



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. 447/2025

Vysoké učení technické v Brně
with registered office Antonínská 548/1, Veveří, 602 00 Brno
Company Registration No. 00216305

for the Testing Laboratory No. **1657**
CVVOZE Testing Laboratory

Scope of accreditation:

Testing of climatic and mechanical resistance of electrical engineering, electronic and mechanical products and power testing of power 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 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.: 387/2024 of 14/08/2024, and/or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **03/09/2030**

Prague: 03/09/2025



Signed in the Czech original:
Jan Velíšek on 03/09/2025

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: 447/2025 of 03/09/2025

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 provides opinions and interpretations of the test results.

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 ed. 2)	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 ed. 3, test Nb)	Mechanical, electrotechnical and electronic components, products and parts	-
4	Test: damp heat, cyclic	PI 1.04 (ČSN EN 60068-2-30 ed. 2)	Mechanical, electrotechnical and electronic components, products and parts	-
5	Test: composite temperature/humidity cyclic test	PI 1.05 (ČSN EN IEC 60068-2-38 ed. 2)	Mechanical, electrotechnical and electronic components, products and parts	-
6	Test: damp heat, steady state	PI 1.06 (ČSN EN 60068-2-78 ed. 2)	Mechanical, electrotechnical and electronic components, products and parts	-

**The Appendix is an integral part of
Certificate of Accreditation No: 447/2025 of 03/09/2025**

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

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
7	Test: vibration, sinusoidal	PI 1.07 (ČSN EN 60068-2-6 ed. 2; 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 ed. 2)	Mechanical, electrotechnical and electronic components, products and parts	-
9	Test: vibration, sine-beat method	PI 1.09 (ČSN EN 60068-2-57 ed. 2)	Mechanical, electrotechnical and electronic components, products and parts	-
10	Test: vibration, broadband random	PI 1.10 (ČSN EN 60068-2-64 ed. 2; ČSN EN 61373 ed. 2, 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 ed. 2; ČSN EN 61373 ed. 2, 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 ed. 2)	Mechanical, electrotechnical and electronic components, products and parts	-

**The Appendix is an integral part of
Certificate of Accreditation No: 447/2025 of 03/09/2025**

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

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
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

**The Appendix is an integral part of
Certificate of Accreditation No: 447/2025 of 03/09/2025**

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

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) making and breaking capacities	PI 3.01 (ČSN EN 60898-1 ed. 2, cl. 9.12; ČSN EN 60898-2 ed. 3, cl. 9.12; ČSN EN IEC 60947-2 ed. 5, cl. 9.3.5.2, 9.3.6.3, 9.3.7.5, 9.3.8.2, 9.3.8.6, 9.3.8.7, 9.3.9.4, Annex A, Annex C.2, Annex H.2, Annex B - cl. B.8.1.2.2 (excl. B.8.1.2.2.3) and B.8.11, 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 ed. 4, cl. 9.3.6.3; ČSN EN 61008-1 ed. 3, cl. 9.11; ČSN EN 61009-1 ed. 3, cl. 9.12; ČSN EN 60269-1 ed. 3, cl. 8.5, 8.6, 8.7; ČSN EN 60269-4 ed. 3, cl. 8.5; ČSN EN 60269-6, cl. 8.5; ČSN EN 50123-1 ed. 2, cl. 7.6)	Protective, switching and safety devices	-
2	Tests of short-term withstand and dynamic currents, conditional short-circuit currents	PI 3.01 (ČSN EN IEC 60947-2 ed. 5, cl. 9.3.7.3, 9.3.9.3, Annex B.8.1.2.2.3; ČSN EN IEC 60947-3 ed. 4, cl. 9.3.6.2, 9.3.7.2.1; ČSN EN IEC 60947-4-1 ed. 4, cl. 9.3.4; ČSN EN IEC 60947-4-2 ed. 4, cl. 9.3.4; ČSN EN 60947-4-3 ed. 2, cl. 9.3.4; ČSN EN 61008-1 ed. 3, cl. 9.11; ČSN EN IEC 61439-1 ed. 3, cl. 10.11.5; ČSN EN IEC 61439-2 ed. 3, cl. 10.11.5; ČSN EN IEC 61439-3 ed. 2, cl. 10.11; ČSN EN IEC 61439-5 ed. 3, cl. 10.11; ČSN EN 61439-6, cl. 10.11; ČSN EN 61643-11 ed. 2, 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 ed. 2, cl. 4.1, 4.2; ČSN EN 50123-1 ed. 2, cl. 7.7;	Power electrical equipment intended for the transmission, distribution and use of electrical energy	-

**The Appendix is an integral part of
Certificate of Accreditation No: 447/2025 of 03/09/2025**

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

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
		ČSN EN 50526-2, cl. 6.4, 6.5; ČSN EN 62271-1 ed. 2, cl. 7.6; ČSN EN IEC 62271-102 ed. 2, cl. 7.6; ČSN EN IEC 62271-103 ed. 2, cl. 7.6; ČSN EN IEC 62271-104 ed. 3, cl. 7.6; ČSN EN IEC 62271-200 ed. 3, cl. 7.6; ČSN EN 60077-2 ed. 2, cl. 9.3.4; ČSN EN IEC 60077-3 ed. 2, cl. 9.3.4; ČSN EN IEC 60077-4 ed. 2, cl. 9.3.4)		
3	Tests of making and breaking capacities	PI 3.01 (ČSN EN IEC 60947-3 ed. 4, cl. 9.3.4.4; ČSN EN IEC 60947-4-1 ed. 4, cl. 9.3.3.5; ČSN EN IEC 60947-4-2 ed. 4, cl. 9.3.3.5; ČSN EN 60947-4-3 ed. 2, cl. 9.3.3.5)	Low-voltage Switchgear and controlgear	-
4	Operational performance and overload tests	PI 3.02 (ČSN EN 60898-1 ed. 2, cl. 9.11; ČSN EN 60898-2 ed. 3, cl. 9.11; ČSN EN IEC 60947-2 ed. 5, cl. 9.3.4.4.4, 9.3.4.5, 9.3.5.3, 9.3.9.5, 9.3.10, Annex B - cl. B.8.1.2.1, Annex M - cl. M.8.11, Annex P - cl. P.8.3.3, P.8.3.9; ČSN EN IEC 60947-3 ed. 4, cl. 9.3.5.2; ČSN EN IEC 60947-4-1 ed. 4, cl. 9.3.3.6; ČSN EN 61008-1 ed. 3, cl. 9.10; ČSN EN 61009-1 ed. 3, cl. 9.10; ČSN EN 50123-1 ed. 2, cl. 7.3.2)	Low-voltage switchgear and controlgear, protection devices	-
5	No-Load operability tests	PI 3.02 (ČSN EN 60898-1 ed. 2, cl. 9.11; ČSN EN 60898-2 ed. 3, cl. 9.11; ČSN EN IEC 60947-2 ed. 5, cl. 9.3.4.4.3, 9.3.4.4.5, Annex M - cl. M.8.11, Annex P - cl. P.8.3.3; ČSN EN IEC 60947-3 ed. 4, cl. 9.3.5.2; ČSN EN 61008-1 ed. 3, cl. 9.10;	Switchgear and controlgear	-

**The Appendix is an integral part of
Certificate of Accreditation No: 447/2025 of 03/09/2025**

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

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
		ČSN EN 61009-1 ed. 3, cl. 9.10; ČSN EN 50123-1 ed. 2, cl. 7.3.3)		
6	Dielectric withstand voltage tests	PI 3.03 (ČSN EN 50123-1 ed. 2, cl. 7.5.2; ČSN EN 50526-2, cl. 6.10; ČSN EN 60898-1 ed. 2, cl. 9.7.3, 9.7.4; ČSN EN IEC 60947-2 ed. 5, cl. 9.3.4.3, 9.3.4.6, 9.3.5.4, 9.3.6.4, 9.3.7.6, 9.3.8.4, 9.3.8.8, 9.3.9.6, C - cl. C.3, Annex H - cl. H.3; ČSN EN IEC 60947-3 ed. 4, cl. 9. Annex 3.4.3, 9.3.5.3, 9.3.6.4, 9.3.7.4; ČSN EN IEC 60947-4-1 ed. 4, cl. 9.3.3.4; ČSN EN IEC 60947-4-2 ed. 4, cl. 9.3.3.4; ČSN EN 60947-4-3 ed. 2, cl. 9.3.3.4; ČSN EN 61008-1 ed. 3, cl. 9.7.3 a 9.7.4; ČSN EN 61009-1 ed. 3, cl. 9.7.3 a 9.7.4; ČSN EN 60269-1 ed. 3, cl. 8.2.2; ČSN EN IEC 61439-1 ed. 3, cl. 10.9.2; ČSN EN IEC 61439-5 ed. 3, cl. 10.9.2)	Switchgear and controlgear, protection devices, switchboards	-
7	Leakage current tests	PI 3.03 (ČSN EN IEC 60947-2 ed. 5, cl. 9.3.4.3, 9.3.4.6, 9.3.5.4, 9.3.6.4, 9.3.7.6, 9.3.8.4, 9.3.8.8, 9.3.9.6, Annex C.3, Annex H.3; ČSN EN IEC 60947-3 ed. 4, cl. 9.3.4.6, 9.3.5.4, 9.3.6.5, 9.3.7.5; ČSN EN IEC 60947-4-1 ed. 4, cl. 9.3.3.4; ČSN EN IEC 60947-4-2 ed. 4, cl. 9.3.3.4; ČSN EN 60947-4-3 ed. 2, cl. 9.3.3.4; ČSN EN 61008-1 ed. 3, cl. 9.7.7.3; ČSN EN 61009-1 ed. 3, cl. 9.7.7.3)	Switchgear and controlgear, switchboards	-
8	Insulation resistance tests	PI 3.03 (ČSN EN 60898-1 ed. 2, cl. 9.7.4; ČSN EN 61008-1 ed. 3, cl. 9.7.4; ČSN EN 61009-1 ed. 3, cl. 9.7.4; ČSN EN 60269-1 ed. 3, cl. 8.2.2, 8.5.8)	Switchgear and controlgear, protection devices, switchboards	-

**The Appendix is an integral part of
Certificate of Accreditation No: 447/2025 of 03/09/2025**

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

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
9	Temperature-rise tests	PI 3.04 (ČSN EN 60898-1 ed. 2, cl. 9.8; ČSN EN IEC 60947-2 ed. 5, cl. 9.3.4.7, 9.3.5.5, 9.3.7.4, 9.3.8.3, 9.3.9.7; ČSN EN IEC 60947-3 ed. 4, cl. 9.3.4.7, 9.3.5.5, 9.3.6.6, 9.3.7.6; ČSN EN IEC 60947-4-1 ed. 4, cl. 9.3.3.3; ČSN EN IEC 60947-4-2 ed. 4, cl. 9.3.3.3; ČSN EN 60947-4-3 ed. 2, cl. 9.3.3.3; ČSN EN 61008-1 ed. 3, cl. 9.8; ČSN EN 61009-1 ed. 3, cl. 9.8; ČSN EN 60269-1 ed. 3, cl. 8.3; ČSN EN 60269-4 ed. 3, cl. 8.3; ČSN EN 60269-6, cl. 8.3; ČSN EN IEC 61439-1 ed. 3, cl. 10.10.2; ČSN EN IEC 61439-2 ed. 3, cl. 10.10; ČSN EN IEC 61439-3 ed. 2, cl. 10.10; ČSN EN 61439-4, cl. 10.10; ČSN EN IEC 61439-5 ed. 3, cl. 10.10; ČSN EN 61439-6, cl. 10.10; 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; ČSN EN IEC 62271-200 ed. 3, cl. 7.5; ČSN EN 50123-1 ed. 2, 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; ČSN EN 60077-1 ed. 2, cl. 9.3.2; ČSN EN 60077-2 ed. 2, cl. 9.3.3.4; ČSN EN IEC 60077-3 ed. 2, cl. 9.3.3.4; ČSN EN IEC 60077-4 ed. 2, cl. 9.3.3.4)	Switchgear and controlgear, switchboards, protection devices	-

**The Appendix is an integral part of
Certificate of Accreditation No: 447/2025 of 03/09/2025**

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

Ordinal number ¹	Test procedure / method name	Test procedure / method identification ²	Tested subject	Degrees of freedom ³
10	Tests of tripping characteristic limits	PI 3.05 (ČSN EN 60898-1 ed. 2, cl. 9.10; ČSN EN 60898-2 ed. 3, cl. 9.10; ČSN EN IEC 60947-2 ed. 5, cl. 9.3.4.2, 9.3.4.8, 9.3.5.6, 9.3.6.2, 9.3.6.5, 9.3.7.2, 9.3.7.7, 9.3.8.5, 9.3.8.9, 9.3.9.2, 9.3.9.8, Annex C - cl. C.4, Annex H - cl. H.4; ČSN EN 61009-1 ed. 3, cl. 9.9.2; ČSN EN 60269-1 ed. 3, cl. 8.4; ČSN EN 60269-4 ed. 3, cl. 8.4; ČSN EN 60269-6, cl. 8.4)	Breaking and protection devices	-

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)

³ the laboratory does not apply a flexible approach to the scope of accreditation

Explanations:

MIL-STD - Military Standard, set of standards of the US Department of Defense

"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."