

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-21472-05-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 16.11.2022Date of issue: 16.11.2022

Holder of accreditation certificate:

Siemens Energy Global GmbH & Co. KG

with its testing laboratory

PSW-H (Prüffeld der Schaltwerke - Hochspannung) Paulsternstraße 26, 13629 Berlin

The testing laboratory meets the minimal requirements of DIN EN ISO/IEC 17025:2018 and, if applicable, additional legal and normative requirements, including those in relevant sectoral schemes, in order to carry out the conformity assessment activities listed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

High-Voltage Switchgear and Controlgear Power Engineering Equipment

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 certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at https://www.dakks.de.

Abbreviations used: see last page Page 1 of 10



Testing field	Standard / Version	Title of Standard	Test Range / Restrictions
		General	
Electrical engineering	IEC 62271-1:2017 + AMD 1:2021	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear	
	IEEE 4:2013	IEEE Standard Techniques for High- Voltage Testing	
	IEEE Std C37.20.2:2020	IEEE Standard for Metal-Clad Switchgear	
	IEEE Std C37.20.3:2013	IEEE Standard for Metal-Enclosed Interrupter Switchgear (1 kV - 38 kV)	
	IEEE Std C37.100:1992	IEEE Standard Definitions for Power Switchgear	
	IEEE Std C37.100.1:2018	Common requirements for high voltage power switchgear rated above 1000 V	
	GOST 1516.3-96	Electrical equipment for a.c. voltages from 1 to 750 kV - Requirements for electric strength of insulation	
		Circuit-breakers	
Electrical engineering	IEC 62271-100:2021	High-voltage switchgear and controlgear - Part 100: High-voltage alternating-current circuit-breakers	
	IEC 62271-101:2021	High-voltage switchgear and controlgear - Part 101: Synthetic testing	
	IEC 62271-108:2020	High-voltage switchgear and controlgear - Part 108: High-voltage alternating current disconnecting circuit-breakers for rated voltages of 72,5 kV and above	
	IEC 62271-109:2019	High-voltage switchgear and controlgear - Part 109: Alternating-current series capacitor by-pass switches	
	IEC 62271-110:2017	High-voltage switchgear and controlgear - Part 110: Inductive load switching	
	IEC 62271-111:2019 IEEE Std C37.60:2019	High voltage switchgear and controlgear - Part 111: Automatic circuit reclosers for alternating current systems up to and including 38 kV	



Testing field	Standard / Version	Title of Standard	Test Range / Restrictions
	DIN EN 50152-1:2013	Railway applications - Fixed installations -	
	VDE 0115-320-1:2013	Particular requirements for AC switchgear	
	EN 50152-1:2013	- Part 1: Single-phase circuit-breakers with	
	DIN EN 50152-1/A1:2014	Un above 1 kV	
	VDE 0115-320-1/A1:2014		
	DIN EN 50152-2:2013	Railway applications - Fixed installations -	
	VDE 0115-320-2:2013	Particular requirements for a.c.	
	EN 50152-2:2012	switchgear - Part 2: Single-phase	
		disconnectors, earthing switches and	
		switches with Un above 1 kV	
	IEC 60077-1:2017	Railway applications - Electric equipment	
		for rolling stock - Part 1: General service	
		conditions and general rules	
	IEC 60077-2:2017	Railway applications - Electric equipment	
		for rolling stock - Part 2: Electrotechnical	
		components - General rules	
	IEC 60077-4:2017	Railway applications - Electric equipment	
		for rolling stock - Part 4: Electrotechnical	
		components; Rules for AC circuit-breakers	
	IEC/TR 62271-300:2006	High-voltage switchgear and controlgear -	
		Part 300: Seismic qualification of	
		alternating current circuit-breakers	
	IEC/TR 62271-302:2010	Alternating current circuit breakers with	
		internationally non-simultaneous pole	
		operation	
	IEC/TR 62271-310:2008	High-voltage switchgear and controlgear -	
		Part 310: Electrical endurance testing for	
		circuit-breakers of rated voltage 72,5 kV	
		and above	
	IEEE Std C37.04:2018	IEEE Standard for Ratings and	
	+ CORRIGENDUM 1:2021	Requirements for AC High-Voltage Circuit	
		Breakers with Rated Maximum Voltage	
		Above 1000 V	
	IEEE C37.06.1:2017	IEEE Recommended Practice for Preferred	
		Ratings for High-Voltage (>1000 volts) AC	
		Circuit Breakers Designated Definite	
		Purpose for Fast Transient Recovery	
		Voltage Rise Times	
	IEEE Std C37.09:2018	IEEE Standard Test Procedure for AC High-	
	+ CORRIGENDUM 1:2021	Voltage Circuit Breakers with Rated	
		Maximum Voltage Above 1000 V	



Testing field	Standard / Version	Title of Standard	Test Range / Restrictions
	IEEE Std C37.010:2016	IEEE Application Guide for AC High-	
		Voltage Circuit Breakers Rated on a	
		Symmetrical Current Basis	
	IEEE Std C37.011:2019	IEEE Guide for the Application of	
		Transient Recovery Voltage for AC High-	
		Voltage Circuit Breakers with Rated	
		Maximum Voltage above 1000 V	
	IEEE Std C37.012:2014	IEEE Guide for the Application of	
	+ CORRIGENDUM 1:2016	Capacitance Current Switching for AC	
	IEEE Std. C37.012A:2020	High-Voltage Circuit Breakers Above 1000 V	
	IEC/IEEE 62271-37-013:	High-voltage switchgear and controlgear -	
	2021	Part 37-013: Alternating current	
		generator circuit-breakers	
	IEEE Std C37.015:2017	IEEE Application Guide for Shunt Reactor	
		Switching	
	IEEE Std C37.016:2018	AC high-voltage circuit switchers rated	
	+CORRIGENDUM 1:2021	15.5 kV through 245 kV	
	IEEE Std C37.11:2014	IEEE Standard Requirements for Electrical	
		Control for AC High-Voltage Circuit	
		Breakers Rated on a Symmetrical Current	
		Basis	
	ANSI C37.54:2003	Conformance Test Procedures for Indoor	
		Alternating Current High-Voltage Circuit	
		Breakers Applied as Removable Elements	
		in Metal-Enclosed Switchgear Assemblies	
	CSA C22.2 No. 31-18:2018	Switchgear assemblies	
	GOST R 52565-2006	Alternating-Current Circuit-Breakers for	
		Voltage from 3 to 750 kV	
	IEC 62146-1:2013	Grading capacitors for high-voltage	
	+ AMD1:2016	alternating current circuit-breakers -	
		Part 1: General	
		Switches	
Electrical	IEC 62271-103:2021	High-voltage switchgear and controlgear -	
engineering		Part 103: Switches for rated voltages	
		above 1 kV up to and including 52 kV	
	IEC 62271-104:2020	High-voltage switchgear and controlgear -	
		Part 104: Alternating current switches for	
		rated voltages of 52 kV and above	
	IEC 62271-105:2021	High-voltage switchgear and controlgear -	
		Part 105: Alternating current switch-fuse	
		combinations	



Testing field	Standard / Version	Title of Standard	Test Range / Restrictions		
	Contactors and motorstarters				
Electrical engineering	IEC 62271-106:2021	High-voltage switchgear and controlgear - Part 106: Alternating current contactors, contactor-based controllers and motor- starters			
	UL347:2020 CSA C22.2 No. 253- 20:2020 NMX-J-564/106- ANCE:2020	Medium-Voltage AC Contactors, Controllers, and Control Centers			
	Disconnec	tors and earthing switches			
Electrical engineering	IEC 62271-102:2018	High-voltage switchgear and controlgear - Part 102: Alternating current disconnectors and earthing switches			
	IEEE C37.30.1:2011	IEEE Standard Requirements for High- Voltage Switches			
	IEEE C37.41:2016	IEEE Standard Requirements for High- Voltage Switches			
	GOST 52726-2007	Disconnectors and Earthing Switches for AC Voltage above 1 kV and their Drive Units			
	Switch	hgear and controlgear			
Electrical engineering	IEC 62271-200:2021	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			
	IEC 62271-201:2014	High-voltage switchgear and controlgear - Part 201: AC insulation-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV			
	IEC 62271-203:2011 CORRIGENDUM 1:2013	High-voltage switchgear and controlgear - Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV			
	IEC 62271-205:2008	High-voltage switchgear and controlgear - Part 205: High-voltage switchgear assemblies for operation at rated voltages above 52 kV			



Testing field	Standard / Version	Title of Standard	Test Range / Restrictions
	IEC 62271-209:2019	High-voltage switchgear and controlgear -	
	+ AMD1:2022	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	
	IEC 62271-211:2014	High-voltage switchgear and controlgear -	
		Part 211: Direct connection between	
		power transformers and gas-insulated	
		metal-enclosed switchgear for rated	
		voltages above 52 kV	
	IEEE Std C37.122:2021	IEEE Standard for High Voltage Gas-	
		Insulated Substations Rated Above 52 kV	
	IEEE Std C37.122.1:2014	IEEE Guide for Gas-Insulated	
		Substations Rated Above 52 kV	
	GOST R 54828-2011	Gas-insulated metal-enclosed switchgear	
		for nominal voltages above 110 kV.	
		General technical specification	
		Surge arresters	
Electrical	DIN EN 50526-1:2012	Railway applications - Fixed installations -	
engineering	VDE 0115-526-1:2012	D.C. surge arresters and voltage limiting	
	EN 50526-1:2012	devices - Part 1: Surge arresters	
	DIN EN 60099-1:2000	Surge arresters; part 1: non-linear resistor	
	VDE 0675-1:2000	type gapped surge arresters for a.c.	
	EN 60099-1:1999	systems	
	IEC 60099-4:2014	Surge arresters - Part 4: Metal-oxide surge	
		arresters without gaps for a.c. systems	
	GB/T 11032-2020	Metal-oxide surge arresters without gaps	
		for a.c. systems	
	IEC 60099-8:2017	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	
	IEC 60099-9:2014	Surge arresters - Part 9: Metal-oxide surge	
		arresters without gaps for HVDC	
		converter stations	
	IEC 61643-11:2011	Low-voltage surge protective devices -	
		Part 11: Surge protective devices	
		connected to low-voltage power	
		distribution systems - Requirements and	
		testing methods	



IEEE Std C62.11:2020 IEEE Standard for Metal-Oxide Surge Arresters for AC Power Circuits (> 1 kV)	Testing field	Standard / Version	Title of Standard	Test Range / Restrictions
Arresters for AC Power Circuits (> 1 kV)		IEEE Std C62.11:2020	IEEE Standard for Metal-Oxide Surge	
Arresters without gaps for HVDC Converter Stations GOST R 52725-2007 Surge arresters for AC electrical installations for voltage from 3 kV to 750 kV Transmission lines Electrical engineering IEC 62271-204:2011 IEC 60353:1989 + AMD1:2002 IEC 61284:1997 Overhead lines - Requirements and tests for fittings CISPR TR 18-2:2017 Radio interference characteristics of overhead power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits IEC 60358-1:2012 - CORRIGENDUM 1:2013 - Part 1: Common clauses Transformers, Reactors Electrical engineering IEC 60076-6:2007 Power transformers - Part 6: Reactors engineering IEC 61869-2:2012 Instrument transformers - Part 1: General requirements IEC 60044-7:1999 Instrument transformers - Part 7: Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEC food44-8:2002 Instrument transformers - Part 8: Electronic voltage transformers IEEC food44-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument			_	
Converter Stations		CIGRE WG 33/14-05:1989	Application Guide for Metal oxide	
GOST R 52725-2007 Surge arresters for AC electrical installations for voltage from 3 kV to 750 kV Transmission lines Electrical engineering Electrical engineering IEC 62271-204:2011 High-voltage switchgear and controlgear - Part 204: Rigid gas-insulated transmission lines for rated voltage above 52 kV IEC 60353:1989 Line traps for a.c. power systems + AMD1:2002 IEC 61284:1997 Overhead lines - Requirements and tests for fittings CISPR TR 18-2:2017 Radio interference characteristics of overhead power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits IEC 60358-1:2012 + CORRIGENDUM 1:2013 Transformers, Reactors Electrical engineering IEC 60076-6:2007 Power transformers - Part 6: Reactors engineering IEC 61869-1:2007 Instrument transformers IEC 61869-2:2012 Instrument transformers - Part 1: General requirements IEC 60044-7:1999 Instrument transformers - Part 7: Electronic current transformers - Part 8: Electro			Arresters without gaps for HVDC	
installations for voltage from 3 kV to 750 kV Transmission lines Electrical engineering IEC 62271-204:2011			Converter Stations	
Transmission lines		GOST R 52725-2007	Surge arresters for AC electrical	
Electrical engineering IEC 62271-204:2011			_	
Electrical engineering IEC 62271-204:2011 High-voltage switchgear and controlgear - Part 204: Rigid gas-insulated transmission lines for rated voltage above 52 kV IEC 60353:1989			750 kV	
engineering Part 204: Rigid gas-insulated transmission lines for rated voltage above 52 kV		Т	ransmission lines	
lines for rated voltage above 52 kV IEC 60353:1989	Electrical	IEC 62271-204:2011	High-voltage switchgear and controlgear -	
IEC 60353:1989	engineering		Part 204: Rigid gas-insulated transmission	
+ AMD1:2002 IEC 61284:1997 Overhead lines - Requirements and tests for fittings CISPR TR 18-2:2017 Radio interference characteristics of overhead power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits IEC 60358-1:2012 Coupling capacitors and capacitor dividers - Part 1: Common clauses Formation			lines for rated voltage above 52 kV	
IEC 61284:1997 Overhead lines - Requirements and tests for fittings CISPR TR 18-2:2017 Radio interference characteristics of overhead power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits IEC 60358-1:2012 Coupling capacitors and capacitor dividers - Part 1: Common clauses Transformers, Reactors Electrical engineering IEC 60076-6:2007 Power transformers - Part 6: Reactors Instrument transformers Electrical engineering IEC 61869-1:2007 Instrument transformers - Part 1: General requirements IEC 61869-2:2012 Instrument transformers - Part 2: Additional requirements for current transformers IEC 60044-7:1999 Instrument transformers - Part 7: Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument			Line traps for a.c. power systems	
CISPR TR 18-2:2017 Radio interference characteristics of overhead power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits		+ AMD1:2002		
CISPR TR 18-2:2017 Radio interference characteristics of overhead power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits IEC 60358-1:2012 + CORRIGENDUM 1:2013 Transformers, Reactors Electrical engineering IEC 60076-6:2007 Power transformers - Part 6: Reactors Instrument transformers Electrical engineering IEC 61869-1:2007 Instrument transformers - Part 1: General requirements IEC 61869-2:2012 Instrument transformers - Part 2: Additional requirements for current transformers IEC 60044-7:1999 Instrument transformers - Part 7: Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument		IEC 61284:1997		
overhead power lines and high-voltage equipment - Part 2: Methods of measurement and procedure for determining limits IEC 60358-1:2012				
equipment - Part 2: Methods of measurement and procedure for determining limits IEC 60358-1:2012 Coupling capacitors and capacitor dividers - Part 1: Common clauses Transformers, Reactors Electrical engineering IEC 60076-6:2007 Power transformers - Part 6: Reactors Instrument transformers Electrical engineering IEC 61869-1:2007 Instrument transformers - Part 1: General requirements IEC 61869-2:2012 Instrument transformers - Part 2: Additional requirements for current transformers IEC 60044-7:1999 Instrument transformers - Part 7: Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEC 6005-1:2016 Requirements for instrument		CISPR TR 18-2:2017		
measurement and procedure for determining limits IEC 60358-1:2012				
determining limits IEC 60358-1:2012				
IEC 60358-1:2012 Coupling capacitors and capacitor dividers Part 1: Common clauses			•	
+ CORRIGENDUM 1:2013 - Part 1: Common clauses Transformers, Reactors Electrical engineering IEC 60076-6:2007 Power transformers - Part 6: Reactors Instrument transformers Electrical engineering IEC 61869-1:2007 Instrument transformers - Part 1: General requirements IEC 61869-2:2012 Instrument transformers - Part 2: Additional requirements for current transformers IEC 60044-7:1999 Instrument transformers - Part 7: Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument		U.S. C.		
Electrical engineering IEC 60076-6:2007				
Electrical engineering IEC 60076-6:2007 Power transformers - Part 6: Reactors				
Instrument transformers Electrical engineering IEC 61869-1:2007 Instrument transformers - Part 1: General requirements IEC 61869-2:2012 Instrument transformers - Part 2: Additional requirements for current transformers IEC 60044-7:1999 Instrument transformers - Part 7: Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument				
Electrical engineering IEC 61869-1:2007 Instrument transformers - Part 1: General requirements IEC 61869-2:2012 Instrument transformers - Part 2: Additional requirements for current transformers IEC 60044-7:1999 Instrument transformers - Part 7: Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument		IEC 60076-6:2007	Power transformers - Part 6: Reactors	
engineering IEC 61869-2:2012 Instrument transformers - Part 2: Additional requirements for current transformers IEC 60044-7:1999 Instrument transformers - Part 7: Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument		Insti	rument transformers	
IEC 61869-2:2012 Instrument transformers - Part 2: Additional requirements for current transformers IEC 60044-7:1999 Instrument transformers - Part 7: Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument	Electrical	IEC 61869-1:2007	Instrument transformers - Part 1: General	
Additional requirements for current transformers IEC 60044-7:1999 Instrument transformers - Part 7: Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument	engineering		requirements	
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Electronic voltage transformers IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument		IEC 60044-7:1999	Instrument transformers - Part 7:	
IEC 60044-8:2002 Instrument transformers - Part 8: Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument				
Electronic current transformers IEEE Std C57.13:2016 Requirements for instrument		IEC 60044-8:2002		
IEEE Std C57.13:2016 Requirements for instrument				
· ·		IEEE Std C57.13:2016	Requirements for instrument	



Testing field	Standard / Version	Title of Standard	Test Range / Restrictions		
	Insulators, Bushings				
Electrical engineering	IEC 60383-1:1993	Insulators for overhead lines with nominal voltage above 1000 V; part 1: ceramic or glass insulator units for a.c. systems; definitions, test methods and acceptance criteria			
	IEC 60383-2:1993	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			
	IEC 60137:2017	Insulated bushings for alternating voltages above 1000 V			
	IEC 60168:1994 + AMD1:1997 + AMD2:2000	Tests on indoor and outdoor post insulators of ceramic material or glass for systems with nominal voltages greater than 1000 V			
	IEC 61109:2008	Insulators for overhead lines - Composite suspension and tension insulators for a.c. systems with a nominal voltage greater than 1000 V - Definitions, test methods and acceptance criteria			
	IEC 62217:2012	Polymeric HV insulators for indoor and outdoor use - General definitions, test methods and acceptance criteria			
	IEC 60437: 1997	Radio interference test on high-voltage insulators			
	IEC 62155:2003	Hollow pressurized and unpressurized ceramic and glass insulators for use in electrical equipment with rated voltages greater than 1000 V			
	IEC TS 60815-1:2008	Selection and dimensioning of high- voltage insulators intended for use in polluted conditions - Part 1: Definitions, information and general principles			
	IEC TS 60815-2:2008	Selection and dimensioning of high- voltage insulators intended for use in polluted conditions - Part 2: Ceramic and glass insulators for a.c. systems			



Testing field	Standard / Version	Title of Standard	Test Range / Restrictions
	DIN 48113:1973	Post insulators for switchgears and substation with nominal voltages greater than 1000 V; co-ordination of the definitions for mechanical bending strength	
	IEC 62231:2006	Composite station post insulators for substations with a.c. voltages greater than 1000 V up to 245 kV - Definitions, test methods and acceptance criteria	
	IEC 62231-1:2015	Composite station post insulators for substations with AC voltages greater than 1000 V up to 245 kV - Part 1: Dimensional, mechanical and electrical characteristics	
	IEC 61952:2008	Insulators for overhead lines - Composite line post insulators for A.C. systems with a nominal voltage greater than 1 000 V - Definitions, test methods and acceptance criteria	
	IEC 61462:2007	Composite hollow insulators - Pressurized and unpressurized insulators for use in electrical equipment with rated voltage greater than 1000 V - Definitions, test methods, acceptance criteria and design recommendations	
	ANSI C29.1:2018	Test Methods for Electrical Power Insulators	
	ANSI C29.11:2020	Composite Insulators - Test Methods	
	ANSI C29.12:2020	Insulators - Composite-Suspension Type	
	ANSI C29.13:2012	Insulators - Composite - Distribution Deadend Type	
	ANSI C29.17:2013	Composite Insulators - Distribution Line Post Type	
	High-	voltage test techniques	
Electrical engineering	IEC 60060-1:2010	High-voltage test techniques; Part 1: General definitions and test requirements	
	IEC 60060-2:2010	High-voltage test techniques - Part 2: Measuring systems	



Testing field	Standard / Version	Title of Standard	Test Range / Restrictions
	IEC 60270:2000	High-voltage test techniques - Partial	
	+ AMD1:2015	discharge measurements	
	IEEE Std C37.301:2009	IEEE Standard for High-Voltage Switchgear	
		(Above 1000 V) Test Techniques—Partial	
		Discharge Measurements	
	Mechanical testing	gs, environment- and guardtesting	
Electrical	IEC 60068-2-14:2009	Environmental testing - Part 2-14: Tests -	
engineering		Test N: Change of temperature	
	IEC 60068-2-17:1994	Basic environmental testing procedures -	
		Part 2: Tests - Test Q: Sealing	
	IEC 60529:1989	Degrees of protection provided by	
	+ AMD1:1999	enclosures (IP code)	
	+ AMD2:2013		
	ISO 3744:2010	Acoustics - Determination of sound power	
		levels of noise sources using pressure -	
		Engineering method in an essentially free	
		field over a reflecting plane	
	DIN 45635-1:1984	Measurement of noise emitted by	
		machines; airborne noise emission;	
		enveloping surface method; basic	
		method, divided into 3 grades of accuracy	
	DIN 45635-12:1978	Measurement of noise emitted by	
		machines; Airborne noise measurement,	
		enveloping surface method; Electrical	
		switchgear and control gear	
	IEC/IEEE 62271-37-	High-voltage switchgear and controlgear -	
	082:2012	Part 37-082: Standard practice for the	
	IEEE 62271-37-082:2012	measurement of sound pressure levels on	
		alternating current circuit-breakers	