

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

**JT/T 1301-2019**

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**Sliding plug door for urban bus**

城市客车塞拉门 清晰版

**(English Translation)**

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## Table of Contents

|                                                                               |
|-------------------------------------------------------------------------------|
| Foreword                                                                      |
| 1 Scope                                                                       |
| 2 Normative references                                                        |
| 3 Terms and definitions                                                       |
| 4 Classification                                                              |
| 5 Technical requirements                                                      |
| 6 Test method                                                                 |
| 7 Inspection rules                                                            |
| 8 Marking, packaging, transportation and storage                              |
| Appendix A (Normative appendix) Door opening and closing function test        |
| Appendix B (Normative Appendix) Obstacle Detection Function Test              |
| Appendix C (Normative Appendix) Manual opening and closing force test         |
| Appendix D (Normative Appendix) Mechanical Strength and Locking Strength Test |
| Appendix E (Normative Appendix) Waterproof Performance Test                   |

### Foreword

This standard is in accordance with GB/T Draft the rules given in 1-2009.

This standard is proposed by and under the jurisdiction of the Passenger Car Sub-Technical Committee of the National Automobile Standardization Technical Committee (SAC/TC 114/SC22).

This standard was drafted. Jiangsu Huimin Transportation Equipment Co., Ltd., Nanjing Kangni Electromechanical Co., Ltd., China Highway Vehicle Machinery Co., Ltd.

Co., Ltd., Zhengzhou Yutong Bus Co., Ltd., Xiamen Jinlong United Automobile Industry Co., Ltd., BYD Automobile Industry Co., Ltd.

### 1 Scope

This standard specifies the classification, technical requirements, test methods, inspection rules, and marking, packaging, transportation, and storage of city bus plug doors.

And other requirements.

This standard applies to the production, inspection and use of sliding doors for M1 and M3 class I, II and A passenger cars (including trolleybuses).

Yes, other passenger car sliding doors can be used for reference.

## 2 Normative references

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

GB/T 191 Packing, storage and transportation icon GB/T 3785. 1-2010 Electroacoustic sound level meters Part 1. Specifications GB/T 4942. 1 Degree of protection (IP code) of the overall structure of rotating electrical machines-classification GB 7258 technical requirements for motor vehicle safety GB 9656 Automotive safety glass GB/T 9969 General Instructions for Use of Industrial Products GB/T 10125 Artificial atmosphere corrosion test Salt spray test GB 13094 Safety requirements for passenger car structures JB/T 10242 General technical specifications for cathodic electrophoresis coating JT/T 1095 Flame retardant properties of interior materials for passenger cars QC/T 413 Basic technical requirements for automotive electrical equipment QC/T 625 Automotive coating and chemical treatment QC/T 639 automotive rubber seal QC/T 29106 Technical conditions for automotive wiring harness

## 3 Terms and definitions

The terms and definitions defined in GB 1304 and the following apply to this document.

Srammen slug door

During the opening and closing process, the door leaf moves along the length and width of the vehicle body on the outer surface of the vehicle body. After closing, it is plugged with the door frame and looks Doors that are flush with the exterior surface of the body.

Left door leaf dole leaf Inside the car, the door leaf facing to the door and opening to the left.

Right door leaf dole leaf JT/T 1301-2019 Inside the car, the door leaf facing to the door and opening to the right.

By high pasage height when the door is fully open, the height of the door opening (the clear opening on the body that matches the door).

3. Five

By wide pasage width when the door is fully open, the width of the door opening (a clear opening in the body that matches the door).

Emergency controller concentric roll divice in an emergency, a device that can open the door manually or automatically after manual operation.

Locking device lock Device A device that closes the door and locks the door to prevent the door from accidentally opening while the vehicle is running.

Mechanical lock device mechanical lock device After the vehicle is stopped and the door is closed, the device for mechanically locking the door is manually operated.

Door control unit contrast unit Control unit for controlling the door to achieve the required function.

### 3. 10

Electric sliding door electric sliding plug door Sliding door that uses a power source as a door drive source.

### 3. 11

Pneumatic sliding door pneumatic sliding plunger Sliding door using air source as door drive source.

### 3. 12

Gas and electricity sliding door pneumatic electric sliding plug door Sliding door that uses both air and power as the drive source for the door.

## 4 Classification

The sliding door is divided into electric sliding door, pneumatic sliding door and pneumatic electric sliding door according to different driving sources.

Sliding doors are divided into single opening sliding doors and double opening sliding doors according to the number of door leaves.

## 5 Technical requirements

### 5.1

Conditions of use

#### 5.1.1

The storage temperature range is  $-40^{\circ}\text{C}$  to  $80^{\circ}\text{C}$ , the working temperature range is  $-30^{\circ}\text{C}$  to  $65^{\circ}\text{C}$ , and the relative humidity is not greater than 95% rh.

#### 5.1.2

Working pressure range is 0.5MPa ~ 1.0MPa.

#### 5.1.3

The rated working voltage is 12V or 24V, and the working voltage ranges are 9V ~ 16V and 18V ~ 32V, respectively.

## **5.2**

### General requirements

#### **5.2.1**

The minimum passing height and passing width of a sliding door shall comply with the provisions of GB 13094.

JT/T 1301-2019

#### **5.2.2**

When the sliding door is closed, the outer surface of the door leaf should be flush with the outer surface of the vehicle body. When the sliding door is running and opened in a straight section, the minimum distance between the inner surface of the door leaf and the outer surface of the vehicle body should not be less than 20mm, and the maximum distance between the outer surface of the door leaf and the outer surface of the vehicle body should not be too large.

At 100mm.

#### **5.2.3**

The tolerance of the flatness or profile of the door leaf should not be greater than 1mm/m, and the difference between the two diagonals should not be greater than 2mm.

#### **5.2.4**

The surface of the door leaf should be smooth and flat, there should be no obvious dents, warping scratches, and there should not be any sharp protrusions and burrs that cause injury.

Flying stab.

#### **5.2.5**

The sealing strip of door leaf shall meet the requirements of QC/T 639. The strip shall be straight without wavy edges and warping.

#### **5.2.6**

The door glass should meet the requirements of GB 9656, and the glass and door panel should be fixed and reliable.

#### **5.2.7**

The sliding door can be installed with a mechanical lock device according to requirements, and can be manually operated to lock the door when needed. Even if the door is locked, it should be easily accessible from the car opens.