

ISO 21782-6:2019 (E)

Electrically propelled road vehicles — Test specification for electric propulsion components — Part 6: Operating load testing of motor and inverter

Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Tests and requirements
4.1	Operation endurance tests of motor
4.1.1	High acceleration/deceleration endurance test
4.1.1.1	General
4.1.1.2	Test diagram
4.1.1.3	Test conditions
4.1.1.4	Test procedure
4.1.1.5	Test requirements
4.1.1.5.1	General
4.1.1.5.2	Energizing
4.1.1.5.3	Disassembling
4.1.2	Maximum torque endurance test
4.1.2.1	General
4.1.2.2	Test diagram
4.1.2.3	Test conditions
4.1.2.4	Test procedure
4.1.2.5	Test requirements
4.1.2.5.1	General
4.1.2.5.2	Energizing
4.1.2.5.3	Disassembling
4.1.3	Over speed test
4.1.3.1	General
4.1.3.2	Test diagrams
4.1.3.3	Test conditions
4.1.3.4	Test procedure
4.1.3.5	Test requirements
4.1.3.5.1	General
4.1.3.5.2	Energizing
4.1.3.5.3	Disassembling
4.2	Operation endurance test of inverter
4.2.1	Cyclic test
4.2.1.1	General
4.2.1.2	Test diagrams
4.2.1.3	Test conditions
4.2.1.4	Test procedure
4.2.1.5	Test requirements
4.2.1.6	Disassembling
4.3	Breakdown strength verification test of rotor
4.3.1	Spin test
4.3.1.1	General
4.3.1.2	Test diagram
4.3.1.3	Test conditions
4.3.1.4	Test procedure
4.3.1.5	Test requirements

5 Test report

Annex A (informative) Test report

- A.1 Operation endurance test of motor**
- A.2 Operation endurance test of inverter**
- A.3 Breakdown strength verification test of motor**

Page count: 22