

ICS 45.060
CCS S 35



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 36284-2018

**Railway applications - Electrical systems of platform edge
doors**

轨道交通 站台门电气系统

Issued on: June 7, 2018

Implemented on: January 1, 2019

**Issued by: State Administration for Market Regulation;
Standardization Administration of the PRC**

Table of Contents

1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Conditions of use 2 5 system composition and technical requirements	3
6 Parts Technical Requirements	6
7 Reliability, Availability, Serviceability, and Security (RAMS) Requirements.....	7
8 Test Method	8
9 Inspection rules	11
13 Reference	14

Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. Please note that some of the contents of this document may involve patents. The issuing organization of this document is not responsible for identifying these patents. This standard was proposed by the National Railway Administration. This standard is under the jurisdiction of the National Traction Electrical Equipment and Systems Standardization Technical Committee (SAC/TC278). This standard was drafted. Ningbo Zhongche Times Sensing Technology Co., Ltd., Guangzhou Metro Group Co., Ltd. The main drafters of this standard. Wang Fei, Lian Qixing, Ma Jiansheng, He Zhixin, Chen Gaohua. Rail transit station door electrical system

1 Scope

China's national standard for the electrical systems of platform edge doors. It specifies the terms and definitions, the conditions of use, the system composition and technical requirements, the requirements on the parts, and the reliability, availability, maintainability and safety provisions. Platform edge doors are the glass screens that separate a metro platform from the track and open in line with the train's doors. They have become standard on new Chinese metro lines because they do several things at once: they prevent falls and intrusions onto the track, they let the platform be air conditioned separately from the tunnel, and they stop the piston effect of an arriving train blowing dust and wind through the station. The electrical system is what makes them work and what makes them dangerous if it does not: the doors must open only when a train is correctly berthed, must not close on a passenger, and must be openable manually when the power fails - which is why the safety and availability requirements sit in the same document as the technical ones.

This standard stipulates the system composition and technical requirements of the electrical system of the doorway of the rail transit station (hereinafter referred to as the electrical system), and the technical requirements of the components. Requirements, RAMS requirements, inspection methods, inspection rules, marking, packaging, transportation and storage. This standard is applicable to the electrical system of the rail door station, and the electrical systems of various types of platform doors installed along other modes of transportation can be referred to. carried out.

2 Normative references

The following documents are indispensable for the application of this document. For dated references, only dated versions apply to this article. Pieces. For undated references, the latest edition (including all amendments) applies to this document.

GB/T 2423.1 Environmental testing of electrical and electronic products - Part 2. Test methods Test A. Low temperature

GB/T 2423.2 Environmental testing of electric and electronic products - Part 2. Test method Test B. High temperature

GB/T 2423.4 Environmental testing of electric and electronic products - Part 2. Test methods Test Db. alternating heat and damp (12h 12h ring)

GB/T 2423.17 Environmental testing of electric and electronic products - Part 2. Test method test Ka. salt spray

GB/T 4208-2017 enclosure protection grade (IP code)

GB/T 6388 transport packaging receipt and delivery mark General technical conditions for

GB/T 13384 mechanical and electrical product packaging

GB/T 16927.1 High Voltage Test Technique Part 1. General Definitions and Test Requirements

GB/T 20626.1 Special environmental conditions - Plateau electric and electronic products - Part 1. General technical requirements

GB/T 21562 Rail transit reliability, availability, maintainability and safety specifications and examples

GB/T 24338.6 Electromagnetic compatibility of rail transit - Part 5. Emission and immunity of ground power supply systems and equipment

GB/T 32347.2-2015 Environmental conditions for rail transit equipment - Part 2. Terms and definitions for terrestrial electrical equipment

3 Terms and definitions

The following terms and definitions apply to this document.

3.1 Sliding door automaticslidingdoor; ASD The structural device on the platform door facility is for the passengers to get on and off the door.

3.2 Platform door Installed on the edge of the station platform, separating the track area of the train from the station waiting area, corresponding to the train door, can be multi-pole control open A continuous barrier with the sliding door closed. [GB 50157-2013, definition 2.0.51]

3.3 Emergency door emergencyescapedoor; EED Emergency equipment on the platform door facility, in case of emergency, when the passenger cannot enter or exit the sliding door normally, the passenger is from the vehicle to the platform