

**The Appendix is an integral part of
Certificate of Accreditation No: 387/2024 of 14/08/2024**

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

Vysoké učení technické v Brně
CAB number 1657, CVVOZE Testing Laboratory
Technická 3082/12, 616 00 Brno

Testing laboratory locations:

1. **Location ZL1 – Environmental Testing Laboratory**
Technická 3082/12, 616 00 Brno
2. **Location ZL3 – Switchgear Testing Laboratory**
Kolejní 3093/7, 616 00 Brno

The laboratory applies a flexible approach to the scope of accreditation.

1. **Location ZL1 – Environmental Testing Laboratory**

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Cold test	PI 1.01 (ČSN EN 60068-2-1)	Mechanical, electrotechnical and electronic components, products and parts	-
2	Test: dry heat	PI 1.02 (ČSN EN 60068-2-2)	Mechanical, electrotechnical and electronic components, products and parts	-
3	Test Nb: change of temperature with specified rate of change	PI 1.03 (ČSN EN IEC 60068-2-14, test Nb)	Mechanical, electrotechnical and electronic components, products and parts	-
4	Test: damp heat, cyclic	PI 1.04 (ČSN EN 60068-2-30)	Mechanical, electrotechnical and electronic components, products and parts	-
5	Test: composite temperature/humidity cyclic test	PI 1.05 (ČSN EN IEC 60068-2-38)	Mechanical, electrotechnical and electronic components, products and parts	-
6	Test: damp heat, steady state	PI 1.06 (ČSN EN 60068-2-78)	Mechanical, electrotechnical and electronic components, products and parts	-
7	Test: vibration, sinusoidal	PI 1.07 (ČSN EN 60068-2-6; MIL-STD-810, method 514)	Mechanical, electrotechnical and electronic components, products and parts	-
8	Test: vibration, time-history	PI 1.08 (ČSN EN 60068-2-57)	Mechanical, electrotechnical and	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
			electronic components, products and parts	
9	Test: vibration, sine-beat method	PI 1.09 (ČSN EN 60068-2-57)	Mechanical, electrotechnical and electronic components, products and parts	-
10	Test: vibration, broadband random	PI 1.10 (ČSN EN 60068-2-64; ČSN EN 61373, except cl. 10; MIL-STD-810, method 514)	Mechanical, electrotechnical and electronic components, products and parts	-
11	Test: vibration, mixed mode	PI 1.11 (ČSN EN 60068-2-80)	Mechanical, electrotechnical and electronic components, products and parts	-
12	Combined vibration/shock test	PI 1.12 (ČSN EN 60068-2-53)	Mechanical, electrotechnical and electronic components, products and parts	-
13	Shock/bump test	PI 1.13 (ČSN EN 60068-2-27; ČSN EN 61373, except cl. 8, 9; ČSN EN 60068-2-81; MIL-STD-810, method 516)	Mechanical, electrotechnical and electronic components, products and parts	-
14	Seismic capability tests	PI 1.14 (ČSN EN IEC 60068-3-3)	Mechanical, electrotechnical and electronic components, products and parts	-
15	Impact/bounce testing of loose cargo and transport packages	PI 1.15 (ČSN EN 60068-2-55, except methods A, B; ČSN EN ISO 13355)	Mechanical, electrotechnical and electronic components, products and parts	-
16	Vertical impact test by dropping	PI 1.16 (ČSN EN 60068-2-31; ČSN EN 22248)	Mechanical, electrotechnical and electronic components, products and parts	-

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 the laboratory does not apply a flexible approach to the scope of accreditation

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2. Location ZL3 – Switchgear Testing Laboratory

Tests:

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
1	Tests of short-circuit (residual) tripping and switching capacities	PI 3.01 (ČSN EN 60898-1, cl. 9.12; ČSN EN 60898-2, cl. 9.12; ČSN EN 60947-2, cl. 8.3.4.2, 8.3.5.3, 8.3.6.5, 8.3.7.2, 8.3.7.6, 8.3.7.7, 8.3.8.4, Annex A, Annex C.2, Annex H.2, Annex B – cl. B.8.1.1.2 (excl. B.8.1.1.2.3) and B.8.10, Annex M – cl. M.8.14, Annex P – cl. P.8.3.4, P.8.3.5, P.8.3.6; ČSN EN IEC 60947-3, cl. 9.3.6.3; ČSN EN 61008-1, cl. 9.11; ČSN EN 61009-1, cl. 9.12; ČSN EN 60269-1, cl. 8.5, 8.6, 8.7; ČSN EN 60269-4, cl.8.5; ČSN EN 60269-6, cl. 8.5; ČSN EN 50123-1, cl. 7.6)	Breaking, switching and protection devices	-
2	Tests of short-term withstand and dynamic currents, conditional short-circuit currents	PI 3.01 (ČSN EN 60947-2, cl. 8.3.6.3, 8.3.8.3, Annex B.8.1.1.2.3; ČSN EN IEC 60947-3, cl. 9.3.6.2, 9.3.7.2.1; ČSN EN IEC 60947-4-1, cl. 9.3.4; ČSN EN IEC 60947-4-2, cl. 9.3.4; ČSN EN 60947-4-3, cl. 9.3.4; ČSN EN 61008-1, cl. 9.11; ČSN EN IEC 61439-1, cl. 10.11.5; ČSN EN IEC 61439-2; ČSN EN 61439-3, cl. 10.11; ČSN EN 61439-4; ČSN EN 61439-5, cl. 10.11; ČSN EN 61439-6, cl. 10.11;	Power electrical equipment intended for the transmission, distribution and use of electrical energy	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
		ČSN EN 61643-11, cl. 8.3.5.3, 8.3.8, 8.6.1.3, 8.6.4.3; ČSN EN 61643-31, cl. 7.4.4; ČSN EN 61869-2, cl. 7.2.201; ČSN EN 60076-5; ČSN EN 50123-1, cl. 7.7; ČSN EN 50526-2, cl. 6.4, 6.5; ČSN EN 62271-1, cl. 7.6; ČSN EN IEC 62271-102, cl. 7.6; ČSN EN IEC 62271-103, cl. 7.6; ČSN EN IEC 62271-104, cl. 7.6; ČSN EN IEC 62271-200, cl. 7.6)		
3	Tests of tripping and switching capacities	PI 3.01 (ČSN EN IEC 60947-3, cl. 9.3.4.4; ČSN EN IEC 60947-4-1, cl. 9.3.3.5; ČSN EN IEC 60947-4-2, cl. 9.3.3.5; ČSN EN 60947-4-3, cl. 9.3.3.5)	Low-voltage Switchgear and controlgear	-
4	Load and overload operability tests	PI 3.02 (ČSN EN 60898-1, cl. 9.11; ČSN EN 60898-2, cl. 9.11; ČSN EN 60947-2, cl. 8.3.3.4.4, 8.3.3.5, 8.3.4.3, 8.3.8.5, 8.3.9, Annex B – cl. B.8.1.1.1, Annex M – cl. M.8.11, Annex P – cl. P.8.3.3, P.8.3.9; ČSN EN IEC 60947-3, cl. 9.3.5.2; ČSN EN IEC 60947-4-1, cl. 9.3.3.6; ČSN EN 61008-1, cl. 9.10; ČSN EN 61009-1, cl. 9.10; ČSN EN 50123-1, cl. 7.3.2)	Low-voltage switchgear and controlgear, protection devices	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
5	No-Load operability tests	PI 3.02 (ČSN EN 60898-1, cl. 9.11; ČSN EN 60898-2, cl. 9.11; ČSN EN 60947-2, cl. 8.3.3.4.3, 8.3.3.4.5, Annex M – cl. M.8.11, Annex P – cl. P.8.3.3; ČSN EN IEC 60947-3, cl. 9.3.5.2; ČSN EN 61008-1, cl. 9.10; ČSN EN 61009-1, cl. 9.10; ČSN EN 50123-1, cl. 7.3.3)	Switchgear and controlgear	-
6	Dielectric withstand voltage test	PI 3.03 (ČSN EN 50123-1, cl. 7.5.2; ČSN EN 50526-2, cl. 6.10; ČSN EN 60898-1, cl. 9.7.3, 9.7.4; ČSN EN 60898-2; ČSN EN 60947-2, cl. 8.3.3.3, 8.3.3.6, 8.3.4.4, 8.3.5.4, 8.3.6.6, 8.3.7.4, 8.3.7.8, 8.3.8.6, Annex C – cl. C.3, Annex H - cl. H.3; ČSN EN IEC 60947-3, cl. 9.3.4.3, 9.3.5.3, 9.3.6.4, 9.3.7.4; ČSN EN IEC 60947-4-1, cl. 9.3.3.4; ČSN EN IEC 60947-4-2, cl. 9.3.3.4; ČSN EN 60947-4-3, cl. 9.3.3.4; ČSN EN 61008-1, cl. 9.7.3, and 9.7.4; ČSN EN 61009-1, cl. 9.7.3, and 9.7.4; ČSN EN 60269-1, cl. 8.2.2; ČSN EN IEC 61439-1, cl. 10.9.2; ČSN EN IEC 61439-2; ČSN EN 61439-3; ČSN EN 61439-4; ČSN EN 61439-5;	Switchgear and controlgear, protection devices, switchboards	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
7	Leakage current test	ČSN EN 61439-6) PI 3.03 (ČSN EN 60947-2, cl. 8.3.3.3, 8.3.3.6, 8.3.4.4, 8.3.5.4, 8.3.6.6, 8.3.7.4, 8.3.7.8, 8.3.8.6, Annex C.3, Annex H.3; ČSN EN IEC 60947-3, cl. 9.3.4.6, 9.3.5.4, 9.3.6.5, 9.3.7.5; ČSN EN IEC 60947-4-1, cl. 9.3.3.4; ČSN EN IEC 60947-4-2, cl. 9.3.3.4; ČSN EN 60947-4-3, cl. 9.3.3.4; ČSN EN 61008-1, cl. 9.7.7.3; ČSN EN 61009-1, cl. 9.7.7.3)	Switchgear and controlgear, switchboards	-
8	Insulation resistance test	PI 3.03 (ČSN EN 60898-1, cl. 9.7.4; ČSN EN 60898-2; ČSN EN 61008-1, cl. 9.7.4; ČSN EN 61009-1, cl. 9.7.4; ČSN EN 60269-1, cl. 8.2.2, 8.5.8)	Switchgear and controlgear, protection devices, switchboards	-
9	Temperature-rise tests	PI 3.04 (ČSN EN 60898-1, cl. 9.8; ČSN EN 60947-2, cl. 8.3.3.7, 8.3.4.5, 8.3.6.4, 8.3.7.3, 8.3.8.7; ČSN EN IEC 60947-3, cl. 9.3.4.7, 9.3.5.5, 9.3.6.6, 9.3.7.6; ČSN EN IEC 60947-4-1, cl. 9.3.3.3; ČSN EN IEC 60947-4-2, cl. 9.3.3.3; ČSN EN 60947-4-3, cl. 9.3.3.3; ČSN EN 61008-1, cl. 9.8; ČSN EN 61009-1, cl. 9.8; ČSN EN 60269-1, cl. 8.3;	Switchgear and controlgear, switchboards, protection devices	-

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Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
		ČSN EN 60269-4, cl. 8.3; ČSN EN 60269-6, cl. 8.3; ČSN EN IEC 61439-1, cl. 10.10.2; ČSN EN IEC 61439-2, cl. 10.10; ČSN EN 61439-3, cl. 10.10; ČSN EN 61439-4, cl. 10.10; ČSN EN 61439-5, cl. 10.10; ČSN EN 61439-6, cl. 10.10; ČSN EN 62271-1, cl. 7.5; ČSN EN IEC 62271-102, cl. 7.5; ČSN EN IEC 62271-103, cl. 7.5; ČSN EN IEC 62271-104, cl. 7.5; ČSN EN IEC 62271-200, cl. 7.5; ČSN EN 50123-1, cl. 7.4; ČSN EN 61869-1, cl. 7.2.2; ČSN EN 61869-2, cl. 7.2.2; ČSN EN 61869-3, cl. 7.2.2; ČSN EN 61869-4, cl. 7.2.2)		
10	Tests of tripping characteristic limits	PI 3.05 (ČSN EN 60898-1, cl. 9.10; ČSN EN 60898-2, cl. 9.10; ČSN EN 60947-2, cl. 8.3.3.2, 8.3.3.8, 8.3.4.6, 8.3.5.2, 8.3.5.5, 8.3.6.2, 8.3.6.7, 8.3.7.5, 8.3.7.9, 8.3.8.2, 8.3.8.8, Annex C – cl. C.4, Annex H – cl. H.4; ČSN EN 61009-1, cl. 9.9.2; ČSN EN 60269-1, cl. 8.4; ČSN EN 60269-4, cl. 8.4; ČSN EN 60269-6, cl. 8.4)	Breaking and protection devices	-

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Explanations:

PI Operating Instructions

"This document is an appendix to the certificate of accreditation. In case of any discrepancies between the English and Czech versions, the Czech version shall prevail, both for the certificate appendix and the certificate itself. "