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

GB/T 7417-2010

Replacing GB/T 7417-2001

AX series relays for railway signaling

铁路信号AX系列继电器

(English Translation)

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Foreword

This standard replaces GB/T 7417-2001 "AX series relays." This standard compared with GB/T 7417-2001, major changes as follows.

- Increased JZXC-1616 the technical indicators of the relay, remove JWXC-7, JWXC-2000, JZXC-H156, JYJXC-J3000 and JDBXC-550550 the technical indicators are five models of the relay (2001 version 3.1,3.2.1,3.4, 4.7,4.9,4.24,5.3, A1.2, A1.3, A2, A3, Excerpts 3.1,3.2.1,3.4,4.7,4.9,4.24,5.3, A.1.2, A.2, A.3);
- Revised JWXC-H310 relay ambient temperature (version 2001 4.3a), 4.19, this edition 4.3a), 4.19);
- Increased housing requirements and test methods relay the flame retardancy (Excerpts 4.4b), 5.4);
- Removes the requirement galvanized surface passivation film (2001 version 4.6.1);
- Amendment Qi requirement ordinary contacts and strengthen contacts between the (2001 version 4.8, this version 4.8);
- Revised magnetization value JWXC-H310 relay and JWJXC-H 800.06 Release value relay current ring (2001 edition 4.9, this version 4.9);
- Increased rectification, polarizing, and there are very ordinary contacts relay electrical life times; there are increased electric pole relay switch after life becomes extreme value of range; revised after the relay electrical life of the contacts of the contact resistance variation range; revised JYJXC-X135220 Relay contacts Inductance value of the load; revised test

methods for electrical life test (version 2001 4.24,5.6, this edition 4.24,5.6);

--- Increased rectification, polarizing, a very ordinary relay contacts and strengthen Promise, a great strengthening of the relay contacts mechanical life times; increase Plus range have extremely relay mechanical life after transfection extremes; revised test methods - Mechanical Life Testing (2001 edition 4.25,5.7, this edition 4.25,5.7);

--- Amendments to the socket insertion force requirements (Edition 2001 4.26,4.27, 4.26,4.27 this edition);

--- Increased testing methods Promise relay magnetic circuit air gap (edition 5.5).

Appendix A of this standard is a normative appendix, Appendix B is an informative annex.

The standard proposed by the People's Republic of China Ministry of Railways.

This standard equipment by the West safe lead No. Institute.

This standard was drafted. Shenyang Railway Signal Factory, Xi'an Railway Signal Factory, Western security equipment lead No. Institute.

1 Scope

This standard specifies the railway signal AX series relays classification and naming, technical requirements, test methods, inspection rules and signs, including Loading, transport and storage.

This standard applies to railway signal AX series relay (hereinafter referred to as "relay") design, manufacture, inspection and maintenance.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 191 Packaging - Pictorial signs (GB/T 191-2008, ISO 780:1997, MOD) GB/T 2408-2008 Plastics - Determination of burning behavior of horizontal and vertical (IEC 60695-11-10:1999, IDT) GB/T 2423.16-2008 Environmental testing for electric and electronic products Part 2. Test methods - Test J and guidance. Mould growth (IEC 60068-2-10:2005, IDT) GB/T 2828.1-2003 Sampling procedures for inspection - Part 1. by acceptance quality limit (AQL) retrieval batch test sample Programme (ISO 2859-1:1999, IDT) GB/T 2829-2002 periodic inspection Sampling procedures and tables (suitable for process stability test) GB/T 5169.5-2008 Fire hazard testing for electric and electronic products - Part 5. Test flames - Needle-flame test method means Confirmatory test

arrangement and guidance (IEC 60695-11-5:2004, IDT) GB/T 6902-2010 Test Method for railway signal relay

3.1 Classification

Relay according to work is divided into the following four characteristics.

- a) The Promise relay;
- b) rectifying relay;
- c) there are very Relay;
- d) partial pole relay.

3.2 Meaning and model code examples

3.2.1

Relay code See Table 1.

Table 1 Relay Code Meaning

No.	Meaning	Code	No.	Code	Meaning
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1	A	7	P	polarizing security
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2	C	insert	8	Q	movable clamping contacts (before contact)
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3	D	geopositioning	9	W	Promise
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