Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-12072-07 according to DIN EN ISO/IEC 17025:2018

Valid from: **13.03.2024**

Date of issue: 13.03.2024

Holder of accreditation certificate:

PEHLA GmbH
Beckstraße 15, 69469 Weinheim

with the location

PEHLA GmbH
PEHLA-Prüffeld Regensburg
Rathenaustraße 2, 93055 Regensburg

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 they conform to the principles of DIN EN ISO 9001.

Tests in the fields:

dielectric, mechanical and thermal tests
at high-voltage switchgear and controlgear

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.

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.

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

Testing Field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Basic Standard			
Electrical engineering	IEC 62271-1:2017-07	High-voltage switchgear and controlgear – Part 1: Common specifications	7.2, 7.4, 7.5, 7.7, 7.8.1, 7.8.3, 7.8.4, 7.10.1, 7.10.2, 7.10.3, 7.10.5
Electrical engineering	IEC 62271-100:2017-06 EN 62271-100:2018-04 DIN EN 62271-100:2018-04 VDE 0671-100:2018-04	High-voltage switchgear and controlgear – Part 100: High-voltage-alternating current circuit-breakers	6.2, 6.4, 6.5, 6.7, 6.8, 6.10.1, 6.10.2, 6.10.3, 6.10.4, 6.10.6, 6.101
Electrical engineering	IEC 62271-102:2013-02 EN 62271-102:2012-06 DIN EN 62271-102:2012-06 VDE 0671-102:2012-06	High-voltage switchgear and controlgear – Part 102: Alternating current disconnectors and earthing switches	6.2, 6.4, 6.5, 6.7, 6.8, 6.102, 6.104, 6.105
Electrical engineering	IEC 62271-103:2011-06 EN 62271-103:2012-04 DIN 62271-103:2012-04 VDE 0671-103:2012-04	High-voltage switchgear and controlgear – Part 103: Switches for rated voltages above 1 kV up to and including 52 kV	6.2, 6.4, 6.5, 6.7, 6.8, 6.10.2, 6.10.3, 6.10.6, 6.102
Electrical engineering	IEC 62271-105:2012-09 EN 62271-105:2013-08 DIN EN 62271-105:2013-08	High-voltage switchgear and controlgear – Part 105: Alternating current switch-fuse combinations	6.2, 6.4, 6.5, 6.7, 6.8, 6.102

Testing Field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
	VDE 0671-105:2013-08		
Electrical engineering	IEC 62271-200:2011-10 EN 62271-200:2012-08 DIN EN 62271-200:2012-08 VDE 0671-200:2012-08	High-voltage switchgear and controlgear – Part 200: A.C. metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV	6.2, 6.4, 6.5, 6.7, 6.8, 6.10, 6.102, 6.103, 6.104
Electrical engineering	IEC 62271-203:2011-09 EN 62271-203:2012-12 DIN EN 62271-203:2012-11 VDE 0671-203:2012-11	High-voltage switchgear and controlgear – Part 203: Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV	6.2, (Excluding 6.2.7, 6.2.8) 6.4, 6.5, 6.7, 6.8, 6.10, 6.102, 6.103,
Electrical engineering	IEC 62505-1:2016-02	Railway applications – Fixed installations – requirements for AC switchgear – Part 1: Circuit-breakers with nominal voltage above 1 kV	7.2, 7.4
Electrical engineering	IEC 62505-2:2016-02	Railway applications – Fixed installations – requirements for AC switchgear – Part 2: Disconnectors, earthing switches and switches with nominal voltage above 1 kV	7, 7.1, 7.2, 7.5
Electrical engineering	IEEE C37.100.1:2007	Common Requirement for High Voltage Power Switchgear Rated Above 1000 V	6.2 (Excluding 6.2.2, 6.2.7, 6.2.8), 6.4, 6.5, 6.7.1, 6.8 (Excluding 6.8.4), 6.10

Testing Field	Standard / In-House Procedure / Version	Title of Standard or In-House Procedure (Deviations / Modifications of Standard)	Test Range / Restrictions
Electrical engineering	IEEE C37.09:1999	IEEE Standard Test Procedure for AC High-Voltage Circuit Breakers Rated on a Symmetrical Current Basis	4.3, 4.4 (Excluding 4.4.3.2, 4.4.5, 4.4.6, 4.4.7), 4.13, 4.14, 4.17
Electrical engineering	IEEE C37.013:1997	IEEE Standard for AC High-Voltage Generator Circuit Breakers Rated on Symmetrical Current Basis	6.2.1, 6.2.2, 6.2.10
Electrical engineering	IEEE C37.20.2-1999	IEEE Standard for Metal-Clad Switchgear	6.2.1 (Excluding 6.2.1.4), 6.2.2, 6.2.6
Electrical engineering	IEEE C37.20.3:2013	IEEE Standard for Metal-Enclosed Interrupter Switchgear (1 kV – 38 kV)	6.2 (Excluding 6.2.7, 6.2.8), 6.4, 6.5, 6.7, 6.8, 6.10, 6.12, 6.14.1
Electrical engineering	IEEE C37.20.4:2013	IEEE Standard for Indoor AC Switches (1 kV – 38 kV) for Use in Metal-Enclosed Switchgear	6.2 (Excluding 6.2.2, 6.2.7, 6.2.8), 6.4, 6.5, 6.7, 6.8, 6.12
High-voltage Testing			
Electrical engineering	IEC 60060-1:2010 DIN EN 60060-1:2011 EN 60060-1:2010	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	IEC 61180:2016 DIN EN 61180:2017 EN 61180:2016	High-voltage test techniques for low-voltage equipment – Definitions, test and procedure requirements, test equipment	
Electrical engineering	IEC 60270:2000+AMD1:2015 DIN EN 60270:2016 EN 60270:2001 + A1:2016	High-voltage test techniques – Partial discharge measurements (IEC 60270:2000 + Cor.:2001 + A1:2015)	

Abbreviations used:

ANSI American National Standards Institute
CDV Committee draft for vote
CSA Canadian Standards Association
DIN German Institute for Standardisation Registered Association
EN European Standard
IEC International Electrotechnical Commission
IEEE Institute of Electrical and Electronics Engineers
ISO International Organization for Standardization
NEMA National Electrical Manufacturers Association
TS Technical Specification