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

GB 5226.6-2014

**Electrical safety of machinery-Electrical equipment of
machines-Part 6: Requirements for construction machinery**

机械电气安全 机械电气设备 第6部分：建设机械技术条件

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Foreword

This part of Chapter 1, Chapter 2, Section 3, Chapter 4, Chapter 7, Chapter 12, Chapter 13, Chapter 17, Chapter 18 are recommended, The rest is mandatory. GB 5226 "Safety of machinery - Electrical machinery and electrical equipment" is divided into six parts.

--- Part 1. General requirements;

--- Part 6. construction machinery and technical conditions;

--- Part 11. voltage is higher than 1000Va.c or 1500Vd.c but not exceeding 36kV

high-voltage equipment and technical conditions; and.

--- Part 31. Particular safety sewing machines, sewing units and systems and EMC requirements;

--- Part 32. Hoisting Machinery General technical requirements;

--- Part 33. Particular requirements for equipment for semiconductors. This is Part 6 GB 5226's. This part is proposed by China Machinery Industry Federation. The electrical system in part by the National Machinery Industry Standardization Technical Committee (SAC/TC231) centralized. This section is responsible for drafting unit. Zoomlion Company Limited, Beijing Machine Tool Research Institute, long Shai Chuan Automation Equipment Co., Ltd. Participated in the drafting of this section. Sunward Equipment Co., Ltd., Shanghai East China Construction Machinery Co., Ltd., Shandong Province set radius Group Co., Ltd., Beijing Kay to Technology Development Co., Ltd., Shanghai Pal-Fin Automatic Control Technology Co., Ltd., Shenzhen City, measuring Detection Technology Art Co., Ltd., Shanghai Science and Technology Co., Ltd. Ming Shi mine. The main drafters of this section. Zeng Yang, Huang Zu Guang, Xie Changyu, in Xiaoying, Ni Jianjun, Zhang Daqing, Fang Liping, Yu-Min Jiao, Diao Chun and, Liu Huafu, Zhu Ping, Zhao Jian, Zhang Qian, Yao Jin.

This part of GB 5226.1-2008 "Mechanical Electrical Safety of machinery - Electrical equipment - Part 1. General technical conditions" used in conjunction. Figure

1 Typical construction machinery and associated equipment is a block diagram that illustrates all aspects of electrical equipment covered in this section. Figure 1 helps Understand the relationship between various aspects of a construction machinery and related devices. Digital-oriented part of the reg number in parentheses. Electrical equipment block diagram of a typical construction machinery involved Mechanical and electrical machinery and electrical equipment safety Part 6. Construction Machinery Technology Condition

1 Scope

GB 5226.6-2014 is the Chinese national standard on electrical safety of machinery-electrical equipment of machines-part 6: requirements for construction machinery, in the field of electrical engineering. It carries no /T suffix, which in the Chinese system means compliance is mandatory: a product or a practice within its scope has to meet it to be lawfully made, sold or carried out in China. It was issued on 6 May 2014 by the General Administration of Quality Supervision, Inspection and Quarantine of the People's Republic of China; Standardization Administration of China, and has been in force since 29 June 2015. Classification: ICS 29.020, CCS J09. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the

tables and the numeric limits are in the document itself, which is delivered complete in English translation.

GB 5226 this part of the special safety requirements for electrical and electronic equipment and systems applicable to the construction machinery (including a set of mechanical work) of.

Note 1. Construction machinery refers to the construction and town construction machinery and equipment. This section relates to the mechanical construction example in Appendix C.

Note 2. The section "Electrical" includes electrical, electronic and programmable electronic three aspects (such as electrical equipment means electrical equipment, electronic devices and programmable Sequence electronic equipment).

Note 3. For purposes of this section, "person" (person) The term refers to any individual, including those assigned to the user or his agent, use and management of the above-mentioned mechanical man. This section applies to the electrical equipment or parts of electrical equipment with a nominal voltage not exceeding 1000Va.c. Or 1500Vd.c., Rated frequency Not more than 200Hz.

Note 4. For high voltage requirements, see GB 5226.3. This section does not specify the following additional construction machinery and electrical equipment and special technical requirements.

- Use, handling or production of explosive materials (such as paint or sawdust) machinery;
- Machinery flammable explosive used in the environment;
- When the processing or use of certain materials will have a special risk of machinery.

2 Normative references

The following documents for the application of this document is essential. For dated references, only the dated version suitable for use herein Member. For undated references, the latest edition (including any amendments) applies to this document.

GB 755 rotary motor fixed and performance

GB/T 1251.1-2008 Ergonomics public places and work areas - Auditory danger signal danger signal

GB/T 3805-2008 extra low voltage (ELV) limits

GB 5226.1-2008 Safety of machinery - Electrical machinery and electrical equipment - Part 1. General requirements

GB/T 11918-2001 industrial plug and socket couplers - Part 1. General requirements

GB/T 12668.1-2002 Adjustable speed electrical power drive systems - Part 1. General

requirements for low-voltage DC speed electric drive systems Rating specifications

GB 14048.1-2012 Low-voltage switchgear and control equipment - Part 1. General

GB 14048.2-2008 Low-voltage switchgear and control equipment Part 2. Circuit Breaker

GB 14048.3-2008 Low-voltage switchgear and control equipment - Part 3. Switches, disconnectors, switch and fuse combination

GB 14048.4-2010 Low-voltage switchgear and control equipment - Part 4-1. Contactors and motor starters electromechanical contact Contactors and motor starters (with motor protection)

GB/T 14048.5-2008 Low-voltage switchgear and control equipment Part 5-1. Control circuit devices and switching element Electromechanical Control circuit devices

GB/T 14048.7-2006 Low-voltage switchgear and control equipment - Part 7-1. Ancillary equipment - Terminal blocks for copper conductors

GB/T 15706-2012 Safety of machinery - General principles for design risk assessment and risk reduced Position of the operation member and the requirements of the operation.

3 Terms and Definitions

GB 5226.1-2008 defined and the following terms and definitions apply to this document.

3.1 Lightning electromagnetic pulse lightningelectromagneticimpulse; LEMP
Electromagnetic effects of lightning current. [GB/T 21714.4-2008,3.4]

Note. It includes the conduction and radiation surge pulsed electromagnetic field radiation.

3.2 Surge protectors surgeprotecteddevice; SPD For limiting transient over-voltage and surge current shunt device comprising at least one non-linear element.

4 Road Electrical disturbance component test methods - Part

4 Vehicle narrowband radiated electromagnetic energy. a large current injection Into
[Roadvehicles-Componenttestmethodsforelectricaldisturbancesfromnarrowbandradiatedele
c- tromagneticenergy-Part 4. Bulkcurrentinjection (BCI)] ISO 11452-

5 Road vehicles narrowband radiated electromagnetic energy Electrical disturbance
component test methods - Part 5. stripline
(Roadvehicles-Componenttestmethodsforelectricaldisturbancesfromnarrowbandradiatedele
c- tromagneticenergy-Part 5. Stripline)

ISO 12603.2010 Building construction machinery and equipment Classification
(Buildingconstructionmachineryandequipment- Classification)