

Deutsche Akkreditierungsstelle

Annex to the Accreditation Certificate D-PL-19413-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 13.12.2023

Date of issue: 06.03.2024

Holder of accreditation certificate:

**HSP Hochspannungsgeräte GmbH
Camp-Spich-Straße 18, 53842 Troisdorf**

with the location

**HSP Hochspannungsgeräte GmbH
Hochspannungs-Prüflaboratorium
Camp-Spich-Straße 18, 53842 Troisdorf**

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:

AC voltage, DC voltage, impulse voltages and thermal and mechanical testings on high-voltage 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.

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

Test area	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Electrical engineering	IEC 60137:2008 EN 60137:2008	Insulated bushings for alternating voltages above 1000 V	All tests except: 8.6.1 Emission test The proof is provided according to 8.6.1.3 via a partial discharge measurement. 7.2.3 Seismic test and artificial pollution 8.8 Verification of thermal short current
Electrical engineering	DIN EN 60137:2009	Isolierte Durchführungen für Wechselspannungen über 1000 V	All tests except: 8.6.1 Emission test The proof is provided according to 8.6.1.3 via a partial discharge measurement. 7.2.3 Seismic test and artificial pollution 8.8 Verification of thermal short current
Electrical engineering	IEC 60137:2017 EN 60137:2017	Insulated bushings for alternating voltages above 1000 V	All tests except: 7.2.4 Seismic test and artificial pollution test 8.7.1 Emission test The proof is provided according to 8.7.1.3 via a partial discharge measurement. 8.9 Verification of thermal short current
Electrical engineering	DIN EN 60137:2018	Isolierte Durchführungen für Wechselspannungen über 1000 V (IEC 60137:2017); Deutsche Fassung EN 60137:2017	All tests except: 7.2.4 Seismic test and artificial pollution test 8.7.1 Emission test The proof is provided according to 8.7.1.3 via a partial discharge measurement. 8.9 Verification of thermal short current

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Electrical engineering	IEC 62199:2004 EN 62199:2004	Bushings for d.c. application	
Electrical engineering	DIN EN 62199:2004	Durchführungen für Gleichspannungsanwendungen (IEC 62199:2004); Deutsche Fassung EN 62199:2004	
Electrical engineering	IEC/IEEE 65700-19-03 Edition 1.0 2014-07	Bushings for d.c. application	All tests except: 8.4.1 Emission test The proof is provided according to 8.4.1.3 via a partial discharge measurement. 10.1 Artificial pollution test
Electrical engineering	IEEE C 57.19.00:2004	Requirements and test procedures for outdoor apparatus bushings	
Electrical engineering	IEEE C 57.19.01:2000	Standard performance characteristics and dimensions for outdoor apparatus bushings	
Electrical engineering	IEEE C 57.19.03:1996	IEEE Standard requirements, terminology and test code for bushings for dc applications	
Electrical engineering	IEC 60060-1:2010 EN 60060-1:2010	High voltage test techniques. Part 1: General definitions and test requirements	U: 1800 kV AC LI: ± 3500 kV SI: ± 2500 kV U: ± 2200 kV DC Iac/dc: 10 kA
Electrical engineering	DIN EN 60060-1:2011	Hochspannungs-Prüftechnik - Teil 1: Allgemeine Begriffe und Prüfbedingungen (IEC 60060-1:2010); Deutsche Fassung EN 60060-1:2010	U: 1800 kV AC LI: ± 3500 kV SI: ± 2500 kV U: ± 2200 kV DC Iac/dc: 10 kA
Electrical engineering	IEC 60270:2000 EN 60270:2000	High-voltage test techniques – Partial discharge measurement	
Electrical engineering	DIN EN 60270:2000	Hochspannungs-Prüftechnik – Teilentladungsmessungen	

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Test area	Standard / in house procedure / Version	Title of standard or in house procedure (deviations / modifications of standard)	Test area / reductions
Electrical engineering	DIN EN 60270:2016	Hochspannungs-Prüftechnik - Teilentladungsmessungen (IEC 60270:2000 + Cor.:2001 + A1:2015); Deutsche Fassung EN 60270:2001 + A1:2016	
Electrical engineering	IEC 60270 Ed 3.1 2015-11	High-voltage test techniques - Partial discharge measurements (IEC 60270:2000 + Cor.:2001 + A1:2015)	

Abbreviations used:

DIN	Deutsches Institut für Normung e.V. – German institute for standardization
EN	Europäische Norm – European Standard
IEC	International Electrotechnical Commission
ISO	International Organization for Standardisation

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