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GB 16754-2008 / ISO 13850:2006

Replacing GB 16754-1997

Safety of Machinery – Emergency Stop – Principles for Design (ISO 13850:2006, IDT)

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Issued on: August 25, 2008

Implemented on: April 1, 2009

Issued by: General Administration of Quality Supervision, Inspection and Quarantine;

Standardization Administration of PRC.

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Foreword

The Chapter 4 in this Standard is mandatory, while the rest are recommended.

This Standard equally adopted International Standard ISO 13850:2006 *Safety of Machinery – Emergency Stop – Principles of Design*.

Compared with ISO 13850:2006, this Standard mainly has the following changes:

- Use “this Standard” to replace “this International Standard”;
- Delete ISO Foreword, and re-formulate the foreword;
- Modify the introduction paragraph of normative references as per GB/T 1.1-2000, and change the ISO 13850:2006 referenced International Standard into the corresponding National Standard.

This Standard replaces GB 16754-1997 *Safety of Machinery – Emergency Stop – Principles of Design*.

This Standard makes the technical changes against GB 16754-1997 as follows:

- Standard property was changed from full-text mandatory into partial-text mandatory;
- Add Clause 3.4, definition of “Safety Function”;
- Describe two types of stops in Clause 4.1.4 respectively;
- Delete “Figure 1 Symbole for Emergency Stop”;
- Delete “Appendix A”;
- Add “Bibliography”.

This Standard was proposed and under the jurisdiction of National Standardization Technical Committee for Safety of Machinery.

Drafting organization of this Standard: China Productivity Center for Machinery of Research Institute of Mechanical.

Chief drafting staffs of this Standard: Fu Rui, Li Qin, Wang Xuezhi, Zhao Baolin, Li Jing, Chen Runjie, Meng Xianwei, Zhang Xiaofei, and Fu Dawei.

The historical edition replaced by this Standard is as follows:

- GB 16754-1997.

Safety of Machinery – Emergency Stop – Principles for Design

1 Scope

This Standard specifies functional requirements and design principles for the emergency stop function on machinery, independent of the type of energy used to control the function.

This Standard is applicable to all machinery except for:

- Machines in which the provisions of emergency stop would not lessen the risk;
- Hand-held portable machines and hand-guided machines.

This Standard does not deal with functions such as reversal or limitation of motion, deflection, shielding, braking or disconnecting, which can be part of the emergency stop function.

2 Normative References

The provisions in following documents become the provisions of this Standard through reference in this Standard. For dated references, the subsequent amendments (excluding corrigendum) or revisions do not apply to this Standard, however, parties who reach an agreement based on this Standard are encouraged to study if the latest versions of these documents are applicable. For undated references, the latest edition of the referenced document applies.

IEC 60204-1:2005 *Electrical Equipment of Machines – Part 1: General Requirements*

IEC 60947-5-5:2005 *Low-Voltage Switchgear and Controlgear – Part 5-5: Control Circuit Devices and Switching Elements – Electrical Emergency Stop Device with Mechanical Latching Function*

IEC 60417-DB:2002 Graphical Symbols for Use on Equipment (On-Line Database)

Bibliography

- [1] GB/T 15706.1-2007 Safety of Machinery – Basic Concepts General Principles for Design – Part 1: Basic Terminology Methodology (ISO 12100-1:2003, IDT).
- [2] GB/T 16855.1 Safety of Machinery – Safety Related Parts of Control Systems – Part 1: General Principles for Design (GB/T 16855.1-2008, ISO 13849-1:2006, IDT).
- [3] IEC 60947-5-1:2003 Low-Voltage Switchgear and Controlgear – Part 5-1: Control Circuit devices and Switching Elements – Electromechanical Control Circuit Devices.
- [4] IEC 62061 Safety of Machinery – Functional Safety of Safety-Related Electrical, Electronic and Programmable Electronic Control Systems.

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