

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-12072-06-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 03.11.2023

Date of issue: 03.11.2023

Holder of accreditation certificate:

PEHLA GmbH

with its testing laboratory

PEHLA GmbH

PEHLA-Prüffeld Ratingen

Oberhausener Straße 33, 40472 Ratingen

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed 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.

Tests in the fields:

Devices and equipment of medium and high voltage

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 methods 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

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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 EN 61869-1 VDE 0414-9-1: April 2010	Instrument transformers - Part 1: General requirements (IEC 61869-1:2007, modified); German version EN 61869-1:2009	
Electrical Engineering	IEC 61869-1 Edition 1.0, 2007-10	Instrument transformers – Part 1: General requirements	
Electrical Engineering	DIN EN 61869-2 VDE 0414-9-2: 2013-07	Instrument transformers – Part 2: Additional requirements for current transformers (IEC 61869-2:2012); German version EN 61869-2:2012	
Electrical Engineering	DIN EN 61869-2 Berichtigung 1: 2014-06; VDE 0414-9-2 Berichtigung 1: 2014-06	Instrument transformers – Part 2: Additional requirements for current transformers (IEC 61869-2:2012); German version EN 61869-2:2012, Corrigendum to DIN EN 61869-2 (VDE 0414-9-2):2013-07	
Electrical Engineering	IEC 61869-2 Edition 1.0, 2012-09	Instrument transformers – Part 2: Additional requirements for current transformers	
Electrical Engineering	DIN EN 61869-3 (VDE 0414-9-3): Mai 2012	Instrument transformers – Part 3: Additional requirements for inductive voltage transformers (IEC 61869-3:2011); German version EN 61869-3:2011	
Electrical Engineering	IEC 61869-3 Edition 1.0, 2011-07	Instrument transformers – Part 3: Additional requirements for inductive voltage transformers	
Electrical Engineering	DIN EN 61869-4 VDE 0414-9-4: April 2015	Instrument transformers - Part 4: Additional requirements for combined transformers (IEC 61869-4:2013); German Version EN 61869-4:2014	
Electrical Engineering	IEC 61869-4 Edition 1.0, 2013-11	Instrument transformers - Part 4: Additional requirements for combined transformers	
Electrical Engineering	DIN EN 61869-5 (VDE 0414-9-5) Mai 2012	Messwandler - Teil 5: Zusätzliche Anforderungen für kapazitive Spannungswandler (IEC 61869-5:2011); Deutsche Fassung EN 61869-5:2011	
Electrical Engineering	IEC 61869-5 Edition 1.0, 2011-07	Instrument transformers – Part 5: Additional requirements for capacitor voltage transformers	

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Electrical Engineering	DIN EN 60060-1 (VDE 0432-1) Oktober 2011	High-voltage test techniques – Part 1: General definitions and test requirements (IEC 60060-1:2010); German Version EN 60060-1:2010	
Electrical Engineering	IEC 60060-1 Edition 3.0, 2010-09	High-voltage test techniques – Part 1: General definitions and test requirements	
Electrical Engineering	DIN EN 60060-2 (VDE 0432-2) Oktober 2011	High-voltage test techniques – Part 2: Measuring systems (IEC 60060-2:2010); German Version EN 60060-2:2011	without annex A
Electrical Engineering	IEC 60060-2 Edition 3.0, 2010-11	High-voltage test techniques – Part 2: Measuring systems	without annex A
Electrical Engineering	DIN EN 60076-5 (VDE 0532-76-5) Januar 2007	Power transformers – Part 5: Ability to withstand short-circuit (IEC 60076-5:2006); German Version EN 60076-5:2006	
Electrical Engineering	IEC 60076-5 Third Edition, 2006-02	Power transformers – Part 5: Ability to withstand short-circuit	
Electrical Engineering	E DIN EN 60076-11 (VDE 0532-76-11) 2017-06	Power transformers – Part 10: Determination of sound levels (IEC 60076-10:2016); German Version EN 60076-10:2016	
Electrical Engineering	IEC 60076-11 2018-08	Power transformers – Part 11: Dry-type transformers	
Electrical Engineering	DIN EN 60137 VDE 0674-500 2018-05	Insulated bushings for alternating voltages above 1000 V (IEC 60137:2017); German Version EN 60137:2017	
Electrical Engineering	IEC 60137 2017-06 + COR1:2018	Corrigendum 1 - Insulated bushings for alternating voltages above 1000 V	
Electrical Engineering	DIN EN 62271-103 (VDE 0671-103) April 2012	High-voltage switchgear and controlgear - Part 103: Switches for rated voltages above 1 kV up to and including 52 kV (IEC 62271-103:2011); German Version EN 62271-103:2011	
Electrical Engineering	IEC 62271-103 Edition 1.0, 2011-06	High-voltage switchgear and controlgear – Part 103: Switches for rated voltages above 1 kV up to and including 52 kV	

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Electrical Engineering	DIN EN 62271-104 (VDE 0671-104) November 2015	High-voltage switchgear and controlgear - Part 104: Alternating current switches for rated voltages higher than 52 kV (IEC 62271-104:2015); German Version EN 62271-104:2015	
Electrical Engineering	IEC 62271-104 Edition 2.0, 2015-02	High-voltage switchgear and controlgear – Part 104: Alternating current switches for rated voltages higher than 52 kV (IEC 62271-104:2015); German Version EN 62271-104:2015	
Electrical Engineering	DIN EN 60270 (VDE 0434) August 2001	High-voltage test techniques - Partial discharge measurement (IEC 60270:2000); German Version EN 60270:2001	
Electrical Engineering	DIN EN 60270 Berichtigung 1: November 2002; VDE 0434 Berichtigung 1: November 2002	Corrigendum to DIN EN 60270 (VDE 0434):2001-08	
Electrical Engineering	IEC 60270 Third edition, 2000-12	High-voltage test techniques – Partial discharge measurement	
Electrical Engineering	IEC 60270 Third edition, 2000-12 Amendement 1 Third edition, 2015-11	Amendment 1 - High-voltage test techniques - Partial discharge measurements	
Electrical Engineering	DIN EN 60282-1 (VDE 0670-4) August 2010	High-voltage fuses – Part 1: Current-limiting fuses (IEC 60282-1:2009); German Version EN 60282-1:2009	
Electrical Engineering	IEC 60282-1 Edition 7.1, 2014-07	High-voltage fuses – Part 1: Current-limiting fuses	
Electrical Engineering	IEC 60282-2 Edition 3.0, 2008-04	High-voltage fuses – Part 2: Expulsion fuses	

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Electrical Engineering	DIN EN 62271-106 (VDE 0671-106) Juni 2012	High-voltage switchgear and controlgear - Part 106: Alternating current contactors, contactor-based controllers and motor-starters (IEC 62271-106:2011); German Version EN 62271-106:2011	
Electrical Engineering	IEC 62271-106 Edition 1.0, 2011-08	High-voltage switchgear and controlgear – Part 106: Alternating current contactors, contactor-based controllers and motor-starters	
Electrical Engineering	DIN EN 60529 (VDE 0470-1) September 2014	Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989 + A1:1999 + A2:2013); German version EN 60529:1991 + A1:2000 + A2:2013	
Electrical Engineering	IEC 60529 Edition 2.2, 2013-08	Degree of protection provided by enclosures (IP Code)	
Electrical Engineering	DIN EN 60660 (VDE 0441-3) Dezember 2000	Insulators – Tests on indoor post insulators of organic material for systems with nominal voltages greater than 1 kV up to but not including 300 kV (IEC 60660:1999); German Version EN 60660:1999	
Electrical Engineering	IEC 60660 Edition 2.0, 1999-10	Insulators – Tests on indoor post insulators of organic material for systems with nominal voltages greater than 1 kV up to but not including 300 kV	
Electrical Engineering	DIN EN 60832-1 (VDE 0682-211) Dezember 2010	Live working - Insulating sticks and attachable devices - Part 1: Insulating sticks (IEC 60832-1:2010); German Version EN 60832-1:2010 + Cor. :2010	
Electrical Engineering	IEC 60832-1 Edition 1.0, 2010-02	Live working - Insulating sticks and attachable devices - Part 1: Insulating sticks	
Electrical Engineering	DIN EN 60832-2 (VDE 0682-212) Dezember 2010	Live working - Insulating sticks and attachable devices – Part 2: Attachable devices (IEC 60832-2:2010); German Version EN 60832-2:2010 + Cor.:2010	
Electrical Engineering	IEC 60832-2 Edition 1.0, 2010-02	Live working - Insulating sticks and attachable devices - Part 2: Attachables devices	

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Electrical Engineering	E DIN IEC/TS 62271-304 VDE 0671-304 2017-01	High-voltage switchgear and controlgear - Part 304: Classification of indoor enclosed switchgear and controlgear for rated voltages above 1 kV up to and including 52 kV related to the use in severe climatic conditions (IEC 17C/648/CD:2016)	
Electrical Engineering	IEC/TS 62271-304 2019-03	High-voltage switchgear and controlgear – Part 304: Classification of indoor enclosed switchgear and controlgear for rated voltages above 1 kV up to and including 52 kV related to the use in special service conditions with respect to condensation and pollution	
Electrical Engineering	E DIN IEC 62271-37-013 VDE 0671-37-013: 2019-01	High-voltage switchgear and controlgear – Part 37-013: Alternating-current generator circuit-breakers (IEC 17A/1183/CD:2018)	
Electrical Engineering	IEC/IEEE 62271-37-013: 2015-10 + COR1:2017	High-voltage switchgear and controlgear – Part 37-013: Alternating-current generator circuit-breakers	
Electrical Engineering	DIN EN 60068-2-1 VDE 0468-2-1 Januar 2008	Environmental testing – Part 2-1: Tests - Test A: Cold (IEC 60068-2-1:2007); German Version EN 60068-2-1:2007	
Electrical Engineering	IEC 60068-2-1 Edition 6.0, 2007-03	Environmental testing – Part 2-1: Tests – Test A: Cold	
Electrical Engineering	DIN EN 60068-2-2 VDE 0468-2-2 Mai 2008	Environmental testing - Part 2-2: Tests - Test B: Dry heat (IEC 60068-2-2:2007); German Version EN 60068-2-2:2007	
Electrical Engineering	IEC 60068-2-2 Edition 5.0, 2007-07	Environmental testing – Part 2-2: Tests – Test B: Dry heat	
Electrical Engineering	DIN EN 60068-2-30 Juni 2006	Environmental testing – Part 2-30: Tests - Test Db: Damp heat, cyclic (12 h + 12 h cycle) (IEC 60068-2-30:2005); German Version EN 60068-2-30:2005	
Electrical Engineering	IEC 60068-2-30 Edition 3.0, 2005-08	Environmental testing – Part 2-30: Tests – Test Db: Damp heat, cyclic (12 h + 12 h cycle)	

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Electrical Engineering	IEC 62262 Edition 1.0, 2002-02	Degrees of protection provided by enclosures for electrical equipment against external mechanical impacts (IK code)	
Electrical Engineering	IEC 61230:2008	Live working - Portable equipment for earthing or earthing and short-circuiting	
Electrical Engineering	DIN EN 61230 VDE 0683-100:2009-07	Live working - Portable equipment for earthing or earthing and short-circuiting (IEC 61230:2008); German Version EN 61230:2008	
Electrical Engineering	DIN EN 62271-1 VDE 0671-1 2018-05	High-voltage switchgear and controlgear – Part 1: Common specifications for alternating current switchgear and controlgear (IEC 62271-1:2017); German Version EN 62271-1:2017	
Electrical Engineering	IEC 62271-1: 2017-07	High-voltage switchgear and controlgear - Part 1: Common specifications for alternating current switchgear and controlgear	
Electrical Engineering	DIN EN 62271-100 VDE 0671-100 2018-04	High-voltage switchgear and controlgear - Part 100: Alternating-current circuit-breakers (IEC 62271-100:2008 + A1:2012 + A2:2017 + A2:2017/COR1:2018); German Version EN 62271-100:2009 + A1:2012 + A2:2017	
Electrical Engineering	IEC 62271-100 2008-04+ AMD1:2012+ AMD2:2017/ COR1:2018	High-voltage switchgear and controlgear – Part 100: Alternating current circuit-breakers	
Electrical Engineering	DIN EN IEC 62271-102 VDE 0671-102 2019-03	High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches (IEC 62271-102:2018); German Version EN IEC 62271-102:2018	
Electrical Engineering	IEC 62271-102: 2018-05	High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches	
Electrical Engineering	DIN EN 62271-105 VDE 0671-105 August 2013	High-voltage switchgear and controlgear – Part 105: Alternating current switch-fuse combinations for rated voltages above 1 kV up to and including 52 kV (IEC 62271-105:2012); German Version EN 62271-105:2012	

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Electrical Engineering	IEC 62271-105 Edition 2.0, 2012-09	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	DIN EN IEC 62271-110 VDE 0671-110 2018-08	High-voltage switchgear and controlgear - Part 110: Inductive load switching (IEC 62271-110:2017 + COR1:2017 + COR2:2018); German Version EN IEC 62271-110:2018 + AC:2018	
Electrical Engineering	IEC 62271-110: 2017-10 + COR1:2017 + COR2:2018	High-voltage switchgear and controlgear – Part 110: Inductive load switching	
Electrical Engineering	E DIN EN 62271-111 VDE 0671-111 September 2014	High-voltage switchgear and controlgear - Part 111: Automatic circuit reclosers and fault interrupters for alternating current systems up to 38 kV (IEC 17A/1060/CD:2014)	
Electrical Engineering	IEC 62271-111 IEEE Std C37.60™ 2019-02	High-voltage switchgear and controlgear – Part 111: Automatic circuit reclosers for alternating current systems up to and including 38 kV	
Electrical Engineering	DIN EN 62271-200 VDE 0671-200 August 2012	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 62271-200:2011); German Version EN 62271-200:2012	
Electrical Engineering	DIN EN 62271-200 VDE 0671-200 August 2012 Berichtigung 1	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 62271-200:2011); German Version EN 62271-200:2012, Corrigendum to DIN EN 62271-200 (VDE 0671-200):2012-08; (IEC-Cor.:2015 to IEC 62271-200:2011)	
Electrical Engineering	IEC 62271-200 Edition 2.0, 2011-10	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	

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Electrical Engineering	IEC 62271-200 Edition 2.0, 2011-10 Corrigendum 1	Corrigendum 1 - 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	DIN EN 62271-201 VDE 0671-201 Juli 2007	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 62271-201:2006); German Version EN 62271-201:2006	
Electrical Engineering	IEC 62271-201 Edition 2.0, 2014-03	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	
Electrical Engineering	DIN EN 62271-202 VDE 0671-202 August 2007	High-voltage switchgear and controlgear - Part 202: High voltage/low voltage prefabricated substation (IEC 62271-202:2006); German Version EN 62271-202:2007	
Electrical Engineering	IEC 62271-202 Edition 2.0, 2014-03	High-voltage switchgear and controlgear – Part 202: High-voltage/ low-voltage prefabricated substation	
Electrical Engineering	DIN EN 62271-203 VDE 0671-203 November 2012	High-voltage switchgear and controlgear - Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV (IEC 62271-203:2011); German Version EN 62271-203:2012	
Electrical Engineering	IEC 62271-203 Edition 2.0, 2011-09	High-voltage switchgear and controlgear – Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV	
Electrical Engineering	IEC 62271-204:2011	High-voltage switchgear and controlgear – Part 204: Rigid gas-insulated transmission lines for rated voltage above 52 kV	
Electrical Engineering	E DIN EN 62271-214 VDE 0671-214 2017-12	High-voltage switchgear and controlgear - Part 214: Internal arc classification for metal-enclosed pole-mounted switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV (IEC 17C/667/CD:2017)	

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Electrical Engineering	IEC 62271-214 Edition 1.0, 2019-06	High-voltage switchgear and controlgear – Part 214: Internal arc classification for metal-enclosed pole-mounted switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	
Electrical Engineering	IEEE Std C37.04- 1999 June 1999 + COR1:2009	IEEE Standard Rating Structure for AC High-Voltage Circuit Breakers IEEE Std C37.04-1999 (Revision of IEEE Std C37.04-1979)	
Electrical Engineering	IEEE Std C37.06-2009 November 2009	IEEE Standard for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis - Preferred Ratings and Related Required Capabilities for Voltages Above 1000 V IEEE Std C37.06-2009 (Revision of ANSI C37.06-2000)	
Electrical Engineering	IEEE Std C37.09-1999 (R2007) June 1999	IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis IEEE Std C37.09™-1999 (R2007) (Revision of IEEE Std C37.09-1979)	
Electrical Engineering	ANSI C37.54- 2002 March 2003	American National Standard For Indoor Alternating Current High-Voltage Circuit Breakers Applied as Removable Elements in Metal-Enclosed Switchgear— Conformance Test Procedures	
Electrical Engineering	ANSI C37.20.2-2015	IEEE Standard for Metal-Clad Switchgear	
Electrical Engineering	ANSI C37.20.7-2007 + COR1:2010	IEEE Guide for Testing Metal-Enclosed Switchgear Rated Up to 38 kV for Internal Arcing Faults	
Electrical Engineering	ANSI C37.122.2- 2011	IEEE Guide for the Application of Gas Insulated Substations 1kV to 52kV	
Electrical Engineering	IEEE Std C57.13-2016	IEEE Standard Requirements for Instrument Transformers (Revision of IEEE Std C57.13-2008)	
Electrical Engineering	IEEE C37.60 2012-09 Edition 2.0	High-voltage switchgear and controlgear – Part 111: Automatic circuit reclosers and fault interrupters for alternating current systems up to 38 kV	

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