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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 28807.2-2017

Railway applications -- Compatibility between rolling stock and train detection systems -- Part 2: Compatibility with track circuits

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Foreword

GB/T 28807 "rail traffic rolling stock and train detection system compatibility" is divided into three parts.

--- Rail transport rolling stock and train detection system compatibility; (General)

--- Part 2. Compatibility with the track circuit;

--- Part 3. Compatibility with shaft counter.

This section GB/T 28807 Part 2.

This section drafted in accordance with GB/T 1.1-2009 given rules.

Please note that some of this document may be patentable. The issuing agencies of this document do not bear the responsibility of identifying these patents.

This part is proposed by the National Railroad Administration.

This part of the traction electrical equipment and systems standardization Technical Committee (SAC/TC278) centralized.

This section is responsible for the drafting unit. Zhuzhou Times Electric Co., Ltd. car.

This section participates in the drafting unit. Beijing Allway Communications Signal Research and Design Institute Group Co., Ltd., Qingdao Sifang Locomotive and Rolling Stock Co., Ltd.

Limited company.

1 Scope

GB/T 28807 provisions of this part of the rolling stock of the conducted interference current limit requirements and verification of rolling stock to meet these

Method of measurement of limit value.

This part of the limit requirements apply only to locomotives and rolling stock supporting the use of track circuits given in this section, the assessment of this section

The law can be used to assess the compatibility of rolling stock with other types of track circuits. This section gives the derivation of the disturbance current limit of rolling stock

Guidance notes, and provides interference current limit measurement and evaluation methods.

Note. This section does not include the basic parameters of the track circuit related to the current limit of the locomotive and vehicle interference current.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version applies to this article

Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 1402 rail transit traction power supply system voltage (GB/T 1402-2010, IEC 60850.2007, MOD)

GB/T 21562 rail transport reliability, availability, maintainability and safety specifications and examples (GB/T 21562-2008,

IEC 62278.2002, IDT)

GB/T 28027 rail transportation power supply system and rolling stock operation matching (GB/T 28027-2011, IEC 62313.2009,

MOD)

Compatibility of GB/T 28807 railway rolling stock and train testing system (GB/T 28807-2012, IEC 62427.

2007, IDT)

GB/T 28808 rail transit communications, signal and processing system control and system protection software (GB/T 28808-2012,

IEC 62279.2002, IDT)

GB/T 28809 rail transit communications, signal and processing system signal safety-related electronic systems (GB/T 28809-

2012, IEC 62425.2007, IDT)

UIC550 bus powered device (Powersupplyinstalationsforpassengerstock)

3.1 Terms and definitions

GB/T 28807 and defined by the following terms and definitions apply to this document.

3.1.1

Affecting unit influencingunit

Locomotive and rolling stock affecting the train inspection system.

Note. An impact unit (see Figure 1 for an example) contains various types of linked or connected vehicles, such as single or multi-section trains, single-section vehicles,

Multi-section combination (linked) vehicles, up to 16 car single-section or multi-section traction of the entire passenger train.