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Road vehicles — Electrical performance of starter motors — Test methods and general requirements

Véhicules routiers — Caractéristiques électriques des démarreurs — Méthodes d'essai et conditions générales

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Foreword

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For an explanation on the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the WTO principles in the Technical Barriers to Trade (TBT) see the following URL: Foreword - Supplementary information

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The committee responsible for this document is ISO/TC 22, *Road vehicles*, Subcommittee SC 3, *Electrical and electronic equipment*.

This third edition cancels and replaces the second edition (ISO 8856:1995), which has been technically revised. It also incorporates the Amendment ISO 8856:1995/Amd1:1997.

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Road vehicles — Electrical performance of starter motors — Test methods and general requirements

1 Scope

This International Standard lays down test methods and general requirements for the determination of the electrical characteristics of DC starter motors intended to start internal combustion engines of road vehicles.

2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

2.1
lock torque
torque of starter motor at the pinion with the armature shaft locked (no rotation)

Note 1 to entry: It is expressed in Nm.

2.2
nominal power
P_{nom}
power declared by the starter motor manufacturer corresponding to the maximum power output at the reference temperature when determined in accordance with this International Standard

Note 1 to entry: It is expressed in W.

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2.3
power output
P
power derived from measurements of torque and rotational frequency of the motor pinion shaft

Note 1 to entry: It is expressed in W.

2.4
power supply
battery or battery simulation device which delivers a voltage/current characteristic as defined in this International Standard

2.5
reference temperature
temperature at which the performance curves and nominal power shall be reported

Note 1 to entry: Reference temperature is expressed in °C.

Note 2 to entry: It is equal to 20 °C.

2.6
total resistance of starter motor
R_S
resistance value of the terminal voltage, see Figure 2, divided by the starter motor current (steady state current of solenoid included)

Note 1 to entry: It is expressed in Ω.

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