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Český institut pro akreditaci, o.p.s.
Olšanská 54/3, 130 00 Praha 3

issues

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

CERTIFICATE OF ACCREDITATION

No. 375/2021

Zkušebnictví, a.s.
with registered office Podnikatelská 547, 190 11 Praha 9 - Běchovice, Company Registration
No. 45274355

to the Testing Laboratory No. 1035
KEMA Labs

Scope of accreditation:

Testing of making and breaking capacity, testing of short-circuit resistance, testing of electric arc resistance, temperature-rise tests by continuous flow of electric current, dielectric tests, determination of degree of protection, verification of equipment design and routine tests of heavy current equipment 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 Body is entitled to refer to this Certificate, provided that the accreditation is not suspended and the 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.: 464/2020 of 21. 7. 2020, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **14. 7. 2026**

Prague: 14. 7. 2021




Lukáš Burda

Director of the Department
of Testing and Calibration Laboratories
Czech Accreditation Institute
Public Service Company

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

Zkušebnictví, a.s.
KEMA Labs
Podnikatelská 547, 190 11 Praha 9 – Běchovice

Testing Laboratory Locations:

- | | |
|-----------------------|---|
| 1. HPL section | Podnikatelská 547, 190 11 Praha 9 – Běchovice |
| 2. HVL section | Podnikatelská 547, 190 11 Praha 9 – Běchovice |

1. **HPL section**

Tests:

Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
1	Short-time withstand current and peak withstand current tests	ČSN EN 62271-1 ed. 2, cl. 7.6 IEC 62271-1, cl. 7.6	HV switchgear and controlgear for voltages above 1 kV
		ČSN EN 62271-100 ed. 2, cl. 6.6 IEC 62271-100, cl. 6.6	HV circuit breakers
		ČSN EN 62271-102 ed. 2, cl. 7.6 IEC 62271-102, cl. 7.6	HV disconnectors and earthing switches
		ČSN EN 62271-103, cl. 6.6 IEC 62271-103, cl. 6.6	Switches for rated voltages above 1 kV up to and including 52 kV
		ČSN EN 62271-104 ed. 2, cl. 6.6 IEC 62271-104, cl. 7.6	Switches for rated voltages of 52 kV and higher
		ČSN EN 62271-106, cl. 6.6 IEC 62271-106, cl. 6.6	HV contactors and contactor-based motor-starters
		ČSN EN 62271-200 ed. 2, cl. 6.6 IEC 62271-200, cl. 6.6	Metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 62271-201 ed. 2, cl. 6.6 IEC 62271-201, cl. 6.6	Insulation-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 62271-202 ed. 2, cl. 6.6 IEC 62271-202, cl. 6.6	HV/LV prefabricated substation
		ČSN EN 62271-203 ed. 2, cl. 6.6 IEC 62271-203, cl. 6.6	Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV



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KEMA Labs
Podnikatelská 547, 190 11 Praha 9 – Běchovice

Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 60076-5 ed. 2, cl. 3-4 IEC 60076-5, cl. 3-4 GOST 20243-74, cl. 2	Power transformers
		ČSN EN 60076-11 ed. 2, cl. 14.4.3 IEC 60076-11, cl. 14.4.3	Dry-type transformers
		ČSN EN 60076-13, cl. 12.4.9 IEC 60076-13, cl. 12.4.9	Self-protected transformers
		ČSN EN 60076-6, cl. 8.9.13, 9.10.10, 10.9.8, 11.8.13 + Annex F IEC 60076-6, cl. 8.9.13, 9.10.10, 10.9.8, 11.8.13 + Annex F IEEE C57.16, cl. 11.6, C.5.5.2, C.5.5.3, C.5.5.4	Reactors
		ČSN IEC 353, cl. 19.4 IEC 60353, cl. 19.4 IEEE C93.3, cl. 6.2.5	Line traps
		ČSN EN 60214-1 ed. 2, cl. 5.2.4, 7.2.3 IEC 60214-1, cl. 5.2.4, 7.2.3	Tap-changers
		ČSN EN 61869-2, cl. 7.2.201 IEC 61869-2, cl. 7.2.201	Current transformers
		ČSN EN 61869-3, cl. 7.2.301 IEC 61869-3, cl. 7.2.301	Inductive voltage transformers
		ČSN EN 61284, cl. 6.1.2 IEC 61284, cl. 6.1.2	Fittings for overhead lines

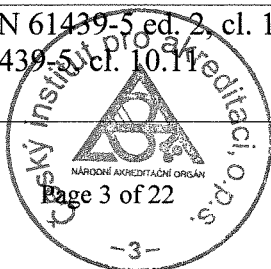


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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 60099-4 ed. 3, cl. 8.10, 10.8.10, 11.8.10, 12.8.10, 13.8.10 IEC 60099-4, cl. 8.10, 10.8.10, 11.8.10, 12.8.10, 13.8.10	Metal-oxide surge arresters without gaps
		IEEE C37.23, cl. 6.2.3, 6.2.4	Metal-enclosed bus
		ČSN EN 60137 ed. 4, cl. 8.9 IEC 60137, cl. 8.9	Insulated bushings for alternating voltages above 1 kV
		ČSN EN 61219, cl. 6.4 IEC 61219, cl. 6.4	Earthing or earthing and short-circuiting equipment using lances as a short- circuiting device - Lance earthing
		ČSN EN 61230 ed. 2, cl. 5.7 IEC 61230, cl. 5.7	Portable equipment for earthing or earthing and short-circuiting
		ČSN EN 61914 ed. 2, cl. 9.5 IEC 61914, cl. 9.5	Cable cleats
		ČSN EN 61439-1 ed. 2, cl. 10.11 (except in, cl. 10.11.4) IEC 61439-1, cl. 10.11 (except in, cl. 10.11.4)	LV switchgear and controlgear assemblies
		ČSN EN 61439-1 ed. 2, cl. 10.5 (except in, cl. 10.5.3.4) IEC 61439-1, cl. 10.5 (except in, cl. 10.5.3.4)	LV switchgear and controlgear assemblies
		ČSN EN 61439-2 ed. 2, cl. 10.11 (except in, cl. 10.11.4) IEC 61439-2, cl. 10.11 (except in, cl. 10.11.4)	Power LV switchgear and controlgear assemblies
		ČSN EN 61439-2 ed. 2, cl. 10.5 (except in, cl. 10.5.3.4) IEC 61439-2, cl. 10.5 (except in, cl. 10.5.3.4)	Power LV switchgear and controlgear assemblies
		ČSN EN 61439-5 ed. 2, cl. 10.11 IEC 61439-5, cl. 10.11	Assemblies for power distribution in public networks

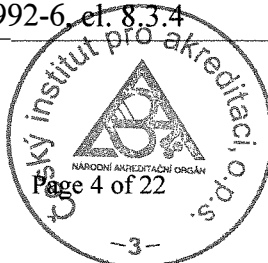


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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 61439-5 ed. 2, cl. 10.5 IEC 61439-5, cl. 10.5	Assemblies for power distribution in public networks
		ČSN EN 61439-6, cl. 10.11 IEC 61439-6, cl. 10.11	Busbar trunking systems
		ČSN EN 61439-6, cl. 10.5 IEC 61439-6, cl. 10.5	Busbar trunking systems
		ČSN EN 61921, cl. 7.2.3 IEC 61921, cl. 7.11	Low-voltage power factor correction banks
		ČSN EN 61921, cl. 7.2.4 IEC 61921, cl. 7.5	Low-voltage power factor correction banks
		IEC 62040-1, cl. 5.2.3.103 + Annex EE	UPS
		ČSN EN 60947-1 ed. 4, cl. 8.3.4 IEC 60947-1, cl. 9.3.4	Low-voltage switchgear and controlgear
		ČSN EN 60947-2 ed. 4, cl. 8.3.6.3 IEC 60947-2, cl. 8.3.6.3	LV circuit-breakers
		ČSN EN 60947-3 ed. 3, cl. 8.3.5, 8.3.6 IEC 60947-3, cl. 9.3.6, 9.3.7	LV switches, disconnectors, switch-disconnectors and fuse-combination units
		ČSN EN 50123-1 ed. 2, cl. 7.7 IEC 61992-1, cl. 7.7	DC switchgear
		ČSN EN 50123-2 ed. 2, cl. 8.3.9 IEC 61992-2, cl. 8.3.9	DC circuit breakers
		ČSN EN 50123-3 ed. 2, cl. 8.3.8 IEC 61992-3, cl. 8.3.8	Indoor DC disconnectors, switch-disconnectors and earthing switches
		ČSN EN 50123-4 ed. 2, cl. 8.3.9 IEC 61992-4, cl. 8.3.9	Outdoor DC disconnectors, switch-disconnectors and earthing switches
		ČSN EN 50123-6 ed. 2, cl. 8.3.4 IEC 61992-6, cl. 8.3.4	DC switchgears assemblies

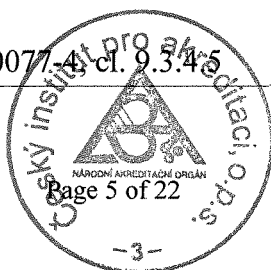


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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 50123-6 ed. 2, cl. 8.3.4 IEC 61992-6, cl. 8.3.4	DC switchgears assemblies
		ČSN EN 60077-4 ed. 2, cl. 9.3.4.4 IEC 60077-4, cl. 9.3.4.4	El. equipment of rail vehicles - AC switches
		ČSN EN 61643-11 ed. 2, cl. 8.3.5.3 (except in, cl. 8.3.5.3.1 and 8.3.5.3.2) IEC 61643-11, cl. 8.3.5.3 (except in, cl. 8.3.5.3.1 and 8.3.5.3.2)	Surge protective devices connected to LV power systems
		ČSN EN 61800-5-1 ed. 2, cl. 5.2.3.6 IEC 61800-5-1, cl. 5.2.3.6	Adjustable speed electrical power drive systems
2	Short-circuit making and breaking tests	ČSN EN 62271-100 ed. 2, cl. 6.102 – 6.112 IEC 62271-100, cl. 6.102 – 6.112	HV circuit breakers
		ČSN EN 62271-102 ed. 2, cl. 7.101 IEC 62271-102, cl. 7.101	HV disconnectors and earthing switches
		ČSN EN 60947-1 ed. 4, cl. 8.3.2, 8.3.4 IEC 60947-1, cl. 9.3.2, 9.3.4	Low-voltage switchgear and controlgear
		ČSN EN 60947-2 ed. 4, cl. 8.3.4.2, 8.3.5.3 IEC 60947-2, cl. 8.3.4.2, 8.3.5.3	LV circuit-breakers
		ČSN EN 50123-2 ed. 2, cl. 8.3.8 IEC 61992-2, cl. 8.3.8	DC circuit breakers
		ČSN EN 60077-3, cl. 9.3.4 IEC 60077-3, cl. 9.3.4	El. equipment of rail vehicles - DC switches
		ČSN EN 60077-4 ed. 2, cl. 9.3.4.5 IEC 60077-4, cl. 9.3.4.5	El. equipment of rail vehicles - AC switches

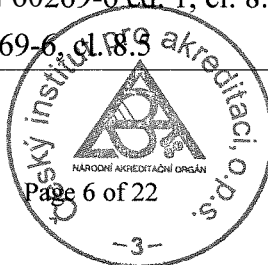


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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
3	Making and breaking tests	ČSN EN 62271-102 ed. 2, cl. 7.106 – 7.108 IEC 62271-102, cl. 7.106 - 7.108	HV disconnectors and earthing switches
		ČSN EN 62271-103, cl. 6.101 IEC 62271-103, cl. 6.101	Switches for rated voltages above 1 kV up to and including 52 kV
		ČSN EN 62271-105 ed. 2, cl. 6.101 IEC 62271-105, cl. 6.101	HV switch-fuse combinations
		ČSN EN 62271-106, cl. 6.102 IEC 62271-106, cl. 6.102	HV contactors and contactor-based motor-starters
		ČSN EN 62271-200 ed. 2, cl. 6.101 IEC 62271-200, cl. 6.101	Metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 62271-201 ed. 2, cl. 6.101 IEC 62271-201, cl. 6.101	Insulation-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 60282-1 ed. 4, cl. 7.6, 8.3.3.3 IEC 60282-1, cl. 7.6, 8.3.3.3 IEEE Std. C37.41, cl. 9.3	HV current-limiting fuses
		ČSN IEC 282-2, cl. 8.6 IEC 60282-2, cl. 8.6 IEEE Std. C37.41, cl. 9.2	HV expulsion fuses
		ČSN EN 60269-1 ed. 3, cl. 8.5 IEC 60269-1, cl. 8.5	LV fuses
		ČSN EN 60269-4 ed. 3, cl. 8.5 IEC 60269-4, cl. 8.5	LV fuse-links for the protection of semiconductor devices
		ČSN EN 60269-6 ed. 1, cl. 8.5 IEC 60269-6, cl. 8.5	Fuse-links for the protection of solar systems



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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 50123-1 ed. 2, cl. 7.3.2, 7.6 EN 50123-1, cl. 7.3.2, 7.6 IEC 61992-1, cl. 7.3.2, 7.6	DC switchgear
		ČSN EN 50123-3 ed. 2, cl. 8.3.7 IEC 61992-3, cl. 8.3.7	Indoor DC disconnectors, switch-disconnectors and earthing switches
		ČSN EN 50123-4 ed. 2, cl. 8.3.5, 8.3.8 EN 50123-4, cl. 8.3.5, 8.3.8 IEC 61992-4, cl. 8.3.5, 8.3.8	Outdoor DC disconnectors, switch-disconnectors and earthing switches
		ČSN EN 60077-5, cl. 9.3.4.3 IEC 60077-5, cl. 9.3.4.3	El. equipment of rail vehicles - HV fuses
4	Internal arc test	ČSN EN 62271-200 ed. 2, cl. 6.106, Annex AA IEC 62271-200, cl. 6.106, Annex AA	Metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 62271-201 ed. 2, cl. 6.105, Annex AA IEC 62271-201, cl. 6.105, Annex AA	Insulation-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 62271-202 ed. 2, cl. 6.102, Annex AA IEC 62271-202, cl. 6.102, Annex AA	HV/LV prefabricated substation
		ČSN EN 62271-203 ed. 2, cl. 6.105, Annex B IEC 62271-203, cl. 6.105, Annex B	Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV
		IEC 62271-214, cl. 7.101	Metal-enclosed pole-mounted switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 61869-1, cl. 6.9, 7.4.6 IEC 61869-1, cl. 6.9, 7.4.6	Instrument transformers

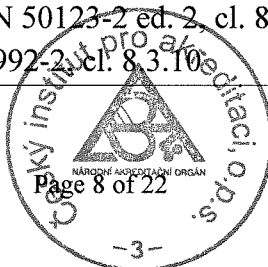


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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 61869-2, cl. 6.9, 7.4.6 IEC 61869-2, cl. 6.9, 7.4.6	Instrument current transformers
		ČSN EN 61869-3, cl. 6.9, 7.4.6 IEC 61869-3, cl. 6.9, 7.4.6	Instrument voltage transformers
		IEC 61641, cl. 8	Enclosed LV switchgear and controlgear assemblies
		ČSN EN 50123-6 ed. 2., cl. 8.3.9, Annex B EN 50123-6., cl. 8.3.9, Annex B	DC switchgears assemblies
5	Power arc tests	ČSN EN 61284, cl. 6.1.2 STL Procedure 4 Issue 2:2011 IEC 61284, cl. 6.1.2 STL Procedure 4 Issue 2:2011	Fittings for overhead lines
		ČSN EN 61467, cl. 3 – 10 IEC 61467, cl. 3 – 10	Insulator sets
6	Tests for time-current characteristics	ČSN EN 60282-1 ed. 4, cl. 7.7 IEC 60282-1, cl. 7.7 IEEE Std. C37.41, cl. 12	HV current-limiting fuses
		ČSN IEC 282-2, cl. 8.7 IEC 60282-2, cl. 8.7 IEEE Std. C37.41, cl. 12	HV expulsion fuses
7	Switching tests	ČSN EN 60214-1 ed. 2, cl. 5.2.3 IEC 60214-1, cl. 5.2.3	Tap-changers
8	Tests for explosion safety	GOST R 52725, cl. 9.8	Surge arresters for a.c. electrical installations for voltage from 3 kV to 750 kV
9	No-load, normal load and overload conditions tests	ČSN EN 60947-1 ed. 4, cl. 8.3.3 (except in, cl. 8.3.3.4) IEC 60947-1, cl. 9.3.3 (except in, cl. 9.3.3.4)	Low-voltage switchgear and controlgear
		ČSN EN 60947-3 ed. 3, cl. 8.3.3, 8.3.4, 8.3.7 IEC 60947-3, cl. 9.3.4, 9.3.5, 9.3.8	LV switches, disconnectors, switch-disconnectors and fuse-combination units
10	Test of searching critical currents	ČSN EN 50123-2 ed. 2, cl. 8.3.10 IEC 61992-2, cl. 8.3.10	DC circuit breakers



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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
11	TOV failure test	ČSN EN 61643-11 ed. 2, cl. 8.3.8.2 IEC 61643-11, cl. 8.3.8.2	Surge protective devices connected to LV power systems
12	Measurement of the resistance	ČSN EN 62271-1 ed. 2, cl. 7.4.4 IEC 62271-1, cl. 7.4.4	HV switchgear and controlgear for voltages above 1 kV
13	Voltage test as condition check	ČSN EN 62271-1 ed. 2, cl. 7.2.12 IEC 62271-1, cl. 7.2.12	HV switchgear and controlgear for voltages above 1 kV
14	Measurement of inductance, reactance and impedance	ČSN EN 60076-6, cl. 7.8.5.1, 8.9.21, 9.10.5 IEC 60076-6, cl. 7.8.5.1, 8.9.21, 9.10.5	Reactors
		ČSN IEC 353, cl. 19.5 – 19.7 IEC 60353, cl. 19.5 – 19.7	Line traps



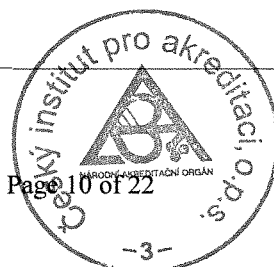
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Zkušebnictví, a.s.
KEMA Labs
Podnikatelská 547, 190 11 Praha 9 – Běchovice

2. HVL section

Tests:

Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
1	Temperature-rise tests	ČSN EN 62271-1 ed. 2, cl. 7.5 IEC 62271-1, cl. 7.5	HV switchgear and controlgear for voltages above 1 kV
		ČSN EN 62271-100 ed. 2, cl. 6.5 IEC 62271-100, cl. 6.5	HV circuit breakers
		ČSN EN 62271-102 ed. 2, cl. 7.5 IEC 62271-102, cl. 7.5	HV disconnectors
		ČSN EN 62271-103, cl. 6.5 IEC 62271-103, cl. 6.5	Switches for rated voltages above 1 kV up to and including 52 kV
		ČSN EN 62271-104 ed. 2, cl. 6.5 IEC 62271-104, cl. 7.5	Switches for rated voltages of 52 kV and higher
		ČSN EN 62271-105 ed. 2, cl. 6.5 IEC 62271-105, cl. 6.5	HV switch-fuse combinations
		ČSN EN 62271-106, cl. 6.5 IEC 62271-106, cl. 6.5	HV contactors and contactor-based motor-starters
		ČSN EN 62271-200 ed. 2, cl. 6.5 IEC 62271-200, cl. 6.5	Metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 62271-201 ed. 2, cl. 6.5 IEC 62271-201, cl. 6.5	Insulation-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 62271-202 ed. 2 cl. 6.5 IEC 62271-202, cl. 6.5	HV/LV prefabricated substation
		ČSN EN 62271-203 ed. 2, cl. 6.5 IEC 62271-203, cl. 6.5	Gas-insulated metal-enclosed switchgear for rated voltages above 52 kV



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Podnikatelská 547, 190 11 Praha 9 – Běchovice

Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 60282-1 ed. 4, cl. 7.5, 8.4.1, 8.3.3.2 IEC 60282-1, cl. 7.5, 8.4.1, 8.3.3.2 IEEE Std. C37.41, cl. 11	HV current-limiting fuses
		ČSN IEC 282-2, cl. 8.5 IEC 60282-2, cl. 8.5 IEEE Std. C37.41, cl. 11	HV expulsion fuses
		ČSN EN 60076-2 ed. 2, cl. 7 IEC 60076-2, cl. 7	Power transformers (oil immersed)
		ČSN EN 60076-11 ed. 2, cl. 14.3.2 IEC 60076-11, cl. 14.3.2	Power transformers (dry-type)
		ČSN EN 60076-6, cl. 7.8.14, 8.9.11, 9.10.8, 10.9.6, 11.8.7, 12.8.13 IEC 60076-6, cl. 7.8.14, 8.9.11, 9.10.8, 10.9.6, 11.8.7, 12.8.13	Reactors
		ČSN IEC 353, cl. 19.1 IEC 60353, cl. 19.1	Line traps
		ČSN EN 60214-1 ed. 2, cl. 5.2.2, 7.2.2 IEC 60214-1, cl. 5.2.2, 7.2.2	Tap-changers
		ČSN EN 61869-1, cl. 7.2.2 IEC 61869-1, cl. 7.2.2	Instrument transformers
		ČSN EN 61869-2, cl. 7.2.2 IEC 61869-2, cl. 7.2.2	Current transformers
		ČSN EN 61869-3, cl. 7.2.2 IEC 61869-3, cl. 7.2.2	Inductive voltage transformers
		IEEE C37.23, cl. 6.2.2	Metal-enclosed bus
		ČSN EN 60137 ed. 4, cl. 8.8 IEC 60137, cl. 8.8 IEEE C57.19.00, cl. 7.2.3	Insulated bushings for alternating voltages above 1 kV

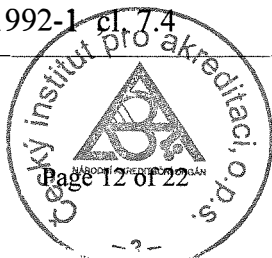


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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 61439-1 ed. 2, cl. 10.10 (except in, cl. 10.10.4) IEC 61439-1, cl. 10.10 (except in, cl. 10.10.4)	LV switchgear and controlgear assemblies
		ČSN EN 61439-2 ed. 2, cl. 10.10 (except in, cl. 10.10.4) IEC 61439-2, cl. 10.10 (except in, cl. 10.10.4)	Power LV switchgear and controlgear assemblies
		ČSN EN 61439-4, cl. 10.10 IEC 61439-4, cl. 10.10	Assemblies for construction sites
		ČSN EN 61439-5 ed. 2, cl. 10.10 IEC 61439-5, cl. 10.10	Assemblies for power distribution in public networks
		ČSN EN 61439-6, cl. 10.10 IEC 61439-6, cl. 10.10	Busbar trunking systems
		ČSN EN 61921, cl. 7.2.1 IEC 61921, cl. 7.10	Low-voltage power factor correction banks
		ČSN EN 60947-1 ed. 4, cl. 8.3.3.3 IEC 60947-1, cl. 9.3.3.3	LV switchgear and controlgear
		ČSN EN 60947-2 ed. 4, cl. 8.3.3.7, 8.3.4.5, 8.3.6.4, 8.3.7.3, 8.3.8.7, 8.3.2.5 IEC 60947-2, cl. 8.3.3.7, 8.3.4.5, 8.3.6.4, 8.3.7.3, 8.3.8.7, 8.3.2.5	LV circuit-breakers
		ČSN EN 60947-3 ed. 3, cl. 8.3.3.6, 8.3.4.4, 8.3.5.5, 8.3.6.5, 8.3.7.4, 8.3.3.1 IEC 60947-3, cl. 9.3.4.7, 9.3.5.5, 9.3.6.6, 9.3.7.6, 9.3.8.5, 9.3.4.2	LV switches, disconnectors, switch-disconnectors and fuse-combination units
		ČSN EN 60269-1 ed. 3, cl. 8.3 IEC 60269-1, cl. 8.3	LV fuses
		ČSN EN 50123-1 ed. 2, cl. 7.4 IEC 61992-1 ed. 2, cl. 7.4	DC switchgear

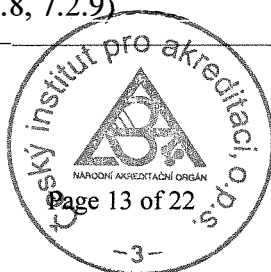


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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 50123-2 ed. 2, cl. 8.3.4 IEC 61992-2, cl. 8.3.4	DC circuit breakers
		ČSN EN 50123-3 ed. 2, cl. 8.3.4 IEC 61992-3, cl. 8.3.4	Indoor DC disconnectors and switch-disconnectors
		ČSN EN 50123-4 ed. 2, cl. 8.3.4 IEC 61992-4, cl. 8.3.4	Outdoor DC disconnectors, switch-disconnectors and earthing switches
		ČSN EN 50123-6 ed. 2, cl. 8.3.7 IEC 61992-6, cl. 8.3.7	DC switchgears assemblies
		ČSN EN 60077-1 ed.2, cl. 9.3.2 IEC 60077-1, cl. 9.3.2	El. equipment of rail vehicles
		ČSN EN 60077-2 ed.2, cl. 9.3.3.4 IEC 60077-2, cl. 9.3.3.4	El. equipment of rail vehicles - el. components
		ANSI/NEMA CC 1, cl. 3.1	Electric power connection for substations
2	Tests with alternating voltage	ČSN EN 60060-1, cl. 6 IEC 60060-1, cl. 6	Equipment having its highest voltage for equipment above 1 kV
		ČSN EN 62271-1 ed. 2, cl. 7.2, 7.10.5 (except in, cl. 7.2.8, 7.2.9) IEC 62271-1, cl. 7.2, 7.10.5 (except in, cl. 7.2.8, 7.2.9)	HV switchgear and controlgear for voltages above 1 kV
		ČSN EN 62271-100 ed. 2, cl. 6.2 (except in, cl. 6.2.2, 6.2.7, 6.2.8) IEC 62271-100, cl. 6.2 (except in, cl. 6.2.2, 6.2.7, 6.2.8)	HV circuit breakers
		ČSN EN 62271-102 ed. 2, cl. 7.2 (except in, cl. 7.2.8, 7.2.9) IEC 62271-102, cl. 7.2 (except in, cl. 7.2.8, 7.2.9)	HV disconnectors and earthing switches

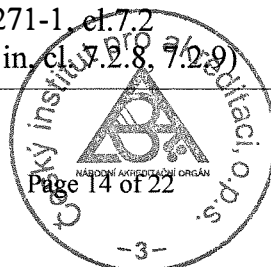


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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 62271-200 ed. 2, cl. 6.2 (except in, cl. 6.2.7, 6.2.8, 6.2.101) IEC 62271-200, cl. 6.2 (except in, cl. 6.2.7, 6.2.8, 6.2.101) IEEE C37.20.2, cl. 6.2.1	Metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		IEEE C37.23, cl. 6.2.1	Metal-enclosed bus
		ČSN EN 62271-202 ed. 2, cl. 6.2 (except in, cl. 6.2.102.3) IEC 62271-202, cl. 6.2 (except in, cl. 6.2.102.3)	HV/LV prefabricated substation
		ČSN EN 60076-3 ed. 2, cl. 9, 10 IEC 60076-3, cl. 9, 10 GOST 1516.1-76, cl. 1.7, 2.4 (except in, cl. 2.4.2 and 2.4.6)	Power transformers
		ČSN EN 60076-11 ed. 2, cl. 14.2.5 IEC 60076-11, cl. 14.2.5	Dry-type transformers
		ČSN EN 60282-1 ed. 4, cl. 7.4 IEC 60282-1, cl. 7.4 IEEE Std. C37.41, cl. 8 (except in, cl. 8.4, 8.6, 8.7)	HV current-limiting fuses
		ČSN IEC 282-2, cl. 8.4 (except in, cl. 8.4.7) IEC 60282-2, cl. 8.4 (except in, cl. 8.4.7) IEEE Std. C37.41, cl. 8 (except in, cl. 8.4, 8.6, 8.7)	HV expulsion fuses
		ČSN EN 60269-1 ed. 3, cl. 8.2 IEC 60269-1, cl. 8.2	LV fuses
3	Tests with lightning-impulse voltage	ČSN EN 60060-1, cl. 7 IEC 60060-1, cl. 7	Equipment having its highest voltage for equipment above 1 kV
		ČSN EN 62271-1 ed. 2, cl. 7.2 (except in, cl. 7.2.8, 7.2.9) IEC 62271-1, cl. 7.2 (except in, cl. 7.2.8, 7.2.9)	HV switchgear and controlgear for voltages above 1 kV



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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 62271-100 ed. 2, cl. 6.2 (except in, cl. 6.2.2, 6.2.7, 6.2.8) IEC 62271-100, cl. 6.2 (except in, cl. 6.2.2, 6.2.7, 6.2.8)	HV circuit breakers
		ČSN EN 62271-102 ed. 2, cl. 7.2 (except in, cl. 7.2.8, 7.2.9) IEC 62271-102, cl. 7.2 (except in, cl. 7.2.8, 7.2.9)	HV disconnectors and earthing switches
		ČSN EN 62271-200 ed. 2, cl. 6.2 (except in, cl. 6.2.7, 6.2.8, 6.2.101) IEC 62271-200, cl. 6.2 (except in, cl. 6.2.7, 6.2.8, 6.2.101)	Metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		IEEE C37.23, cl. 6.2.1	Metal-enclosed bus
		ČSN EN 62271-202 ed. 2, cl. 6.2 (except in, cl. 6.2.102.3) IEC 62271-202, cl. 6.2 (except in, cl. 6.2.102.3)	HV/LV prefabricated substation
		ČSN EN 60076-3 ed. 2, cl. 13 (except in, cl. 13.3) IEC 60076-3, cl. 13 (except in, cl. 13.3) ČSN EN 60076-13, cl. 12.4.8 IEC 60076-13, cl. 12.4.8	Power transformers
		ČSN EN 60076-11 ed. 2, cl. 14.3.1 IEC 60076-11, cl. 14.3.1	Dry-type transformers
		ČSN EN 60282-1 ed. 4, cl. 7.4 IEC 60282-1, cl. 7.4 IEEE Std. C37.41, cl. 8 (except in, cl. 8.4, 8.6, 8.7)	HV current-limiting fuses



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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN IEC 282-2, cl. 8.4 (except in, cl. 8.4.7) IEC 60282-2, cl. 8.4 (except in, cl. 8.4.7) IEEE Std. C37.41, cl. 8 (except in, cl. 8.4, 8.6, 8.7)	HV expulsion fuses
		ČSN EN 60269-1 ed. 3, cl. 8.2 IEC 60269-1, cl. 8.2	LV fuses
4	Induced voltage tests (IVW and IVPD)	ČSN EN 60076-3 ed. 2, cl. 7.3.1.3, 11 IEC 60076-3, cl. 7.3.1.3, 11 GOST 1516.1-76, cl. 1.7, 2.4.2	Power transformers
		ČSN EN 60076-11 ed. 2, cl. 14.2.6 IEC 60076-11, cl. 14.2.6	Dry-type transformers
5	Partial discharge measurement	ČSN EN 60270 IEC 60270	Electrical apparatus, components or systems tested with alternating voltages
		ČSN EN 62271-100 ed. 2, cl. 6.2.9 IEC 62271-100, cl. 6.2.9	HV circuit breakers
		ČSN EN 62271-200 ed. 2, cl. 6.2.9, Annex BB IEC 62271-200, cl. 6.2.9, Annex BB	Metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 60076-13, cl. 12.1 IEC 60076-13, cl. 12.1	Power transformers
		ČSN EN 60076-11 ed. 2, cl. 14.2.7 IEC 60076-11, cl. 14.2.7	Dry-type transformers
6	Measurement of winding resistance	ČSN EN 60076-1, cl. 11.2 IEC 60076-1, cl. 11.2 GOST 3484.1-88, cl. 4	Power transformers
		ČSN EN 60076-11 ed. 2, cl. 14.2.1 IEC 60076-11, cl. 14.2.1	Dry-type transformers

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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
7	Measurement of voltage ratio and check of phase displacement	ČSN EN 60076-1, cl. 11.3 IEC 60076-1, cl. 11.3 GOST 3484.1-88, cl. 2, 3	Power transformers
		ČSN EN 60076-11 ed. 2, cl. 14.2.2 IEC 60076-11, cl. 14.2.2	Dry-type transformers
8	Measurement of short-circuit impedance and load loss	ČSN EN 60076-1, cl. 11.4 IEC 60076-1, cl. 11.4 GOST 3484.1-88, cl. 5	Power transformers
		ČSN EN 60076-11 ed. 2, cl. 14.2.3 IEC 60076-11, cl. 14.2.3	Dry-type transformers
9	Measurement of no-load loss and current	ČSN EN 60076-1, cl. 11.5 IEC 60076-1, cl. 11.5 GOST 3484.1-88, cl. 6	Power transformers
		ČSN EN 60076-11 ed. 2, cl. 14.2.4 IEC 60076-11, cl. 14.2.4	Dry-type transformers
10	Measurement of zero-sequence impedance	ČSN EN 60076-1, cl. 11.6 IEC 60076-1, cl. 11.6 GOST 3484.1-88, cl. 7	Power transformers
11	Measurement of insulation resistance of winding	GOST 3484.3-88 (except in, cl. 4.2 and 5.2)	Power transformers
12	Transformer pressure test	ČSN EN 60076-13, cl. 12.2 IEC 60076-13, cl. 12.2	Power transformers
13	Determination of sound levels	ČSN EN 60076-10 ed. 2 (except in, cl. 11.2.5.2, 11.2.5.4 and 11.3) IEC 60076-10 (except in, cl. 11.2.5.2, 11.2.5.4 and 11.3)	Power transformers
		ČSN EN 60076-11 ed. 2, cl. 14.4.2 IEC 60076-11, cl. 14.4.2	Dry-type transformers
14	Tests on on-load tap-changers	ČSN EN 60076-1, cl. 11.7 IEC 60076-1, cl. 11.7	Power transformers

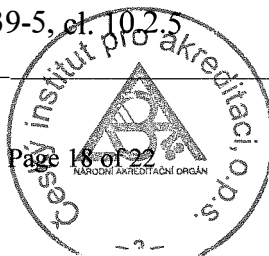


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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
15	Verification of dielectric properties	ČSN EN 61439-1 ed. 2, cl. 9.1.2, 9.1.3, 9.1.4, 10.9 (except in, cl.10.9.3.4 and 10.9.3.5) IEC 61439-1, cl. 9.1.2, 9.1.3, 9.1.4, 10.9 (except in, cl. 10.9.3.3, 10.9.3.4 and 10.9.3.5)	LV switchgear and controlgear assemblies
		ČSN EN 61439-2 ed. 2, cl. 9.1.2, 9.1.3, 10.9 (except in, cl. 10.9.3.4 and 10.9.3.5) IEC 61439-2, cl. 9.1.2, 9.1.3, 10.9 (except in, cl. 10.9.3.3, 10.9.3.4 and 10.9.3.5)	Power LV switchgear and controlgear assemblies
		ČSN EN 61439-4, cl. 9.1.2, 9.1.3, 10.9 (except in, cl. 10.9.3.4 and 10.9.3.5) IEC 61439-4, cl. 9.1.2, 9.1.3, 10.9 (except in, cl. 10.9.3.4 and 10.9.3.5)	Assemblies for construction sites
		ČSN EN 61439-5 ed. 2, cl. 9.1.2, 9.1.3, 10.9 (except in, cl. 10.9.3.4 and 10.9.3.5) IEC 61439-5, cl. 9.1.2, 9.1.3, 10.9 (except in, cl. 10.9.3.4 and 10.9.3.5)	Assemblies for power distribution in public networks
		ČSN EN 61439-6, cl. 9.1.2, 9.1.3, 10.9 (except in, cl. 10.9.3.4 and 10.9.3.5) IEC 61439-6, cl. 9.1.2, 9.1.3, 10.9 (except in, cl. 10.9.3.4 and 10.9.3.5)	Busbar trunking systems
		ČSN EN 61921, cl. 7.2.2 IEC 61921, cl. 7.9	Low-voltage power factor correction banks
16	Design verification by lifting	ČSN EN 61439-1 ed. 2, cl. 10.2.5 IEC 61439-1, cl. 10.2.5	LV switchgear and controlgear assemblies
		ČSN EN 61439-2 ed. 2, cl. 10.2.5 IEC 61439-2, cl. 10.2.5	Power LV switchgear and controlgear assemblies
		ČSN EN 61439-5 ed. 2, cl. 10.2.5 IEC 61439-5, cl. 10.2.5	Assemblies for power distribution in public networks

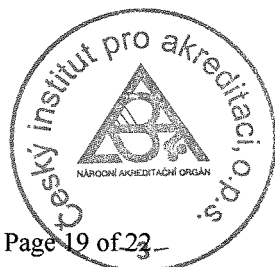


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Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 61439-6, cl. 10.2.5 IEC 61439-6, cl. 10.2.5	Busbar trunking systems
17	Verification of the degree of protection	ČSN EN 60529, cl. 11 – 15 (except in, cl. 13.4 – 13.6, 14.2.7 – 14.2.9) IEC 60529, cl. 11 – 15 (except in, cl. 13.4 – 13.6, 14.2.7 – 14.2.9)	Degree of protection up to IP 46
		ČSN EN 61439-1 ed. 2, cl. 8.2.2, 8.2.3, 8.4.2.3, 10.3 IEC 61439-1, cl. 8.2.2, 8.2.3, 8.4.2.3, 10.3	LV switchgear and controlgear assemblies
		ČSN EN 61439-2 ed. 2, cl. 8.2.2, 8.2.3, 8.4.2.3, 8.2.101, 8.101, 10.3 IEC 61439-2, cl. 8.2.2, 8.2.3, 8.4.2.3, 8.2.101, 8.101, 10.3	Power LV switchgear and controlgear assemblies
		ČSN EN 61439-5 ed. 2, cl. 8.2.2, 8.2.3, 8.4.2.3, 8.2.101, 8.101, 10.3 IEC 61439-5, cl. 8.2.2, 8.2.3, 8.4.2.3, 8.2.101, 8.101, 10.3	Assemblies for power distribution in public networks
		ČSN EN 61439-6, cl. 8.2.2, 8.2.3, 8.4.2.3 and 10.3 IEC 61439-6, cl. 9.1.2, 8.2.2, 8.2.3, 8.4.2.3 and 10.3	Busbar trunking systems
		ČSN EN 61921, cl. 7.2.7 IEC 61921, cl. 7.3	Low-voltage power factor correction banks
		ČSN EN 62271-1 ed. 2, cl. 7.7.1 (except in Annex C) IEC 62271-1, cl. 7.7.1 (except in Annex C)	HV switchgear and controlgear for voltages above 1 kV

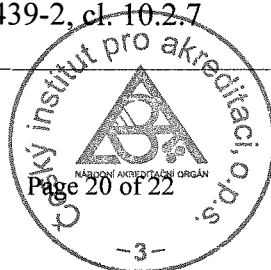


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		ČSN EN 62271-200 ed. 2, cl. 6.7.1 (except in Annex C) IEC 62271-200, cl. 6.7.1 (except in Annex C)	Metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 62271-202 ed. 2, cl. 6.7.1 IEC 62271-202, cl. 6.7.1	HV/LV prefabricated substation
		ČSN EN 60282-1 ed. 4, cl. 8.4.2 IEC 60282-1, cl. 8.4.2	HV current-limiting fuses
18	Verification of the clearances and creepage distances	ČSN EN 61439-1 ed. 2, cl. 8.3, 10.4, Annex F IEC 61439-1, cl. 8.3, 10.4, Annex F	LV switchgear and controlgear assemblies
		ČSN EN 61439-2 ed. 2, cl. 8.3, 10.4, Annex F IEC 61439-2, cl. 8.3, 10.4, Annex F	Power LV switchgear and controlgear assemblies
		ČSN EN 61439-5 ed. 2, cl. 8.3, 10.4, Annex F IEC 61439-5, cl. 8.3, 10.4, Annex F	Assemblies for power distribution in public networks
		ČSN EN 61439-6, cl. 8.3, 10.4, Annex F IEC 61439-6, cl. 8.3, 10.4, Annex F	Busbar trunking systems
		ČSN EN 61921, cl. 7.2.5 IEC 61921, cl. 7.4	Low-voltage power factor correction banks
		ČSN EN 60282-1 ed. 4, cl. 6.3, Annex D IEC 60282-1, cl. 6.3, Annex D	HV current-limiting fuses
19	Verification of the marking resistance	ČSN EN 61439-1 ed. 2, cl. 10.2.7 IEC 61439-1, cl. 10.2.7	LV switchgear and controlgear assemblies
		ČSN EN 61439-2 ed. 2, cl. 10.2.7 IEC 61439-2, cl. 10.2.7	Power LV switchgear and controlgear assemblies

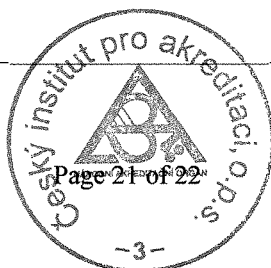


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		ČSN EN 61439-5 ed. 2, cl. 10.2.7 IEC 61439-5, cl. 10.2.7	Assemblies for power distribution in public networks
		ČSN EN 61439-6, cl. 10.2.7 IEC 61439-6, cl. 10.2.7	Busbar trunking systems
		ČSN EN 60282-1 ed. 4, cl. 6.2 IEC 60282-1, cl. 6.2	HV current-limiting fuses
20	Verification of mechanical operation	ČSN IEC 282-2, cl. 8.8 IEC 60282-2, cl. 8.8 IEEE Std. C37.41, cl. 13.2	HV expulsion fuses
		ČSN EN 61439-1 ed. 2, cl. 10.13 IEC 61439-1, cl. 10.2.8	LV switchgear and controlgear assemblies
		ČSN EN 61439-2 ed. 2, cl. 10.13 IEC 61439-2, cl. 10.2.8	Power LV switchgear and controlgear assemblies
		ČSN EN 61439-5 ed. 2, cl. 10.13 IEC 61439-5, cl. 10.13	Assemblies for power distribution in public networks
		ČSN EN 61439-6, cl. 10.13 IEC 61439-6, cl. 10.13	Busbar trunking systems
		ČSN EN 61921, cl. 7.2.6 IEC 61921, cl. 7.13	Low-voltage power factor correction banks
21	Tests of strikers	ČSN EN 60282-1 ed. 4, cl. 8.3.2 IEC 60282-1, cl. 8.3.2	HV current-limiting fuses
22	Magnetic losses test	ČSN EN 61284, cl. 12 IEC 61284, cl. 12	Fittings for overhead lines
23	Heat cycle tests	ČSN EN 61284, cl. 13 IEC 61284, cl. 13	Fittings for overhead lines
		ANSI C 119.0, cl. 5.1	Electric connectors
		ANSI C 119.4, cl. 6.3.1	Electric connectors - for Al and Cu conductors
24	Verification of protection against mechanical impact	ČSN EN 62262, cl. 6 IEC 62262, cl. 6	Degree of protection against mechanical impact (IK code) from 07 to 10



**The Appendix is an integral part of
Certificate of Accreditation No. 375/2021 of 14/07/2021**

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

Zkušebnictví, a.s.
KEMA Labs
Podnikatelská 547, 190 11 Praha 9 – Běchovice

Ordinal Number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
		ČSN EN 62208 ed. 2, cl. 9.7 IEC 62208, cl. 9.7	Empty enclosures for LV switchgear and controlgear assemblies
		ČSN EN 61439-1 ed. 2, cl. 10.2.6 IEC 61439-1, cl. 10.2.6	LV switchgear and controlgear assemblies
		ČSN EN 61439-2 ed. 2, cl. 10.2.6 IEC 61439-2, cl. 10.2.6	Power LV switchgear and controlgear assemblies
		ČSN EN 61439-6, cl. 10.2.6 IEC 61439-6, cl. 10.2.6	Busbar trunking systems
		ČSN EN 61921, cl. 7.2.7 IEC 61921, cl. 7.3	Low-voltage power factor correction banks
		ČSN EN 62271-1 ed. 2, cl. 7.7.2 IEC 62271-1, cl. 7.7.2	HV switchgear and controlgear for voltages above 1 kV
		ČSN EN 62271-200 ed. 2, cl. 6.7.2 IEC 62271-200, cl. 6.7.2	Metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV
		ČSN EN 62271-202 ed. 2, cl. 6.7, 6.101.3, Annex CC IEC 62271-202, cl. 6.7, 6.101.3, Annex CC	HV/LV prefabricated substations

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 edition of the specified procedure is used (including any changes)

Explanations:

GOST – Russian standards

IEEE – Institute of Electrical and Electronics Engineers

STL – Short-Circuit Testing Liaison

IVW – Induced voltage withstand test

IVPD – Induced voltage test with partial discharge measurement

HV – High Voltage

LV – Low Voltage

