

ICS 29.020
CCS J09



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

GB/T 22841-2008

**Electrical equipment of industrial machines - Test
specifications for voltage dips, short interruptions immunity**

工业机械电气设备 电压暂降和短时中断抗扰度试验规范

Issued on: December 30, 2008

Implemented on: February 1, 2010

**Issued by: General Administration of Quality Supervision, Inspection and
Quarantine of the People's Republic of China;
Standardization Administration of China**

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Foreword

Appendix A of this standard is an informative annex. The standard proposed by China Machinery Industry Federation. The standard mechanical and electrical systems by the National Standardization Technical Committee (SAC/TC231) centralized. This standard was drafted. GSK CNC Equipment Co., Ltd., Beijing KND CNC Technology Co., Ltd., Shenyang high-precision CNC Technology Co., The company, a solid high-tech (Shenzhen) Co., Ltd. The main drafters. Zhang Yujie, Hemin Jia, Yang Hongli, Lee forbearance, Shao Guoan, Yang Tong Yong, Hao Liu, Yin Zhenyu, Gong Xiaoyun.

The purpose of this standard is to establish a basic test specifications to assess industrial machinery and electrical equipment when subjected to voltage dips and short interruption Performance changes. This standard rated input current and low voltage power supply network connection does not exceed 16A per phase electrical industrial machinery, electronic equipment and The basic requirements for the test system voltage dips and short interruption immunity, configuration and test equipment, test methods and procedures and with different environments and Installation states associated test level. The reference to the standards GB 5226.1-2002/60204-1 IEC .2000 "Part

1 Safety of machinery - Electrical equipment Score. General technical conditions ", GB/T

21067-2007" industrial machinery and electrical equipment Electromagnetic compatibility - Generic immunity requirements "and other standards. Industrial machinery and electrical equipment voltage sag And short interruptions immunity test specification

1 Scope

GB/T 22841-2008 is the Chinese national standard on electrical equipment of industrial machines - test specifications for voltage dips, short interruptions immunity, in the field of electrical engineering. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 30 December 2008 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 1 February 2010. 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.

This standard specifies the electrical machinery industry, electronic equipment and systems and low-voltage power supply network connection (hereinafter referred to as "equipment") voltage Dips and interruption immunity basic test requirements, test equipment and configuration, test methods and procedures, test result evaluation and test report Preparation, and also provides a different environment and installation conditions associated test level preferred. This standard applies to rated voltage not exceeding AC1000V, rated frequency not exceeding 200Hz and the rated input current of each phase is not over 16A voltage industrial electrical machinery, electronic equipment and electrical equipment and systems or system components dips and interruptions immunity test. Immunity test is applicable to the device.

- R & D testing;
- Acceptance test;
- Production test.

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 4365-2003 Electrotechnical terminology Electromagnetic Compatibility (idt IEC 60050

(161).1990)

GB/T 21067-2007 industrial machinery and electrical equipment Electromagnetic compatibility - Generic immunity requirements

3 Terms and Definitions

And the following terms and definitions GB/T 4365-2003 established apply to this standard.

3.1 Apparatus, equipment or system performance with the proper performance of undesired deviation. [GB/T 4365-2003, the definition 161-01-19]

Note. The "decrease" The term can be used for temporary or permanent failure failure.

3.2 At some point the voltage on the electrical system suddenly reduced to below the predetermined threshold, then returned through a brief interval to normal. [GB/T 17626.11-2008, the definition 3.3] NOTE. Voltage sag is a two-dimensional electromagnetic interference, which is determined by the voltage level and time (duration).

3.3 A point on the power supply system to a sudden drop in all phases of the interrupt predetermined threshold or less, then subjected to a brief interval to restore normal