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Certificate of Accreditation No: 153/2024 of 02/04/2024

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

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CAB number 1693, Technical Laboratory ABB Brno
Vídeňská 117, 619 00 Brno

Tests:

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1	**Tests of Instrument current transformers**			
1.1	Temperature rise test	ČSN EN 61869-1, cl. 7.2.2; IEC 61869-1 ed.1, cl. 7.2.2; ČSN EN 61869-2, cl. 7.2.2; IEC 61869-2 ed.1, cl. 7.2.2	Instrument current transformers	-
1.2	Impulse voltage withstand test on primary terminals	ČSN EN 61869-1, cl. 7.2.3; IEC 61869-1 ed.1, cl. 7.2.3; ČSN EN 61869-2, cl. 7.2.3; IEC 61869-2 ed.1, cl. 7.2.3	Instrument current transformers	-
1.3	Tests for accuracy	ČSN EN 61869-2, cl. 7.2.6, 7.3.5; IEC 61869-2 ed.1, cl. 7.2.6, 7.3.5	Instrument current transformers	-
1.4	Power-frequency voltage withstand test on primary terminals	ČSN EN 61869-1, cl. 7.3.1; IEC 61869-1 ed.1, cl. 7.3.1; ČSN EN 61869-2, cl. 7.3.1; IEC 61869-2 ed.1, cl. 7.3.1	Instrument current transformers	-
1.5	Partial discharge measurement	ČSN EN 61869-1, cl. 7.3.2; IEC 61869-1 ed.1, cl. 7.3.2	Instrument current transformers	-
1.6	Power-frequency voltage withstand tests between sections	ČSN EN 61869-1, cl. 7.3.3; IEC 61869-1 ed.1, cl. 7.3.3	Instrument current transformers	-
1.7	Power-frequency voltage withstand tests on secondary terminals	ČSN EN 61869-1, cl. 7.3.4; IEC 61869-1 ed.1, cl. 7.3.4	Instrument current transformers	-
1.8	Verification of markings	ČSN EN 61869-1, cl. 7.3.6; IEC 61869-1 ed.1, cl. 7.3.6	Instrument current transformers	-
1.9	Determination of the secondary winding resistance	ČSN EN 61869-2, cl. 7.3.201; IEC 61869-2 ed.1, cl. 7.3.201	Instrument current transformers	-
1.10	Determination of the secondary loop time constant using the Omicron instrument	ČSN EN 61869-2, cl. 7.3.202; IEC 61869-2 ed.1, cl. 7.3.202	Instrument current transformers	-
1.11	Measurement of limit current and voltage	ČSN EN 61869-2, cl. 7.3.203; IEC 61869-2 ed.1, cl. 7.3.203	Instrument current transformers	-

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CAB number 1693, Technical Laboratory ABB Brno
Vídeňská 117, 619 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
1.12	Inter-turn overvoltage test	ČSN EN 61869-2, cl. 7.3.204; IEC 61869-2 ed.1, cl. 7.3.204	Instrument current transformers	-
1.13	Determination of the remanence factor	ČSN EN 61869-2, cl. 7.5.1, 2B.2; IEC 61869-2 ed.1, cl. 7.5.1, 2B.2	Instrument current transformers	-
1.14	Determination of the instrument security factor (FS) of measuring current transformers	ČSN EN 61869-2, cl. 7.5.2, 2A.5, 2A.6; IEC 61869-2 ed.1, cl. 7.5.2, 2A.5, 2A.6	Instrument current transformers	-
1.15	Verification of the degree of protection by enclosures IP2X, IP3X, IP4X	ČSN EN 61869-1 cl. 7.2.7; IEC 61869-1 ed.1, cl. 7.2.7	Instrument current transformers	-
1.16	Test Nb: Change of temperature with specified rate of change	ČSN EN 60068-2-14, ed.2, cl. 8; IEC 60068-2-14, ed.7, cl. 8	Instrument current transformers	-
2	**Tests of Instrument voltage transformers**			
2.1	Temperature rise test	ČSN EN 61869-1, cl. 7.2.2; IEC 61869-1 ed.1, cl. 7.2.2; ČSN EN 61869-3, cl. 7.2.2; IEC 61869-3 ed.1, cl. 7.2.2	Instrument voltage transformers	-
2.2	Impulse voltage withstand test on primary terminals	ČSN EN 61869-1, cl. 7.2.3; IEC 61869-1 ed.1, cl. 7.2.3; ČSN EN 61869-3, cl. 7.2.3; IEC 61869-3 ed.1, cl. 7.2.3	Instrument voltage transformers	-
2.3	Tests for accuracy	ČSN EN 61869-3, cl. 7.2.6, 7.3.5; IEC 61869-3 ed.1, cl. 7.2.6, 7.3.5	Instrument voltage transformers	-
2.4	Power-frequency voltage withstand test on primary terminals	ČSN EN 61869-1, cl. 7.3.1; IEC 61869-1 ed.1, cl. 7.3.1; ČSN EN 61869-3, cl. 7.3.1; IEC 61869-3 ed.1, cl. 7.3.1	Instrument voltage transformers	-
2.5	Partial discharge measurement	ČSN EN 61869-1, cl. 7.3.2; IEC 61869-1 ed.1, cl. 7.3.2; ČSN EN 61869-3, cl. 7.3.2; IEC 61869-3 ed.1, cl. 7.3.2	Instrument voltage transformers	-
2.6	Power-frequency voltage withstand tests between sections	ČSN EN 61869-1, cl. 7.3.3; IEC 61869-1 ed.1, cl. 7.3.3	Instrument voltage transformers	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
2.7	Power-frequency voltage withstand tests on secondary terminals	ČSN EN 61869-1, cl. 7.3.4; IEC 61869-1 ed.1, cl. 7.3.4	Instrument voltage transformers	-
2.8	Verification of markings	ČSN EN 61869-1, cl. 7.3.6; IEC 61869-1 ed.1, cl. 7.3.6	Instrument voltage transformers	-
2.9	Test Nb: Change of temperature with specified rate of change	ČSN EN 60068-2-14, ed.2, cl. 8; IEC 60068-2-14, ed.7, cl. 8	Instrument voltage transformers	-
3	**Tests of High-voltage switchgear and controlgear**			
3.1	Power-frequency voltage tests	ČSN EN 62271-1 ed.2, cl. 7.2.7.2; IEC 62271-1 ed.2.1, cl. 7.2.7.2; ČSN EN IEC 62271-200 ed.3, cl. 7.2.7.2; IEC 62271-200 ed.3.0, cl. 7.2.7.2	High voltage switchgear and controlgear	-
3.2	Lightning impulse voltage tests	ČSN EN 62271-1 ed.2, cl. 7.2.7.3; IEC 62271-1 ed.2.1, cl. 7.2.7.3; ČSN EN IEC 62271-200 ed.3, cl. 7.2.7.3; IEC 62271-200 ed.3.0, cl. 7.2.7.3	High voltage switchgear and controlgear	-
3.3	Resistance measurement of contacts and connections in the main circuit as a condition check	ČSN EN 62271-1 ed.2, cl. 7.4.4; IEC 62271-1 ed.2.1, cl. 7.4.4; ČSN EN IEC 62271-200 ed.3, cl. 7.4.4; IEC 62271-200 ed.3.0, cl. 7.4.4	High voltage switchgear and controlgear	-
3.4	Continuous current tests	ČSN EN 62271-1 ed.2, cl. 7.5; IEC 62271-1 ed.2.1, cl. 7.5; ČSN EN IEC 62271-200 ed.3, cl. 7.5; IEC 62271-200 ed.3.0, cl. 7.5	High voltage switchgear and controlgear	-
3.5	Mechanical operation tests	ČSN EN IEC 62271-200 ed.3, cl. 7.102; IEC 62271-200 ed.3.0, cl. 7.102	High voltage switchgear and controlgear	-
3.6	Verification of the IP coding IP 2X, IP 3X, IP 4X	ČSN EN 62271-1 ed.2, cl. 7.7.1; IEC 62271-1 ed.2.1, cl. 7.7.1; ČSN EN IEC 62271-200 ed.3, cl. 7.7.1; IEC 62271-200 ed.3.0, cl. 7.7.1	High voltage switchgear and controlgear	-

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ABB s.r.o.
CAB number 1693, Technical Laboratory ABB Brno
Vídeňská 117, 619 00 Brno

Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
3.7	Partial discharge tests	ČSN EN IEC 62271-200 ed.3, cl. 7.2.10; IEC 62271-200 ed.3.0, cl. 7.2.10; ČSN EN 62271-1 ed.2, cl. 7.2.10; IEC 62271-1 ed.2.1, cl. 7.2.10	High voltage switchgear and controlgear	-
3.8	Dielectric test of insulation	ČSN EN 62271-1 ed.2, cl. 7.10.5; IEC 62271-1 ed.2.1, cl. 7.10.5; ČSN EN IEC 62271-200 ed.3, cl. 7.10.5; IEC 62271-200 ed.3.0, cl. 7.10.5	High voltage switchgear and controlgear	-
3.9	Information for identification of test objects	ČSN EN 62271-1 ed.2, cl. 7.1.2; IEC 62271-1 ed.2.1, cl. 7.1.2; ČSN EN IEC 62271-200 ed.3, cl. 7.1.2; IEC 62271-200 ed.3.0, cl. 7.1.2	High voltage switchgear and controlgear	-
3.10	Electrical continuity of earthed metallic parts test	ČSN EN 62271-1 ed.2, cl. 7.4.3; IEC 62271-1 ed.2.1, cl. 7.4.3; ČSN EN IEC 62271-200 ed.3, cl. 7.4.3; IEC 62271-200 ed.3.0, cl. 7.4.3	High voltage switchgear and controlgear	-
3.11	Ageing test at severe climatic conditions	IEC/TS 62271-304 ed.2.0, cl. 9, cl. 10	High voltage switchgear and controlgear	-
4	**Tests of Low-power passive voltage transformer**			
4.1	Temperature-rise test	ČSN EN 61869-1, cl. 7.2.2; IEC 61869-1 ed.1, cl. 7.2.2; ČSN EN IEC 61869-6, cl. 7.2.2; IEC 61869-6 ed.1, cl. 7.2.2; IEC 61869-11 ed.1, cl. 7.2.2	Low-power passive voltage transformer	-
4.2	Lightning impulse voltage test on primary terminals	ČSN EN 61869-1, cl. 7.2.3.2; ČSN EN IEC 61869-6, cl. 7.2.3; IEC 61869-1 ed.1, cl. 7.2.3.2; IEC 61869-6 ed.1, cl. 7.2.3	Low-power passive voltage transformer	-
4.3	Basic accuracy tests	IEC 61869-11 ed.1, cl. 7.2.6.602	Low-power passive voltage transformer	-
4.4	Temperature cycle accuracy test	ČSN EN IEC 61869-6, cl. 7.2.6.603; IEC 61869-6 ed.1, cl. 7.2.6.603	Low-power passive voltage transformer	-

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Certificate of Accreditation No: 153/2024 of 02/04/2024

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CAB number 1693, Technical Laboratory ABB Brno
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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
4.5	Test for accuracy versus frequency	ČSN EN IEC 61869-6, cl. 7.2.6.604; IEC 61869-6 ed.1, cl. 7.2.6.604	Low-power passive voltage transformer	-
4.6	Test for impact of electric field from other phases	IEC 61869-11 ed.1, cl. 7.2.6.1101	Low-power passive voltage transformer	-
4.7	Low-voltage component voltage withstand test	IEC 61869-11 ed.1, cl. 7.2.601	Low-power passive voltage transformer	-
4.8	Chopped impulse voltage withstand test on primary terminals	ČSN EN 61869-1, cl. 7.4.1; IEC 61869-1 ed.1, cl. 7.4.1	Low-power passive voltage transformer	-
4.9	Power-frequency voltage withstand tests on primary terminals	ČSN EN 61869-1, cl. 7.3.1; IEC 61869-1 ed.1, cl. 7.3.1; ČSN EN IEC 61869-6, cl. 7.3.1; IEC 61869-6 ed.1, cl. 7.3.1	Low-power passive voltage transformer	-
4.10	Partial discharge measurement	ČSN EN 61869-1, cl. 7.3.2; IEC 61869-1 ed.1, cl. 7.3.2	Low-power passive voltage transformer	-
4.11	Power-frequency voltage withstand tests on secondary terminals	ČSN EN 61869-1, cl. 7.3.4; IEC 61869-1 ed.1, cl. 7.3.4; ČSN EN IEC 61869-6, cl. 7.3.4; IEC 61869-6 ed.1, cl. 7.3.4; IEC 61869-11 ed.1, cl. 7.3.4	Low-power passive voltage transformer	-
4.12	Test for accuracy	ČSN EN IEC 61869-6, cl. 7.3.5; IEC 61869-6 ed.1, cl. 7.3.5; IEC 61869-11 ed.1, cl. 7.3.5	Low-power passive voltage transformer	-
4.13	Verification of markings	ČSN EN 61869-1, cl. 7.3.6; IEC 61869-1 ed.1, cl. 7.3.6	Low-power passive voltage transformer	-
4.14	Primary short-circuit test	IEC 61869-11 ed.1, cl. 7.4.1102.2	Low-power passive voltage transformer	-
4.15	Test Nb: Change of temperature with specified rate of change	ČSN EN 60068-2-14 ed.2, cl. 8 IEC 60068-2-14 ed.7, cl. 8	Low-power passive voltage transformer	-

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5	**Tests of Low-power passive current transformer**			
5.1	Temperature-rise test	ČSN EN 61869-1, cl. 7.2.2; IEC 61869-1 ed.1, cl. 7.2.2; ČSN EN IEC 61869-6, cl. 7.2.2; IEC 61869-6 ed.1, cl. 7.2.2; IEC 61869-10 ed.1, cl. 7.2.2	Low-power passive current transformer	-
5.2	Lightning impulse voltage test on primary terminals	ČSN EN 61869-1, cl. 7.2.3.2; IEC 61869-1 ed.1, cl. 7.2.3.2; ČSN EN IEC 61869-6, cl. 7.2.3; IEC 61869-6 ed.1, cl. 7.2.3	Low-power passive current transformer	-
5.3	Basic accuracy tests	ČSN EN IEC 61869-6, cl. 7.2.6.602; IEC 61869-6 ed.1, cl. 7.2.6.602; IEC 61869-10 ed.1, cl. 7.2.6.602	Low-power passive current transformer	-
5.4	Temperature cycle accuracy test	ČSN EN IEC 61869-6, cl. 7.2.6.603; IEC 61869-6 ed.1, cl. 7.2.6.603	Low-power passive current transformer	-
5.5	Test for accuracy versus frequency	ČSN EN IEC 61869-6, cl. 7.2.6.604; IEC 61869-6 ed.1, cl. 7.2.6.604; IEC 61869-10 ed.1, cl. 7.2.6.604	Low-power passive current transformer	-
5.6	Test for accuracy in respect of the positioning of the primary conductor	IEC 61869-10 ed.1, cl. 7.2.6.1001	Low-power passive current transformer	-
5.7	Test for impact of magnetic field from other phases	IEC 61869-10 ed.1, cl. 7.2.6.1002	Low-power passive current transformer	-
5.8	Power-frequency voltage withstand test - Low-voltage component	ČSN EN IEC 61869-6, cl. 7.2.601.3; IEC 61869-6 ed.1, cl. 7.2.601.3	Low-power passive current transformer	-
5.9	Impulse-voltage withstand test - Low-voltage component	ČSN EN IEC 61869-6, cl. 7.2.601.4; IEC 61869-6 ed.1, cl. 7.2.601.4	Low-power passive current transformer	-
5.10	Power-frequency voltage withstand tests on primary terminals	ČSN EN 61869-1, cl. 7.3.1; IEC 61869-1 ed.1, cl. 7.3.1; ČSN EN IEC 61869-6, cl. 7.3.1; IEC 61869-6 ed.1, cl. 7.3.1	Low-power passive current transformer	-
5.11	Partial discharge measurement	ČSN EN 61869-1, cl. 7.3.2; IEC 61869-1 ed.1, cl. 7.3.2	Low-power passive current transformer	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
5.12	Power-frequency voltage withstand tests on secondary terminals	ČSN EN 61869-1, cl. 7.3.4; IEC 61869-1 ed.1, cl. 7.3.4; ČSN EN IEC 61869-6, cl. 7.3.4; IEC 61869-6 ed.1, cl. 7.3.4	Low-power passive current transformer	-
5.13	Test for accuracy	ČSN EN IEC 61869-6, cl. 7.3.5; IEC 61869-6 ed.1, cl. 7.3.5	Low-power passive current transformer	-
5.14	Verification of markings	ČSN EN 61869-1, cl. 7.3.6; IEC 61869-1 ed.1, cl. 7.3.6	Low-power passive current transformer	-
5.15	Power-frequency voltage withstand test for low-voltage components	ČSN EN IEC 61869-6, cl. 7.3.601; IEC 61869-6 ed.1, cl. 7.3.601	Low-power passive current transformer	-
5.16	Chopped impulse voltage withstand test on primary terminals	ČSN EN 61869-1, cl. 7.4.1; IEC 61869-1 ed.1, cl. 7.4.1	Low-power passive current transformer	-
5.17	Test Nb: Change of temperature with specified rate of change	ČSN EN 60068-2-14 ed.2, cl. 8; IEC 60068-2-14 ed.7, cl. 8	Low-power passive current transformer	-
6	**Tests of Alternating current disconnectors and earthing switches**			
6.1	Mechanical endurance test	ČSN EN IEC 62271-102 ed.2, cl. 7.102.3; IEC 62271-102 ed.2.1, cl. 7.102.3	Alternating current disconnectors and earthing switches	-
7	**Tests of Low-voltage switchgear and controlgear assemblies**			
7.1	Temperature-rise - Verification by testing	ČSN EN IEC 61439-1 ed.3, cl. 10.10.2; IEC 61439-1 ed.3.0, cl. 10.10.2	Low-voltage switchgear and controlgear assemblies	-
7.2	Power-frequency withstand voltage	ČSN EN IEC 61439-1 ed.3, cl. 10.9.2; IEC 61439-1 ed.3.0, cl. 10.9.2	Low-voltage switchgear and controlgear assemblies	-
7.3	Impulse withstand voltage test	ČSN EN IEC 61439-1 ed.3, cl. 10.9.3.2; IEC 61439-1 ed.3.0, cl. 10.9.3.2	Low-voltage switchgear and controlgear assemblies	-
7.4	Partial discharge test	ČSN EN IEC 60664-1 ed.3, cl. 6.1.3.5; IEC 60664-1 ed.3.0, cl. 6.4.6	Low-voltage switchgear and controlgear assemblies	-

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Ordinal number[1]	Test procedure / method name	Test procedure / method identification[2]	Tested subject	Degrees of freedom[3]
8	**Tests of Alternating-current circuit-breakers**			
8.1	Power-frequency voltage tests	ČSN EN IEC 62271-100, ed.3, cl. 7.2.7.2; IEC 62271-100, ed.3.0, cl. 7.2.7.2; ČSN EN 62271-1, ed.2, cl. 7.2.7.2; IEC 62271-1, ed.2.1, cl. 7.2.7.2	Alternating-current circuit-breakers	-
8.2	Lightning impulse voltage test	ČSN EN IEC 62271-100, ed.3, cl. 7.2.7.3; IEC 62271-100, ed.3.0, cl. 7.2.7.3; ČSN EN 62271-1, ed.2, cl. 7.2.7.3; IEC 62271-1, ed.2.1, cl. 7.2.7.3	Alternating-current circuit-breakers	-
8.3	Resistance measurements of contacts and connections in the main circuit as a condition check	ČSN EN IEC 62271-100, ed.3, cl. 7.4.4; IEC 62271-100, ed.3.0, cl. 7.4.4; ČSN EN 62271-1, ed.2, cl. 7.4.4; IEC 62271-1, ed.2.1, cl. 7.4.4	Alternating-current circuit-breakers	-
8.4	Continuous current tests	ČSN EN IEC 62271-100, ed.3, cl. 7.5; ČSN EN 62271-1, ed.2, cl. 7.5; IEC 62271-100, ed.3.0, cl. 7.5; IEC 62271-1, ed.2.1, cl. 7.5	Alternating-current circuit-breakers	-
8.5	Partial discharge tests	ČSN EN IEC 62271-100, ed.3, cl. 7.2.10; ČSN EN 62271-1, ed.2, cl. 7.2.10; IEC 62271-100, ed.3.0, cl. 7.2.10; IEC 62271-1, ed.2.1, cl. 7.2.10	Alternating-current circuit-breakers	-

[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.

Explanations and abbreviations:
FS Security Factor
IP Ingress Protection
MTP Measuring current transformer
Nb Type of climatic test
HV High voltage