



EA MLA Signatory
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. 542/2019

ETD TRANSFORMÁTORY a.s.
with registered office Zborovská 54/22, Doudlevice, 301 00 Plzeň, Company Registration
No. 25137808

to the Testing Laboratory No. 1526
ELECTRICAL TESTING LABORATORY

Scope of accreditation:

Electrotechnical and air-handling tests and measurement of industrial 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 17025:2005

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.: 314/2018 of 14. 6. 2018, or any administrative acts building upon it.

The Certificate of Accreditation is valid until: **14. 6. 2023**

Prague: 21. 10. 2019



Jiří Růžička
Director
Czech Accreditation Institute
Public Service Company

Accredited entity according to ČSN EN ISO/IEC 17025:2005:

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The laboratory has a flexible scope of accreditation permitted as detailed in the Annex.

Updated list of activities provided within the flexible scope of accreditation is available at the laboratory from the Head of the Laboratory.

The Laboratory is qualified to update standards identifying the test procedures.

The laboratory is qualified to provide expert opinions and to interpret test results.

Tests:

Ordinal number 1)	Test procedure/method name	Test procedure/method identification	Tested object
1*	Verification of degree of protection (IP code) up to the degree IP 4X	SOP_EZ/1 (ČSN EN 60529, ČSN EN 61439-1 ed.2 p. 10.3, ČSN EN 61439-2 ed.2 p. 10.3, ČSN EN 62271-1 ed.2 p. 7.7.1, ČSN EN 62271-100 ed.2 p. 6.7.1, ČSN EN IEC 62271-102 ed.2 p. 7.7, ČSN EN 62271-103 p. 6.7, ČSN EN 62271-200 ed.2 p. 6.7.1, ČSN EN 62271-202 ed.2 p. 6.7, ČSN EN 50123-6 ed.2 p. 8.3.6, SOP_EZ/8)	Electrical machines, instruments, switchboards and their functional parts and combinations
2*	Temperature-rise test, measurement of temperature and losses of electrical equipment	SOP_EZ/2 (ČSN 362255 p. 176-192, ČSN EN 60034-1 ed.2 p. 8.3-8.10 ČSN EN 60077-1 p. 9.2.3, 9.3.2, ČSN EN 60077-2 ed.2 p. 9.4.3, 9.3.3.3, 9.3.3.4, 9.3.3.8, ČSN EN 60077-3 p. 9.3.3.2, 9.3.3.6, ČSN EN 60076-2 ed.2, ČSN EN 60076-6 p. 10.9.6, ČSN EN IEC 60076-11 ed.2 p. 14.3.2, ČSN EN 62271-1 ed.2 p. 7.4, 7.5, 7.10.3, 8.4, ČSN EN 62271-100 ed.2 p. 6.4, 6.5, 6.10.4, ČSN EN IEC 62271-102 ed.2 p. 7.4, 7.5, 8.4, ČSN EN 62271-103 p. 6.4, 6.5, 6.10.4, ČSN EN 62271-200 ed.2 p. 6.4, 6.5, 6.10.4, 7.3, ČSN EN 62271-202 ed.2 p. 6.5, ČSN EN 60310 ed.3 p. 10, 13.2.9-13.2.11, 13.3.6, 13.3.8)	Electrical machines, instruments, switchboards and their functional parts and combinations



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Ordinal number ¹⁾	Test procedure/method name	Test procedure/method identification	Tested object
		<p>ČSN EN 61439-1 ed.2 p. 10.10, ČSN EN 61439-2 ed.2 p. 10.10, ČSN EN 60947-1 ed.4 p. 8.3.3.3, ČSN EN 60146-1-1 ed.2 p. 7.3.1, 7.3.2, 7.4.1, 7.4.2, ČSN EN 50328 p. 4.2.2, 4.2.3, 4.2.4, 4.2.5, ČSN EN 50329 p. 2.2.3, ČSN IEC 282-2 p. 8.5, ČSN EN 60282-1 ed.3 p. 6.5, ČSN 35 4701-2 ed.3 p. 8.3, ČSN EN 60269-1 ed.3 p. 8.3, ČSN EN 50206-1 ed.2 p. 6.13, ČSN EN 61287-1 ed.2 p. 4.5.3.13, 7.5.7 ČSN EN 50123-1 ed.2 p. 7.4, ČSN EN 50123-2 ed.2 p. 8.3.4, ČSN EN 50123-3 ed.2 p. 8.3.4, ČSN EN 50123-4 ed.2 p. 8.3.4, ČSN EN 50123-6 ed.2 p. 8.3.7, ČSN EN 50152-2 ed.3 p. 7.1, POM_EZ/1, POM_EZ/2, SOP_EZ/8)</p>	
3*	Test of making and breaking capacity of electrical instruments and devices, mechanical and functional tests, verification of strength	<p>SOP_EZ/3 (ČSN 362255 p. 153, 193-213, ČSN EN 60077-1 p. 9.3.1, 9.3.4.1, 9.3.4.4, 9.3.8, ČSN EN 60077-2 ed.2 p. 9.3.6, 9.3.7, 9.4.2, 9.3.3.2, 9.3.3.6, 9.3.4, ČSN EN 60077-3 p. 9.3.3.1, 9.3.3.4, 9.3.4, 9.3.6, 9.3.7, 9.4.2, ČSN EN 60282-1 ed.3 p. 6.6, ČSN EN 60947-1 ed.4 p. 8.3.3.5, 8.3.3.6, 8.3.3.7, 8.3.4, ČSN EN 60947-3 ed.3 p. 8.3.3, 8.3.4, 8.3.7, 8.5, ČSN EN 61439-1 ed.2 p. 10.13, ČSN EN 61439-2 ed.2 p. 10.13, ČSN EN 62271-1 ed.2 p. 7.10.2, 7.10.3, 7.10.4,</p>	Electrical switching, isolating and earthing devices, surge arresters



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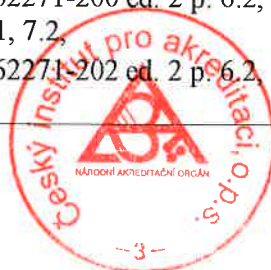
Ordinal number ¹⁾	Test procedure/method name	Test procedure/method identification	Tested object
		<p>ČSN EN 62271-100 ed.2 p. 6.10.2, 6.10.3, 6.10.4, 6.10.5, 6.101, 6.102, 6.103, 6.104, 6.105, 6.106, ČSN EN IEC 62271-102 ed.2 p. 7.101, 7.102, 7.103, 7.104, ČSN EN 62271-103 p. 6.10.2, 6.10.3, 6.10.4, 6.10.5, 6.101, 6.102, 7.101, ČSN EN 62271-200 ed.2 p. 6.10.2, 6.10.3, 6.10.4, 6.10.5, 6.101, 6.102, 7.102, ČSN EN 50123-1 ed.2 p. 7.3, 7.8, ČSN EN 50123-2 ed.2 p. 8.3.2, 8.3.6, 8.3.7, 8.3.8, ČSN EN 50123-3 ed.2 p. 8.3.2, 8.3.5, 8.3.6, 8.3.9, ČSN EN 50123-4 ed.2 p. 8.3.2, 8.3.5, 8.3.6, 8.3.8, ČSN EN 50123-6 ed.2 p. 8.3.5, 8.3.8, PNE 35 4212 ed.2 p. 9.6, POM_EZ/2, SOP_EZ/8)</p>	
4	Test of short-circuit capacity of electrical equipment	<p>SOP_EZ/4 (ČSN 362255 p. 214-219, ČSN EN 60077-2 ed.2 p. 9.3.4.2, ČSN EN 50123-1 ed.2 p. 7.6, 7.7, ČSN EN 50123-2 ed.2 p. 8.3.9, ČSN EN 50123-3 ed.2 p. 8.3.8, ČSN EN 50123-4 ed.2 p. 8.3.1.2, 8.3.9, ČSN EN 50123-6 ed.2 p. 8.3.4, ČSN EN 50119 ed.2 p. 8.11.1.3, 8.11.2, ČSN EN 50152-2 ed.3 p. 7.1, ČSN EN 62271-1 ed.2 p. 7.6, 7.10.3, ČSN EN 62271-100 ed.2 p. 6.6, 6.10.4, ČSN EN IEC 62271-102 ed.2 p. 7.6, ČSN EN 62271-103 p. 6.6, 6.10.4, ČSN EN 62271-200 ed.2 p. 6.6, 6.10.4, 6.106, ČSN EN 62271-202 ed.2 p. 6.6, 6.102, Příloha AA, ČSN EN 60947-1 ed.4 p. 8.3.4, ČSN EN 60947-3 ed.3 p. 8.3.5, 8.3.6,</p>	Electrical machines, instruments, switchboards, surge arresters and their functional parts and combinations



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		ČSN EN 61439-1 ed.2 p. 10.5, 10.11, ČSN EN 61439-2 ed.2 p. 10.5, 10.11, ČSN EN 61643-11 ed.2 p. 8.3.5.3, 8.3.8.2, ČSN EN 50328 p. 4.2.9, ČSN EN 60076-5 ed.2, ČSN EN IEC 60076-1 ed.2 p. 14.4.3, ČSN EN 60076-6 p. 11.8.13, ČSN 35 4701-2 ed. 3 p. 8.5.5.1, ČSN EN 60310 ed. 3 p. 13.2.15, 13.3.12, ČSN EN 61869-2 p. 7.2.201, ČSN EN 60076-13 p. 12.4.9, POM_EZ/2, SOP_EZ/8)	
5*	Measurement of ventilation and hydraulic quantities	SOP_EZ/5 (ČSN 123061 p. 28-36, 44-51, 65-84, 110-115, ČSN EN 61287-1 ed. 2 p. 4.5.3.5.2, 4.5.3.5.3, ČSN ISO 7194: 1994, POM_EZ/2, SOP_EZ/8)	Equipment with flowing or pressure liquid
6*	Test of insulation electric strength	SOP_EZ/6 (ČSN EN 60060-1, ČSN EN 60060-2 ed. 2, ČSN EN 60076-3 ed. 2, ČSN EN 60076-4, ČSN EN IEC 60076-1 ed.2 p. 14.2.5, 14.2.6, 14.3.1, 14.2.7, 14.4.1, ČSN EN 61083-1 ed. 2, ČSN EN 61083-2 ed. 2, ČSN EN 60052, ČSN 362255 p. 220-233, ČSN EN 62271-1 ed. 2 p. 7.2, 7.10.5, 8.2, 8.3.4, ČSN EN 62271-100 ed. 2 p. 6.2, ČSN EN IEC 62271-102 ed.2 p. 7.2, 8.2, 8.3, ČSN EN 62271-103 p. 6.2, 6.10.6, ČSN EN 62271-200 ed. 2 p. 6.2, 6.10.6, 6.104, 7.1, 7.2, ČSN EN 62271-202 ed. 2 p. 6.2, 7.101, 7.102,	Electrical machines, instruments, switchboards and their functional parts and combinations



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Ordinal number ¹⁾	Test procedure/method name	Test procedure/method identification	Tested object
		<p>ČSN EN 60947-1ed. 4 p. 8.3.3.4, ČSN EN 61439-1 ed. 2 p. 10.9, 11.9, ČSN EN 61439-2 ed. 2 p. 10.9, 11.9, ČSN EN 60077-1 p. 9.3.3, ČSN EN 60077-2 ed.2 p. 9.3.3.5, 9.4.5, 9.3.3.7, 9.3.5.5, ČSN EN 60077-3 p. 9.3.3.3, 9.3.3.5, 9.3.4.6, 9.3.5.5, 9.4.4, ČSN EN 60310 ed. 3 p. 13.2.12, 13.2.13, 13.2.14, 13.3.9, 13.3.10, 13.3.11, ČSN EN 60146-1-1 ed. 2 p. 7.2, ČSN EN 50328 p. 4.2.1, ČSN EN 61287-1 ed. 2 p. 4.5.3.7, 4.5.3.8, ČSN EN 60282-1ed. 3 p. 4.3, 6.4, ČSN EN 50124-1 ed. 2 p. 7.3, 7.4, 7.5, Příloha A, B, C, D, ČSN EN 50123-1ed. 2 p. 7.5, ČSN EN 50123-2 ed. 2 p. 8.3.3, ČSN EN 50123-3 ed.2 p. 8.3.3, ČSN EN 50123-4 ed. 2 p. 8.3.3, ČSN EN 50123-6 ed.2 p. 8.3.3, ČSN EN 50152-2 ed.3 p. 7.2, ČSN EN 50215 ed.2 p. 8.7 PNE 35 4212 ed. 2 p. 9.1, 9.2, POM_EZ/2, SOP_EZ/8)</p>	
7*	Verification of basic parameters according to technical documentation	<p>SOP_EZ/7 (ČSN EN 60077-1 p. 9.2.3, ČSN EN 62271-1 ed.2 p. 8.6, ČSN EN 50123-3 ed.2 p. 8.3.1, POM_EZ/2, SOP_EZ/8)</p>	Electrical machines, instruments, switchboards and their functional parts and combinations
8*	Measurement of electrical quantities	<p>SOP_EZ/8 (ČSN 42 0475, ČSN EN 60076-1, p. 11.2, ČSN EN 60076-1, p. 11.3, ČSN EN 60076-1, p. 11.4, ČSN EN 60076-1, p. 11.5)</p>	Electrical machines, instruments, switchboards, their functional parts and combinations



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		ČSN EN 60076-6, p. 12.8.5, ČSN EN IEC 60076-11 ed.2 p. 14.2.1, 14.2.2, 14.2.3, 14.2.4, ČSN EN 60310 ed.3 p. 13.2.5-13.2.8, 13.3.5, 13.3.7, POM_EZ/2)	

¹⁾ Asterisk at the ordinal number identifies the tests, which the Laboratory is qualified to carry out outside the permanent laboratory premises.

Note:

SOP – Standard Operating Procedure

POM – Working procedure of the method,

PNE – Energy Industry Company Standard

Annex:

Flexible scope of accreditation

Ordinal numbers of tests
1, 2, 3, 4, 5, 6, 7,8

The Laboratory is allowed to modify the test methods listed in the Annex within the specified scope of accreditation provided the measuring principle. The flexible approach to the scope of accreditation cannot be applied to the tests not included in the Annex.

