Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-12107-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 26.06.2020

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Holder of certificate:

IPH Institut "Prüffeld für elektrische Hochleistungstechnik" GmbH
Landsberger Allee 378 A, 12681 Berlin

Tests in the fields:

High-voltage equipment and components
Low-voltage equipment and components of installation, switching, control and protective equipment and railway applications
High-voltage, medium-voltage and low-voltage cables and their accessories

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 standards / equivalent 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

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Testing of high-voltage equipment and components as described in the subsequent listed standards			
High-voltage Switchgear, Control gear and Assemblies (general)			
Electrical engineering	IEC 62271-1 (2017-07) Ed. 2.0 EN 62271-1:2017 DIN EN 62271-1 (2018-05) VDE 0671-1: 2018-05	High-voltage switchgear and controlgear – Part 1: Common specifications	
Circuit-breaker			
Electrical engineering	IEC 62271-100 (2012-09) Ed. 2.1 +A2:2007+Cor1:2018 STL-Guide EN 62271-100:2009 + A1:2012 + A2:2017 DIN EN 62271-100:2018-04 VDE 0671-100:2018-04	High-voltage switchgear and controlgear – Part 100: High-voltage alternating-current circuit-breakers	
Electrical engineering	IEC 62271-101 (2012-10) Ed. 2.0 +A1:2017 + Cor1:2018 STL-Guide EN 62271-101:2013 +A1:2018 DIN EN 62271-101:2018-11 VDE 0671-101	High-voltage switchgear and controlgear – Part 101: Synthetic testing	
Electrical engineering	IEC 62271-108 (2005-10) Ed. 1.0 EN 62271-108:2006 DIN EN 62271-108:2006-10 VDE 0671-108	High-voltage switchgear and controlgear – Part 108: High-voltage alternating current disconnecting circuit-breakers for rated voltages of 72,5 kV and above	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 62271-109:(2019-04) Ed.3.0 EN 62271-109 DIN EN 62271-109:2019 VDE 0671-109	High-voltage switchgear and controlgear – Part 109: Alternating-current series capacitor by-pass switches	
Electrical engineering	IEC 62271-110: (2017-10) Ed. 4.0 + Cor2:2018 EN 62271-110:2018+AC:2018 DIN EN 62271-110:2018-08 VDE 0671-110	High-voltage switchgear and controlgear – Part 110: Inductive load switching	
Electrical engineering	IEEE C37.60-2018 IEC 62271-111 (2019-02) Ed. 3.0 VDE 0671-111	Overhead, pad-mounted, dry vault, and submersible automatic circuit re-closers and fault interrupters for alternating current systems up to 38 kV.	
Electrical engineering	IEC 62271-205 EN 62271-205:2008 +Cor:2008 DIN EN 62271-205:2008-12 VDE 0671-205	High-voltage switchgear and controlgear – Part 205: Compact switchgear assemblies for rated voltages above 52 kV.	
Load switches			
Electrical engineering	IEC 62271-103 (2001-06) + Cor1:2013 EN 62271-103:2011 DIN EN 62271-103:2012-04 +Ber:2016 VDE 0671-103 STL-Guide	High-voltage switchgear and controlgear – Part 103: Switches for rated voltages above 1 kV up to and including 52 kV.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 62271-104 (2015-02) Ed. 2.0 EN 62271-104:2015 DIN EN 62271-104:2015-11 VDE 0671-104	High-voltage switchgear and controlgear – Part 104: Alternating current switches for rated voltages higher than 52 kV.	
Electrical engineering	IEC 62271-105 (2012-09) Ed. 2.0 EN 62271-105:2012 DIN EN 62271-105:2013-08 VDE 0671-105	High-voltage switchgear and controlgear – Part 105: Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV.	
Electrical engineering	IEC 62271-107 (2012-05) Ed. 2.0 EN 62271-107:2012 DIN EN 62271-107:2013-03 VDE 0671-107	High-voltage switchgear and controlgear – Part 107: Alternating current fused circuit-switchers for rated voltages above 1 kV up to and including 52 kV.	
Current contractors and motorstarters			
Electrical engineering	IEC 62271-106 (2014-02) Ed. 1.0 + Corr 1 EN 62271-106:2011 DIN IEC 62271-106:2012-06 VDE 0671-106	High-voltage alternating current contactors and contactor-based motor starters.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Current disconnectors and earthing switches			
Electrical engineering	IEC 62271-102 (2018-05) Ed. 2.0 EN 62271-102:2002/A2:2013 DIN EN 62271-102:2012-06 + Ber.2016 VDE 0671-102/A2	High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches.	
Fuses			
Electrical engineering	IEC 60282-1 (2014-07) Ed. 7.1 STL-Guide EN 60282-1:2009 + A1:2014 DIN EN 60282-1:2015-05 VDE 0670-4	High-voltage fuses – Part 1: Current-limiting fuses.	
Electrical engineering	IEC 60282-2 (2008-04) Ed. 3.0	High-voltage fuses; – Part 2: Expulsion fuses	
Electrical engineering	IEC 60644 (2009-08) Ed. 2.0 EN 60644:2009 DIN EN 60644:2010-07 VDE 0670-401	Anforderungen an Hochspannungs-Sicherungseinsätze für Motorstromkreise. Specification for high-voltage fuse-links for motor circuit applications.	
High-voltage switchgear and control gear assemblies			

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 62271-200 (2011-10) Ed. 2.0 STL- Guide EN 62271-200:2012 DIN EN 62271-200:2012-08 +Ber1:2016 VDE 0671-200	High-voltage switchgear and controlgear – Part 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV.	
Electrical engineering	IEC 62271-201 (2014-03) Ed. 2.0 EN 62271-201:2014 DIN EN 62271-201:2015-03 VDE 0671-201	High-voltage switchgear and controlgear – Part 201: A.C. insulation-enclosed switch-gear and controlgear for rated voltages above 1 kV and up to and including 52 kV.	
Electrical engineering	IEC 62271-203 (2013-07) Ed. 2.0 + Corr. 1 STL-Guide EN 62271-203:2012 DIN EN 62271-203:2012-11 VDE 0671-203	High-voltage switchgear and controlgear – Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV.	
Electrical engineering	IEC 62271-204 (2011-07) Ed. 1.0 STL-Guide EN 62271-204:2011 DIN EN 62271-204:2012-05 VDE 0671-204	High-voltage switchgear and controlgear – Part 204: Rigid gas-insulated transmission lines for rated voltage above 52 kV.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 62271-209 (2007-08) Ed. 1.0 EN 62271-209:2007 DIN EN 62271-209:2008-07 VDE 0671-209	High-voltage switchgear and controlgear – Part 209: Cable connections for gas-insulated metal-enclosed switchgear for rated voltages above 52 kV – Fluid-filled and extruded insulation cables – Fluid-filled and dry-type cable-terminations.	
Electrical engineering	IEC 62271-202 EN 62271-202:2014 + AC:2014 DIN EN 62271-202:2015-02 VDE 0671-202	High-voltage switchgear and controlgear – Part 202: High voltage / low voltage prefabricated substation.	
Electrical engineering	IEC 62271-205 (2008-01) Ed. 1.0 EN 62271-205:2008 DIN EN 62271-205:2008-12 VDE 0671-205	High-voltage switchgear and controlgear – Part 205: Compact switchgear assemblies for rated voltages above 52 kV.	
Electrical engineering	ANSI / IEEE C37.23-2015	IEEE Standard for Metal-Enclosed Bus	
Switch gear für direct current			
Electrical engineering	DIN VDE 0660-112:1987-02 VDE 0660-112	Schaltgeräte; Zusatzbestimmungen für Gleichstrom-Lastschalter, -Trenner und -Lasttrenner über 1200 V bis 3000 V.	
Power transformers, reactors, line traps, tap-changers			

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 60076-1 (2011-04) Ed. 3.0 EN 60076-1:2011 DIN EN 50076-1:2012-03 VDE 0532-76-1	Power transformers – Part 1: General.	
Electrical engineering	IEC 60076-2 (2011-02) Ed. 3.0 EN 60076-2:2011 DIN EN 60076-2:2012-02 VDE 0532-76-2	Power transformers – Part 2: Temperature rise for liquid-immersed transformers.	
Electrical engineering	IEC 60076-3 (2013-07) Ed. 3.0 EN 60076-3:2013 DIN EN 60076-3:2014-08 VDE 0532-76-3	Power transformers – Part 3: Insulation levels, dielectric tests and external clearances in air.	
Electrical engineering	VDE 0532-76 -4 DIN EN 60076-4:2003-06 IEC 60076-4 (2002-06) Ed. 1.0	Power transformers – Part 4: Guide to the lightning impulse and switching impulse testing - Power transformers and reactors.	
Electrical engineering	IEC 60076-5 (2006-02) Ed. 3.0 STL-Guide EN 60076-5:2006 DIN EN 60076-5:2007-01 VDE 0532-76-5	Power transformers – Part 5: Ability to withstand short circuit.	
Electrical engineering	IEC 60076-6 (2007-12) Ed. 1.0 EN 60076-6:2008 DIN EN 60076-6:2009-02 VDE 0532-76-6	Power transformers – Part 6: Reactors.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 60076-10 (2016-03) Ed. 2.0 EN 60076-10:2016 DIN EN 60076-10:2017-06 VDE 0532-76-10	Power transformers – Part 10-1: Determination of sound levels (+ Application guide).	
Electrical engineering	IEC 60076-11 (2004-05) Ed. 1.0 EN 60076-11:2004 DIN EN 60076-11:2005-04 VDE 0532-76-11	Power transformers – Part 11: Dry-type transformers.	
Electrical engineering	IEC 60076-13 EN 60076-13:2006 DIN EN 60076-13:2007-07 VDE 0532-76-13	Power transformers – Part 13: Self-protected liquid-filled transformers.	
Electrical engineering	DIN 57532-21:1982-03 VDE 0532-21	Transformers and reactors; reactors and three-phase neutral electromagnetic couplers	
Electrical engineering	VDE 0532 Teil 30 DIN EN 60214:2015-04 IEC 60214-1 (2014-05) Ed. 2.0	Tap-changer	
Electrical engineering	VDE 0851 IEC 60353 (2004-04) Ed. 2.0	Line traps for a.c. power systems.	
Instrument transformers			

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 61869-1 (2007-10) Ed. 1.0 EN 61869-1:2009 DIN EN 61869-1:2010-04 VDE 0414-9-1	Instrument transformers – Part 1: General requirements.	
Electrical engineering	IEC 61869-2(2012-09) Ed. 1.0 EN 61869-2:2012 DIN EN 61869-2:2013-07 + Ber. VDE 0414-9-2	Instrument transformers – Part 2: Additional requirements for current transformers.	
Electrical engineering	IEC 61869-3 (2011-07) Ed. 1.0 EN 61869-3:2011 DIN EN 61869-3:2012-05 VDE 0414-9-3	Instrument transformers – Part 3: Additional requirements for inductive voltage transformers.	
Electrical engineering	IEC 61869-4 (2013-11) Ed. 1.0 EN 61869-4:2014 DIN EN 61869-4:2015-04 VDE 0414-9-4	Instrument transformers – Part 4: Additional requirements for combined transformers.	
Electrical engineering	VDE 0414-9-5 DIN EN 61869-5:2012-05 IEC 61869-5 (2015-08) Ed. 1.0	Capacitive Voltage Transformers.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0414-44-8 DIN EN 60044-8:2003-06 IEC 60044-8 (2002-07) Ed.1.0 IEC 61869-8	Instrument transformers – Part 8: Electronic current transformers	
Electrical engineering	IEC 60044-7 (1999-12) Ed. 1.0 EN 60044-7:2000-11 DIN EN 60044-7:2000-11 VDE 0414-44-7 IEC 61869-7	Instrument transformers – Part 7: Electronic voltage transformers.	
Capacitors			
Electrical engineering	DIN VDE 0560-1:1969-12 VDE 0560-1	Specifications for capacitors; General requirements	
Electrical engineering	IEC 60252-1 (2013-08) Ed. 2.1 EN 60252-1:2011 + A1:2013 DIN EN 60252-1:2014-07 VDE 0560-8	AC motor capacitors – Part 1: General - Performance, testing and rating - Safety requirements - Guidance for installation and operation.	
Electrical engineering	IEC 60110-1 (1998-06) Ed. 1.0 EN 60110-1:1998 DIN EN 61110-1:1999-09 VDE 0560-9	Power capacitors for induction heating installations – Part 1: General.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	DIN VDE 0560-10:1964-10 VDE 0560-10	Rules for capacitors; part 10: Rules for high frequency power capacitors	
Insulators and bushings			
Electrical engineering	DIN VDE 0441-1:1985-07 VDE 0441-1	Tests on insulators of organic material for systems with nominal alternating voltages greater than 1000 V; tests on materials	
Electrical engineering	IEC 60660 (1999-10) Ed. 2.0 EN 60660:1999 DIN EN 60660:2000-12 VDE 0441-3	Insulators – Tests on indoor post insulators of organic material for systems with nominal voltages greater than 1000 V up to but not including 300 kV.	
Electrical engineering	IEC 60383-1 (1993-04) Ed. 4.0 EN 60383-1:1996 DIN EN 60383-1:1997-05 VDE 0446-1	Insulators for overhead lines with a nominal voltage above 1000 V – Part 1: Ceramic or glass insulator units for a.c. systems - Definitions, test methods and acceptance criteria.	
Electrical engineering	IEC 60383-2 (1993-04) Ed. 1.0 EN 60383-2:1995 DIN EN 60383-2:1995-08 VDE 0446-4	Insulators for overhead lines with a nominal voltage above 1000 V – Part 2: Insulator strings and insulator sets for a.c. systems - Definitions, test methods and acceptance criteria.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 60168 (2001-04) Ed. 4.2 EN 60168:1994 DIN EN 60168:2001-12 VDE 0674-1	Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V.	
Electrical engineering	IEC 62155 (2003-05) Ed. 1.0 EN 62155:2003 DIN EN 62155:2004 VDE 0674-200	Hollow pressurized and unpressurized ceramic and glass insulators for use in electrical equipment with rated voltages greater than 1000 V.	
Electrical engineering	IEC 60137 (2017-06) Ed. 7.0 +Cor1:2018 EN 60137:2017 DIN EN 60137:2018-05 +Ber:2018-11 VDE 0674-500	Insulated bushings for alternating voltages above 1000 V.	
Overhead lines			
Electrical engineering	IEC 61284 (1997-09) Ed. 2.0 + Corr. EN 61284:1997 DIN EN 6128 4:1998-05 VDE 0212-1	Overhead lines – Requirements and tests for fittings.	
Electrical engineering	IEC 61854 (1998-09) Ed. 1.0 EN 61854:1998 DIN EN 61854:1999-08 VDE 0212-2	Overhead lines – Requirements and tests for spacers.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 61897 (1998-09) Ed. 1.0 EN 61897:1998 DIN EN 61897:1999-08 VDE 0212-3	Overhead lines – Requirements and tests for Stockbridge type aeolian vibration dampers.	
Electrical engineering	DIN VDE 0216:1986-2 VDE 0216	Fittings for overhead and conductor rail equipment; static mechanical behaviour; requirements and testing	
HVDC Thyristors valves			
Electrical engineering	IEC 60700-1 (2015-01) Ed. 2.0 +Cor1:2017 EN 60700-1:2015 + AC:2017 DIN EN 60700-1:2016-07 VDE 0553-1	Thyristorventile für Hochspannungsgleichstrom-Energieübertragung (HGÜ) – Teil 1: Elektrische Prüfung. Thyristor valves for high voltage direct current (HVDC) power transmission – Part 1: Electrical testing.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Equipment for operating, testing, marking off, live working. Equipment for earthing, short-circuiting			
Electrical engineering	DIN VDE 0681-1:2016-11 VDE 0681-1	Live working - Devices for operating and testing with nominal voltages exceeding 1 kV - Part 1: General requirements	
Electrical engineering	DIN VDE 0681-2:2016-11 VDE 0681-2	Live working - Devices for operating and testing with nominal voltages exceeding 1 kV - Part 2: Specifications for switching sticks	

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Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	DIN VDE 0681-3:2016-11 VDE 0681-3	Live working - Devices for operating and testing with nominal voltages exceeding 1 kV - Part 3: Specifications for fuse tongs	
Electrical engineering	DIN VDE 0681-6:1985-06 VDE 0681-6	Operating and testing devices for work and safe guarding on electrically energized systems with rated voltages exceeding 1 kV; voltage detectors to be used for overhead contact systems 15 kV, $16^2/_3$ Hz	
Electrical engineering	DIN VDE 0681-8:2003-10 VDE 0681-8	Operating, testing and safeguarding devices for live linework on equipment with rated voltages exceeding 1 kV; insulating protective shutters	
Electrical engineering	IEC 60832-1 (2010-02) Ed. 1.0 EN 60832-1:2010 + Cor.:2010 DIN EN 60832-1:2010-12 VDE 0682-211	Live working – Insulating sticks and attachable devices – Part 1: Insulating sticks.	
Electrical engineering	IEC 61229 (2002-06) Ed. 1.2 EN 61229:1995/A2:2002 DIN EN 61229/A2:2003-09 VDE 0682-551 /A2	Rigid protective covers for live working on a.c. installations.	
Electrical engineering	IEC 61230 (2008-07) Ed. 2.0 EN 61230:2008 DIN EN 61230:2009-07 VDE 0683-100	Live working – Portable equipment for earthing or earthing and short-circuiting.	

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Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 61219 (1993-10) Ed. 1.0 + Cor.200-05 EN 61219:1993 DIN EN 61219:1995-01 VDE 0683-200	Live working – Earthing or earthing and short-circuiting equipment using lances as a short-circuiting device – Lance earthing.	
High-voltage test techniques			
Electrical engineering	IEC 60270 (2000-12)+ AMD1: 2015 EN 60270:2001 + A1:2016 DIN EN 60270:2016-11 VDE 0434	High-voltage test techniques – Partial discharge measurements.	
Electrical engineering	IEC 60060-1 (2010-09) Ed. 3.0 STL-Guide HD 558.1 S1 EN 60060-1:2010 DIN EN 60060-1:2011-10 VDE 0432-1	High-voltage test techniques – Part 1: General definitions and test requirements.	
Electrical engineering	IEC 60060-2 (2010-11) Ed. 3.0 EN 60060-2:2011 DIN EN 60060-2:2011-10 VDE 0432-2	High-voltage test techniques – Part 2: Measuring systems.	
Electrical engineering	VDE 0432-3 DIN-EN 60060-3:2006-08 IEC 60060-3 (2006-02) Ed. 1.0	High-voltage test techniques – Part 3: Definitions and requirements for on-site testing	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 60052 (2002-10) Ed. 3.0 EN 60052:2002 DIN EN 60052:2003-06 VDE 0432-9	Voltage measurement by means of standard air gaps.	
Environmental and protection degrees testing			
Electrical engineering	IEC 60068-2-78 (2012-10) Ed. 2.0 EN 60068-2-78:2013 DIN EN 60068-2-78:2014-02 VDE 0468-2-78	Environmental testing – Part 2-78: Tests – Test Cab: Damp heat, steady state.	
Electrical engineering	IEC 60068-3-4 (2001-08) Ed. 1.0	Environmental testing – Part 3-4: Supporting documentation and guidance – Damp heat tests.	
Electrical engineering	IEC 60068-2-30 (2005-08) Ed. 3.0	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle).	
Electrical engineering	IEC 60068-2-75 (2014-09) Ed. 2.0	Environmental testing – Part 2-75: Tests – Test Eh: Hammer tests.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 60529 (2013-08) Ed. 2.2 + Cor.1+2 EN 60529:1991 + A1:2000 + A2:2013 DIN EN 60529:2014-09 VDE 0470-1	Degrees of protection provided by enclosures (IP Code).	
Testing of low-voltage equipment and components as well as of installation, switching, control and protective equipment and railway applications as described in the subsequent listed standards.			
Railway applications			
Electrical engineering	VDE 0115 - 300-1 DIN EN 50123-1:2003-12 EN 50123-1:2003 IEC 61992-1 (2014-04) Ed. 2.1	Railway applications – Fixed installations – DC switchgear – Part 1: General.	
Electrical engineering	VDE 0115 - 300-2 DIN EN 50123-2:11-2003 EN 50123-2:2003 IEC 61992-2 (2014-04) Ed. 2.1	Railway applications – Fixed installations – DC switchgear – Part 2: DC circuit-breakers.	
Electrical engineering	VDE 0115 - 300-3 DIN EN 50123-3:10-2003 EN 50123-3:2003 IEC 61992-3 (2006-02) Ed. 2.0 +AMD1:2015	Railway applications – Fixed installations – DC switchgear – Part 3: Indoor d.c. disconnectors, switch-disconnectors and earthing switches.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0115 - 300-4 DIN EN 50123-4/A1 02-2014 EN 50123-4/A1:2013 IEC 61992-4 (2006-02) Ed 1.0 +AMD1:2015	Railway applications – Fixed installations – DC switchgear – Part 4: Outdoor d.c. disconnectors, switch-disconnectors and earthing switches.	
Electrical engineering	DIN EN 50526-1:2012 VDE 0115-526-1:2012 EN 50526-1:2012	Railway applications – Fixed installations – DC switchgear – Part 5: Surge arresters and low-voltage limiters for specific use in d.c. systems.	
Electrical engineering	DIN EN 50526-2:2014 VDE 0115-526-2:2014 EN 50526-2:2014	Railway applications - Fixed installations - D.C. surge arresters and voltage limiting devices - Part 2: Voltage limiting devices; German version EN 50526-2:2014	
Electrical engineering	VDE 0115 - 300-6 DIN EN 50123-6:09-2003 EN 50123-6:2003 IEC 61992-6 (2014-04) Ed. 1.1	Railway applications – Fixed installations – DC switchgear – Part 6: DC switchgear assemblies.	
Electrical engineering	VDE 0115 Teil 420 DIN EN 60310:2017-01 +Ber1:2018-06 IEC 60310 (2016-01) Ed. 4.0	Railway applications – Traction transformers and inductors on board rolling stock.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 60077-1:(2017-07) Ed. 2.0 DIN EN 60077-1:2018-05 VDE 0115-460-1	Railway applications – Electric equipment for rolling stock – Part 1: General service conditions and general rules.	
Electrical engineering	IEC 60077-2:(2017-07) Ed. 2.0 DIN EN 60077-2: 2018-05 VDE 0115-460-2	Railway applications – Electric equipment for rolling stock – Part 2: Electrotechnical components – General rules.	
Electrical engineering	IEC 60077-3 (2001-12) Ed. 1.0 DIN EN 60077-3:2003-04 VDE 0115-460-3	Railway applications – Electric equipment for rolling stock – Part 3: Electrotechnical components – Rules for d.c. circuit-breakers.	
Electrical engineering	IEC 60077-4 (2003-02) Ed. 1.0 DIN EN 60077-4:2004-01 VDE 0115-460-4	Railway applications – Electric equipment for rolling stock – Part 4: Electrotechnical components – Rules for AC circuit-breakers.	
Electrical engineering	IEC 60077-5 (2003-07) Ed. 1.0 DIN EN 60077-5:2004-07 VDE 0115-460-5	Railway applications – Electric equipment for rolling stock – Part 5: Electrotechnical components – Rules for HV fuses.	
Electrical engineering	VDE 0115-327 DIN EN 50327:2006-03 EN 50327:2006-03 IEC 62589 (2010-07) Ed. 1.0	Railway applications – Fixed installations – Harmonisation of the rated values for converter groups and tests on converter groups.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0115-328 DIN EN 50328:2010-11 EN 50328:2010-11 IEC 62590 (2010-06) Ed. 1.0	Railway applications – Fixed installations – Electronic power converters for substations	
Electrical engineering	VDE 0560-700 DIN EN 61921:2004-02 EN 61921:2003-07 IEC 61921:(2017-06) Ed. 2.0	Power capacitors Low-voltage power factor correction banks.	
Electrical engineering	VDE 0115 - 410 DIN EN 61287-1:2014-12 EN 61278-1:2014-07 IEC 61287-1 (2014-07) Ed. 3.0	Bahnanwendungen – Stromrichter Bahnfahrzeugen – Teil 1: Eigenschaften und Prüfverfahren. Railway applications – Power convertors installed on board rolling stock – Part 1: Characteristics and test methods.	
Switchgear			
Electrical engineering	VDE 0660 - 100 DIN EN 60947-1:2017-01 EN 60947-1:2011 IEC 60947-1 (2014-09) Ed. 5.2	Low-voltage switchgear and control gear – Part 1: General rules.	
Electrical engineering	VDE 0660 - 101 DIN EN 60947-2:2018-05 EN 60947-2:2018-05 IEC 60947-2:(2016-06) Ed. 5.0 +Cor1:2016	Low-voltage switchgear and control gear – Part 2: Circuit-breakers.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0660 - 107 DIN EN 60947-3:2017:02 EN 60947-3:2015 IEC 60947-3:(2015-07) Ed. 3.2	Low-voltage switchgear and control gear – Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units.	
Electrical engineering	VDE 0660 - 102 DIN EN 60947-4-1:2017-07 EN 60947-4-1:2018 IEC 60947-4-1:(2018-01) Ed. 4.0	Low-voltage switchgear and control gear – Part 4-1: Contactors and motor-starters – Electromechanical contactors and motor-starters.	
Electrical engineering	VDE 0660 - 117 DIN EN 60947-4-2:2013-05 EN 60947-4-2:2012 IEC 60947-4-2 (2012-03) Ed. 3.0	Low-voltage switchgear and control gear – Part 4-2: Contactors and motor-starters – AC semiconductor motor controllers and starters.	
Electrical engineering	VDE 0660 - 109 DIN EN 60947-4-3:2015-04 EN 60947-4-3:2014 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.	
Electrical engineering	VDE 0660 - 200 DIN EN 60947-5-1:2018-03 EN 60947-5-1:2016 IEC 60947-5-1:(2016-05) Ed. 4.0 +Cor1:2016	Low-voltage switchgear and control gear – Part 5-1: Control circuit devices and switching elements – Electromechanical control circuit devices.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0660 - 208 DIN EN 60947-5-2:2014-01 EN 60947-5-2:2012 IEC 60947-5-2 (2012-09) Ed. 3.1	Low-voltage switchgear and controlgear – Part 5-2: Control circuit devices and switching elements – Proximity switches.	
Electrical engineering	VDE 0660 - 210 DIN EN 60947-5-5:2017-08 EN 60947-5-5:2016 IEC 60947-5-5:(2016-02) Ed. 1.2	Low-voltage switchgear and controlgear – Part 5-5: Control circuit devices and switching elements – Electrical emergency stop device with mechanical latching function.	
Electrical engineering	VDE 0660 - 114 DIN EN 60947-6-1:2014-09 EN 60947-6-1:2014 IEC 60947-6-1 (2013-12) Ed. 2.1	Low-voltage switchgear and controlgear – Part 6-1: Multiple function equipment – Transfer switching equipment.	
Electrical engineering	VDE 0660 - 115 DIN EN 60947-6-2:2007-12 EN 60947-6-2:2007 IEC 60947-6-2 (2007-03) Ed. 2.1	Low-voltage switchgear and controlgear – Part 6-2: Multiple function equipment – Control and protective switching devices (or equipment) (CPS).	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0611 - 1 DIN EN 60947-7-1:2010-03 EN 60947-7-1:2009 IEC 60947-7-1 (2009-04) Ed. 3.0	Low-voltage switchgear and controlgear – Part 7-1: Ancillary equipment – Terminal blocks for copper conductors.	
Electrical engineering	VDE 0611 - 3 DIN EN 60947-7-2:2010-03 EN 60947-7-2:2009 IEC 60947-7-2 (2009-04) Ed. 3.0	Low-voltage switchgear and controlgear – Part 7-2: Ancillary equipment – Protective conductor terminal blocks for copper conductors.	
Electrical engineering	IEC 60947-9-1 (2019-01) Ed. 1.0	Low-voltage switchgear and controlgear Part 9-1: Active arc-fault mitigation systems - Arc quenching devices	
Electrical engineering	VDE 0611 - 4 DIN VDE 0611- 4:1991-02	Low-voltage switchgear and controlgear; Terminal blocks for connecting copper conductors; distribution terminal blocks up to 6 mm²	
Electrical engineering	VDE 0637 - 3 DIN EN 61095:2009-11 EN 61095:2009 IEC 61095 (2009-02) Ed. 2.0	Electromechanical contactors for household and similar purposes.	

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Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0220-100 DIN EN 61238-1:2004-03 IEC 61238-1 (2003-05) Ed. 2.0	Compression and mechanical connectors for power cables for rated voltages up to 30 kV (Um = 36 kV) – Part 1: Test methods and requirements.	
Electrical engineering	VDE 0220-238-1-1 DIN EN 61238-1-1:2017-02 IEC 61238-1-1:(2018-05) Ed. 1.0	1-1: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages up to 1 kV (Um = 1,2 kV) tested on non-insulated conductors	
Electrical engineering	VDE 0220-238-1-2 DIN EN 61238-1-3: 2017-02 IEC 61238-1-2:(2018-05) Ed. 1.0	Part 1-2: Test methods and requirements for insulation piercing connectors for power cables for rated voltages up to 1 kV (Um = 1,2 kV) tested on insulated conductors	
	VDE 0220-238-1-3 DIN EN 61238-1-3: 2017-02 IEC 61238-1-3:(2018-05) Ed. 1.0	Part 1-3: Test methods and requirements for compression and mechanical connectors for power cables for rated voltages above 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) tested on non-insulated conductors	
Fuses			
Electrical engineering	DIN EN 60269-1:2015-05 IEC 60269-1 (2014-06) Ed. 4.2 VDE 0636-1	Low-voltage fuses – Part 1: General requirements	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	DIN VDE 0636-2:2014-09 IEC 60269-2:(2016-08) Ed. 5.1 HD 60269-2:2013 VDE 0636-2	Low-voltage fuses – Part 2: Supplementary requirements for fuses for use by authorized persons (fuses mainly for industrial application) - Examples of standardized systems of fuses A to K	
Electrical engineering	DIN VDE 0636-3:2013-12 IEC 60269-3 (2013-01) Ed. 4.1 HD 60269-2:2013 VDE 0636-3	Low-voltage fuses – Part 3: Supplementary requirements for fuses for use by unskilled persons (fuses mainly for household or similar applications) - Examples of standardized systems of fuses A to F	
Electrical engineering	DIN EN 60269-4:2017-07 EN 60269-4:2016 IEC 60269-4:(2018-06) Ed. 5.2 VDE 0636-4	Low-voltage fuses – Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices	
Electrical engineering	DIN CLC 60269-5:2018-10 IEC/TR 60269-5 (2014-03) Ed. 2.0 VDE 0636-5	Low-voltage fuses – Part 5: Guidance for the application of low-voltage fuses	
Electrical engineering	DIN EN 60269-6:2012-06 EN 60269-6:2011 IEC 60269-6 (2010-12) Ed. 1.0 + Cor. 1 VDE 0636-6	Low-voltage fuses – Part 6: Supplementary requirements for fuse-links for the protection of solar photovoltaic energy systems	
Electrical engineering	IEC 60127-1 (2015-02) Ed. 2.2	Miniature fuses – Part 1: Definitions for miniature fuses and general requirements for miniature fuse-links.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 60127-2 (2014-09) Ed. 3.0	Miniature fuses – Part 2: Cartridge fuse-links.	
Power Transformers and Reactors			
Electrical engineering	VDE 0532-76-1 DIN EN 60076-1:2012-03 EN 60076-1:2011 IEC 60076-1 (2011-04) Ed. 3.0	Power transformers – Part 1: General.	
Electrical engineering	VDE 0532-76-2 DIN EN 60076-2:2012-02 EN 60076-2:2011 IEC 60076-2 (2011-02) Ed. 3.0	Power transformers – Part 2: Temperature rise for liquid-immersed transformers.	
Electrical engineering	VDE 0532-76-5 DIN EN 60076-5:2007-01 EN 60076-5:2006 IEC 60076-5 (2006-02) Ed. 3.0	Power transformers – Part 5: Ability to withstand short circuit.	
Electrical engineering	VDE 0532-76-6 DIN EN 60076-6:2009-02 EN 60076-6:2008 IEC 60076-6 (2013-09) Ed. 1.0	Power transformers – Part 6: Reactors.	
Electrical engineering	VDE 0532-214-1 DIN EN 60214-1:2015-04 EN 60214-1:2014 IEC 60214-1 (2014-05) Ed. 2.0	Tap-changers – Part 1: Performance requirements and test methods.	
Electrical engineering	IEC 60353 (2002-04) Ed. 2.0	Line traps for a.c. power systems.	
Electrical Installation Material			

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0220 -3	Power cable	
Electrical engineering	VDE 0603-1 DIN VDE 0603-1:2017-06	Consumer units and meter panels AC 400 V; consumer units and meter panels	
Electrical engineering	VDE 0603-2 DIN VDE 0603-2:1098-03	Consumer units and meter panels AC 400 V; Main branch terminals	
Electrical engineering	VDE 0609 -1 DIN EN 60999:2000-12 EN 60999:2000 IEC 60999 (1999-11) Ed. 2.0	Connecting devices – Electrical copper conductors – Safety requirements for screw-type and screwless-type clamping units – Part 1: General requirements and particular requirements for clamping units for conductors from 0,2 mm^2 up to 35 mm^2 (included).	
Electrical engineering	VDE 0623 -1 DIN EN 60309-1:2014-12 EN 60309-1:2005 IEC 60309-1 (2012-06) Ed. 4.2	Plugs, socket-outlets and couplers for industrial purposes – Part 1: General requirements.	
Electrical engineering	VDE 0604-202 DIN EN 61914:2016-11 IEC 61914:(2015-11) Ed. 2.0	Cable cleats for electrical installations.	
Electrical engineering	VDE 0623 -20 DIN EN 60309-2:2013-01 EN 60309-2:2012 IEC 60309-2 (2012-05) Ed. 4.2	Plugs, socket-outlets and couplers for industrial purposes – Part 2: Dimensional interchangeability requirements for pin and contact-tube accessories.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0630 - 1 DIN EN 61058-1:2018-08 EN 61058-1:2016 IEC 61058-1:(2016-07) Ed. 4.0	Switches for appliances – Part 1: General requirements.	
Electrical engineering	VDE 0630 - 2-1 DIN EN 61058-2-1:2017-11 EN 61058-2-1:2018 IEC 61058-2-1:(2018-06) Ed. 3.0	Switches for appliances – Part 2-1: Particular requirements for cord switches.	
Electrical engineering	VDE 0640 DIN EN 62019:2015-07 EN 62019:2014 IEC 62019 ed. 1.1 (2003-01)	Electrical accessories – Circuit-breakers and similar equipment for household use – Auxiliary contact units.	
Electrical engineering	IEC 60898-1 (2015-03) Ed. 2.0 EN 60898-1 DIN EN 60898-1:2018-11 VDE 0641-1	Electrical accessories - Circuit-breakers for overcurrent protection for household and similar installations – Part 1: Circuit-breakers for a.c. operation	
Electrical engineering	IEC 60898-2:(2016-08) Ed. 2.0 EN 60898-2: 2016 DIN EN 60898-2:2014-05 VDE 0641-2	Circuit-breakers for overcurrent protection for household and similar installations – Part 2: Circuit-breakers for a.c. and d.c. operation	
Electrical engineering	IEC 60934:(2019-01) Ed. 4.0 DIN EN 60934:2016-08 VDE 0642	Circuit-breakers for equipment (CBE).	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 61008-1 (2013-09) Ed. 3.2 +Cor1:2016 DIN EN 61008-10:2018-03 VDE 0664-10	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs) – Part 1: General rules	
Electrical engineering	IEC 61008-2-1 (1990-12) Ed. 1.0 DIN EN 61008-2-1:1999-12 DIN VDE 0664-400:2015-05 DIN VDE 0664-401:2015-05	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's). – Part 2-1: Applicability of the general rules to RCCB's functionally independent of line voltage	
Electrical engineering	IEC 61008-2-2 (1990-12) Ed. 1.0	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCB's). – Part 2-2: Applicability of the general rules to RCCB's functionally dependent on line voltage	
Electrical engineering	IEC 61009-1 (2013-09) Ed. 3.2 DIN EN 61009-1:2016-10 VDE 0664-20	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBOs) – Part 1: General rules	
Electrical engineering	IEC 61009-2-1 (1991-09) Ed. 1.0 DIN EN 61009-2-1:1999-12 VDE 0664-21	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) – Part 2-1: Applicability of the general rules to RCBO's functionally independent of line voltage	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 61009-2-2 (1991-09) Ed. 1.0	Residual current operated circuit-breakers with integral overcurrent protection for household and similar uses (RCBO's) – Part 2-2: Applicability of the general rules to RCBO's functionally dependent on line voltage	
Electrical engineering	IEC 62423:2009 (2011-02) Ed.2+ Cor1:2011 DIN EN 62423:2013-08 VDE 0664-40	Type F and type B residual current operated circuit-breakers with and without integral overcurrent protection for household and similar uses	
Electrical engineering	IEC 62606:2013 + AMD1:2017 DIN EN 62606:2014-08 VDE 0665-10	General requirements for arc fault detection devices	
Electrical engineering	IEC 60099-4 (2014-06) Ed. 3.0 DIN EN 60099-4:2015-07 VDE 0675-4	Surge arresters – Part 4: Metal-oxide surge arresters without gaps for a.c. systems	
Electrical engineering	IEC 60099-5:(2018-01) Ed. 3.0 DIN EN 60099-5:2019-02 VDE 0675-5	Surge arresters – Part 5: Selection and application recommendations	
Electrical engineering	IEC 60099-6 (2019-05) Ed. 2.0	Surge arresters – Part 6: Surge arresters containing both series and parallel gapped structures - Rated 52 kV and less	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 60099-8:(2017-11) Ed. 2.0 DIN EN 60099-8:2019-09 VDE 0675-8	Surge arresters – Part 8: Metal-oxide surge arresters with external series gap (EGLA) for overhead transmission and distribution lines of a.c. systems above 1 kV	
Electrical engineering	IEC 60099-9 (2014-06) Ed. 1.0 DIN EN 60099-9:2015-08 VDE 0675-9	Surge arresters – Part 9: Metal-oxide surge arresters without gaps for HVDC converter stations	
Electrical engineering	IEC 61643-11 (2011-03) Ed. 1.0 DIN EN 61643-11:2019-03 VDE 0675-6-11	Low-voltage surge protective devices – Part 11: Surge protective devices connected to low-voltage power systems - Requirements and test methods	
Electrical engineering	IEC 61643-12 (2008-11) Ed. 2.0 DIN EN 61643-12:2017-06 VDE 0675-6-12	Low-voltage surge protective devices – Part 12: Surge protective devices connected to low-voltage power distribution systems - Selection and application principles	
Electrical engineering	IEC 61643-21 (2012-07) Ed. 1.2	Low voltage surge protective devices – Part 21: Surge protective devices connected to telecommunications and signalling networks - Performance requirements and testing methods	
Electrical engineering	IEC 61643-22 (2015-06) Ed. 2.0	Low-voltage surge protective devices – Part 22: Surge protective devices connected to telecommunications and signalling net-works – Selection and application principles	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 61643-31:(2018-01) Ed. 1.0	Components for low-voltage surge protective devices – Part 31: Requirements and test methods for SPDs for photovoltaic installations	
Electrical engineering	IEC 61643-311 (2013-04) Ed. 1.0	Components for low-voltage surge protective devices – Part 311: Performance requirements and test circuits for gas discharge tubes (GDT)	
Electrical engineering	IEC 61643-312 (2013-04) Ed. 1.0	Components for low-voltage surge protective devices – Part 312: Selection and application principles for gas discharge tubes	
Electrical engineering	IEC 61643-321 (2001-12) Ed. 1.0	Components for low-voltage surge protective devices – Part 321: Specifications for avalanche breakdown diode (ABD)	
Electrical engineering	IEC 61643-331:(2017-12) Ed.2.0	Components for low-voltage surge protective devices – Part 331: Specification for metal oxide varistors (MOV)	
Electrical engineering	IEC 61643-341 (2001-11) Ed. 1.0	Components for low-voltage surge protective devices – Part 341: Specification for thyristor surge suppressors (TSS)	
Electrical engineering	VDE 0675-39-11 DIN EN 50539-11/A1:2015-09 EN 50539-11:2013/A12014	– Part 11: Requirements and tests for SPDs in photovoltaic applications	

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Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Low-voltage switchgear and controlgear assemblies			
Electrical engineering	IEC 61439-1 (2011-08) Ed. 2.0 DIN EN 61439-1:2014-06 VDE 0660-600-1	Low-voltage switchgear and controlgear assemblies – Part 1: General rules	
Electrical engineering	IEC 61439-2 (2011-08) Ed.2.0 DIN EN 61439-2:2012-06 VDE 0660-600-2	Low-voltage switchgear and controlgear assemblies – Part 2: Power switchgear and controlgear assemblies	
Electrical engineering	IEC 61439-3 (2012-02) Ed. 1.0 Cor.2:2019 DIN EN 61439-3:2014-10 VDE 0660-600-3	Low-voltage switchgear and controlgear assemblies – Part 3: Distribution boards intended to be operated by ordinary persons (DBO)	
Electrical engineering	IEC 61439-4 (2012-11) Ed.1.0 DIN EN 61439-4:2013-09 VDE 0660-600-4	Low-voltage switchgear and controlgear assemblies – Part 4: Particular requirements for assemblies for construction sites (ACS)	
Electrical engineering	IEC 61439-5 (2015-03) Ed. 2.0 DIN EN 61439-5:2015-10 VDE 0660-600-5	Low-voltage switchgear and controlgear assemblies – Part 5: Assemblies for power distribution in public networks	
Electrical engineering	IEC 61439-6 (2012-05) Ed. 1.0 DIN EN 61439-6:2013-06 VDE 0660-600-6	Low-voltage switchgear and controlgear assemblies – Part 6: Busbar trunking systems (busways)	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC/61439-7 (2018-12) Ed. 1.0 DIN EN 61439-7:2016-10 VDE 0660-600-7	Low-voltage switchgear and controlgear assemblies – Part 7: Assemblies for specific applications such as marinas, camping sites, market squares, electric vehicles charging stations	
Electrical engineering	IEC/TR 61641:2014-09, Ed. 3.0 DIN EN 61439-2 Beiblatt 1 VDE 0660-600-2 Beiblatt 1: 2016-01	Enclosed low-voltage switchgear and controlgear assemblies – Guide for testing under conditions of arcing due to internal fault	
Electrical engineering	IEC/TS 63107:2020-04, Ed. 1.0	Integration of internal arc-fault mitigation systems in power switchgear and controlgear assemblies (PSC - Assemblies) according to IEC 61439-2	
Switching, control and protective equipment			
Electrical engineering	VDE 0435 Teil 201 DIN EN 61810-1:2015-10 EN 61810-1:2015 IEC 61810-1 (2015-02) Ed. 4.0 +Cor1+Cor2:2018	Electromechanical elementary relays – Part 1: General and safety requirements.	
Electrical engineering	VDE 0435 - 300 DIN EN 60255-1:2017-06 EN 60255-1:2010 IEC 60255-1 (2009-08) Ed. 1.0	Measuring relays and protection equipment – Part 1: Common requirements.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0435 - 2021 DIN EN 61812-1:2015-04 EN 61812-1:2011 IEC 61812-1 (2011-05) Ed. 2.0	Time relays for industrial and residential use – Part 1: Requirements and tests.	
Electrical engineering	VDE 0631-2-1 DIN EN 60730-2-1:2012-10 EN 60730-2-1:2010	Automatic electrical controls – Part 1: General requirements.	
Electrical engineering	VDE 0631 Teil 2-10 DIN EN 60730-2-10:2008-06 EN 60730-2-10:2007 IEC 60730-2-10 (2006-10)	Automatic electrical controls for household and similar use – Part 2-10: Particular requirements for motor-starting relays	
Instrument transformers			
Electrical engineering	VDE 0414-9-2 DIN EN 61869-2:2014-06 EN 61869-2:2012 IEC 61869-2 (2012-09) Ed. 2.0	Instrument transformers – Part 2: Additional requirements for current transformers.	
Electrical engineering	VDE 0414-9-3 DIN EN 61869-3:2012-05 EN 61869-3:2011 IEC 61869-3 (2011-07) Ed. 1.0	Instrument transformers – Part 3: Additional requirements for inductive voltage transformers.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 414-9-4 HD 548.3 S1 DIN EN 61869-4:2015-04 EN 61869-4:2014 IEC 61869-4 (2013-11) Ed. 1.0	Instrument transformers – Part 4: Additional requirements for combined transformers.	
Electrical engineering	VDE 414-9-6 DIN EN 61869-6:2017-06 EN 61869-6:2016 IEC 61869-6 (2016-04) Ed. 1.0	Instrument transformers – Part 6: Additional general requirements for low-power instrument transformers.	
Electrical engineering	VDE 414-9-10 DIN EN 61869-10:2019-01 EN IEC 61869-10:2018 IEC 61869-10 (2017-12) Ed. 1.0	Instrument transformers – Part 10: Additional requirements for low-power passive current transformers.	
Electrical engineering	VDE 414-9-11 DIN EN IEC 61869-11:2019-01 EN IEC 61869-11:2018 IEC 61869-11 (2017-12) Ed. 1.0	Instrument transformers – Part 11: Additional requirements for low-power passive voltage transformers.	
Low-voltage equipment			
Electrical engineering	VDE 0558-11 DIN EN 60146-1-1:2011-04 EN 60146-1-1:2010 IEC 60146-1-1 (2009-06) Ed. 4.0	Semiconductor converters – General requirements and line commutated converters – Part 1-1: Specification of basic requirements.	
Electrical engineering	VDE 0558 - 8 DIN EN 60146-1-3:1994-03 EN 60146-1-3:1993 IEC 60146-1-3 (1991-04) Ed. 3.0	Semiconductor convertors – General requirements and line commutated convertors – Part 1-3: Transformers and reactors.	

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Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0638 DIN 57638:1981-09 +Ber.2018-12	Low-voltage switchgears; fuse-switch-units; DO-system	
Testing of high-voltage, medium-voltage and low-voltage cables and their accessories as described in the subsequent listed standards.			
Polyvinyl chloride insulated cables			
Electrical engineering	IEC 60227-1 (2007-10) Ed. 3.0	Polyvinyl chloride insulated cables of rated voltages up to and including 450 V / 750 V – Part 1: General requirements.	
Electrical engineering	IEC 60227-3 (1997-11) Ed. 2.1	Polyvinyl chloride insulated cables of rated voltages up to and including 450 V / 750 V – Part 3: Non-sheathed cables for fixed wiring.	
Electrical engineering	IEC 60227-4 (1997-12) Ed. 2.1	Polyvinyl chloride insulated cables of rated voltages up to and including 450 V / 750 V – Part 4: Sheathed cables for fixed wiring.	
Electrical engineering	IEC 60227-5 (2011-09) Ed. 3.0	Polyvinyl chloride insulated cables of rated voltages up to and including 450 V / 750 V – Part 5: Flexible cables (cords).	
Electrical engineering	IEC 60227-6 (2001-06) Ed. 3.0	Polyvinyl chloride insulated cables of rated voltages up to and including 450 V / 750 V – Part 6: Lift cables and cables for flexible connections.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 60227-7 (2012-01) Ed. 1.2	Polyvinyl chloride insulated cables of rated voltages up to and including 450 V / 750 V – Part 7: Flexible cables screened and unscreened with two or more conductors	
Electrical engineering	VDE 0281 - 8 DIN VDE 0281-8: 2000-09 HD 21.8 S2 + A1:1999	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 8: Single core non-sheathed cables for decorative chains	
Electrical engineering	VDE 0281 - 9 DIN VDE 0281-9:2001-01 HD 21.9 S2 + A1:1999	Polyvinyl chloride insulated cables of rated voltages up to and including 450/750 V - Part 9: Single core non-sheathed cables for installation at low temperatures	
Electrical engineering	VDE 0285-525-1 DIN EN 50525-1:2012-01 EN 50525-1:2011	Low voltage energy cables of rated voltages up to and including 450/750 V (U_o/U) - Part 1: General requirements	
Electrical engineering	VDE 0285-525-2-11 DIN EN 50525-2-11:2012-01 EN 50525-2-11:2011	– Flexible cables with thermoplastic PVC insulation	
Electrical engineering	VDE 0285-525-2-12 DIN EN 50525-2-12:2012-01 EN 50525-2-12:2011	– Cables with thermoplastic PVC insulation for extensible leads	
Electrical engineering	VDE 0285-525-2-21 DIN EN 50525-2-21:2012-01 EN 50525-2-21:2011	– Flexible cables with crosslinked elastomeric insulation	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0285-525-2-31 DIN EN 50525-2-31:2012-01 EN 50525-2-31:2011	– Single core non-sheathed cables with thermoplastic PVC insulation	
Electrical engineering	VDE 0285-525-2-41 DIN EN 50525-2-41:2012-01 EN 50525-2-41:2011	– Single core cables with crosslinked silicone rubber insulation	
Electrical engineering	VDE 0285-525-2-42 DIN EN 50525-2-42:2012-01 EN 50525-2-42:2011	– Single core non-sheathed cables with crosslinked EVA insulation	
Electrical engineering	VDE 0285-525-2-51 DIN EN 50525-2-51:2012-01 EN 50525-2-51:2011	– Oil resistant control cables with thermoplastic PVC insulation	
Electrical engineering	VDE 0285-525-2-71 DIN EN 50525-2-71:2012-01 EN 50525-2-71:2011	– Flat tinsel cables (cords) with thermoplastic PVC insulation	
Electrical engineering	VDE 0285-525-2-72 DIN EN 50525-2-72:2012-01 EN 50525-2-72:2011	– Flat divisible cables (cords) with thermoplastic PVC insulation	
Electrical engineering	VDE 0285-525-2-81 DIN EN 50525-2-81:2012-01 EN 50525-2-81:2011	– Cables with crosslinked elastomeric covering for arc welding	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0285-525-2-82 DIN EN 50525-2-82:2012-01 EN 50525-2-82:2011	– Cables with crosslinked elastomeric insulation for decorative chains	
Electrical engineering	VDE 0285-525-2-83 DIN EN 50525-2-83:2012-01 EN 50525-2-83:2011	– Multicore cables with crosslinked silicone rubber insulation	
Electrical engineering	VDE 0285-525-3-11 DIN EN 50525-3-11:2012-01 EN 50525-3-11:2011	– Flexible cables with halogen-free thermoplastic insulation, and low emission of smoke	
Electrical engineering	VDE 0285-525-3-21 DIN EN 50525-3-21:2012-01 EN 50525-3-21:2011	Part 3-21: Cables with special fire performance – Flexible cables with halogen-free crosslinked insulation, and low emission of smoke; German version EN 50525-3-21:2011	
Electrical engineering	VDE 0285-525-3-31 DIN EN 50525-3-31:2012-01 EN 50525-3-31:2011	Part 3-31: Cables with special fire performance – Single core non-sheathed cables with halogen-free thermoplastic insulation, and low emission of smoke	
Electrical engineering	VDE 0285-525-3-41 DIN EN 50525-3-41:2012-01 EN 50525-3-41:2011	Part 3-41: Cables with special fire performance – Single core non-sheathed cables with halogen-free crosslinked insulation, and low emission of smoke	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0262 DIN VDE 0262:2004-01	XLPE insulated and PVC sheathed installation-cables with nominal voltage 0,6/1 kV	
Electrical engineering	DIN VDE 0276-603:2010-03 VDE 0276-603 HD 603:2007	Power cables - Part 603: Distribution cables of rated voltage 0,6/1 kV	
Electrical engineering	DIN VDE 0276-604:2008-02 VDE 0276-604 HD 604:2005	Power cables - Part 604: 0,6/1 kV power cables with special fire performance for use in power stations	
Test procedure			
Electrical engineering	IEC 60332-1-1:(2015-07) Ed. 1.1 IEC 60332-1-2 (2015-07) Ed. 1.1 IEC 60332-1-3 (2015-07) Ed. 1.1 DIN EN 60332 -1-1:2017-09 DIN EN 60332 -1-2: 2017-09 DIN EN 60332 -1-3: 2017-09 VDE 0482-332 -1-1 VDE 0482-332 -1-2 VDE 0482-332 -1-3	Tests on electric and optical fiber cables under fire conditions – 1-1 Test for vertical flame propagation for a single insulated wire or cable – Apparatus – 1-2 Procedure for 1 kW pre-mixed flame – 1-3 Procedure for determination of flaming droplets/particles.	
Electrical engineering	VDE 0432 - 1:2011-10	High-voltage test techniques - Part 1: General definitions and test requirements	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0432 - 2:2011-10	High-voltage test techniques - Part 2: Measuring systems	
Electrical engineering	VDE 0472 -1 DIN VDE 0472 -1:1987-06	Testing of cables, wires and flexible cords; general	
Electrical engineering	VDE 0472 – 505:1983-04 DIN 57472-505	Testing of cables, wires and flexible cords; loss factor, dielectric loss coefficient and leakance	
Electrical engineering	VDE 0472 - 509 DIN VDE 0472-509:1986-10	Testing of cables, wires and flexible cords; dielectric strenght on cables, wires and cords for telecommunication systems	
Electrical engineering	VDE 0472 - 512 DIN VDE 0472-512:1985-05	Testing of cables, wires and flexible cords; resistance between protective conductor and semi-conductive layer	
Electrical engineering	VDE 0472 – 604:1985-05 DIN VDE 0472-604	Testing of cables, wires and flexible cords; tightness of cables sheaths	
Electrical engineering	VDE 0472 - 605 DIN VDE 0472-605:1985-01	Testing of cables, insulated wires and flexible cords; abrasion	
Electrical engineering	DE 0472 - 613 DIN VDE 0472-613:1986-03	Testing of cables, wires and flexible cords; tear resistance	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0472 - 626 DIN 57472-626:1983-01	Testing of cables, wires and flexible cords; breaking length	
Electrical engineering	DIN EN 50497:2008-11 VDE 0473-497 EN 50497:2007	Recommended test method for assessment of the risk of plasticizer exudation from PVC insulated and sheathed cables	
Electrical engineering	VDE 0473-811-100 DIN EN 60811 – 100:2012-12 EN 60811 – 100:2008 IEC 60811 – 100 (2008-03) Ed. 1.0	General Electric and optical fibre cables – Test methods for non-metallic materials – Part 100: General.	
Electrical engineering	VDE 0473-811-201 DIN EN 60811 – 201:2018-05 EN 60811 – 202:2017 IEC 60811 – 201 (2012-03) Ed. 1.0 +A1:2017	Measurement of insulation thickness. Electric and optical fibre cables – Test methods for non-metallic materials – Part 201: General tests – Measurement of insulation thickness.	
Electrical engineering	VDE 0473-811-202 DIN EN 60811 – 202: 2018-05 EN 60811 – 202:2017 IEC 60811 – 202 (2012-03) Ed. 1.0 +A1:2017	Electric and optical fibre cables – Test methods for non-metallic materials – Part 202: General tests – Measurement of thickness of non-metallic sheath.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0473-811-203 DIN EN 60811 – 203:2012-12 EN 60811 - 203 IEC 60811 – 203 (2012-03) Ed. 1.0	Electric and optical fibre cables - Test methods for non-metallic materials - Part 203: General tests - Measurement of overall dimensions	
Electrical engineering	VDE 0473-811-301 DIN EN 60811 - 301:2012-12 EN 60811 - 301 IEC 60811 – 301 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 301: Electrical tests – Measurement of the permittivity at 23 °C of filling compounds	
Electrical engineering	VDE 0473-811-302 DIN EN 60811 - 302:2012-12 EN 60811 - 302 IEC 60811 – 302 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 302: Electrical tests – Measurement of the d.c. resistivity at 23 °C and 100 °C of filling.	
Electrical engineering	VDE 0473-811-401 DIN EN 60811 - 401: 2018-05 EN 60811 – 401:2017 IEC 60811 – 401 (2012-03) Ed. 1.0 +A1:2017	Electric and optical fibre cables – Test methods for non-metallic materials – Part 401: Miscellaneous tests – Thermal ageing methods – Ageing in an air oven.	
Electrical engineering	VDE 0473-811-402 DIN EN 60811 - 402:2012-12 EN 60811 - 402 IEC 60811 – 402 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 402: Miscellaneous tests – Water absorption tests.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0473-811-404 DIN EN 60811 - 404:2012-12 EN 60811 - 404 IEC 60811 – 404 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 404: Miscellaneous tests – Mineral oil immersion tests for sheaths.	
Electrical engineering	VDE 0473-811-405 DIN EN 60811 - 405:2012-12 EN 60811 - 405 IEC 60811 – 405 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 405: Miscellaneous tests – Thermal stability test for PVC insulations and PVC sheaths.	
Electrical engineering	VDE 0473-811-406 DIN EN 60811 - 406:2012-12 EN 60811 - 406 IEC 60811 – 406 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 406: Miscellaneous tests – Resistance to stress cracking of polyethylene and polypropylene compounds.	
Electrical engineering	VDE 0473-811-407 DIN EN 60811 - 407:2012-12 EN 60811 - 407 IEC 60811 – 407 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 407: Miscellaneous tests – Measurement of mass increase of poly-ethylene and polypropylene compounds.	
Electrical engineering	VDE 0473-811-408 DIN EN 60811 - 408:2012-12 EN 60811 - 408 IEC 60811 – 408 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 408: Miscellaneous tests – Long-term stability test of polyethylene and polypropylene compounds.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0473-811-409 DIN EN 60811 - 409:2012-12 EN 60811 - 409 IEC 60811 – 409 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 409: Miscellaneous tests – Loss of mass test for thermoplastic insulations and sheaths.	
Electrical engineering	VDE 0473-811-501 DIN EN 60811 - 501:2012-12 EN 60811 - 501 IEC 60811 – 501 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 501: Mechanical tests – Tests for determining the mechanical properties of insulating and sheathing compounds.	
Electrical engineering	VDE 0473-811-502 DIN EN 60811 - 502:2012-12 EN 60811 - 502 IEC 60811 – 502 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 502: Mechanical tests – Shrinkage test for insulations.	
Electrical engineering	VDE 0473-811-503 DIN EN 60811 - 503:2012-12 EN 60811 - 503 IEC 60811 – 503 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 503: Mechanical tests – Shrinkage test for sheaths.	
Electrical engineering	VDE 0473-811-504 DIN EN 60811 - 504:2012-12 EN 60811 - 504 IEC 60811 – 504 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 504: Mechanical tests – Bending tests at low temperature for insulation and sheaths.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0473-811-505 DIN EN 60811 - 505:2012-12 EN 60811 - 505 IEC 60811 – 505 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 505: Mechanical tests – Elongation at low temperature for insulations and sheaths.	
Electrical engineering	VDE 0473-811-506 DIN EN 60811 - 506:2012-12 EN 60811 - 506 IEC 60811 – 506 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 506: Mechanical tests – Impact test at low temperature for insulations and sheaths.	
Electrical engineering	VDE 0473-811-507 DIN EN 60811 - 507:2012-12 EN 60811 - 507 IEC 60811 – 507 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 507: Mechanical tests – Hot set test for cross-linked materials.	
Electrical engineering	VDE 0473-811-508 DIN EN 60811 - 508: 2018-05 EN 60811 – 508:2017 IEC 60811 – 508 (2012-03) Ed. 1.0 +A1:2017	Electric and optical fibre cables – Test methods for non-metallic materials – Part 508: Mechanical tests – Pressure test at high temperature for insulation and sheaths.	
Electrical engineering	VDE 0473-811-509 DIN EN 60811 - 509: 2018-05 EN 60811 – 509:2017 IEC 60811 – 509 (2012-03) Ed. 1.0 +A1:2017	Electric and optical fibre cables – Test methods for non-metallic materials – Part 509: Mechanical tests – Test for resistance of insulations and sheaths to cracking (heat shock test).	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0473-811-512 DIN EN 60811 - 512:2012-12 EN 60811 - 512 IEC 60811 – 512 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 512: Mechanical tests – Methods specific to polyethylene and polypropylene compounds – Tensile strength and elongation at break after conditioning at elevated temperature.	
Electrical engineering	VDE 0473-811-513 DIN EN 60811 - 513:2012-12 EN 60811 - 513 IEC 60811 – 513 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 513: Mechanical tests – Methods specific to polyethylene and polypropylene compounds – Wrapping test after conditioning.	
Electrical engineering	VDE 0473-811-605 DIN EN 60811 - 605:2012-12 EN 60811 - 605 IEC 60811 – 605 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 605: Physical tests – Measurement of carbon black and/or mineral filler in polyethylene compounds.	
Electrical engineering	VDE 0473-811-606 DIN EN 60811 - 606:2012-12 EN 60811 - 606 IEC 60811 – 606 (2012-03) Ed. 1.0	Electric and optical fibre cables – Test methods for non-metallic materials – Part 606: Physical tests – Methods for determining the density.	
Accessories for power cables with rated voltages up to 30 kV			
Electrical engineering	DIN EN 61442:2006-01 VDE 0278-442 EN 61442:2005 IEC 61442 (2005-03) Ed. 2.0	Test methods for accessories for power cables with rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV).	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0278 - 629-1 DIN VDE 0278-629-1:2009-07 HD 629.1:2008	Test requirements for accessories for use on power cables of rated voltage from 3,6/6(7,2) kV up to 20,8/36(42) kV - Part 1: Accessories for cables with extruded insulation	
Electrical engineering	VDE 0278 - 629-2 DIN VDE 0278-629-2:2009-07 HD 629.2:2008	Test requirements on accessories for use on power cables of rated voltage from 3,6/6(7,2) kV up to 20,8/36(42) kV - Part 2: Cables with impregnated paper insulation	
Electrical engineering	VDE 0279 DIN 57279:1982-10	Accessories for underground mining cables; joint boxes U_o/U=0,6/1 kV	
Electrical engineering	DIN EN 61238-1:2004-03 VDE 0220-100 IEC 61238-1 (2003-05) Ed. 2.0	Compression and mechanical connectors for power cables for rated voltages up to 30 kV (Um = 36 kV) – Part 1: Test methods and requirements.	
Electrical engineering	DIN V 47640	Heat-shrinkable joints for plastic insulated power cables with nominal voltages 0,6/1 (1,2) kV	
Power cables and Accessories for power cables with rated voltages up to 400 kV (Um ≤ 420 kV)			
Electrical engineering	DIN VDE 0276–632:2017-09 HD 632 S3:2016	Power cables with extruded insulation and their accessories for rated voltages above 36 kV (U = 42 kV) up to 150 kV (U= 170 kV)	
Electrical engineering	DIN VDE 0276–633:1999-05 HD 633 S1:1997	Tests on oil-filled (fluid-filled), paper- and polypropylene paper laminate-insulated, metal-sheathed cables and accessories for alternating voltages up to and including 400 kV (U=420 kV)	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	DIN VDE 0276 – 634:1999-05 HD 634 S1:1997	Tests on internal gas-pressure cables and accessories for alternating voltages up to and including 275 kV (U=300 kV)	
Electrical engineering	DIN VDE 0276 – 635:1999-05 HD 635 S1:1997	Gas-pressure cables and accessories for alternating voltages up to and including 220 kV	
Electrical engineering	VDE 0265 DIN VDE 0265:1995-12	Cables with plastic-insulation and lead-sheath for power installation	
Electrical engineering	VDE 0266 DIN VDE 0266:2006-03	Power cables with improved characteristics in the case of fire	
Electrical engineering	VDE 0271 DIN VDE 0271:2008-02	Specifications for power cables 0,6/1 kV and above for special applications	
Electrical engineering	VDE 0276 – 605 DIN VDE 0276-605:2008-02	Electric cables - Additional test methods	
Electrical engineering	VDE 0276 - 620 DIN VDE 0276-620: 2018-04	Distribution cables with extruded insulation for rated voltages from: 3,6 / 6 kV bis 20,8 / 36 kV.	
Electrical engineering	VDE 0276 - 621 DIN VDE 0276-621:1997-05 +Ber:2018-12	Medium voltage impregnated paper insulated distribution cables	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0276 - 622 DIN VDE 0276-622:2006-05	Power cables having rated voltages from 3,6/6 (7,2) kV up to and including 20,8/36 (42) kV with special fire performance for use in power stations	
Electrical engineering	VDE 0276 - 626 DIN VDE 0276-626:1997-01	Overhead distribution cables of rated voltage U_o/U(U□):0,6/1 (1,2) kV	
Electrical engineering	VDE 0276 - 627 DIN VDE 0276-627:2006-09	Multicore and multipair cables for installation above and below ground	
Electrical engineering	VDE 0279 DIN 50279:1982-10	Accessories for underground mining cables Joint boxes 0,6/1 kV	
Electrical engineering	VDE 0278-393 DIN EN 50393:2015-10 EN 50393:2015	Test methods and requirements for accessories for use on distribution cables of rated voltage 0,6/1,0 (1,2) kV	
Electrical engineering	IEC 60141-1 (1998-08) Ed. 3.0	Tests on oil-filled and gas-pressure cables and their accessories – Part 1: Oil-filled, paper-insulated, metal-sheathed cables and accessories for alternating voltages up to and including 400 kV.	
Electrical engineering	IEC 60141-2 (1967-01) Ed. 1.0	Tests on oil-filled and gas-pressure cables and their accessories. – Part 2: Internal gas-pressure cables and accessories for alternating voltages up to 275 kV.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEC 60141-3 (1967-01) Ed. 1.0	Tests on oil-filled and gas-pressure cables and their accessories. – Part 3: External gas-pressure (gas compression) cables and accessories for alternating voltages up to 275 kV.	
Electrical engineering	IEC 60141-4 (1990-10) Ed. 1.0	Tests on oil-filled and gas-pressure cables and their accessories. – Part 4: Oil-impregnated paper-insulated high pressure oil-filled pipe-type cables and accessories for alternating voltages up to and including 400 kV.	
Electrical engineering	IEC 60840 (2011-11) Ed. 4.0	Tests for power cables with extruded insulation for rated voltages above 30 kV (Um = 36 kV) up to 150 kV (Um = 170 kV).	
Electrical engineering	IEC 60055-1 (2005-05) Ed. 5.1	Paper-insulated metal-sheathed cables for rated voltages up to 18 / 30 kV (with copper or aluminum conductors and excluding gas-pressure and oil-filled cables) – Part 1: Tests on cables and their accessories.	
Electrical engineering	IEC 60055-2 (2005-02) Ed. 1.0	Paper-insulated metal-sheathed cables for rated voltages up to 18 / 30 kV (with copper or aluminium conductors and excluding gaspressure and oil-filled cables). – Part 2: General and construction requirements.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	EC 60502-1 (2009-09) Ed. 2.0	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) – Part 1: Cables for rated voltages of 1 kV (Um = 1,2 kV) and 3 kV (Um = 3,6 kV).	
Electrical engineering	IEC 60502-2 (2014-02) Ed. 2.0	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) – Part 2: Cables for rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV.	
Electrical engineering	IEC 60502-4 (2010-12) Ed. 3.0	Power cables with extruded insulation and their accessories for rated voltages from 1 kV (Um = 1,2 kV) up to 30 kV (Um = 36 kV) – Part 4: Test requirements on accessories for cables with rated voltages from 6 kV (Um = 7,2 kV) up to 30 kV (Um = 36 kV).	
Electrical engineering	VDE 0276-2067 DIN IEC 62067:2013-08 IEC 62067 (2011-11) Ed. 2.0	Power cables with extruded insulation and their accessories for rated voltage above 150 kV (Um = 170 kV) up to 500 kV (Um = 550 kV) – Test methods and requirements.	
Electrical engineering	IEC 60227-2 (2003-04) Ed. 2.1	Electrical test methods for electric cables. – Part 1: Electrical tests for cables, cords and wires for voltages up to and including 450 V / 750 V.	
Electrical engineering	VDE 0481 - 885-2 DIN EN 60885-2 IEC 60885-2 (1987-03) Ed. 1.0	Electrical test methods for electric cables. – Part 2: Partial discharge tests.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	VDE 0481 - 885-3 DIN EN 60885-3 IEC 60885-3 (2015-04) Ed. 2.0	Electrical test methods for electric cables. – Part 3: Test methods for partial discharge measurements on lengths of extruded power cables.	
Electrical engineering	VDE 0473-229 DIN EN 60229:2009-04 EN 60229:2008 IEC 60229 (2007-10) Ed. 3.0	Tests on cable oversheaths which have a special protective function and are applied by extrusion.	
Electrical engineering	VDE 0481-395 DIN EN 50395:2006-07/A1:2012 EN 50395:2005	Electrical test methods for low voltage energy cables	
Electrical engineering	VDE 0473-396 DIN EN 50396:2006-07/A1:2012 EN 50396:2005/A1:2011	Non electrical test methods for low voltage energy cables	
Electrical engineering	VDE 0481 - 230 DIN EN 60230:2018-10 EN 60230:2018 IEC 60230:(2018-01) Ed. 2.0	Impulse tests on cables and their accessories.	
Electrical engineering	IEEE 48:2009	IEEE Standard for Test Procedures and Requirements for Alternating-Current Cable Terminations Used on Shielded Cables Having Laminated Insulation Rated 2.5 kV through 765 kV or Extruded Insulation Rated 2.5 kV through 500 kV.	

Testing field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEEE 404:2012	IEEE Standard for Extruded and Laminated Dielectric Shielded Cable Joints Rated 2500 V to 500.000 V.	
Electrical engineering	IEEE 386:2016	IEEE Standard for Separable Insulated Connector Systems for Power Distribution Systems Above 600 V.	
Electrical engineering	IEEE 592:2018	IEEE Standard for Exposed Semiconducting Shields on High-Voltage Cable Joints and Separable Connectors.	