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ICS 43.040.01
CCS T 47

TCSAE

ASSOCIATION STANDARD

TCSAE 41-2015

Electric vehicles -- test and specification for vehicle control unit

电动汽车整车控制器测试评价规范

(English Translation)

Issued on: November 5, 2015 **Implemented on: November 5, 2015**

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1 Foreword

TCSAE 41-2015 was issued by China Society of Automotive Engineers on 5 November 2015 and took effect the same day.

The TCSAE prefix marks a association standard, adopted voluntarily.

The document runs to 17 pages in English translation.

2 Scope Preview

This standard specifies the test and evaluation method for the hardware performance and reliability of the vehicle controller for electric passenger vehicles. It is used as the basis for evaluating the vehicle controller within the enterprise, and can also be applied to the whole based on electric vehicles and hybrid vehicles. Evaluation of the car controller. This standard makes five levels of distinction between the functional status of the electric vehicle complete vehicle controller, and gives five test contents of power supply test, short circuit test, environmental resistance performance test and electromagnetic compatibility performance test, which can be used for the vehicle controller. System performance testing and evaluation of hardware performance and reliability. Among them, the power supply test includes power supply voltage range test, leakage current test, power supply reverse connection test, over voltage test, voltage fluctuation test, voltage interruption test and other 6 items; short circuit test alone; environmental resistance test includes low temperature startability

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TCSAE 41-2015 falls under ICS 43.040.01, in the field of road vehicle engineering.

This catalogue holds 32 other TCSAE standards in that field.

In this catalogue, TCSAE standards carry edition years from 2015 to 2020.

3 Normative references

GB/T 17619

ISO 10605

ISO 7637

ISO 11452

ISO 16750.1

ISO 16750.2

GB/T 2423.1-2008 - Environmental testing for electric and electronic products - Part 2: Test methods - Tests A: Cold

GB/T 2423.2-2008 - Environmental testing for electric and electronic products - Part 2: Test methods - Tests B: Dry heat

GB/T 2423.10-2008 - Environmental testing - Part 2: Test methods - Test Fc: Vibration (sinusoidal)

GB/T 2423

GB 4208-2008 - Degrees of Protection Provided By Enclosure (IP Code)

GB/T 4365

4 About this standard

Issued by: China Society of Automotive Engineers

English translation: about 17 pages

Chinese original: about 25,299 characters

5 Related standards

Standards on related subjects:

QC/T 247-2017 - Technical specifications for fuel gas systems of LPG vehicles

QC/T 245-2017 - Technical specifications for fuel gas systems of CNG vehicles

QC/T 674-2007 - Compressed natural gas solenoid valves for automobiles

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6 Classification and status

International classification (ICS): 43.040.01

Chinese Standard Classification (CCS): T 47

Prefix TCSAE: association standard, adopted voluntarily.

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