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

GB/T 34573-2017

Railway applications - Master controllers

轨道交通 司机控制器

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009. 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 standard proposed by the National Railway Administration. This standard by the National Traction Electrical Equipment and Systems Standardization Technical Committee (SAC/TC278) centralized. This standard is drafted by CNR Zhuzhou Electric Locomotive Co., Ltd., Qingdao Sifang Locomotive Co., Ltd. Participate in the drafting of this standard unit. Zhuzhou Times Electric Co., Ltd. car, car in Nanjing Puzhen Vehicle Co., Ltd., Datong Datong Electric Power Locomotive Co., Ltd., Qishuyan Locomotive Co., Ltd. The main drafters of this standard. Lin Ping, Peng Baolin, Tao Lin, Zhou Luan, Lu Yuanji, Dingchao Feng, Wang Xuhai, Xia Jianmin, Zhang Lizhi, Qin Yongzhen. Rail Transit Driver Controller

1 Scope

China's national standard for the master controller of a rail vehicle. It specifies the conditions of use, the technical requirements, the test methods, the inspection rules and the marking, packaging, transport and storage, and it applies to locomotive and vehicle driver's controllers. The master controller is the handle the driver moves to demand power and brake. Everything the traction system does begins there, which makes it one of the few components on a train that is simultaneously a safety device, a control input and a piece of furniture the driver touches thousands of times a shift. Its requirements are correspondingly mixed. It must give the driver an unambiguous tactile sense of notch position without looking; it must fail in a defined direction, so that a broken connection commands coast or brake rather than power; it usually carries the driver's vigilance function; and it must survive years of vibration and a cab environment that ranges from freezing to baking. That combination is why it is specified as a product rather than as part of the control system.

This standard specifies the conditions of use of the driver controller, technical requirements, test methods, inspection rules, signs, packaging, transportation and storage. This standard applies to locomotive and vehicle driver controller.

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 191 Packaging - Pictorial signs (GB/T 191-2008, ISO 780.1997, MOD)

GB/T 2423.1 Environmental testing for electric and electronic products Part 2. Test methods Test A. Low temperature (GB/T 2423.1- 2008, IEC 60068-2-1.2007, IDT)

GB/T 2423.2 Environmental testing for electric and electronic products Part 2. Test methods Test B. High temperature (GB/T 2423.2- 2008, IEC 60068-2-2.2007, IDT)

GB/T 2423.4-2008 Environmental testing for electric and electronic products Part 2. Test methods Test Db. Alternating hot and humid (12h 12h cycle) (

IEC 60068-2-30.2005, IDT)

GB/T 2423.17 Environmental testing for electric and electronic products Part 2. Test methods Test Ka. Salt spray (GB/T 2423.17- 2008,

IEC 60068-2-30.2005, IDT)

GB/T 2900.36 Electrotechnical terminology Electric traction (GB/T 2900.36-2003, IEC 60050-811.1991, MOD)

GB/T 4207 solid insulation materials, tracking resistance index and compared to the determination of tracking index (GB/T 4207-2012, IEC 60112.2009, IDT)

GB/T 4208-2017 Enclosure Rating (IP Code) (IEC 60529.2013, IDT)

GB/T 5169.12 Fire hazard testing for electric and electronic products - Part 12 - Basic test methods for glow/hot wire - Burning of materials Hot filament flammability index (GWFI) test method (GB/T 5169.12-2013,

IEC 60695-2-12.2010, IDT)

GB/T 21413.1-2008 Railway applications - Rolling stock electrical equipment - Part 1. General conditions of use and general rules (IEC 60077-1.1999, IDT)

3 Terms and definitions

GB/T 2900.36, GB/T 21413.1-2008 and GB/T 21413.2-2008 as defined by the following terms and definitions apply to