

**The Appendix is an integral part of
Certificate of Accreditation No. 642/2022 of 21/12/2022**

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

AVL Moravia s.r.o.
Testing Laboratory
Mostecká 992/26, Husovice, 614 00 Brno

Tests:

Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
1*	Measurement of insulation resistance	ČSN EN 61439-1, ed. 2, p. 11.9 ČSN EN IEC 60034-27-4, p. 6	Rotating electrical machines, switchboards
2*	Measurement of resistance	ČSN EN 60034-1, ed. 2, p. 8.6.2.1 ČSN EN 60034-2-1 ed. 2, p.5.7 ČSN EN 60349-1 ed. 2, Annex A3 ČSN EN 60349-2 ed. 2, Annex A3 ČSN EN IEC 60034-4-1, p. 6.3, IEEE Std. 118 - 1978	Rotating electrical machines, rotating electrical machines on vehicles
3*	Test of electrical resistance by withstand voltage	ČSN EN 60034-1 ed. 2, p. 9.2 ČSN EN 61439-1 ed. 2, p. 10.9.2; 10.9.4 ČSN EN 60349-1 ed. 2, p. 9.5 ČSN EN 60349-2 ed. 2, p. 9.5 IEEE 112 art.8.2	Rotating electrical machines, rotating electrical machines on vehicles, switchboards
4*	Temperature-rise test	ČSN EN 60034-1 ed. 2, p.8 ČSN EN 61439-1 ed. 2, p.10.10.2.3.1-10.10.2.3.5 IEEE 112 art.4.4; 5.8 ČSN EN 60349-1 ed. 2, p. 8.1, Annex A ČSN EN 60349-2 ed. 2, p. 8.1, Annex A ČSN EN IEC 60034-4-1, p. 6.7	Rotating electrical machines, rotating electrical machines on vehicles, switchboards
5*	Measurement of loading characteristics	ČSN EN 60034-2-1 ed. 2, p. 6.1.3.2.3 IEEE 112, art. 5.7 ČSN EN IEC 60034-4-1, p. 6.2; 6.9	Rotating electrical machines

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6*	Measurement of no-load curve and no-load loss	ČSN EN 60034-2-1 ed. 2, p.6.1.3.2.4, 6.1.3.2.5, 7.1.3.2.2 IEEE 112, art. 5.6 ČSN EN 60349-2 ed. 2, p. 9.3.1 a), 9.3.2 a) ČSN EN IEC 60034-4-1, p. 6.4, 6.6	Rotating electrical machines
7*	Determination of efficiency	ČSN EN 60034-2-1 ed. 2, p. 6.1.2, 6.1.3, 6.1.4, 7.1.2, 7.1.3, 7.2.5 IEEE 112, art.6.4 ČSN EN 60349-1 ed. 2, Annex B1-B3, B6	Rotating electrical machines, rotating electrical machines on vehicles
8	Measurement of short-circuit curve and short-circuit loss	IEEE 112, art. 7.2 ČSN EN 60349-2 ed. 2, p. 9.3.1 b); 9.3.2 b) ČSN EN IEC 60034-4-1, p. 6.5	Rotating electrical machines, rotating electrical machines on vehicles
9*	Measurement of torque curve	IEEE 112, art. 7.3.2.5	Rotating electrical machines
10*	Overload ability test	ČSN EN 60034-1 ed. 2, p. 9.4 ČSN EN 60034-1 ed. 2, p. 9.3 ČSN EN 60349-1 ed. 2, p. 8.1.5 ČSN EN 60349-2 ed. 2, p. 8.1.6	Rotating electrical machines, rotating electrical machines on vehicles
11*	Test of mechanical resistance (test at elevated speed)	ČSN EN 60034-1 ed. 2, p. 9.7 ČSN EN 60349-1 ed. 2, p. 9.4 ČSN EN 60349-2 ed. 2, p. 9.4	Rotating electrical machines, rotating electrical machines on vehicles

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Ordinal number ¹	Test procedure/method name	Test procedure/method identification ²	Tested object
12*	Measurement of vibration	ČSN EN IEC 60034-14 ed. 3, p. 5-9 ČSN EN 60349-1 ed. 2, p. 8.8 ČSN EN 60349-2 ed. 2, p. 8.4 ČSN ISO 20816-1, p. 4 ČSN ISO 10816-3, p. 3	Rotating electrical machines, rotating electrical machines on vehicles
13*	Test of degree of protection	ČSN EN 60034-5 ed. 3, tab.4, no. 2-4; tab.5, no. 3-6 ČSN EN 60529; tab. 5, no. 2-4; tab. 8, no. 3-6 ČSN EN 61439-1 ed. 2, p. 10.3	Rotating electrical machines, Switchboards, electrical equipment
14*	Measurement of effective continuity between parts and PE	ČSN EN 61439-1 ed. 2, p. 10.5.2 ČSN EN 61439-2 ed. 2, p. 8.4.3.2.2	Switchboards
15*	Verification of mechanical function, connection, operating curve and function	ČSN EN 61439-1 ed. 2, p. 11.8, 11.10	Switchboards
16*	Measurement of residual voltage	ČSN EN 61439-1 ed. 2, p. 8.4.5	Switchboards

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)