

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

SN/T 1431.6-2012

**Rules for the inspection of low-voltage appliances for import
and export. Part 6: Energy efficiency of AC contactor
(English Translation)**

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Foreword

SN/T 1431 "Importers and low-voltage electrical inspection procedures" is divided into six parts.

- Part 1. General requirements;
- Part 2. Household and similar circuit breakers for overcurrent protection;
- Part 3. Household and similar residual current operated circuit breaker;
- Part 4. Electromechanical contactors and motor starters;
- Part 5. Low-voltage fuses;
- Part 6. AC contactor energy efficiency.

This section SN/T 1431 Part 6.

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

Please note that some of the content of this document may involve patents. Release mechanism of the present document does not assume responsibility for the identification of these patents.

This section proposed and managed by the National Certification and Accreditation Administration Committee.

1 Scope

SN/T 1431 This section provides import and export of exchanges and contacts with energy efficiency requirements, sampling, testing and the results of determination.

This part of the direct drive rated frequency 50Hz, rated working voltage of 380V (400V), rated current of 6A ~ 630A Style, three-pole electric, AC contactor integral.

This section does not apply to additional energy-saving devices, for household and similar purposes contactors and semiconductor contactors (solid state contactors).

2 Normative references

GB 21518 AC contactor energy efficiency limit value and energy efficiency rating China energy efficiency labeling base style (NDRC Announcement 2004 No. 71)

3 Terms and Definitions

Terms and definitions defined in GB 21518 apply to this section.

4.1 Contactor energy efficiency rating

Contactor energy efficiency rating is divided into three, the lowest level 1 holding power. Each grade contactor holding power shall be not greater than the requirements in Table 1.

Table 1 contactor (AC-3) energy efficiency rating

Rated operational current IE	Holding power (V. A)	Level 1	2	3	6<=IE<=12	0.5	5.0	9.0	12
≤22	0.5	5.1	9.5	twenty two	≤32	0.5	8.3	14.0	32
≤40	0.5	11.4	19.0	40	≤63	0.5	31.2	57.0	63
≤100	1.0	36.6	61.0	100	≤160	1.0	51.3	85.5	160
≤250	1.0	91.2	152.0	250	≤400	1.0	150.0	250.0	400
≤630	1.0	150.0	250.0	Note. The same frame degree take maximum IE, for example. 40A ~ 65A for the same frame degree of contact, 65A should energy efficiency level assessment, namely					