhang M – Besondere Anforderungen für Zusatzeinrichtungen Residual current operated circuitbreakers without integral overcurrent protection for household and similar uses (RCCB's) – Part 120: Annex M – Particular requirements for additional devices --	EN 61543:1995 EN 61543:1995/Corrigendum Dec. 1997 EN 61543:1995/A11:2003 EN 61543:1995/A11:2003/Corr. 2004 EN 61543:1995/ A12:2005 EN 61543:1995/A2:2006 DIN EN 61543 (VDE 06664-30):2006-06 + Ber. 1:2007-06 All clauses ---	

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Products:	Standards:	Persons:
Residual current operated circuit- breakers without integral overcurrent protection for household and similar uses (RCCBs) -- ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements --	IEC 61008-1:2010, mod. IEC 61008-1:2010/AMD1:2012, mod. IEC 61008-1:2010/AMD2:2013, mod. EN 61008-1:2012 EN 61008-1:2012/A1:2014 EN 61008-1:2012/ A1:2014/AC:2016 EN 61008-1:2012/A2:2014 EN 61008-1:2012/A11:2015 EN 61008-1:2012/A12:2017 DIN EN 61008-1 (VDE 0664-10):2018-03 Accepted clauses 9.24.2 (EMC) and 9.19.1, No disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) ---	Mr. Alois Winzinger Mr. Daniel Baumann Mr. Patrick Wittmann Mr. Wolfgang Bonn
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) --	IEC 61009-1:2010, mod. IEC 61009-1:2010/AMD1:2012, mod. IEC 61009-1:2010/AMD2:2013, mod. EN 61009-1:2012 EN 61009-1:2012/A1:2014 EN 61009-1:2012/A2:2014 EN 61009-1:2012/A11:2015 EN 61009-1:2012/A12:2016 DIN EN 61009-1 (VDE 0664-20):2016-10 Accepted clauses 9.24.2 (EMC) and 9.19.1, No disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) EN 61009-1:2012/A13:2021 Accepted clauses 9.24.2 (EMC) and 9.19.1, No disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) ---	
Electrical accessories – Residual current monitors (RCMs) Part 1: RCMs for household and similar uses --	IEC 62020-1:2020 EN IEC 62020-1:2021 DIN EN IEC 62020-1 (VDE 0663-1):2021-10 Accepted clause 8.18 (EMC); No disturbance power measurements, Radiated emission with 3 m FAR ---	

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Products:	Standards:	Persons:
Residual current monitors for household and similar uses --	IEC 62020:1998 IEC 62020:1998/AMD1:2003 EN 62020:1998 EN 62020:1998/A1:2005 DIN EN 62020 (VDE 0663):2005-11 Accepted clause 9.22 (EMC); No disturbance power measurements, Radiated emission with 3 m FAR, if test method is allowed by standard ---	Mr. Alois Winzinger Mr. Daniel Baumann Mr. Patrick Wittmann Mr. Wolfgang Bonn
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 101: Applicability of the general rules to RCCBs for rated voltage exceeding 440 V AC or rated current exceeding 125 A --	DIN VDE 0664-101 (VDE 0664-101):2003-10 Accepted clauses 9.24.2 and 9.19.1 No disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) ---	
Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's) – Part 120: Annex M –Particular requirements for additional devices	DIN V VDE V 0664-120 (VDE V 0664-120):2010-07 Accepted clauses 9.24.2 and 9.19.1 No disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) ---	
Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) Part 220: Annex M – Particular requirements for additional devices	DIN V VDE V 0664-220 (VDE V 0664-220):2010-07 Accepted clauses 9.24.2 and 9.19.1 No disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) ----	
Residual current operated circuit-breakers type B without integral overcurrent protection to operate at residual --	DIN VDE 0664-400 (VDE 0664-400):2012-05 Accepted clause: Refer to IEC 61008-1 Radiated emission with 3 m FAR (if test method is allowed by standard) ---	

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Products:	Standards:	Persons:
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Residual current operated circuit- breakers type B with integral overcurrent protection to operateat residual alternating and residual direct currents for advanced preventive protection against fire – Part 401: RCBO Type B+ ---	DIN VDE 0664-401 (VDE 0664-401):2012-05 Accepted clause: Refer to IEC 61008-1 Radiated emission with 3 m FAR (if test method is allowed by standard) ---	
Electrical accessories - residual current monitors for household and similar uses (RCMs) --	IEC 62335:2008 Accepted clause: 9.31 and Annex D, no disturbance power measurements Radiated emission with 3 m FAR (if test method is allowed by standard) ---	
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 17: Specific conditions for Broadband Data Transmission Systems	EN 301 489-17 V3.2.4 (2020-09) No testing of the immunity against transients and surges in the vehicular environment Radiated emission with 3 m FAR ---	
ElectroMagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements	EN 301 489-1 V2.2.3 (2019-11) No testing of the immunity against transients and surges in the vehicular environment Radiated emission with 3 m FAR ---	
Industrial, scientific and medical equipment ----	CISPR 11:2015, mod. CISPR 11:2015/AMD1:2016 EN 55011:2016 EN 55011:2016/A1:2017 DIN EN 55011 (VDE 0875-11):2018-05 No measurements of the radiated disturbance in the frequency range 9 kHz to 30 MHz Radiated emission with 3 m FAR ---	

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Products:	Standards:
Industrial, scientific and medical equipment --	CISPR 11:2015, modified CISPR 11:2015/A1:2016 CISPR 11:2015/A2:2019 EN 55011:2016+A1:2017+A11:2020 +A2:2021 DIN EN 55011 (VDE 0875-11):2022-05 No measurements of the radiated disturbance in the frequency range 9 kHz to 30 MHz Radiated emission with 3 m FAR ---
Conducted disturbance Measurements --	CISPR 16-2-1:2014 CISPR 16-2-1:2014/A1:2017 EN 55016-2-1:2014 EN 55016-2-1:2014/A1:2017 DIN EN 55016-2-1 (VDE 0877-16-2-1):2019-11 No measurements with 150 Ω-Δ-AN ---
Radiated disturbance Measurements --	CISPR 16-2-3:2016-09 CISPR 16-2-3:2016-09/AMD1:2019-06 EN 55016-2-3:2017+A1:2019 DIN EN 55016-2-3 (VDE 0877-16-2-3): 2020-11 Radiated emission in the frequency range 30 MHz to 18 GHz with 3 m FAR ---
Electrostatic discharge immunity test --	IEC 61000-4-2:2008 EN 61000-4-2:2009 DIN EN 61000-4-2 (VDE 0847-4-2):2009-12 All clauses ---
Radiated, radio-frequency, electromagnetic field immunity test --	IEC 61000-4-3:2020 EN IEC 61000-4-3:2020 DIN EN IEC 61000-4-3 (VDE 0847-4-3):2021-11 All clauses, up to 6 GHz IEC 61000-4-3:2006 IEC 61000-4-3:2006/AMD1:2007 IEC 61000-4-3:2006/AMD2:2010 DIN EN 61000-4-3 (VDE 0847-4-3):2011-04 All clauses, up to 6 GHz ---

Persons:

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Products:	Standards:	Persons:
Electrical fast transient/burst immunity test	IEC 61000-4-4:2012 EN 61000-4-4:2012 DIN EN 61000-4-4 (VDE 0847-4-4):2013-04 All clauses ---	Mr. Alois Winzinger Mr. Daniel Baumann Mr. Patrick Wittmann Mr. Wolfgang Bonn
Surge immunity test	IEC 61000-4-5:2014 IEC 61000-4-5:2014/AMD1:2017 EN 61000-4-5:2014 EN 61000-4-5:2014/A1:2017 DIN EN 61000-4-5 (VDE 0847-4-5):2019-03 All clauses ---	
Immunity to conducted disturbances, induced by radio- frequency fields	IEC 61000-4-6:2013+COR1:2015 EN 61000-4-6:2014 DIN EN 61000-4-6 (VDE 0847-4-6):2014-08 All clauses ---	
Power frequency magnetic field immunity test	IEC 61000-4-8:2009 EN 61000-4-8:2010 DIN EN 61000-4-8 (VDE 0847-4-8):2010-1 Testing with standardized loop coil 1 m x 1 m ---	
Voltage dips, short interruptions and voltage variations immunity tests	IEC 61000-4-11:2004 IEC 61000-4-11:2004/AMD1:2017 EN 61000-4-11:2004 EN 61000-4-11:2004/A1:2017 DIN EN 61000-4-11 (VDE 0847-4-11):2019-06 All clauses ---	
Voltage dips, short interruptions and voltage variations immunity tests	IEC 61000-4-11:2020 EN IEC 61000-4-11:2020 DIN EN IEC 61000-4-11 (VDE 0847-4-11): 2021 All clauses ---	
Ring wave immunity test	IEC 61000-4-12:2017-07 EN 61000-4-12:2017 DIN EN 61000-4-12 (VDE 0847-4-12):2019-03 All clauses ---	
Test for immunity to conducted, common mode disturbances in the frequency range 0 Hz to 150 kHz	IEC 61000-4-16:2015-10 EN 61000-4-16:2016 DIN EN 61000-4-16 (VDE 0847-4-16):2016-10 All clauses	

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Products:

Generic standards – Emission standard for residential, commercial and light-industrial environments

Standards:

IEC 61000-6-8:2020
EN IEC 61000-6-8:2020
DIN EN IEC 61000-6-8 (VDE 0839-6-8):2022
Radiated emission with 3 m FAR

Persons:

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Mr. Daniel Baumann
Mr. Patrick Wittmann
Mr. Wolfgang Bonn

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2022-07-08
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