EA MLA Signatory
Český institut pro akreditaci, o.p.s.
(Czech Accreditation Institute)
Hájkova 2747/22, Žižkov, 130 00 Praha 3

issues

according to section 16 of Act No. 22/1997 Coll., on technical requirements for products and on changes and amendments to some Acts, as amended

CERTIFICATE OF ACCREDITATION

No. **113/2026**

EGU - HV Laboratory a.s.
with registered office Podnikatelská 267, 190 11 Praha 9 - Běchovice
Company Registration No. 25634330

for the Testing Laboratory No. **1029**
EGU HV LABORATORY

Scope of accreditation:

Voltage, current, electromagnetic, mechanical and material tests of equipment for the generation, transmission and distribution of electrical energy to the extent as specified in the appendix to this Certificate.

This Certificate of Accreditation is a proof of accreditation issued on the basis of assessment of fulfillment of the accreditation criteria in accordance with

ČSN EN ISO/IEC 17025:2018

In its activities performed within the scope and for the period of validity of this Certificate, the abovementioned Accredited Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the Accredited Body meets the specified accreditation requirements in accordance with the relevant regulations applicable to the activity of an accredited conformity assessment body.

This Certificate of Accreditation replaces, to the full extent, Certificate No.: 8/2025 of 09/01/2025, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **11/03/2031**

Prague: 11/03/2026

Český institut pro akreditaci, o.p.s.
CAI

Signed in the Czech original:
Gor Petrosjan on 11/03/2026

Jan Velíšek
Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute

This translation of the Czech original has been issued by: Eliška Frycová

The Appendix is an integral part of
Certificate of Accreditation No: 113/2026 of 11/03/2026

Accredited entity according to ČSN EN ISO/IEC 17025:2018:

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The laboratory applies a flexible approach to the scope of accreditation.
The current list of activities carried out within the flexible scope is available on the laboratory's website https://www.eguhv.com/testing-rd/#testing in the form of the „List of activities within the flexible scope of accreditation".
The laboratory provides opinions and interpretations of the test results.

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	**DC voltage tests**			
1.1	DC voltage tests	IEC 60060-1 ed. 4.0, cl. 5; ČSN EN IEC 60060-1 ed. 2, cl. 5; IEEE 4, cl. 7; IEC 61325 ed. 1.0, cl. 15	Equipment with highest voltage for equipment above 1 kV	A, D
1.2	DC voltage tests	IEC 60077-1 ed. 2.0, cl. 9.3.3; ČSN EN 60077-1 ed. 2, cl. 9.3.3; IEC 60077-2 ed. 2.0, cl. 9.3.3; ČSN EN 60077-2 ed. 2, cl. 9.3.3; EN 50124-1, cl. 7.5; ČSN EN 50124-1, ed. 2, cl. 7.5	Railway equipment	A, D
1.3	DC voltage tests	IEC 61442 ed. 3.0, cl. 6; ČSN EN IEC 61442 ed. 2, cl. 6; IEC 60502-4 ed. 4.0; ČSN 34 7006 ed. 3; HD 629.1 S3, cl. 7; HD 629.2 S3, cl. 8; ČSN 34 7007 ed. 3, cl. 7	Cable accessories	A, D
1.4	DC voltage tests	IEC 62497-1 ed. 1.1, cl. 7.5	Switchgear and controlgear	A, D
1.5	DC voltage tests	IEC 62848-1 ed. 1.0, cl. 6.2.5	Railway applications – DC metal-oxide surge arresters	A, D
1.6	DC voltage tests	IEC 60358-1 ed. 1.0, cl. 9.2.3, 10.2.1.2, 10.4; ČSN EN 60358-1, cl. 9.2.3, 10.2.1.2, 10.4	Coupling capacitors and capacitive dividers	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1.7	DC voltage tests	ČSN IEC 60840, Annex H.3.2.2, H.3.2.3, H.4.1; IEC 60840 ed. 5.1, Annex H.3.3.2, H.3.3.3, H.4.2; HD 632 S3, Annex G 4.3.1	Power cables from 30 kV to 150 kV	A, D
1.8	DC voltage tests	IEC 62067 ed. 3.0, Annex H.3.3.2, H.3.3.3	Power cables from 150 kV to 500 kV	A, D
2	**AC voltage tests**			
2.1	AC voltage tests	IEC 60060-1 ed. 4.0, cl. 6; ČSN EN IEC 60060-1 ed. 2, cl. 6; IEEE 4, cl. 6	Equipment with highest voltage for equipment above 1 kV	A, D
2.2	AC voltage tests	IEEE Std. 386, cl. 7.5.1	Separable insulated connectors for voltage systems over 600 V	A, D
2.3	AC voltage tests	IEC 60076-3 ed. 3.1, cl. 10, 11, 12; ČSN EN 60076-3 ed. 2, cl. 10, 11, 12	Power transformers	A, D
2.4	AC voltage tests	IEC 60077-1 ed. 2.0, cl. 9.3.3; ČSN EN 60077-1 ed. 2, cl. 9.3.3; IEC 60077-2 ed. 2.0, cl. 9.3.3; ČSN EN 60077-2 ed. 2, cl. 9.3.3; IEC 61992-3 ed. 2.0, cl. 8.3.3; EN 50124-1, cl. 7.4; ČSN EN 50124-1 ed. 2, cl. 7.4; ČSN EN 50345 ed. 2, cl. 6.2.3, 6.3.3	Railway equipment	A, D
2.5	AC voltage tests	IEC 62848-1 ed. 1.0, cl. 6.2.3	Railway applications – DC metal-oxide surge arresters	A, D
2.6	AC voltage tests	ČSN EN 50123-1 ed. 2, cl. 7.5.2	Railway applications – DC switchgear	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2.7	AC voltage tests	IEC 60099-4 ed. 3.0, cl. 8.2, 11.8.2; ČSN EN 60099-4 ed. 3, cl. 8.2, 11.8.2; ČSN EN IEC 60099-8 ed. 2, cl. 8.2.3.3; ČSN EN 60099-9, cl. 9.2; IEEE Std. C62.11, cl. 8.1	Metal-oxide surge arresters	A, D
2.8	AC voltage tests	EN 3-7+A1, cl. 9, Annex C; ČSN EN 3-7+A1, cl. 9, Annex C	Portable extinguishers	A, D
2.9	AC voltage tests	IEC 60137 ed. 7.0, cl. 8.2, 8.3, 9.4, 9.6; ČSN EN 60137 ed. 4, cl. 8.2, 8.3, 9.4, 9.6; IEEE Std. C57.19.01, tab. 1, A.1; IEEE Std. C57.19.00, cl. 7.2, 7.4	Bushings	A, D
2.10	AC voltage tests	IEC 60168, ed. 4.2, cl. 4, 4.7, 4.8; ČSN EN 60168, cl. 4, 4.7, 4.8; AS 4398.2-2005, cl. 4, 4.7, 4.8; CAN/CSA C156.1-18, cl. 9.2.3	Station post insulators	A, D
2.11	AC voltage tests	IEC 60076-6 ed. 1.0, cl. 11.8.8; ČSN IEC 60076-6, cl. 11.8.8	Reactors	A, D
2.12	AC voltage tests	IEC 60358-1 ed. 1.0, cl. 9.2.3, 9.2.5, 10.2.1.1; ČSN EN 60358-1, cl. 9.2.3, 9.2.5, 10.2.1.1	Coupling capacitors and capacitive dividers	A, D
2.13	AC voltage tests	IEC 60383-1 ed. 5.0, cl. 13; ČSN EN IEC 60383-1, cl. 4, 13; ANSI C29.3, cl. 8.2.1, 8.2.2	Ceramic and glass insulators	A, D
2.14	AC voltage tests	IEC 60383-2 ed. 1.0, cl. 2, 10; ČSN EN 60383-2, cl. 2, 10	Insulator strings and insulator sets	A, D
2.15	AC voltage tests	IEC 60660 ed. 2.0, cl. 2, 2.5, 3.4; ČSN EN 60660, cl. 2, 2.5, 3.4	Post insulators of organic materials	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2.16	AC voltage tests	IEC 62271-103 ed. 2.0, cl. 7.2; IEC 62271-104, ed. 3.0, cl. 7.2; IEC 62271-1 ed. 2.1, cl. 7.2, Annex E; ČSN EN 62271-1 ed. 2, cl. 7.2, Annex E; ČSN EN IEC 62271-103 ed. 2, cl. 7.2; ČSN EN 62271-104 ed. 3, cl. 7.2; IEEE Std. C37.30.1, cl. 7.2, 7.2.2	Switchgear and controlgear	A, D
2.17	AC voltage tests	IEC 61057 ed. 2.0, cl. 6.6, 6.7; ČSN EN 61057 ed. 2, cl. 6	Insulating working platforms	A, D
2.18	AC voltage tests	IEC 61109 ed. 3.0, cl. 10, 10.1. 10.2., tab. 4; ČSN EN 61109, cl. 11, 11.1, tab. 3	Composite insulators	A, D
2.19	AC voltage tests	IEC 61869-1 ed. 2.0, cl. 7.2.4, 7.3.1, 7.3.3, 7.3.4; ČSN EN IEC 61869-1 ed. 2, cl. 7.2.4, 7.3.1, 7.3.3, 7.3.4; IEC 61869-2 ed. 1.0, cl. 7.3.1; ČSN EN 61869-2, cl., 7.3.1	Instrument transformers	A, D
2.20	AC voltage tests	IEC 61869-3 ed. 1.0, cl. 7.3.1; ČSN EN 61869-3, cl. 7.3.1	Instrument transformers – inductive voltage transformers	A, D
2.21	AC voltage tests	IEC 61869-4 ed. 1.0, cl. 7.3.1	Instrument transformers – combined transformers	A, D
2.22	AC voltage tests	IEC 61869-5 ed. 1.0, cl. 7.2.4, 7.3.1; ČSN EN 61869-5, cl. 7.2.4, 7.3.1	Instrument transformers – capacitor voltage transformers	A, D
2.23	AC voltage tests	IEC 61952 ed. 2.0, cl. 11, tab. 3; ČSN EN 61952 ed. 2, cl. 11, tab. 3; CSA C411.6-16, cl. 6.2	Composite line post insulators for overhead lines	A, D
2.24	AC voltage tests	IEC 62231 ed. 1.0, cl. 9.2.2; ČSN EN 62231, cl. 9.2.2; ANSI C29.19, cl. 8.1; CAN/CSA C156.2-18, cl. 6.2	Composite station post insulators	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2.25	AC voltage tests	IEC 62271-100 ed. 3.1, cl. 6.2, 7.1, 7.2; ČSN EN IEC 62271-100 ed. 3, cl. 6.2, 7.1, 7.2	High-voltage alternating-current circuit breakers	A, D
2.26	AC voltage tests	IEC 62271-102 ed. 2.0, cl. 7.2, 8.1, 8.2; ČSN EN IEC 62271-102 ed. 2, cl. 7.2, 8.1, 8.2; IEC 62497-1 ed. 1.1, cl. 7.4	Switchgear and controlgear	A, D
2.27	AC voltage tests	IEC 62271-105 ed. 3.0, cl. 7.2; ČSN EN IEC 62271-105 ed. 3, cl. 7.2; IEEE Std. C37.42, cl. 6.1	Alternating-current switch-fuse combinations	A, D
2.28	AC voltage tests	IEEE C37.41, cl. 8.2, 8.3	Fuses and accessories over 1 kV	A, D
2.29	AC voltage tests	IEC 62271-200 ed. 3.1, cl. 7.2, 8.2; ČSN EN IEC 62271-200 ed. 3, cl. 7.2, 8.2	Metal-enclosed switchgear and controlgear	A, D
2.30	AC voltage tests	IEC 62271-203 ed. 3.0, cl. 7.2, 8.1; ČSN EN IEC 62271-203 ed. 3, cl. 6.2, 7.1; IEC 62271-1 ed. 2.1, cl. 7.2, 8.3	Gas-insulated metal-enclosed switchgear	A, D
2.31	AC voltage tests	IEC 62772 ed. 2.0, cl. 9.4.5, 9.4.6	Composite hollow core station post insulators	A, D
2.32	AC voltage tests	ANSI C29.1, cl. 4.2, 4.3, 4.4, 4.5	Insulators	A, D
2.33	AC voltage tests	ANSI C29.2A, cl. 8.2.3, 8.2.4; ANSI C29.2B, cl. 8.2.1, 8.2.2	Suspension type insulators – porcelain or glass	A, D
2.34	AC voltage tests	ANSI C29.4, cl. 8.2.1, 8.2.2	Porcelain insulators	A, D
2.35	AC voltage tests	ANSI C29.5, cl. 8.2.1, 8.2.2; ANSI C29.6, cl. 8.2.1, 8.2.2; ANSI C29.7, cl. 8.2.1, 8.2.2	Porcelain insulators (pin type & line-post type)	A, D
2.36	AC voltage tests	ANSI C29.9, cl. 8.2.1	Ceramic insulators – apparatus and post-type	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2.37	AC voltage tests	ANSI C29.11, cl. 8.1, 8.2.1, 8.2.2, 8.2.3, 8.2.4	Composite suspension insulators for overhead lines	A, D
2.38	AC voltage tests	ANSI C29.13, cl. 9.1, 9.2	Composite insulators of distribution dead-end type	A, D
2.39	AC voltage tests	ANSI C.29.17, cl. 8.1, 8.2; ANSI C29.18, cl. 9.1,9.2	Composite line post insulators for overhead lines	A, D
2.40	AC voltage tests	CSA C411.1, cl. 6.3, 6.4	Suspension insulators	A, D
2.41	AC voltage tests	ANSI C.29.12, cl. 9.1, 9.2; CSA C411.4-16, cl. 6.3; CSA C411.5-16, cl. 6.2	Composite suspension insulators	A, D
2.42	AC voltage tests	IEC 61442 ed. 3.0, cl. 5; ČSN EN IEC 61442 ed. 2, cl. 4; IEC 60502-4 ed. 4.0; ČSN 34 7006 ed. 3; HD 629.1 S3, cl. 7; HD 629.2 S3, cl. 8; ČSN 34 7007 ed. 3, cl. 7	Cable accessories	A, D
2.43	AC voltage tests	IEC 62271-103 ed. 2.0, cl. 6.2; IEC 62271-1 ed. 2.1, cl. 7.2; ČSN EN IEC 62271-103 ed. 2, cl. 6.2	Switches	A, D
2.44	AC voltage tests	ČSN EN IEC 62271-213, cl. 7.3.3, 7.3.4, 7.4, 7.5, 7.6, 7.7; ČSN EN IEC 62271-215, cl. 7.4.3, 7.4.4, 7.5	Voltage detecting systems (VDS)	A, D
2.45	AC voltage tests	ČSN IEC 60502-2, cl. 16.4, 18.2.9; ČSN IEC 60502-1, cl. 17.4; NEN-HD 620 S3, cl. 3.3; HD 605-S3, cl. 3.2.1, 3.2.5	Power cables from 1 kV up to 30 kV	A, D
2.46	AC voltage tests	ČSN IEC 60840, cl. 9.3, 12.4.7; IEC 60840 ed. 5.1, cl. 9.3, 12.4.7; VDE 0276-632, cl. 12.4.7; HD 632 S3, cl. 9.3, 12.4.7	Power cables from 30 kV to 150 kV	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2.47	AC voltage tests	IEC 62067 ed. 3.0, cl. 9.3, 12.4.7.2	Power cables from 150 kV to 500 kV	A, D
3	**Tests with lightning impulse voltage**			
3.1	Tests with lightning impulse voltage	IEC 60060-1 ed. 4.0, cl. 7; ČSN EN IEC 60060-1 ed. 2, cl. 7; IEEE 4, cl. 8	Equipment with highest voltage for equipment above 1 kV	A, D
3.2	Tests with lightning impulse voltage	IEEE Std. 386, cl. 7.5.3	Separable insulated connectors for voltage systems over 600 V	A, D
3.3	Tests with lightning impulse voltage	IEC 60076-3 ed. 3.1, cl. 13; ČSN EN 60076-3 ed. 2, cl. 13; IEC 60076-4 ed. 1.0, cl. 7, 9.1; ČSN EN 60076-4, cl. 7, 9.1	Power transformers	A, D
3.4	Tests with lightning impulse voltage	IEC 60077-1 ed. 2.0, cl. 9.3.3; ČSN EN 60077-1 ed. 2, cl. 9.3.3; IEC 60077-2 ed. 2.0, cl. 9.3.3; ČSN EN 60077-2 ed. 2, cl. 9.3.3; IEC 61992-3 ed. 2.0, cl. 8.3.3; EN 50124-1, cl. 7.3; ČSN EN 50124-1 ed. 2, cl. 7.3; ČSN EN 50345 ed. 2, cl. 6.3.2	Railway equipment	A, D
3.5	Tests with lightning impulse voltage	IEC 60099-4 ed. 3.0, cl. 8.2, 11.8.2; ČSN EN 60099-4 ed. 3, cl. 8.2, 11.8.2; ČSN EN IEC 60099-8 ed. 2, cl. 8.2.2, 8.4, cl. 10.5.3; ČSN EN 60099-9, cl. 9.2; IEEE Std. C62.11, cl. 8.1	Metal-oxide surge arresters	A, D
3.6	Tests with lightning impulse voltage	IEC 60137 ed. 7.0, cl. 8.4, 9.3; ČSN EN 60137 ed. 4, cl. 8.4, 9.3; IEEE Std. C57.19.01, tab. 1, A.1; IEEE Std. C57.19.00, cl. 7.2	Bushings	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
3.7	Tests with lightning impulse voltage	IEC 60168 ed. 4.2, cl. 4, 4.5; ČSN EN 60168, cl. 4, 4.5; AS 4398.2-2005, cl. 4, 4.5; CAN/CSA C156.1-18, cl. 9.2.2	Station post insulators	A, D
3.8	Tests with lightning impulse voltage	IEC 60076-4 ed. 1.0, cl. 7, 9.1; IEC 60076-6 ed. 1.0, cl. 11.8.8; ČSN EN 60076-4, cl. 7, 9.1; ČSN EN 60076-6, cl. 11.8.8	Reactors	A, D
3.9	Tests with lightning impulse voltage	IEC 60358-1 ed. 1.0, cl. 10.1; ČSN EN 60358-1, cl. 10.1	Coupling capacitors and capacitive dividers	A, D
3.10	Tests with lightning impulse voltage	IEC 60383-1 ed. 5.0, cl. 12; ČSN EN IEC 60383-1, cl. 4, 12; IEC 61325 ed. 1, cl. 14	Ceramic and glass insulators	A, D
3.11	Tests with lightning impulse voltage	IEC 60383-2 ed. 1.0, cl. 2, 9; ČSN EN 60383-2, cl. 2, 9	Insulator strings and insulator sets	A, D
3.12	Tests with lightning impulse voltage	IEC 60660 ed. 2.0, cl. 2, 2.4, 3.3; ČSN EN 60660, cl. 2, 2.4, 3.3	Post insulators of organic materials	A, D
3.13	Tests with lightning impulse voltage	IEC 62271-103 ed. 2.0, cl. 7.2; IEC 62271-104 ed. 3.0, cl. 7.2; IEC 62271-1 ed. 2.1, cl. 7.2, Annex E; ČSN EN 62271-1 ed. 2, cl. 7.2, Annex E; ČSN EN IEC 62271-103 ed. 2, cl. 7.2; ČSN EN IEC 62271-104 ed. 3, cl. 7.2; IEEE Std. C37.30.1, cl. 7.2, 7.2.3, 7.2.4	Switchgear and controlgear	A, D
3.14	Tests with lightning impulse voltage	IEC 61109 ed. 3.0, cl. 10, 10.1. 10.2. tab.4; ČSN EN 61109, cl. 11, 11.1, tab. 3	Composite insulators	A, D
3.15	Tests with lightning impulse voltage	ČSN EN IEC 62271-213, cl. 7.3.2; ČSN EN IEC 62271-215, cl. 7.4.2	Voltage detecting systems (VDS)	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
3.16	Tests with lightning impulse voltage	IEC 61869-1 ed. 2.0, cl. 7.2.3, 7.4.1, 7.4.2; ČSN EN IEC 61869-1 ed. 2, cl. 7.2.3, 7.4.1, 7.4.2; IEC 61869-2 ed. 1.0, cl. 7.2.3, 7.4.1, 7.4.2; ČSN EN 61869-2, cl. 7.2.3, 7.4.1, 7.4.2	Instrument transformers	A, D
3.17	Tests with lightning impulse voltage	IEC 61869-3 ed. 1.0, cl. 7.2.3, 7.2.3.2; ČSN EN 61869-3, cl. 7.2.3, 7.2.3.2	Instrument transformers – inductive voltage transformers	A, D
3.18	Tests with lightning impulse voltage	IEC 61869-4 ed. 1.0, cl. 7.2.3	Instrument transformers – combined transformers	A, D
3.19	Tests with lightning impulse voltage	IEC 61869-5 ed. 1.0, cl. 7.2.3, 7.4.1; ČSN EN 61869-5, cl. 7.2.3, 7.4.1	Instrument transformers – capacitor voltage transformers	A, D
3.20	Tests with lightning impulse voltage	IEC 61952 ed. 2.0, cl. 11, tab. 3; ČSN EN 61952 ed. 2, cl. 11, tab. 3; ANSI C29.17, cl. 8.3; ANSI C29.18, cl. 9.3; CSA C411.6-16, cl. 6.3	Composite line post insulators for overhead lines	A, D
3.21	Tests with lightning impulse voltage	IEC 62231 ed. 1.0, cl. 9.2.1; ČSN EN 62231, cl. 9.2.1; ANSI C29.19, cl. 8.2, 8.3; CAN/CSA C156.2-18, cl. 6.3	Composite station post insulators	A, D
3.22	Tests with lightning impulse voltage	IEC 62271-100 ed. 3.1, cl. 7.2; ČSN EN IEC 62271-100 ed. 3, cl. 7.2	High-voltage alternating-current circuit breakers	A, D
3.23	Tests with lightning impulse voltage	IEC 62271-102 ed. 2.0, cl. 7.2; ČSN EN IEC 62271-102 ed. 2, cl. 7.2; IEC 62497-1 ed. 1.1, cl. 7.3	Switchgear and controlgear	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
3.24	Tests with lightning impulse voltage	IEC 62271-105 ed. 3.0, cl. 7.2; ČSN EN IEC 62271-105 ed. 3, cl. 7.2; IEC 62271-1 ed. 2.1, cl. 7.2, Annex E; IEEE Std. C37.42, cl. 6.1	Alternating-current switch-fuse combinations	A, D
3.25	Tests with lightning impulse voltage	IEEE C37.41, cl. 8.5	Fuses and accessories over 1 kV	A, D
3.26	Tests with lightning impulse voltage	IEC 62271-200 ed. 3.1, cl. 7.2, 8.2; ČSN EN IEC 62271-200 ed. 3, cl. 7.2, 8.2	Metal-enclosed switchgear and controlgear	A, D
3.27	Tests with lightning impulse voltage	IEC 62271-203 ed. 3.0, cl. 7.2, 8.2; ČSN EN IEC 62271-203 ed. 3, cl. 7.2, 8.2	Gas-insulated metal-enclosed switchgear	A, D
3.28	Tests with lightning impulse voltage	IEC 62772 ed. 2.0, cl. 9.4.3	Composite hollow core station post insulators	A, D
3.29	Tests with lightning impulse voltage	ANSI C29.1, cl. 4.7, 4.8	Insulators	A, D
3.30	Tests with lightning impulse voltage	ANSI C29.2A, cl. 8.2.5; ANSI C29.2B, cl. 8.2.3	Suspension type insulators – porcelain or glass	A, D
3.31	Tests with lightning impulse voltage	ANSI C29.5, cl. 8.2.3; ANSI C29.6, cl. 8.2.3; ANSI C29.7, cl. 8.2.3	Porcelain insulators (pin type & line-post type)	A, D
3.32	Tests with lightning impulse voltage	ANSI C29.9, cl. 8.2.2, 8.2.3	Ceramic insulators – apparatus and post-type	A, D
3.33	Tests with lightning impulse voltage	ANSI C29.11, cl. 8.1, 8.2.6, 8.2.7	Composite suspension insulators for overhead lines	A, D
3.34	Tests with lightning impulse voltage	ANSI C29.13, cl. 9.3	Composite insulators of distribution dead-end type	A, D
3.35	Tests with lightning impulse voltage	CSA C411.1, cl. 6.5	Suspension insulators	A, D

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3.36	Tests with lightning impulse voltage	ANSI C29.12, cl. 9.3; CSA C411.4-16, cl. 6.2; CSA C411.5-16, cl. 6.3	Composite suspension insulators	A, D
3.37	Tests with lightning impulse voltage	IEC 61442 ed. 3.0, cl. 7; ČSN EN IEC 61442 ed. 2, cl. 6; IEC 60502-4 ed. 4.0; ČSN 34 7006 ed. 3; HD 629.1 S3, cl. 7; HD 629.2 S3, cl. 8; ČSN 34 7007 ed. 3, cl. 7	Cable accessories	A, D
3.38	Tests with lightning impulse voltage	ČSN EN 50123-1 ed. 2, cl. 7.5.1	Railway applications – DC switchgear	A, D
3.39	Tests with lightning impulse voltage	IEC 62271-103 ed. 2.0, cl. 6.2; ČSN EN IEC 62271-103 ed. 2, cl. 6.2	Switches	A, D
3.40	Tests with lightning impulse voltage	IEC 60230 ed. 2.1, cl. 6, 10, Annex A; ČSN EN IEC 60230 ed. 2, cl. 6, 10, Annex A	Cables and accessories	A, D
3.41	Tests with lightning impulse voltage	ČSN IEC 60502-2, cl. 18.2.8; ČSN IEC 60502-1, cl. 17.5; NEN-HD 620 S3, cl. 3.3; HD 605-S3, cl. 3.2.4	Power cables from 1 kV up to 30 kV	A, D
3.42	Tests with lightning impulse voltage	ČSN IEC 60840, cl. 12.4.7, Annex H.3.2.4, H.3.2.5, H.4.2; IEC 60840 ed. 5.1, cl. 12.4.7, Annex H.3.2.4, H.3.2.5, H.4.2; VDE 0276-632, cl. 12.4.7; HD 632 S3, cl. 12.4.7, Annex G 4.3.2	Power cables from 30 kV to 150 kV	A, D
3.43	Tests with lightning impulse voltage	IEC 62067 ed. 3.0, cl. 12.4.7.2, Annex H.3.3.4, H.3.3.5	Power cables from 150 kV to 500 kV	A, D
4	**Tests with switching impulse voltage**			
4.1	Tests with switching impulse voltage	IEC 60060-1 ed. 4.0, cl. 8; ČSN EN IEC 60060-1 ed. 2, cl. 8; IEEE 4, cl. 8	Equipment with highest voltage for equipment above 1 kV	A, D

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4.2	Tests with switching impulse voltage	IEC 61869-2 ed. 1.0, cl. 7.2.3, 7.2.4; ČSN EN 61869-2, cl. 7.2.3, 7.2.4	Instrument transformers	A, D
4.3	Tests with switching impulse voltage	IEC 60076-3 ed. 3.1, cl. 14; ČSN EN 60076-3 ed. 2, cl. 14; IEC 60076-4 ed. 1.0, cl. 8, 9.2; ČSN EN 60076-4, cl. 8, 9.2	Power transformers	A, D
4.4	Tests with switching impulse voltage	IEC 60099-4 ed. 3.0, cl. 8.2, 11.8.2; ČSN EN 60099-4 ed. 3, cl. 8.2, 11.8.2; ČSN EN IEC 60099-8 ed. 2, cl. 8.2.3.2; ČSN EN 60099-9, cl. 9.2; IEEE Std. C62.11, cl. 8.1	Metal-oxide surge arresters	A, D
4.5	Tests with switching impulse voltage	IEC 60137 ed. 7.0, cl. 8.5; ČSN EN 60137 ed. 4, cl. 8.5; IEEE Std. C57.19.01, tab. 1, A.1; IEEE Std. C57.19.00, cl. 7.2	Bushings	A, D
4.6	Tests with switching impulse voltage	IEC 60168 ed. 4.2, cl. 4, 4.6; ČSN EN 60168, cl. 4, 4.6; AS 4398.2-2005, cl. 4, 4.6	Station post insulators	A, D
4.7	Tests with switching impulse voltage	IEC 60358-1, ed. 1.0, cl. 10.2.2; ČSN EN 60358-1, cl. 10.2.2	Coupling capacitors and capacitive dividers	A, D
4.8	Tests with switching impulse voltage	IEC 60383-2 ed. 1.0, cl. 11; ČSN EN 60383-2, cl. 2, 11;	Insulator strings and insulator sets	A, D
4.9	Tests with switching impulse voltage	IEC 62772 ed. 2.0, cl. 9.4.4	Composite hollow core station post insulators	A, D
4.10	Tests with switching impulse voltage	IEC 62271-104 ed. 3.0, cl. 7.2; ČSN EN 62271-104 ed. 3, cl. 7.2; IEC 62271-1 ed. 2.1, cl. 7.2, Annex E; ČSN EN 62271-1 ed. 2, cl. 7.2, Annex E; IEEE Std. C37.30.1, cl. 7.2, 7.2.5	Switchgear and controlgear	A, D
4.11	Tests with switching impulse voltage	IEC 61057 ed. 2.0, cl. 6.6, 6.7; ČSN EN 61057, ed. 2, cl. 6	Insulating working platforms	A, D

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4.12	Tests with switching impulse voltage	IEC 61109 ed. 3.0, cl. 10, 10.1. 10.2. tab. 4; ČSN EN 61109, cl. 11, 11.1, tab. 3	Composite insulators	A, D
4.13	Tests with switching impulse voltage	IEC 61869-1 ed. 2.0, cl. 7.2.3, 7.2.4; ČSN EN IEC 61869-1 ed. 2, cl. 7.2.3, 7.2.4	Instrument transformers	A, D
4.14	Tests with switching impulse voltage	IEC 61869-3 ed. 1.0, cl. 7.2.3.3; ČSN EN 61869-3, cl. 7.2.3.3	Instrument transformers – inductive voltage transformers	A, D
4.15	Tests with switching impulse voltage	IEC 61869-4 ed. 1.0, cl. 7.2.3	Instrument transformers – combined transformers	A, D
4.16	Tests with switching impulse voltage	IEC 61869-5 ed. 1.0, cl. 7.2.3, 7.2.4; ČSN EN 61869-5, cl. 7.2.3, 7.2.4	Instrument transformers – capacitor voltage transformers	A, D
4.17	Tests with switching impulse voltage	IEC 61952 ed. 2.0, cl. 11, tab. 3; ČSN EN 61952 ed. 2, cl. 11, tab. 3;	Composite line post insulators for overhead lines	A, D
4.18	Tests with switching impulse voltage	IEC 62271-100 ed. 3.1, cl. 6.2; ČSN EN IEC 62271-100 ed. 3, cl. 6.2	High-voltage alternating-current circuit breakers	A, D
4.19	Tests with switching impulse voltage	IEC 62271-102 ed. 2.0, cl. 7.2; ČSN EN IEC 62271-102 ed. 2, cl. 7.2	Switchgear and controlgear	A, D
4.20	Tests with switching impulse voltage	IEC 62271-103 ed. 2.0, cl. 7.2; ČSN EN IEC 62271-103 ed. 2, cl. 7.2	Switches and disconnectors Switches	A, D
4.21	Tests with switching impulse voltage	IEC 62271-105 ed. 3.0, cl. 6.2; ČSN EN IEC 62271-105 ed. 3, cl. 6.2	Alternating-current switch-fuse combinations	A, D
4.22	Tests with switching impulse voltage	IEC 62271-200 ed. 3.1, cl. 6.2; ČSN EN IEC 62271-200 ed. 3, cl. 6.2	Metal-enclosed switchgear and controlgear	A, D
4.23	Tests with switching impulse voltage	IEC 62271-203 ed. 3.0, cl. 6.2; ČSN EN IEC 62271-203 ed. 3, cl. 6.2	Gas-insulated metal-enclosed switchgear	A, D

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4.24	Tests with switching impulse voltage	ANSI C29.11, cl. 8.1, 8.2.5	Composite suspension insulators for overhead lines	A, D
4.25	Tests with switching impulse voltage	ČSN EN IEC 60230 ed. 2, cl. 7, 10; IEC 60230 ed. 2.1, cl. 7, 10	Cables and accessories	A, D
4.26	Tests with switching impulse voltage	IEC 62067 ed. 3.0, cl. 12.4.7.1	Power cables from 150 kV to 500 kV	A, D
5	**Combined and composite high voltage tests**			
5.1	Combined and composite high voltage tests	IEC 60060-1 ed. 4.0, cl. 9, 10; ČSN EN IEC 60060-1 ed. 2, cl. 9, 10; IEEE 4, cl. 10	Equipment with highest voltage for equipment above 1 kV	A, D
5.2	Combined and composite high voltage tests	IEEE Std. C37.30.1, cl. 7.2.4	Switchgear and controlgear	A, D
6	**Dielectric artificial pollution tests**			
6.1	Dielectric artificial pollution tests	IEC 60507 ed. 3.0; ČSN EN 60507	Insulators	A, D
6.2	Dielectric artificial pollution tests	IEC/TS 60815-1 ed. 1.0, Annex C	Insulators for overhead lines	A, D
6.3	Dielectric artificial pollution tests	ČSN EN IEC 62271-213, cl. 7.3.5	Voltage detecting systems (VDS)	A, D
6.4	Dielectric artificial pollution tests	IEC 62271-103 ed. 2.0, cl. 7.2.9; IEC 62271-1 ed. 2.1, cl. 7.2.9; ČSN EN 62271-1 ed. 2, cl. 7.2.9; ČSN EN IEC 62271-103 ed. 2, cl. 7.2.9	Switches	A, D
6.5	Dielectric artificial pollution tests	IEC 60099-4 ed. 3.0, cl. 10.8.17.2; ČSN EN 60099-4 ed. 3, cl. 10.8.17.2; IEEE C62.11, cl. 8.7	Metal-oxide surge arresters	A, D
6.6	Dielectric artificial pollution tests	IEC 61109 ed. 3.0, cl. 9.1. 9.2.2; ČSN EN 61109, cl. 10.1, 10.2.2;	Composite insulators	A, D
6.7	Dielectric artificial pollution tests	IEC 61442 ed. 3.0, cl. 14; ČSN EN IEC 61442 ed. 2, cl. 14; IEC 60502-4 ed. 4.0; ČSN 34 7006 ed. 3	Cable accessories	A, D

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6.8	Dielectric artificial pollution tests	IEC 61462 ed. 2.0, cl. 7.3.3; ČSN EN IEC 61462 ed. 2, cl. 7.3.3	Composite hollow insulators	A, D
6.9	Dielectric artificial pollution tests	IEC 61952 ed. 2.0, cl. 10.1, 10.2.2; ČSN EN 61952 ed. 2, cl. 10.1, 10.2.2; CSA C411.6-16, cl. 5.7, method 2	Composite line post insulators for overhead lines	A, D
6.10	Dielectric artificial pollution tests	IEC 62217 ed. 3.0, cl. 9.3.3; ČSN EN 62217 ed. 2, cl. 9.3.3	Polymeric insulators for indoor and outdoor use	A, D
6.11	Dielectric artificial pollution tests	IEC 62772 ed. 2.0, cl. 8.4	Composite hollow core station post insulators	A, D
6.12	Dielectric artificial pollution tests	IEC 62231 ed. 1.0, cl. 8.4; ČSN EN 62231, cl. 8.4; ANSI C29.19, cl. 7.3; CAN/CSA C156.2-18, cl. 5.7	Composite station post insulators	A, D
6.13	Dielectric artificial pollution tests	ČSN EN 50345 ed. 2, cl. 6.2.4	Railway equipment	A, D
6.14	Dielectric artificial pollution tests	ANSI C29.11, cl. 7.3	Composite suspension insulators for overhead lines	A, D
6.15	Dielectric artificial pollution tests	ANSI C29.13, cl. 8.6	Composite insulators of distribution dead-end type	A, D
6.16	Dielectric artificial pollution tests	ANSI C29.17, cl. 7.3	Composite line post insulators for overhead lines	A, D
6.17	Dielectric artificial pollution tests	IEC/TR 62730 ed. 1.0, cl. 7.1	Polymeric insulators for indoor and outdoor use	A, D
6.18	Dielectric artificial pollution tests	ANSI C29.18, cl. 8.6, method 2	Composite line post insulators for overhead lines	A, D

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6.19	Dielectric artificial pollution tests	ANSI C29.12, cl. 8.3; CSA C411.4-16, cl. 5.5, method 2; CSA C411.5-16, cl. 5.7	Composite suspension insulators	A, D
6.20	Dielectric artificial pollution tests	IEEE C37.41, cl. 18.2.3	Fuses and accessories over 1 kV	A, D
7	**Measurement of reference voltage**			
7.1	Measurement of reference voltage	IEC 60099-4 ed. 3.0, cl. 7.2; ČSN EN 60099-4 ed. 3, cl. 7.2	Metal-oxide surge arresters	A, D
8	**Measurement of partial discharges and loss factor**			
8.1	Measurement of partial discharges and loss factor	IEC 60270 ed. 4.0; ČSN EN 60270	Electrical equipment, components and systems tested with AC voltage	A, D
8.2	Measurement of partial discharges and loss factor	IEEE Std. 386, cl. 7.4	Separable insulated connectors for voltage systems over 600 V	A, D
8.3	Measurement of partial discharges and loss factor	IEC 60076-3 ed. 3.1, Annex A; ČSN EN 60076-3 ed. 2, Annex A	Power transformers	A, D
8.4	Measurement of partial discharges and loss factor	IEC 60099-4 ed. 3.0, cl. 9.1 c), d), 12.8.17; ČSN EN 60099-4 ed. 3, cl. 9.1 c), d), 12.8.17	Metal-oxide surge arresters	A, D
8.5	Measurement of partial discharges and loss factor	IEC 60137 ed. 7.0, cl. 8.3, 8.6 9.2, 9.5; ČSN EN 60137 ed. 4, cl. 8.3, 8.6, 9.2, 9.5; IEEE Std. C57.19.01, tab. 5, 6; IEEE Std. C57.19.00, cl. 7.2, 7.4, 7.3.1	Bushings	A, D
8.6	Measurement of partial discharges and loss factor	IEC 60358-1 ed. 1.0, cl. 9.2.2, 9.2.4; ČSN EN 60358-1, cl. 9.2.2, 9.2.4	Coupling capacitors and capacitive dividers	A, D
8.7	Measurement of partial discharges and loss factor	IEC 60660 ed. 2.0, cl. 3.5, 5.4; ČSN EN 60660, cl. 3.5, 5.4	Post insulators of organic materials	A, D
8.8	Measurement of partial discharges and loss factor	IEC 61869-1 ed. 2.0, cl. 7.3.2; ČSN EN IEC 61869-1 ed. 2, cl. 7.3.2	Instrument transformers	A, D

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8.9	Measurement of partial discharges and loss factor	IEC 61869-3 ed. 1.0, cl. 7.3.2, 7.4.3; ČSN EN 61869-3, cl. 7.3.2, 7.4.3	Instrument transformers – inductive voltage transformers	A, D
8.10	Measurement of partial discharges and loss factor	IEC 61869-5 ed. 1.0, cl. 7.3.2, 7.2.501; ČSN EN 61869-5, cl. 7.3.2, 7.2.501	Instrument transformers – capacitor voltage transformers	A, D
8.11	Measurement of partial discharges and loss factor	IEC 62271-200 ed. 3.1, cl. 8.101; ČSN EN IEC 62271-200 ed. 3, cl. 8.101; IEC 62271-203 ed. 3.0, cl. 8.2.102; ČSN EN IEC 62271-203 ed. 3, cl. 8.2.102	Gas-insulated metal-enclosed switchgear	A, D
8.12	Measurement of partial discharges and loss factor	IEC 61442 ed. 3.0, cl. 8; ČSN EN IEC 61442 ed. 2, cl. 8; IEC 60502-4 ed. 4.0; ČSN 34 7006 ed. 3; HD 629.1 S3, cl. 7; HD 629.2 S3, cl. 8; ČSN 34 7007 ed. 3, cl. 7	Cable accessories	A, D
8.13	Measurement of partial discharges and loss factor	ČSN IEC 60502-2, cl. 16.3, 18.2.5, 18.2.6; NEN-HD 620 S3, cl. 3.3; HD 605-S3, cl. 3.10, 3.11	Power cables from 1 kV up to 30 kV	A, D
8.14	Measurement of partial discharges and loss factor	ČSN IEC 60840, cl. 9.2, 12.4.4, 12.4.5; IEC 60840 ed. 5.1, cl. 9.2, 12.4.4, 12.4.5; VDE 0276-632, cl. 12.4.4, 12.4.5; HD 632 S3, cl. 9.2, 12.4.4, 12.4.5	Power cables from 30 kV to 150 kV	A, D
8.15	Measurement of partial discharges and loss factor	IEC 62067 ed. 3.0, cl. 9.2, 12.4.4, 12.4.5	Power cables from 150 kV to 500 kV	A, D
9	**Electromagnetic interference measurement**			
9.1	Electromagnetic interference measurement	TR CISPR 18-2 ed. 3.0, cl. 4.5	Overhead power lines and high-voltage equipment	A, D

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9.2	Electromagnetic interference measurement	IEC 60099-4 ed. 3.0, cl. 8.14; ČSN EN 60099-4 ed. 3, cl. 8.14; IEEE Std. C62.11, cl. 8.10; ČSN EN IEC 60099-8 ed. 2, cl. 10.4; IEC 60099-9 ed. 1.0, cl. 9.9	Metal-oxide surge arresters	A, D
9.3	Electromagnetic interference measurement	IEC 60137 ed. 7.0, cl. 8.7; ČSN EN 60137 ed. 4, cl. 8.7; IEEE Std. C57.19.01, tab. 5; IEEE Std. C57.19.00, cl. 7.2, 7.4	Bushings	A, D
9.4	Electromagnetic interference measurement	IEC 60358-1 ed. 1.0, cl. 10.3; ČSN EN 60358-1, cl. 10.3	Coupling capacitors and capacitive dividers	A, D
9.5	Electromagnetic interference measurement	IEC 60383-1 ed. 5.0, cl. 14	Ceramic and glass insulators	A, D
9.6	Electromagnetic interference measurement	IEC 60437 ed. 3.0; ČSN EN IEC 60437 ed. 2	Insulators	A, D
9.7	Electromagnetic interference measurement	IEC 61284 ed. 2.0, cl. 14; ČSN EN 61284, cl. 14	Fittings for overhead lines	A, D
9.8	Electromagnetic interference measurement	IEC 61854 ed. 2.0, cl. 7.7; ČSN EN IEC 61854 ed. 2, cl. 7.7	Spacers	A, D
9.9	Electromagnetic interference measurement	IEC 61869-1 ed. 2.0, cl. 7.2.5.1; ČSN EN IEC 61869-1 ed. 2, cl. 7.2.5.1	Instrument transformers	A, D
9.10	Electromagnetic interference measurement	ČSN EN IEC 61897 ed. 2, cl. 7.10	Vibration dampers	A, D
9.11	Electromagnetic interference measurement	ČSN EN 62271-1 ed. 2, cl. 7.3, 7.9.1.1; IEC 62271-1 ed. 2.1, cl. 7.3, 7.9.1.1; IEC 62271-104 ed. 3.0, cl. 7.3; ČSN EN IEC 62271-104 ed. 3, cl. 7.3; IEEE Std. C37.30.1, cl. 7.8, 7.9	Switchgear and controlgear	A, D
9.12	Electromagnetic interference measurement	IEC 62271-100 ed. 3.1, cl. 6.3; ČSN EN IEC 62271-100 ed. 3, cl. 6.3	High-voltage alternating-current circuit breakers	A, D

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9.13	Electromagnetic interference measurement	IEC 62271-102 ed. 2.0, cl. 7.3; ČSN EN IEC 62271-102 ed. 2, cl. 7.3	Switchgear and controlgear	A, D
9.14	Electromagnetic interference measurement	IEEE Std. C37.42, cl. 6.4	Alternating-current switch-fuse combinations	A, D
9.15	Electromagnetic interference measurement	IEEE C37.41, cl. 10	Fuses and accessories over 1 kV	A, D
9.16	Electromagnetic interference measurement	ANSI C29.1, cl. 4.9	Insulators	A, D
9.17	Electromagnetic interference measurement	ANSI C29.2A, cl. 8.2.6; ANSI C29.2B, cl. 8.2.4	Suspension type insulators – porcelain or glass	A, D
9.18	Electromagnetic interference measurement	ANSI C29.5, cl. 8.2.4; ANSI C29.6, cl. 8.2.4; ANSI C29.7, cl. 8.2.4	Porcelain insulators (pin type & line-post type)	A, D
9.19	Electromagnetic interference measurement	CAN/CSA C156.1-18, cl. 9.2.5	Station post insulators	A, D
9.20	Electromagnetic interference measurement	ANSI C29.9, cl. 8.2.4	Ceramic insulators – apparatus and post-type	A, D
9.21	Electromagnetic interference measurement	ANSI C29.11, cl. 8.2.8	Composite suspension insulators for overhead lines	A, D
9.22	Electromagnetic interference measurement	ANSI C29.13, cl. 9.4	Composite insulators of distribution dead-end type	A, D
9.23	Electromagnetic interference measurement	ANSI C29.17, cl. 8.4; ANSI C29.18, cl. 9.4; CSA C411.6-16, cl. 6.4	Composite line post insulators for overhead lines	A, D
9.24	Electromagnetic interference measurement	ANSI C29.19, cl. 8.4; CAN/CSA C156.2-18, cl. 6.4	Composite station post insulator	A, D
9.25	Electromagnetic interference measurement	CSA C411.1-16, cl. 6.7	Suspension insulators	A, D
9.26	Electromagnetic interference measurement	ANSI C29.12, cl. 9.4; CSA C411.4-16, cl. 6.4; CSA C411.5-16, cl. 6.4	Composite suspension insulators	A, D

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9.27	Electromagnetic interference measurement	NEMA HV 80036-2016 (R2023)	High-voltage equipment	A, D
9.28	Electromagnetic interference measurement	ANSI/NEMA CC 1-2018, cl. 3.3	Electric power connection for substations	A, D
10	**Impulse voltage puncture test and alternating voltage test**			
10.1	Impulse voltage puncture test and alternating voltage test	IEC 61211 ed. 2, cl. 5; ČSN EN 61211, cl. 5; IEC 60383-1 ed. 5.0, cl. 15; ANSI C29.1, cl. 4.11; ANSI C29.2B, cl. 8.3.5; ANSI C29.5, cl. 8.3.5; IEC 61325 ed. 1.0, cl. 17	Insulators	A, D
10.2	Impulse voltage puncture test and alternating voltage test	ČSN EN 60168, cl. 4.9; CAN/CSA C156.1-18, cl. 9.3.7	Station post insulators	A, D
10.3	Impulse voltage puncture test and alternating voltage test	CSA C411.1-16, cl. 6.6	Suspension insulators	A, D
10.4	Impulse voltage puncture test and alternating voltage test	ČSN EN IEC 60099-8 ed. 2, cl. 10.5.2	Metal-oxide surge arresters	A, D
11	**Dielectric tests of protective and working equipment**			
11.1	Dielectric tests of protective and working equipment	PNE 35 9700 ed. 5, cl. 4, 5	Dielectric protective and working tools	A, D
11.2	Dielectric tests of protective and working equipment	PNE 35 9700 ed. 5, cl. 4, 5; ČSN 35 9701	Handling rods, fuse tongs, salvage hooks	A, D
11.3	Dielectric tests of protective and working equipment	IEC 61243-1 ed. 3, cl. 6, 7; ČSN EN IEC 61243-1 ed. 2, cl. 6, 7; IEC 61243-2 ed. 1.2, cl. 5; ČSN EN 61243-2, cl. 5	Voltage detectors	A, D
11.4	Dielectric tests of protective and working equipment	ČSN EN IEC 62271-213, cl. 7.3.2, 7.3.3, 7.3.4, 7.4, 7.5, 7.6, 7.7, 7.11, 7.13; ČSN EN IEC 62271-215, cl. 7.4.2, 7.4.3, 7.4.4, 7.5, 7.9, 7.10, 7.12	Voltage detecting systems (VDS)	A, D
11.5	Dielectric tests of protective and working equipment	IEC 60832-1 ed. 1.0, cl. 5.7; ČSN EN 60832-1, cl. 5.7	Insulating poles and heads	A, D

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11.6	Dielectric tests of protective and working equipment	IEC 60855-1 ed. 2.0, cl. 5.4; ČSN EN 60855-1, cl. 5.4	Foam-filled insulating tubes and solid bars	A, D
11.7	Dielectric tests of protective and working equipment	IEC 61229 ed. 1.2, cl. 6.4; ČSN EN 61229, cl. 6.4	Fixed protective covers	A, D
11.8	Dielectric tests of protective and working equipment	IEC 61235 ed. 1, cl. 9; ČSN EN 61235, cl. 9	Insulating hollow tubes	A, D
11.9	Dielectric tests of protective and working equipment	IEC 61478 ed. 1, cl. 6.5; ČSN EN 61478, cl. 6.5	Insulating ladders	A, D
11.10	Dielectric tests of protective and working equipment	IEC 61479 ed. 1, cl. 7.4; ČSN EN 61479, cl. 7.4	Flexible conductor covers	A, D
11.11	Dielectric tests of protective and working equipment	ČSN EN 62193, cl. 5, 6; IEC 62193, cl. 5, 6	Telescopic sticks	A, D
12	**Design tests of interface and connection of end fittings**			
12.1	Design tests of interface and connection of end fittings	IEC 60099-4 ed. 3.0, cl. 10.8.11.3.2; ČSN EN 60099-4 ed. 3, cl. 10.8.11.3.2	Metal-oxide surge arresters	A, D
12.2	Design tests of interface and connection of end fittings	IEC 60660 ed. 2.0, cl. 3.10; ČSN EN 60660, cl. 3.10	Post insulators of organic materials	A, D
12.3	Design tests of interface and connection of end fittings	IEC 61109 ed. 3.0, cl. 9.1, 9.2.1, 9.3.2, 9.3.3; ČSN EN 61109, cl. 10.1, 10.2.1, 10.3.1, 10.3.2	Composite insulators	A, D
12.4	Design tests of interface and connection of end fittings	IEC 61462 ed. 2.0, cl. 7.2; ČSN EN IEC 61462 ed. 2, cl. 7.2; IEC 62772 ed. 2.0, cl. 8.2; ČSN EN IEC 62772 ed. 2, cl. 8.2	Composite hollow insulators and station post hollow insulators	A, D
12.5	Design tests of interface and connection of end fittings	IEC 61952 ed. 2.0, cl. 10.1, 10.2.1, 10.3.1; ČSN EN 61952 ed. 2, cl. 10.1, 10.2.1, 10.3.1; CSA C411.6-16, cl. 5.2	Composite line post insulators for overhead lines	A, D
12.6	Design tests of interface and connection of end fittings	IEC 62217 ed. 3.0, cl. 9.2; ČSN EN 62217 ed. 2, cl. 9.2	Polymeric insulators for indoor and outdoor use	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
12.7	Design tests of interface and connection of end fittings	IEC 62231 ed. 1.0, cl. 8.2; ČSN EN 62231, cl. 8.2; ANSI C29.19, cl. 7.1; CAN/CSA C156.2-18, cl. 5.2	Composite station post insulators	A, D
12.8	Design tests of interface and connection of end fittings	ANSI C29.11, cl. 7.1	Composite suspension insulators for overhead lines	A, D
12.9	Design tests of interface and connection of end fittings	ANSI C29.17, cl. 7.1; ANSI C29.18, cl. 8.1	Composite line post insulators for overhead lines	A, D
12.10	Design tests of interface and connection of end fittings	CSA C411.4-16, cl. 5.3; CSA C411.5-16, cl. 5.2; ANSI C29.12, cl. 8.1	Composite suspension insulators	A, D
13	**Test for the core material (dye penetration test and water diffusion test)**			
13.1	Test for the core material (dye penetration test and water diffusion test)	IEC 61109 ed. 3.0, cl. 9.1, 9.2.3; ČSN EN 61109, cl. 10.1, 10.2.3;	Composite insulators	A, D
13.2	Test for the core material (dye penetration test and water diffusion test)	IEC 60383-1 ed. 5.0, cl. 26; IEC 60168 ed. 4.2, cl. 5.6; CAN/CSA C156.1-18, cl. 9.3.8; IEC 61325 ed. 1.0, cl. 31	Ceramic and glass insulators	A, D
13.3	Test for the core material (dye penetration test and water diffusion test)	IEC 61952 ed. 2.0, cl. 10.1, 10.2.3; ČSN EN 61952 ed. 2, cl. 10.1, 10.2.3; CSA C411.6-16, cl. 5.4, 5.5	Composite line post insulators for overhead lines	A, D
13.4	Test for the core material (dye penetration test and water diffusion test)	CSA C310-21, cl. 7.2	Alternating-current switch-fuse combinations	A, D
13.5	Test for the core material (dye penetration test and water diffusion test)	IEC 61462 ed. 2.0, cl. 7.4; ČSN EN IEC 61462 ed. 2, cl. 7.4; IEC 62772 ed. 2.0, cl. 8.5	Composite hollow insulators and station post hollow insulators	A, D
13.6	Test for the core material (dye penetration test and water diffusion test)	IEC 62217 ed. 3.0, cl. 9.4, 9.5; ČSN EN 62217 ed. 2, cl. 9.4; IEC/TR 62039 ed. 2, cl. 4.8	Polymeric insulators for indoor and outdoor use	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
13.7	Test for the core material (dye penetration test and water diffusion test)	ANSI C29.1, cl. 5.4; ANSI C29.2B, cl. 8.3.2; ANSI C29.9, cl. 8.3.2; ANSI C29.5, cl. 8.3.3; ANSI C29.7, cl. 8.3.2	Glass and porcelain insulators	A, D
13.8	Test for the core material (dye penetration test and water diffusion test)	ČSN EN 62155, cl. 7.4	Glass and porcelain hollow insulators	A, D
13.9	Test for the core material (dye penetration test and water diffusion test)	ANSI C29.11, cl. 7.4	Composite suspension insulators for overhead lines	A, D
13.10	Test for the core material (dye penetration test and water diffusion test)	ANSI C29.13, cl. 8.3, 8.4; ANSI C29.13, cl. 8.5.3.1	Composite insulators of distribution dead-end type	A, D
13.11	Test for the core material (dye penetration test and water diffusion test)	ANSI C29.17, cl. 7.5; ANSI C29.18, cl. 8.3, 8.4; ANSI C29.18, cl. 8.5.3.1	Composite line post insulators for overhead lines	A, D
13.12	Test for the core material (dye penetration test and water diffusion test)	ANSI C29.19, cl. 7.5; CAN/CSA C156.2-18, cl. 5.4, 5.5, 5.6.3.2	Composite station post insulators	A, D
13.13	Test for the core material (dye penetration test and water diffusion test)	CSA C411.4-16, cl. 5.2; CSA C411.5-16, cl. 5.4, 5.5, 5.6.3.2; CSA C411.5-16, cl. 7.8; CSA C411.6-16, cl. 5.6.3.2; ANSI C29.12, cl. 8.4	Composite suspension insulators	A, D
13.14	Test for the core material (dye penetration test and water diffusion test)	IEEE C37.41, cl. 18.3	Fuses and accessories over 1 kV	A, D
14	**Mechanical force tests (tension, bending, impact)**			
14.1	Mechanical force tests (tension, bending, impact)	IEC 60137 ed. 7.0, cl. 8.10; ČSN EN 60137 ed. 4, cl. 8.10; IEEE C57.19.00, cl. 7.2.2	Bushings	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
14.2	Mechanical force tests (tension, bending, impact)	IEC 60168 ed. 4.2, cl. 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.6; 5.2.7; ČSN EN 60168 cl. 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.6, 5.2.7; AS 4398.2-2005, cl. 5.2.1, 5.2.2, 5.2.3, 5.2.4, 5.2.6; 5.2.7; CAN/CSA C156.1-18, cl. 9.2.4.5, 9.2.4.7	Station post insulators	A, D
14.3	Mechanical force tests (tension, bending, impact)	IEC 60383-1 ed. 5.0, cl. 18, 19, 21, 28, 30; ČSN EN IEC 60383-1, cl. 18, 19, 28; IEC TR 60797 ed. 1, cl. 4; IEC 61325 ed. 1.0, cl. 23, 24, 26, 35	Ceramic and glass insulators	A, D
14.4	Mechanical force tests (tension, bending, impact)	IEC 60660 ed. 2.0, cl. 3.7, 3.8, 3.9, 5.3; ČSN EN 60660, cl. 3.7, 3.8, 3.9, 5.3	Post insulators of organic materials	A, D
14.5	Mechanical force tests (tension, bending, impact)	IEC 61109 ed. 3.0, cl. 12; ČSN EN 61109, cl. 13	Composite insulators	A, D
14.6	Mechanical force tests (tension, bending, impact)	ČSN EN IEC 62271-213, cl. 7.19; ČSN EN IEC 62271-215, cl. 7.17	Voltage detecting systems (VDS)	A, D
14.7	Mechanical force tests (tension, bending, impact)	IEC 61284 ed. 2.0, cl. 11; ČSN EN 61284, cl. 11	Fittings for overhead lines	A, D
14.8	Mechanical force tests (tension, bending, impact)	IEC 61462 ed. 2.0, cl. 10.3, 8.5; ČSN EN IEC 61462 ed. 2, cl. 10.3, 8.5; IEC 62772 ed. 2.0, cl. 8.3.1, 8.3.3	Composite hollow insulators, composite hollow core station post insulators	A, D
14.9	Mechanical force tests (tension, bending, impact)	IEC 61952 ed. 2.0, cl. 11.2, 12.4, 13; ČSN EN 61952 ed. 2, cl. 11.2, 12.4, 13; CSA C411.6-16, cl. 5.8, 5.9	Composite line post insulators for overhead lines	A, D
14.10	Mechanical force tests (tension, bending, impact)	IEC 62155 ed. 1, cl. 7, 7.2, 8.3; ČSN EN 62155, cl. 7, 7.2, 8.3	Ceramic or glass hollow insulators	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
14.11	Mechanical force tests (tension, bending, impact)	IEC 62231 ed. 1.0, cl. 9.3, 10.4; ČSN EN 62231, cl. 9.3, 10.4; ANSI C29.19, cl. 7.2.1, 7.2.3, 7.2.5, 9.4, 9.5, 10.1; CAN/CSA C156.2-18, cl. 5.8, 5.9	Composite station post insulators	A, D
14.12	Mechanical force tests (tension, bending, impact)	ČSN EN 60099-4 ed. 3, cl. 8.11.6	Metal-oxide surge arresters	A, D
14.13	Mechanical force tests (tension, bending, impact)	CSA C411.1-16, cl. 6.9, 7.6, 8.4	Suspension insulators	A, D
14.14	Mechanical force tests (tension, bending, impact)	ANSI C29.12, cl. 10.3, 11.1; CSA C411.4-16, cl. 5.6, 7.5; CSA C411.5-16, cl. 5.8	Composite suspension insulators	A, D
14.15	Mechanical force tests (tension, bending, impact)	ANSI C29.1, cl. 5.1, 5.2, 5.3, 7.2	Insulators	A, D
14.16	Mechanical force tests (tension, bending, impact)	ANSI C29.2A, cl. 8.2.9, 8.3.4, 8.4.3; ANSI C29.2B, cl. 8.2.7, 8.3.4, 8.4.3	Suspension type insulators – porcelain or glass	A, D
14.17	Mechanical force tests (tension, bending, impact)	ANSI C29.1, cl. 5.1.2.2; ANSI C29.2B, cl. 8.2.8	Suspension type insulators – porcelain or glass	A, D
14.18	Mechanical force tests (tension, bending, impact)	ANSI C29.4, cl. 8.3.4	Porcelain insulators	A, D
14.19	Mechanical force tests (tension, bending, impact)	ANSI C29.5, cl. 8.2.5; ANSI C29.6, cl. 8.3.3; ANSI C29.7, cl. 8.3.4	Porcelain insulators (pin type & line-post type)	A, D
14.20	Mechanical force tests (tension, bending, impact)	ANSI C29.9, cl. 8.2.6, 8.3.4, 8.3.5	Ceramic insulators – apparatus and post-type	A, D
14.21	Mechanical force tests (tension, bending, impact)	ANSI C29.11, cl. 8.3.1.2, 8.3.1.3, 8.3.1.3.1, 8.3.1.3.2, 8.3.2, 9.4, 9.5, 10.1	Composite suspension insulators for overhead lines	A, D
14.22	Mechanical force tests (tension, bending, impact)	ANSI C29.13, cl. 8.7, 10.3, 11.1	Composite insulators of distribution dead-end type	A, D
14.23	Mechanical force tests (tension, bending, impact)	ANSI C29.17, cl. 9.4, 9.5, 10; ANSI C29.18, cl. 8.7, 9.5, 10.4, 10.5, 11	Composite line post insulators for overhead lines	A, D

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14.24	Mechanical force tests (tension, bending, impact)	ANSI/NEMA CC 1-2018, cl. 3.2	Electric power connection for substations	A, D
14.25	Mechanical force tests (tension, bending, impact)	ČSN IEC 60502-2, cl. 18.2.4; NEN-HD 620 S3, cl. 3.3; HD 605-S3, cl. 2.4.1.7	Power cables from 1 kV up to 30 kV	A, D
14.26	Mechanical force tests (tension, bending, impact)	ČSN IEC 60840, cl. 12.4.3; IEC 60840 ed. 5.1, cl. 12.4.3; VDE 0276-632, cl. 12.4.3; HD 632 S3, cl. 12.4.3	Power cables from 30 kV to 150 kV	A, D
14.27	Mechanical force tests (tension, bending, impact)	IEC 62067 ed. 3.0, cl. 12.4.3	Power cables from 150 kV to 500 kV	A, D
14.28	Mechanical force tests (tension, bending, impact)	IEC 61467 ed. 1.0, cl. 10.5, tab. 4; ČSN EN 61467, cl. 10.5, tab. 4; STL guide to IEC 61467 ed. 1.0	Insulator springs for overhead lines above 1 kV	A, D
15	**Assembled core load-time tests**			
15.1	Assembled core load-time tests	IEC 61109 ed. 3.0, cl. 9.4, 10.3, 11.4; ČSN EN 61109, cl. 10.4, 11.2, 12.4	Composite insulators	A, D
15.2	Assembled core load-time tests	IEC 61952 ed. 2.0, cl. 10.4; ČSN EN 61952 ed. 2, cl. 10.4; ANSI C29.17, cl. 7.2	Composite line post insulators for overhead lines	A, D
15.3	Assembled core load-time tests	IEC 62231 ed. 1.0, cl. 8.3; ČSN EN 62231, cl. 8.3; ANSI C29.19, cl. 7.2.2	Composite station post insulators	A, D
15.4	Assembled core load-time tests	ANSI C29.11, cl. 7.2	Composite suspension insulators for overhead lines	A, D
15.5	Assembled core load-time tests	CSA C411.4-16, cl. 5.8, 5.9; ANSI C29.12, cl. 8.2	Composite suspension insulators	A, D
16	**Thermal-mechanical tests**			
16.1	Thermal-mechanical tests	IEC 60099-4 ed. 3.0, cl. 10.8.11.3.1.2; ČSN EN 60099-4 ed. 3, cl. 10.8.11.3.1.2	Metal-oxide surge arresters	A, D

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16.2	Thermal-mechanical tests	IEC 60383-1 ed. 5.0, cl. 20; ČSN EN IEC 60383-1, cl. 20; IEC 61325 ed. 1.0, cl. 25	Ceramic and glass insulators	A, D
16.3	Thermal-mechanical tests	IEC 60660 ed. 2.0, cl. 3.13; ČSN EN 60660, cl. 3.13	Post insulators of organic materials	A, D
16.4	Thermal-mechanical tests	IEC 61109 ed. 3.0, cl. 9.3.3; ČSN EN 61109, cl. 10.3.2	Composite insulators	A, D
16.5	Thermal-mechanical tests	IEC 61952 ed. 2.0, cl. 10.3.1; ČSN EN 61952 ed. 2, cl. 10.3.1; CSA C411.6-16, cl. 5.10	Composite line post insulators for overhead lines	A, D
16.6	Thermal-mechanical tests	IEC 62231 ed. 1.0, cl. 8.2.4; ČSN EN 62231, cl. 8.2.4; CAN/CSA C156.2-18, cl. 5.12	Composite station post insulators	A, D
16.7	Thermal-mechanical tests	CSA C411.1-16, cl. 6.10	Suspension insulators	A, D
16.8	Thermal-mechanical tests	CSA C411.4-16, cl. 5.7; CSA C411.5-16, cl. 5.10	Composite suspension insulators	A, D
16.9	Thermal-mechanical tests	ANSI C29.2A, cl. 8.2.7; ANSI C29.2B, cl. 8.2.5	Suspension type insulators – porcelain or glass	A, D
16.10	Thermal-mechanical tests	ANSI C29.11, cl. 7.1.4	Composite suspension insulators for overhead lines	A, D
16.11	Thermal-mechanical tests	ANSI C29.13, cl. 8.9	Composite insulators of distribution dead-end type	A, D
16.12	Thermal-mechanical tests	ANSI C29.18, cl. 8.8	Composite line post insulators for overhead lines	A, D
17	**Material integrity tests under thermal cycling**			
17.1	Material integrity tests under thermal cycling	IEC 60168 ed. 4.2, cl. 5.4, 5.5; ČSN EN 60168, cl. 5.4, 5.5; AS 4398.2-2005, cl. 5.4, 5.5; CAN/CSA C156.1-18, cl. 9.3.4	Station post insulators	A, D

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17.2	Material integrity tests under thermal cycling	IEC 60383-1 ed. 5.0, cl. 24, 25; ČSN EN IEC 60383-1, cl. 24, 25; IEC 61325 ed. 1.0, cl. 29, 30	Ceramic and glass insulators	A, D
17.3	Material integrity tests under thermal cycling	IEC 62155 ed. 1, cl. 7, 7.3; ČSN EN 62155, cl. 7, 7.3	Ceramic or glass hollow insulators	A, D
17.4	Material integrity tests under thermal cycling	CSA C411.1-16, cl. 7.5, 8.3	Suspension insulators	A, D
17.5	Material integrity tests under thermal cycling	ANSI C29.1, cl. 5.5	Insulators	A, D
17.6	Material integrity tests under thermal cycling	ANSI C29.2A, cl. 8.2.8; ANSI C29.2B, cl. 8.2.6	Suspension type insulators – porcelain or glass	A, D
17.7	Material integrity tests under thermal cycling	ANSI C29.5, cl. 8.2.6; ANSI C29.6, cl. 8.2.5; ANSI C29.7, cl. 8.2.5	Porcelain insulators (pin type & line-post type)	A, D
17.8	Material integrity tests under thermal cycling	ANSI C29.9, cl. 8.2.5	Ceramic insulators – apparatus and post-type	A, D
17.9	Material integrity tests under thermal cycling	ČSN IEC 60840, Annex H.3.1; IEC 60840 ed. 5.1, Annex H.3.1; HD 632 S3, Annex G3	Power cables from 30 kV to 150 kV	A, D
17.10	Material integrity tests under thermal cycling	IEC 62067 ed. 3.0, Annex H.3.2	Power cables from 150 kV to 500 kV	A, D
18	**Verification of dimensions, displacement, contact angle and locking systems**			
18.1	Verification of dimensions, displacement, contact angle and locking systems	IEC 60137 ed. 7.0, cl. 8.14, 9.11; ČSN EN 60137 ed. 4, cl. 8.14	Bushings	A, D
18.2	Verification of dimensions, displacement, contact angle and locking systems	IEC 60168 ed. 4.2, cl. 5.1; ČSN EN 60168 cl. 5.1; AS 4398.2-2005, cl. 5.1, 5.3; CAN/CSA C156.1-18, cl. 9.3.2	Station post insulators	A, D
18.3	Verification of dimensions, displacement, contact angle and locking systems	IEC 60120 ed. 4, cl. 9, 10; ČSN EN IEC 60120, cl. 9, 10	Dimensions of ball and socket coupling of string insulator units	A, D
18.4	Verification of dimensions, displacement, contact angle and locking systems	IEC 60383-1 ed. 5.0, cl. 17, 22, 23; ČSN EN IEC 60383-1, cl. 22, 23; IEC 61325 ed. 1.0, cl. 22, 27, 28	Ceramic and glass insulators	A, D

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18.5	Verification of dimensions, displacement, contact angle and locking systems	IEC 60660 ed. 2.0, cl. 4.2, Annex A; ČSN EN 60660, cl. 4.2, Annex A	Post insulators of organic materials	A, D
18.6	Verification of dimensions, displacement, contact angle and locking systems	IEC 61109 ed. 3.0, cl. 11.2, 11.3, 7; ČSN EN 61109, cl. 12.2, 12.3, 8; IEC 62217 ed. 3.0, cl. 8; ČSN EN 62217 ed. 2, cl. 8	Composite insulators	A, D
18.7	Verification of dimensions, displacement, contact angle and locking systems	IEC 61284 ed. 2.0, cl. 7, 8; ČSN EN 61284, cl. 7, 8	Fittings for overhead lines	A, D
18.8	Verification of dimensions, displacement, contact angle and locking systems	IEC 61462 ed. 2.0, cl. 9.3; ČSN EN IEC 61462 ed. 2, cl. 9.3	Composite hollow insulators	A, D
18.9	Verification of dimensions, displacement, contact angle and locking systems	IEC 61952 ed. 2.0, cl. 12.2, 8; ČSN EN 61952 ed. 2, cl. 12.2, 12.3, 8	Composite line post insulators for overhead lines	A, D
18.10	Verification of dimensions, displacement, contact angle and locking systems	IEC TR 62039 ed. 2.0, cl. 4.12.2.3, 4.12.2.4; IEC 62217 ed. 3.0, cl. 9.3.5.3	Polymeric materials	A, D
18.11	Verification of dimensions, displacement, contact angle and locking systems	IEC 62155 ed. 1, cl. 7.1; ČSN EN 62155, cl. 7.1	Ceramic or glass hollow insulators	A, D
18.12	Verification of dimensions, displacement, contact angle and locking systems	IEC 62231 ed. 1.0, cl. 9.1; ČSN EN 62231, cl. 9.1; ANSI C29.19, cl. 9.2	Composite station post insulators	A, D
18.13	Verification of dimensions, displacement, contact angle and locking systems	ANSI C29.2A, cl. 8.3.1; ANSI C29.2B, cl. 8.3.1	Suspension type insulators – porcelain or glass	A, D
18.14	Verification of dimensions, displacement, contact angle and locking systems	ANSI C29.4, cl. 8.3.1	Porcelain insulators	A, D
18.15	Verification of dimensions, displacement, contact angle and locking systems	ANSI C29.9, cl. 5, 8.3.1	Ceramic insulators – apparatus and post-type	A, D
18.16	Verification of dimensions, displacement, contact angle and locking systems	ANSI C29.11, cl. 5, 9.2, 9.3	Composite suspension insulators for overhead lines	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
18.17	Verification of dimensions, displacement, contact angle and locking systems	ANSI C29.12, cl. 6, 10.1; CSA C411.1-16, cl. 7.4; CSA C411.4-16, cl. 4.7, 7.4	Composite suspension insulators	A, D
18.18	Verification of dimensions, displacement, contact angle and locking systems	ANSI C29.13, cl. 6, 10.1	Composite insulators of distribution dead-end type	A, D
18.19	Verification of dimensions, displacement, contact angle and locking systems	ANSI C29.17, cl. 4, 9.2; ANSI C29.18, cl. 6, 10.1	Composite line post insulators for overhead lines	A, D
18.20	Verification of dimensions, displacement, contact angle and locking systems	EN 50124-1, cl. 7.2; ČSN EN 50124-1 ed. 2, cl. 7.2	Railway equipment	A, D
18.21	Verification of dimensions, displacement, contact angle and locking systems	ČSN EN 60811-201, cl. 4.4; ČSN IEC 60502-2, cl. 17.5; ČSN IEC 60840, cl. 12.4.1; IEC 62067 ed. 3.0, cl. 12.4.1; IEC 60840 ed. 5.1, cl. 12.4.1	Electrical and optical fibre cables	A, D
18.22	Verification of dimensions, displacement, contact angle and locking systems	ČSN IEC 60840, cl. 12.4.8.1, Annex H.5; IEC 60840 ed. 5.1, cl. 12.4.8.1, Annex H.5; VDE 0276-632, cl. 12.4.8; HD 632 S3, cl. 12.4.8.1, Annex G.5	Power cables from 30 kV to 150 kV	A, D
18.23	Verification of dimensions, displacement, contact angle and locking systems	IEC 62067 ed. 3.0, cl. 12.4.8.1, Annex H.4.4	Power cables from 150 kV to 500 kV	A, D
19	**Hardness test of shed and housing material (Shore)**			
19.1	Hardness test of shed and housing material (Shore)	IEC 61462 ed. 2.0, cl. 7.3.1; ČSN EN IEC 61462 ed. 2, cl. 7.3.1	Composite hollow insulators	A, D
19.2	Hardness test of shed and housing material (Shore)	IEC 62217 ed. 3.0, cl. 9.3.1; ČSN EN 62217 ed. 2, cl. 9.3.1	Polymeric insulators for indoor and outdoor use	A, D
19.3	Hardness test of shed and housing material (Shore)	IEC 62231 ed. 1.0, cl. 8.4; ČSN EN 62231, cl. 8.4	Composite station post insulators	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
19.4	Hardness test of shed and housing material (Shore)	ANSI C29.13, cl. 8.1.3.2	Composite insulators of distribution dead-end type	A, D
20	**Determination of the coating mass by the magnetic test method**			
20.1	Determination of the coating mass by the magnetic test method	IEC 60383-1 ed. 5.0, cl. 27; ČSN EN IEC 60383-1, cl. 27; ANSI C29.2B, cl. 8.3.3; ANSI C29.7, cl. 8.3.3; IEC 61325 ed. 1.0, cl. 32	Ceramic and glass insulators	A, D
20.2	Determination of the coating mass by the magnetic test method	IEC 60168 ed. 4.2, cl. 5.7.1.2; ČSN EN 60168 cl. 5.7.1.2	Station post insulators	A, D
20.3	Determination of the coating mass by the magnetic test method	IEC 61109 ed. 3.0, cl. 11.5; ČSN EN 61109, cl. 12.5	Composite insulators	A, D
20.4	Determination of the coating mass by the magnetic test method	IEC 61284 ed. 2.0, cl. 9; ČSN EN 61284, cl. 9	Fittings for overhead lines	A, D
20.5	Determination of the coating mass by the magnetic test method	ANSI C29.11, cl. 9.6; ANSI C29.13, cl. 10.2; ANSI C29.17, cl. 9.3; ANSI C29.19, cl. 9.3; IEC 62231 ed. 1.0, cl. 10.3	Composite insulators	A, D
21	**Tightness test of oil, gas and water leakage**			
21.1	Tightness test of oil, gas and water leakage	IEC 60137 ed. 7.0, cl. 8.11; ČSN EN 60137 ed. 4, cl. 8.11; IEC 61462 ed. 2.0, cl. 7.2.6.4; ČSN EN 61462, cl. 7.2.5.4	Bushings, hollow core insulators	A, D
21.2	Tightness test of oil, gas and water leakage	ČSN IEC 60840, Annex E, F; IEC 60840 ed. 5.1, Annex E, F; HD 632 S3, Annex E	Power cables from 30 kV to 150 kV	A, D
21.3	Tightness test of oil, gas and water leakage	IEC 62067 ed. 3.0, Annex E, F	Power cables from 150 kV to 500 kV	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
22	**Temperature-rise test**			
22.1	Temperature-rise test	IEC 60137 ed. 7.0, cl. 8.8, 8.9; ČSN EN 60137 ed. 4, cl. 8.8, 8.9; IEEE C57.19.00, cl. 7.2.3	Bushings	A, D
22.2	Temperature-rise test	IEC 62271-1 ed. 2.1, cl. 7.5; IEC 62271-102 ed. 2.0, cl. 7.5; ČSN EN 62271-1 ed. 2, cl. 7.5; ČSN EN IEC 62271-102 ed. 2, cl. 7.5; ČSN EN IEC 62271-103 ed. 2, cl. 7.5; ČSN EN IEC 62271-104 ed. 3, cl. 7.5	Switchgear and controlgear	A, D
23	**Measurement of electrical resistance, resistivity and magnetic losses**			
23.1	Measurement of electrical resistance, resistivity and magnetic losses	IEC 60358-1 ed. 1.0, cl. 9.2.6; ČSN EN 60358-1, cl. 9.2.6	Coupling capacitors and capacitive dividers	A, D
23.2	Measurement of electrical resistance, resistivity and magnetic losses	ČSN IEC 60502-2, cl. 16.2, 18.2.10; IEC 60228 ed. 4.0; ČSN IEC 60502-1, cl. 17.2, 17.3	Power cables from 1 kV up to 30 kV	A, D
23.3	Measurement of electrical resistance, resistivity and magnetic losses	IEC 60840 ed. 5.1, cl. 12.4.9, Annex D; ČSN IEC 60840, cl. 12.4.9; VDE 0276-632, cl. 12.4.9; HD 632 S3, cl. 12.4.9, Annex D	Power cables from 30 kV to 150 kV	A, D
23.4	Measurement of electrical resistance, resistivity and magnetic losses	IEC 62067 ed. 3.0, cl. 12.4.9	Power cables from 150 kV to 500 kV	A, D
23.5	Measurement of electrical resistance, resistivity and magnetic losses	IEC 61284 ed. 2.0, cl. 12; ČSN EN 61284, cl. 12	Fittings for overhead lines	A, D
23.6	Measurement of electrical resistance, resistivity and magnetic losses	ČSN EN 62271-1 ed. 2, cl. 7.4; ČSN EN IEC 62271-102 ed. 2, cl. 7.4; ČSN EN 62271-103, cl. 7.4; ČSN EN IEC 62271-104 ed. 3, cl. 7.4	Switchgear and controlgear	A, D

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
24	**Material integrity tests under cyclic electric current changes**			
24.1	Material integrity tests under cyclic electric current changes	ČSN IEC 60502-2, cl. 18.2.7; NEN-HD 620 S3, cl. 3.3; HD 605-S3, cl. 3.8	Power cables from 1 kV up to 30 kV	A, D
24.2	Material integrity tests under cyclic electric current changes	IEC 60840 ed. 5.1, cl. 12.4.6; ČSN IEC 60840, cl. 12.4.6; VDE 0276-632, cl. 12.4.6; HD 632 S3, cl. 12.4.6	Power cables from 30 kV to 150 kV	A, D
24.3	Material integrity tests under cyclic electric current changes	IEC 62067 ed. 3.0, cl. 12.4.6	Power cables from 150 kV to 500 kV	A, D
24.4	Material integrity tests under cyclic electric current changes	IEC 61284, cl. 13.5.2; ČSN EN 61284, cl. 13.5.2	Fittings for overhead lines	A, D
24.5	Material integrity tests under cyclic electric current changes	IEC 61442 ed. 3.0, cl. 9,10; ČSN EN IEC 61442 ed. 2, cl. 9, 10; IEC 60502-4 ed. 4.0; ČSN 34 7006 ed. 3; HD 629.1 S3	Cable accessories	A, D
25	**Electric and magnetic field measurement (1 Hz to 100 kHz)**			
25.1*	Electric and magnetic field measurement (1 Hz to 100 kHz)	IEC 62110 ed. 1.0; ČSN EN 62110; ČSN EN 50413	Environment with installed equipment for the generation, transmission and distribution of electricity	A, D
26	**Assessment of non-ionising radiation values (1 Hz to 100 kHz) by calculation**			
26.1*	Assessment of non-ionising radiation values (1 Hz to 100 kHz) by calculation	IP5 (GR No. 291/2015 Coll.; MoH CR Bulletin No. 8/2017)	Environment with installed equipment for the generation, transmission and distribution of electricity	A, D
27	**Impulse current tests**			
27.1	Impulse current tests	IEC 60099-4 ed. 3.0, cl. 8.3, 9.1 b); ČSN EN 60099-4 ed. 3, cl. 8.3, 9.1 b)	Metal-oxide surge arresters	A, D

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[1] asterisk at the ordinal number identifies the tests, which the laboratory is qualified to carry out outside the permanent laboratory premises;

[2] if the document identifying the test procedure is dated, only these specific procedures are used. If the document identifying the test procedure is not dated, the latest valid edition of the specified procedure is used (including any changes)

[3] degrees of freedom: A – Flexibility concerning materials/products (subject of the test), B – Flexibility concerning components/parameters/characteristics, C – Flexibility concerning the performance of the method, D – Flexibility concerning the method

The laboratory can modify the test procedures with the specified degree(s) of freedom in the scope of accreditation while maintaining the principle of measurement. If no degree of freedom is specified, the laboratory cannot apply a flexible approach to the scope of accreditation for the test.

Explanations and abbreviations:

ANSI	American National Standards Institute
AS	Australian Standard
CAN/CSA	Canadian Standard
IEEE	Standard published by an international non-profit professional organization
IP	Internal Testing Procedure
NEMA	National Electrical Manufacturers Association
HD	Harmonized Document
GR No. 291/2015 Coll.	on health protection against non-ionizing radiation
PNE	Branch standard

MoH CR Bulletin No. 8/2017 Guideline for the procedure pursuant to Sections 35 and 36 of Act No. 258/2000 Coll., on the protection of public health and on the amendment of certain related acts, as amended, and Government Decree No. 291/2015 coll., on the protection of health against non-ionizing radiation