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

GB/T 30215-2013

**General requirements for electromagnetic relays and
contactors of aircraft**

飞机电磁继电器和接触器通用要求

(English Translation)

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Foreword

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

This standard uses redrafted Law Amendment uses ISO 5867-1:1996 "Aircraft electromagnetic relays and contactors - Part 1. General Claim".

This standard and ISO 5867-1:1996 technical differences are as follows.

--- On normative references, this standard has been adjusted technical differences, in order to adapt our technical conditions, adjustments Focus reflected in Chapter 2, "Normative references", the specific adjustments are as follows.

1) GB/T 2900.17, GB/T 2900.63 and GB/T 2900.64 instead of IEC 50 (446).1990 (GB/T 2900.

17-2009 portion reference IEC/TC1/2033/CDV documentation. "International Electrotechnical Vocabulary Chapter 447 metric relay Device ", GB/T 2900.63-2003 identical with IEC 60050-444:2002, GB/T 2900.64-2003 equivalent Mining with IEC 60050. 445-2002);

2) increased GJB360B-2009 "Test methods for electronic and electrical components."

--- For the rated current less than 25A when the terminal type selection, and increased Leaded Solder end dual input terminals Form (see 4.10.2.1).

--- Added "unless otherwise specified in detail" (see 5.1.11 and 6.1.10).

--- Modify the vibration test conditions changed at ambient temperature (see 6.2.9).

--- Remove the ISO 5867-1:1996 in the second paragraph 6.2.15.4 content, and Figures 11 and 12 are inconsistent.

--- Increased by GJB360B-2009 method 112 or IEC 68-2-17 test method (see 6.2.19).

This standard made the following editorial changes.

a) the description of the relay and/or contactor unified as "products";

b) ISO 5867-1:1996 Table 21 in the first row 8,9 error, instead of dielectric strength and insulation resistance;

c) Delete ISO 5867-1:1996 paragraph 6.1 of the suspension;

d) in FIG. 12, "then 115V/200V, 400Hz three-phase AC power" at the changed ground symbol terminal symbol;

e) All formulas are numbered;

f) Remove ISO 5867-1:1996 Appendix A "single - Specification example," increase our standard of Appendix A "reg number and ISO 5867-1:1996 The table ";

g) the reference to Appendix B, and added references;

h) increasing the standards of Appendix B "ISO 7137:1995 standard test method number and its corresponding relationship." the standard proposed by China Aviation Industry Corporation.

This standard by the National Standardization Technical Committee on Aircraft (SAC/TC435) centralized.

This standard was drafted. Aviation of China Institute of Technology, Guizhou-electrical limited liability company.

1 Scope

This standard specifies the special aircraft for 28V DC or 115V/200V, 400Hz three-phase AC system (with ISO 1540 regulations Sexual) contacts rated current value is not less than 5A (AC, DC) electromagnetic relays and contactors (hereinafter referred to as "Product") performance requirements.

Auxiliary contacts can have a lower rating. This standard specifies the products are divided into three temperature levels and three types of seals.

This standard applies to the 28V DC or 115V, 400Hz AC voltage electromagnetic motion control, magnetic or electromagnetic action, machine Mechanical or magnetic self-locking of unipolarity, multipolarity products.

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/T 2900.17 Electrotechnical terminology measuring relays GB/T 2900.63
Electrotechnical term basis relays (IEC 60050-444:2002, IDT) GB/T 2900.64
Electrotechnical terminology with or without time relay (IEC 60050-445:2002, IDT)
GJB360B-2009 test methods for electronic and electrical component ISO 1540 aerospace
plane electrical system characteristics
(Aerospace-Characteristicsofaircraftelectricalsys-tems) ISO 7137:1995 aircraft airborne
equipment Environmental conditions and testing methods
(Aircraft-Environmentalconditionsand testproceduresforairborneequipment) IEC 68-2-17
Basic environmental testing procedures Part 2. Tests - Test Q. Sealing
(Basicenvironmentaltesting procedures-Part 2. Test-TestQ. Sealing) Part 2 IEC 158-2 Low
voltage control mechanism. Semiconductor contactors (solid state controller)
[Low-voltagecontrolgear-Part 2. Semiconductorcontactors (solidstatecontroler)]

3 Terms and Definitions

GB/T 2900.17, GB/T 2900.63, terms and definitions GB/T 2900.64 and IEC 158-2 defined apply to this document.

4.1 Detailed specification

The product should comply with this standard and the related detailed specifications. When the requirements of this standard and detailed specification conflict should be based on detailed regulations Fan prevail.

The manufacturer shall prepare a detailed specification of each type of product.

4.2 Temperature class

The highest and lowest temperatures for the environment, the temperature classification as follows.

A level. -65 °C ~ 125 °C;