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

GB/T 35685.1-2017

**Low-voltage switchgear and controlgear enclosed equipment --
Part 1: Enclosed switch-disconnectors to provide isolation
during repair and maintenance work**

低压封闭式开关设备和控制设备 第1部分：在维修和维护工作中提供隔离功能的
封闭式隔离开关

(English Translation)

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard uses the translation method identical with IEC 62626-1:2014 "Low-voltage switchgear and control equipment Part 1.

Enclosed disconnectors that provide isolation in repair and maintenance outside the scope of IEC 60947-3 ".

This standard made the following editorial changes.

--- Standard name was changed to "low-voltage switchgear and control equipment Part 1. Provide isolation in the maintenance and maintenance work Function of the closed isolation switch. " this standard proposed by the China Electrical Equipment Industry Association.

This standard by the National Low Voltage Electrical Standardization Technical Committee (SAC/TC189) centralized.

This standard was drafted unit. Shanghai Electric Apparatus Research Institute, Shanghai Electric Branch Electric Technology Co., Ltd., Shanghai Loncin Electric Co., Ltd., Wuxi New Fergus Electrical Technology Co., Ltd., Schneider Electric (China) Co., Ltd. Shanghai Branch, Shanghai Electrical Equipment Testing Institute.

Introduction

The enclosed isolating switch referred to in this standard is intended for a variety of purposes, mainly in the repair and cleaning of electrical circuits (especially motor circuits) and Maintenance work to provide electrical equipment isolation.

This enclosed disconnecter is also referred to as a "service switch" or a "safety switch." "Safety switch" is also used for safety-related positions Off, test switch and other switches not covered in this standard.

This standard specifies, in accordance with IEC 60947-3, a closed isolating switch that provides isolation in the maintenance and servicing of electrical equipment Additional requirements.

The enclosed isolating switch provided by this standard is generally installed near the isolated electrical appliance and operated by professionals.

NOTE Disconnectors do not have to meet the requirements to prevent unintended start-up, especially if there are other sources of energy other than electrical energy.

Low-voltage switchgear and control equipment Part 1. Provided for repair and maintenance work Isolated isolation switch function

1 Scope

This standard applies to AC rated voltage does not exceed 1000V, in the load circuit for maintenance, and cleaning of the enclosed compartment Off the switch. These enclosed disconnectors are derived from the disconnectors in IEC 60947-3 for use in the IEC 60947 series to prevent unintended start-up from occurring, it is not recommended to install remote control or automatic switch. This type of appliance is not intended for use in the circuit Off, fast start and stop or jog load.

Note 1: This type of appliance may disconnect the electrical equipment (whether or not it is in normal operation).

The enclosed isolating switch in this standard provides electrical equipment (especially in motor circuits) for repair and maintenance work or cleaning work.

Isolated.

An enclosed disconnecter that isolates electrical equipment during repair and maintenance work is also referred to as a "service switch" and provides the following content.

- a) different grades, see chapter 4;
- b) the characteristics of each level;
- c) the minimum test requirements;

d) Information that should be indicated on the appliance, or information provided by the manufacturer, such as product samples.

Note 2: This standard does not specify the necessary additional requirements for the application of these switches, such as in explosive atmospheres (eg the European ATEX Directive).

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 20138-2006 Protection degree (IK code) of electrical equipment enclosure to external mechanical impact (IEC 62262:2002, IDT) IEC 60050 (all parts) International Electrotechnical Vocabulary (Internationalelectrotechnicalvocabulary) IEC 60947-1-2007 low-voltage switchgear and control equipment Part 1. General (Low-voltagewitchgearandcon-trolgear-Part 1: Generalrules) IEC 60947-1:2007/A1.2010 No. 1 Amendment (Amendment1,2010) Low - voltage switchgear and controlgear - Part 3. Switches, isolators, disconnectors and fuse sets Low-voltage switchgear and controlgear-Part 3. Switches, disconnector, switch-disconnector andfuse-combinationunits) IEC 60947-3:2008/A1.2012 No. 1 Amendment (Amendment1,2012)

3 Terms and definitions

IEC 60050-441, IEC 60947-1, IEC 60947-3 and the following terms and definitions apply to this document.