DECLARATION

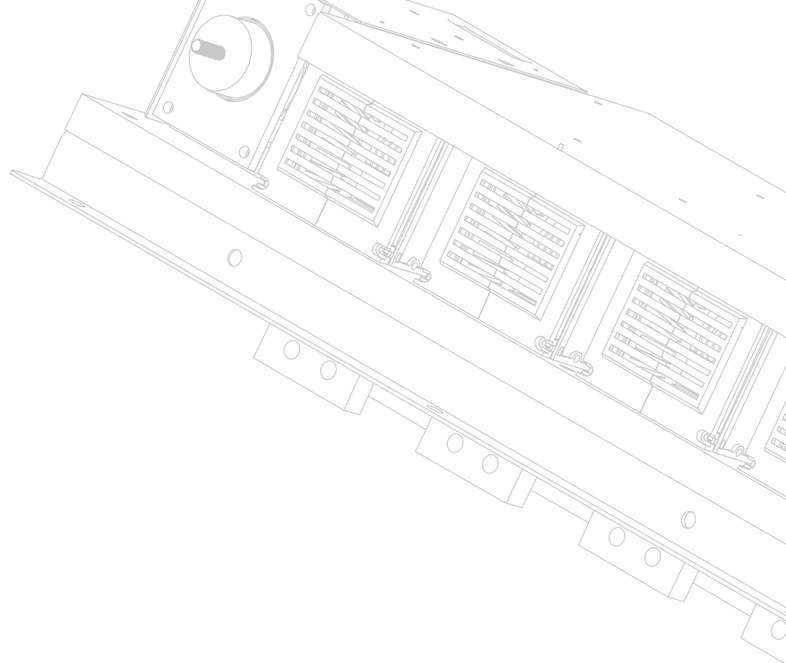
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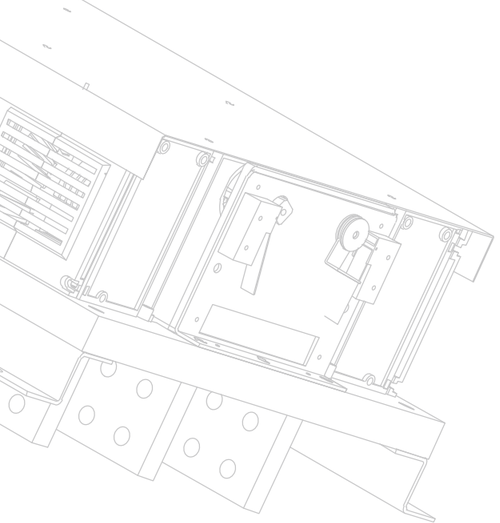
POWER THE FUTURE

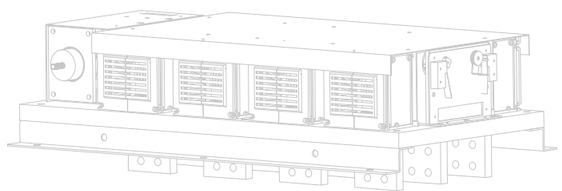


ASKQ8 SERIES

INTELLIGENT AUTOMATIC TRANSFER SWITCH

SELECTION GUIDE





JIANGSU AISIKAI ELECTRIC CO., LTD.

Tel : +86-514-83872777 83872888
E-mail: aisikai@aisikai.cc
Fax: +86-514-83872000
Twitter: AISIKAI ELECTRIC
Web: www.aisikaigroup.com
Facebook: Aisikai
Add: NO.5 Chuangye Road, Chenji Industrial Zone, Yizheng City, Jiangsu Province, China

JIANGSU AISIKAI ELECTRIC CO., LTD.

PRODUCTS CONTENTS

01 **ASKQ8 Class PC Intelligent Automatic Transfer Switch**

01 Selection Table

02 Structure Introduction

03 Main Technical Parameters

04 Outline dimension drawing

08 Internal Schematic Diagram

09 Dedicated Wiring Diagram

COMPANY PROFILE

Founded in 2007, Jiangsu AISIKAI Electric Co., Ltd. focuses on the R&D, manufacturing, and sales of high-quality low-voltage switching products. Our solutions cover primary, secondary, and tertiary power distribution applications.

AISIKAI is a National High-Tech Enterprise, certified to ISO 9001, with products compliant with CE and CCC standards. We are also an SGS-audited qualified supplier. The company holds multiple invention and utility model patents and was recognized as a Yangzhou Engineering Technology Center and a national standards-adopting enterprise.

Driven by Quality, Service, Integrity, and Innovation, AISIKAI continuously improves from the customer's perspective—delivering reliable products and practical solutions for modern power distribution.

Aisikai, Power the Future.



ASKQ8 CLASS PC INTELLIGENT AUTOMATIC TRANSFER SWITCH (ELECTROMAGNETIC DRIVEN)

SELECTION TABLE

ASK	Q	8	—	4000A	/	4P	/	X

- **ATS Driven Mode:** Q: Class PC electromagnetic driven
- **Rated Operational Current In(A):** 630A, 800A, 1000A, 1250A, 1600A, 2000A, 2500A, 3200A,3600A, 4000A, 4500A, 5000A, 6300A
- **Function:** X: Fire-fighting type (fire-fighting 0 position)
- **Company:** AISIKAI ELECTRIC
- **Design serial:** High current type
- **No. of poles:** 3P: 3 poles; 4P: 4 poles

Design Marking



Model Description:

ASKQ8-4000A/4P:
1. Class PC electromagnetic driven type automatic transfer switch
2. Rated operational current 4000A
3. Poles of copper bars
4. External control type. Closing control signal is AC220V

CERTIFICATES



OVERVIEW

ASKQ8 double power automatic transfer switch is Class PC infrequently operated electric transfer switch. Switches are suitable for the reliable conversion of two power supplies in 50/60Hz 630A-6300A low voltage AC power distribution system. There are three working modes: automatic, electric and emergency manual.

PRODUCT FEATURES

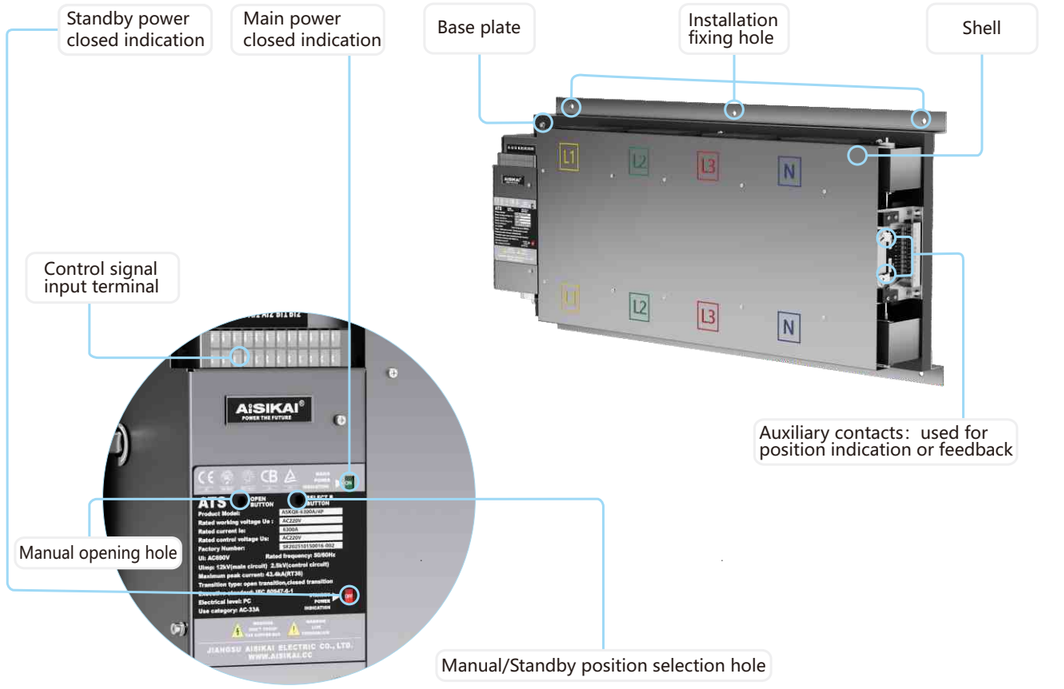
- The excitation type electromagnet drive is adopted, which is extremely fast in transferring.
- 630A-6300A switch is suitable for industrial places for high current switching, meeting the requirements of the first level power distribution system.

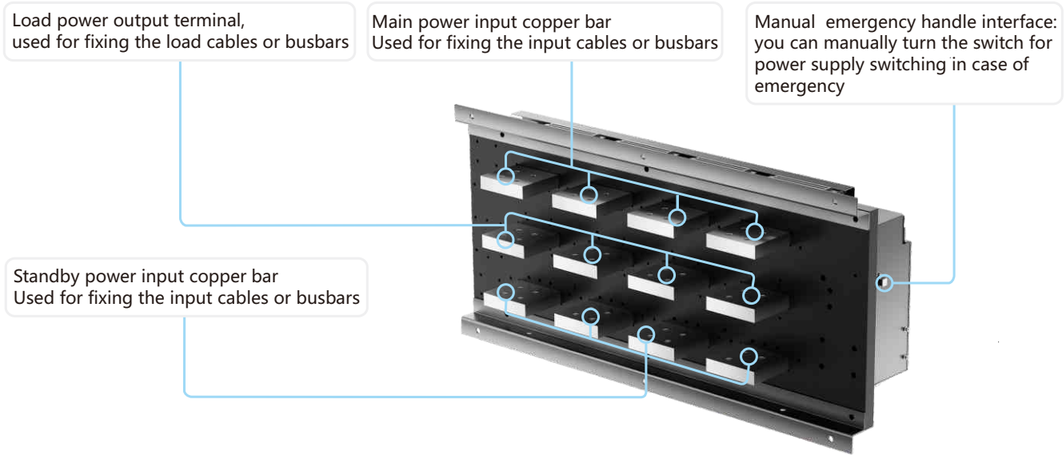
NORMAL OPERATIONAL CONDITIONS AND INSTALLATION METHODS

Item	Requirements
Temperature	-5 to +40℃. The average value within 24 hours shall not exceed +35℃ ;
Humidity	The average humidity at +40℃ shall not exceed 50% ; higher humidity is allowed at a lower temperature, for example, 90% at +25℃. Special measures should be taken for occasional;
Altitude	Lower than 2000 meters.Operation at altitude above 2000 meters requires derating;
Vibration and gas	Use environment should be without strong vibration and shock, and without harmful gases that corrode metals and destroy insulation.;
Ambient substance	Without heavy dust, conductive particles and explosive hazardous substances;
Pollution level	Level 3 in accordance with GB/T14048.11
Installation category	Category Ⅲ in accordance with GB/T14048.11
Installation method	To be installed vertically or horizontally in control cabinets and distribution cabinets.

ASKQ8 SERIES HIGH CURRENT TYPE AUTOMATIC TRANSFER SWITCH (630A-6300A)

STRUCTURE INTRODUCTION



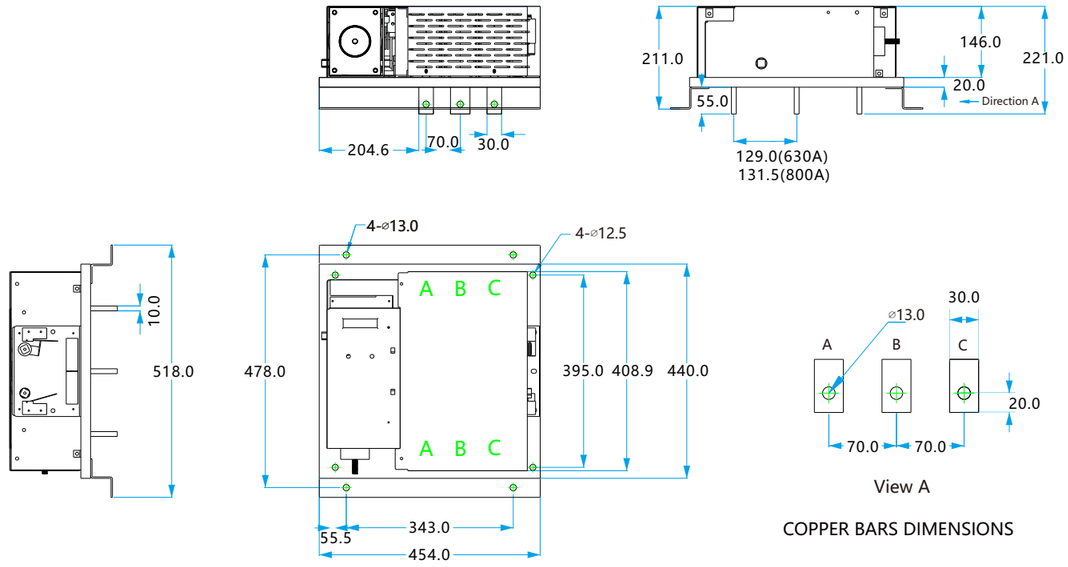


MAIN TECHNICAL PARAMETERS(3200A-6300A)

Thermal current rating **Ith**		**800A**	**1600A**	**3200A**	**6300A**
Thermal current rating **Ith**		800A	1600A	3200A	6300A
Rated operational current of copper bar **Ie**		630A, 800A	1000A,1250A, 1600A	2000A, 2500A, 3200A	3600A, 4000A,4500A, 5000A, 6300A
Rated insulation voltage of copper bar **Ui**		AC1000V			
Rated impulse withstand voltage **Uimp**		12kV			
Rated operational voltage of copper bar **Ue**		AC400V			
Mechanical structure		Three-section type			
Wiring method		Behind the board			
Operational current**(A)**	AC230V	20	20	38	38
Tripping current**(A)**	AC230V	10	10	10	10
Short-circuit making capacity **Icm** (peak value)		40kA	67.2kA	105kA	105kA
Short-time withstand current **Icw** (kA)		20kA/100ms	32kA/100ms	50kA/100ms	60kA/100ms
Rated limit short-circuit current **Iq** (fuse for protection)		120kA	120kA	120kA	180KA
Rated restricted short-circuit current **Iq** (circuit breaker protection)		65kA			
Electrical level		PC			
Use category	**A-B**	AC-33A			
Transfer time	**B-A**	≤0.2s			
Service life		Electrical service life **6000** times, Mechanical service life **10000** times			
Operating cycle frequency		120 times/hour			
Auxiliary contacts		2 normally open 2 normally closed for both power A and power B. Switch capacity: AC:110V 5A / AC:220V 3A DC:220V 0.2A			
Accessory		Handle			

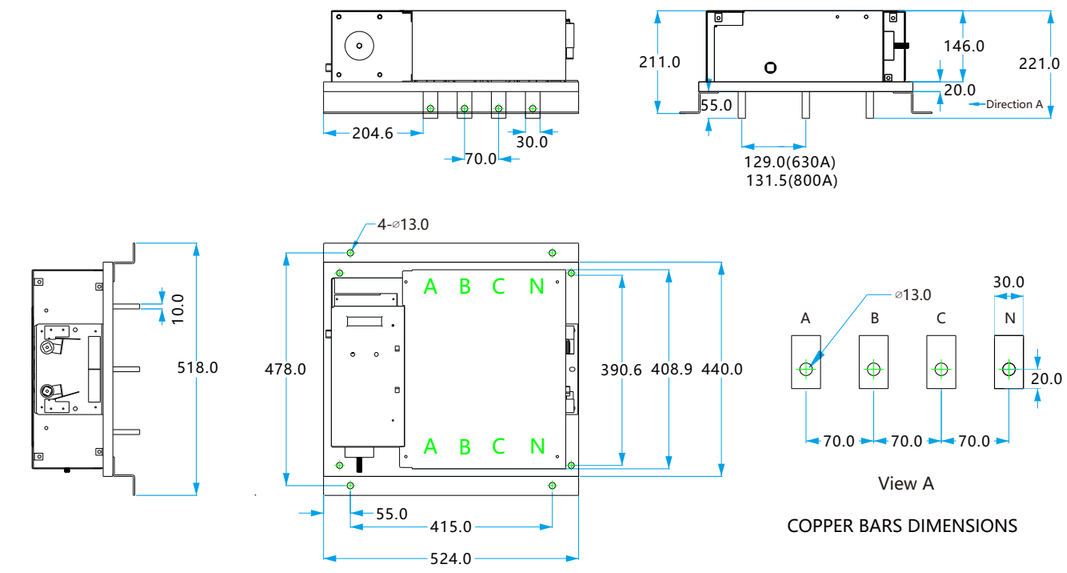
OUTLINE DIMENSIONS

ASKQ8-630A~800A-3P



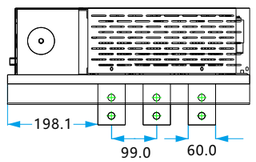
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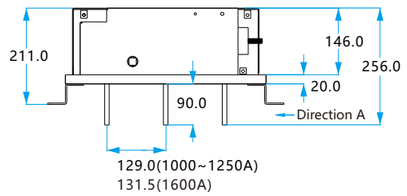
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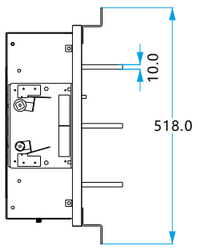


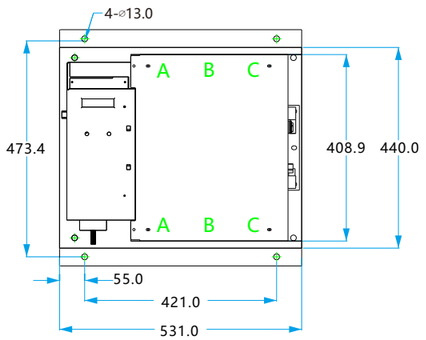
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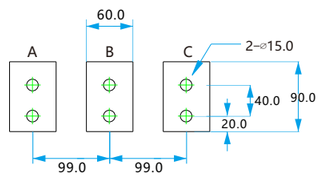
ASKQ8-1000A~1600A-3P







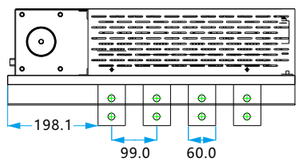


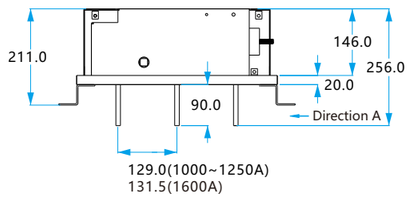


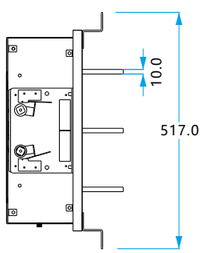
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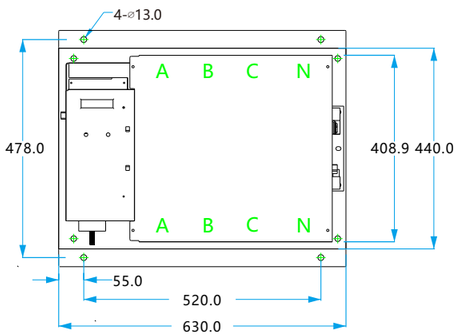
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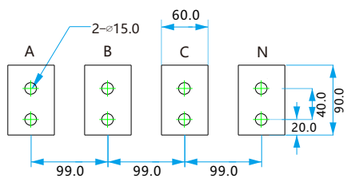
ASKQ8-1000A~1600A-4P







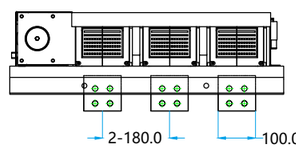


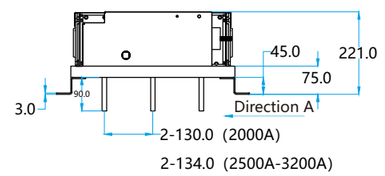


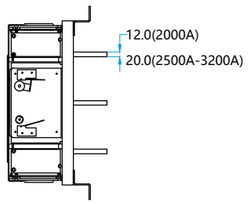
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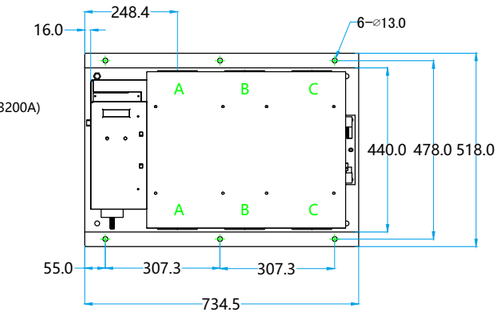
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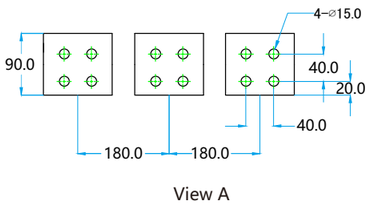
ASKQ8-2000A~3200A-3P







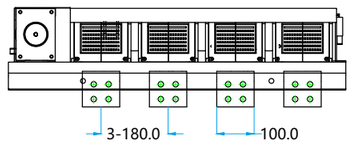


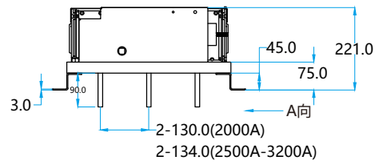


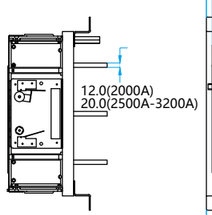
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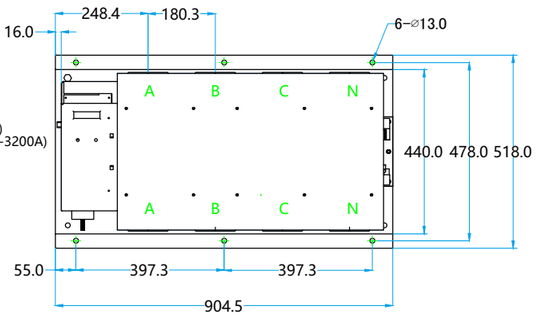
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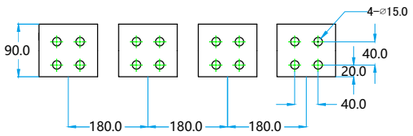
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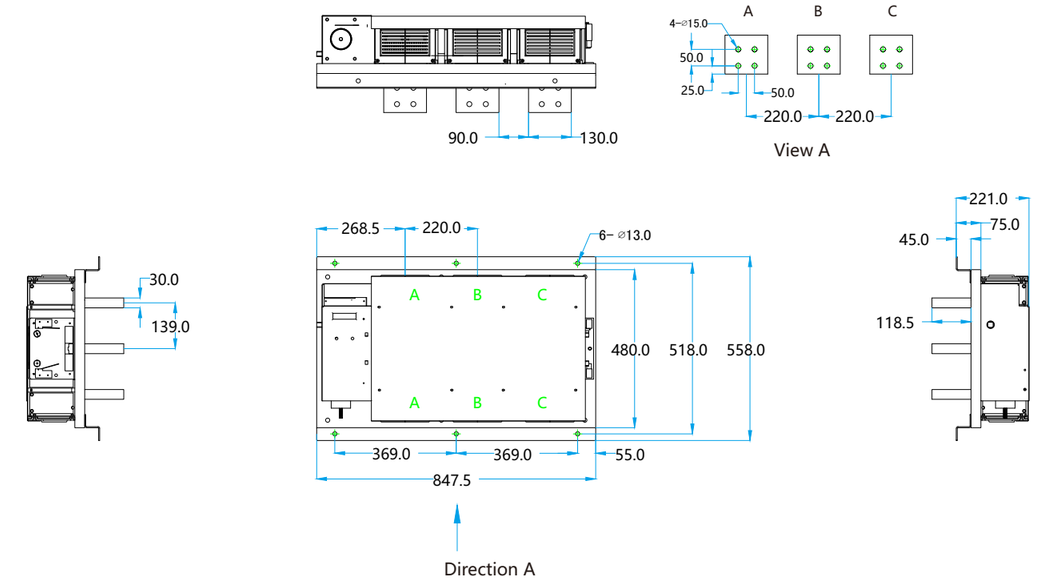




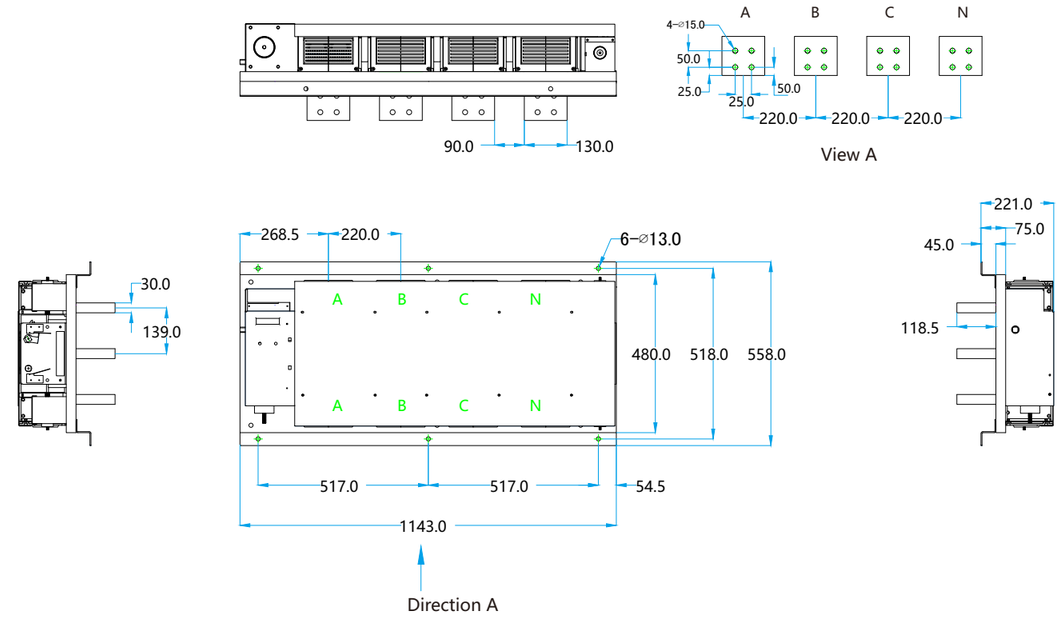
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COPPER BARS DIMENSIONS

ASKQ8-4000A~6300A-3P

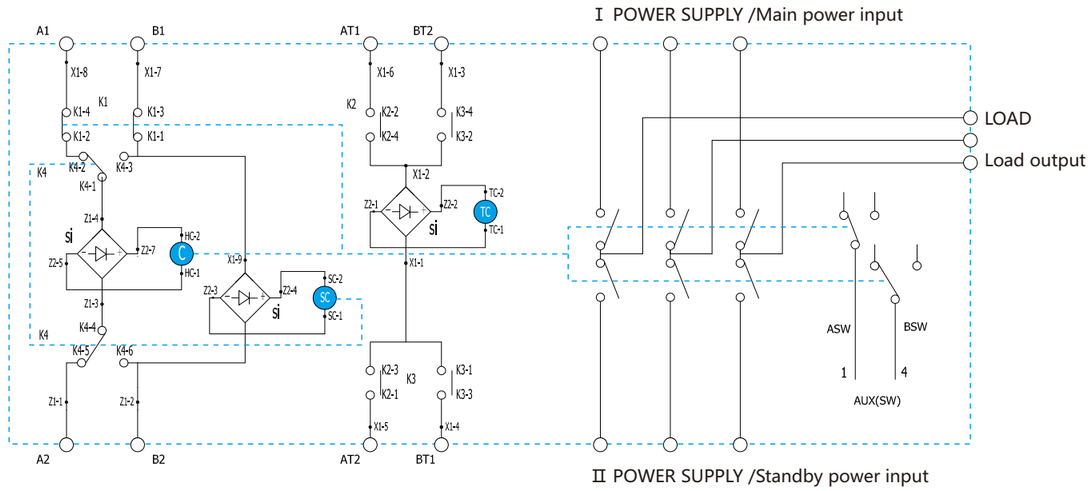


ASKQ8-4000A~6300A-4P



INTERNAL SCHEMATIC DIAGRAM (4000A-6300A)

ASKQ8 SERIES



C=Switch-on coil
SC=Selection coil
TC=Tripping coil
SI=Rectifier
LS=Selector switch

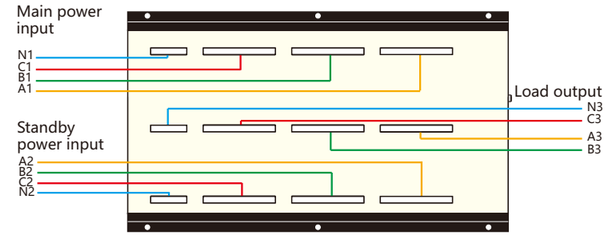
ATS1，ATS2=A power open terminal
BTS1，BTS2=B power open terminal
AX，BX=Control switch
AUX=Auxiliary switch

A1-A2=A Power side switch-on terminal
B1-B2=B Power side switch-on terminal
BT1-BT2=B Power side tripping terminal
AT1-AT2=A Power side tripping terminal

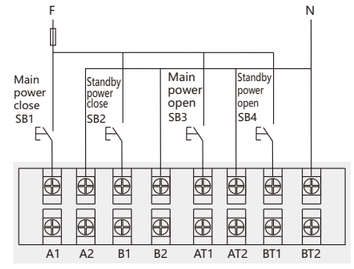
Moving contacts
Fixed contacts

TYPICAL WIRING DIAGRAM(3200A-6300A)

Primary wiring schematic diagram



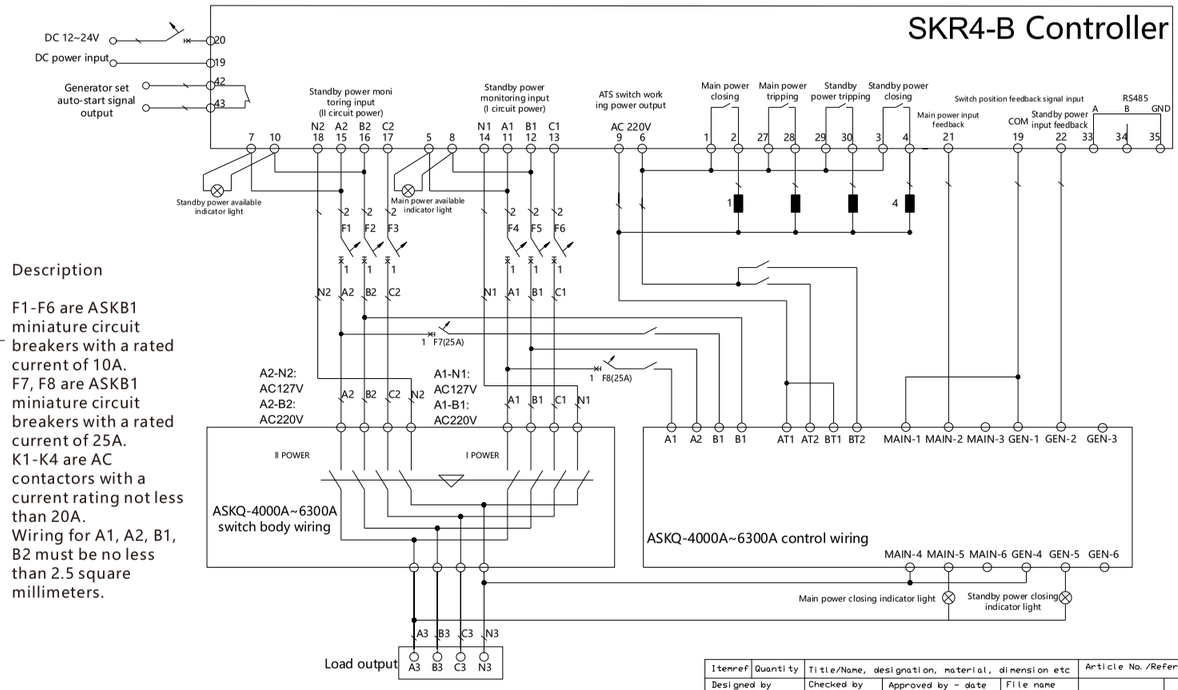
Secondary wiring schematic diagram



A1、A2=A Power side switch-on terminal； B1、B2=B Power side switch-on terminal
AT1、AT2=A Power side tripping terminal；BT1、BT2=B Power side tripping terminal

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SKR4-B & ASKQ8 Control Schematics - AC127/220V



Description

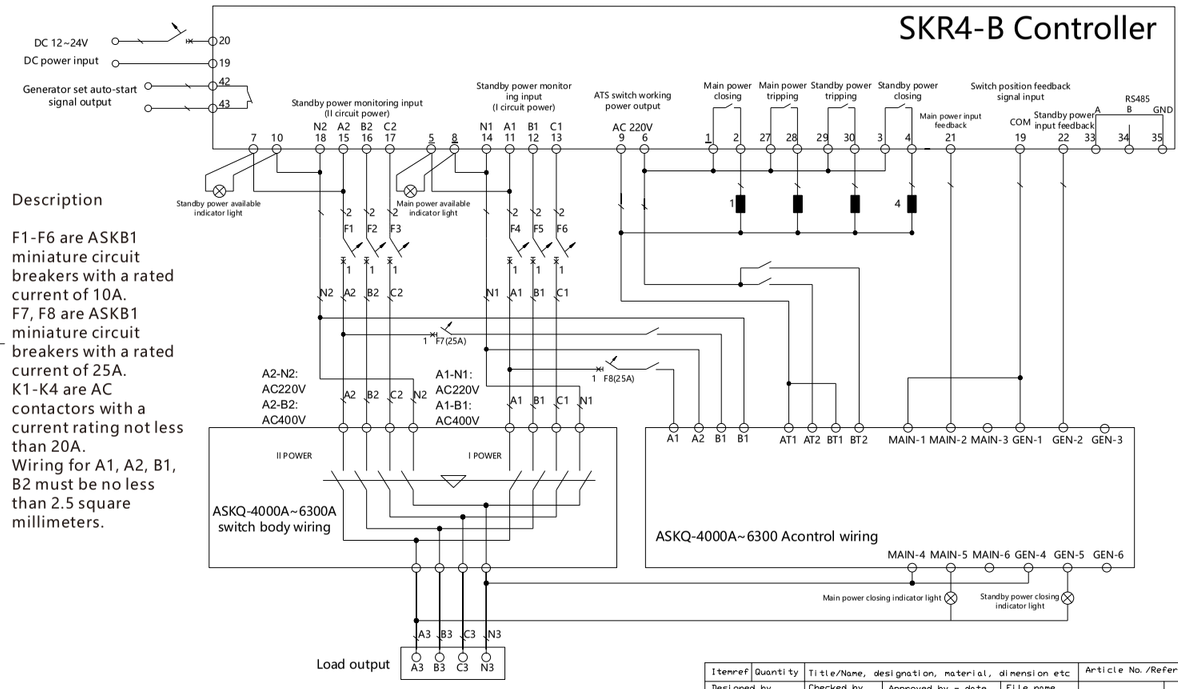
F1-F6 are ASKB1 miniature circuit breakers with a rated current of 10A.
F7, F8 are ASKB1 miniature circuit breakers with a rated current of 25A.
K1-K4 are AC contactors with a current rating not less than 20A.
Wiring for A1, A2, B1, B2 must be no less than 2.5 square millimeters.

Itemref	Quantity	Title/Name, designation, material, dimension etc		Article No. /Reference
Designed by Technique Dept.	Checked by	Approved by - date	File name ATSC	
AISIKAI	Secondary wiring Diagram	C	ATSC	
	AC127\AC220V	No.		

ASKQ8 Series ATS+SKR4-B CONTROLLER WIRING DIAGRAM(AC220/400V)

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SKR4-B & ASKQ8 Control Schematics-AC220/400V



Description

F1-F6 are ASKB1 miniature circuit breakers with a rated current of 10A.
F7, F8 are ASKB1 miniature circuit breakers with a rated current of 25A.
K1-K4 are AC contactors with a current rating not less than 20A.
Wiring for A1, A2, B1, B2 must be no less than 2.5 square millimeters.

Itemref	Quantity	Title/Name, designation, material, dimension etc		Article No. /Reference
Designed by Technique Dept.	Checked by	Approved by - date	File name ATSC	
AISIKAI	Secondary wiring Diagram	C	ATSC	
	AC220\AC400V	No.		