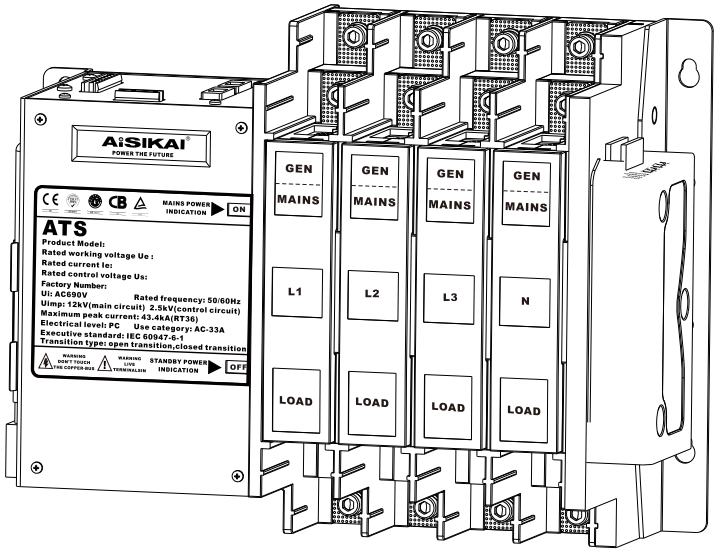
AISIKAI-ATSHB-26V1.0AC

AiSIKAI®
POWER THE FUTURE

ASKQ6 SERIES
AUTOMATIC TRANSFER SWITCH

Operation Manual 26V1.0



MANUFACTURER INFORMATION

JIANGSU AISIKAI ELECTRIC CO., LTD.

Tel:+86-514-83872777 83872888
Fax:+86-514-83872000
Customer Support Hotline: 400-828 8338
Website: aisikaigroup.com
Email:aisikai@aisikai.cc
Address: No.5 Chuangye Road, Chenji Town, Yizheng City, Jiangsu Province, China

Official WeChat

Manual Download

AUTOMATIC TRANSFER SWITCH

400 828 8338

Product Overview

The ASKQ6 series ATS carries on the family design DNA of the AISIKAI brand, featuring a refined appearance and robust construction. It extensively uses high-strength, high-standard materials such as stainless steel, carbon steel, and silicon steel, comprehensively enhancing structural strength and reliability. The product retains the iconic externally-actuated contact structure design, with independent upper and lower arc-quenching chambers that effectively isolate arcs, improving breaking safety. The entire series meets the AC-33A utilization category standard, making it suitable for complex load application scenarios.

It is mainly designed for Class I loads as stipulated by national regulations, and is widely applicable to critical power supply points in firefighting, post and telecommunications, hospitals, hotels, high-rise buildings, industrial production lines, and television stations. The main and standby power sources can be grid-to-grid, automatically started generator sets, battery banks, etc.

Model Selection

Company code	ATS form code	Design code		Rated operating current		Poles		Function code
ASK	Q	6	–	63A	/	4P	/	J
AISIKAI ELECTRIC	PC Class Solenoid Type			63, 80, 100, 125, 140, 150, 160, 200, 225, 250, 400, 630		2P: 2 Poles 3P: 3 Poles 4P: 4 Poles		J: Basic type (2-position) X: Fire-fighting type (3-position)

DESCRIPTION:

1, Function Difference:

J: basic type, there is no internal controller, the transfeming control signal is provided by the external controller installed by the customer himself, and the mechanical structure of the product is 2-position.

X: fire-fighting type, there is no internal controller, the transferring control signal is provided by the external controller installed by the customer; and the mechanical structure of the product is 3-position.

2, Mechanical Structure Difference:

2-position: only have 2 mechanical positions: Main and Standby, there is no safety ZERO(0) position.

3-position: have 3 mechanical positions: Main, Standby and safety ZERO(0) position, with higher safety level.

Normal Working Conditions And Installation Methods

Items	Requirements
Operating temperature	-20 to 40'C. The average value for 24 hours shall not exceed +35°C;
Operating humidity	The average humidity at +40°C shall not exceed 50%. Higher relative humidity is allowed at lower temperatures, for example, up to 90% at+25°C. Special measures should be taken for occasional condensation due to temperature changes;
Altitude	Lower than 2000 meters and, if higher than 2000 meters, please use at reduced ratings;
Vibration and gas	There shall be no strong vibration or shock and no harmful gases to corrode the metals and to damage the insulation within the environment of its use;
Surrounding material	There shall be no serious dust, conductive particles or explosive hazardous substances;
Pollution level	Level 3 according to GB/T14048.11
Class of installation	Class IV according to GB/T14048.11
Installation inclination	The product is fixedly installed in the cabinet, the maximum inclination is +22.5;
Arcing distance	AC 380V,arcing distance is 80mm; flashover 660v, arcing distance is 100mm.

Ⓒ AISIKAI ELECTRIC

Main Technical Parameters

ASKQ6 Dual Power Automatic Transfer Switch								
Frame	160		250		400		630	
Rated current **Ie(A)**	63、80、100、125、140、150、160		160、180、200、225、250		250、315、350、400		400、500、630	
Standards complied	IEC69047-6-1							
Rated frequency **(Hz)**	50/60		50/60		50/60		50/60	
Poles **(P)**	2	3,4	2	3,4	2	3,4	2	3,4
Rated operating voltage **Ue(v)AC**	230	400	230	400	230	400	230	400
Control voltage (V) AC	230		230		230		230	
Rated insulation voltage **Ui(v)AC**	1000 (main circuit); 500V (auxiliary circuit, control circuit)							
Rated impulse withstand voltage **Uimp(kV)**	8		8		8		8	
Rated conditional short-circuit current **Iq** (fuse protection) **(kA)**	100		100		120		120	
Rated conditional short-circuit current **Iq** (Circuit breaker protection) **(kA)**	50		50		65		65	
Rated short-time withstand current **Icw(kA/s)**	10kA/60ms				17kA/100ms			
Rated short-circuit making capacity **Icm(kA)**	17				34			
Category of use	AC-33A							
Mechanical life **(times)**	10000							
Electrical life **(times)**	6000							
Number of operating cycles **(times/h)**	120							
Contact switching time **(ms)**≤	70 (Type J) / 200 (Type X)							
Electrical class	PC							

Operation Mode

Operation Introduction: J Basic Type (two-position)

Manual operation:

1.Select main side closing:

Rotate the handle downward in the direction indicated by the arrow until it reaches the limit position.

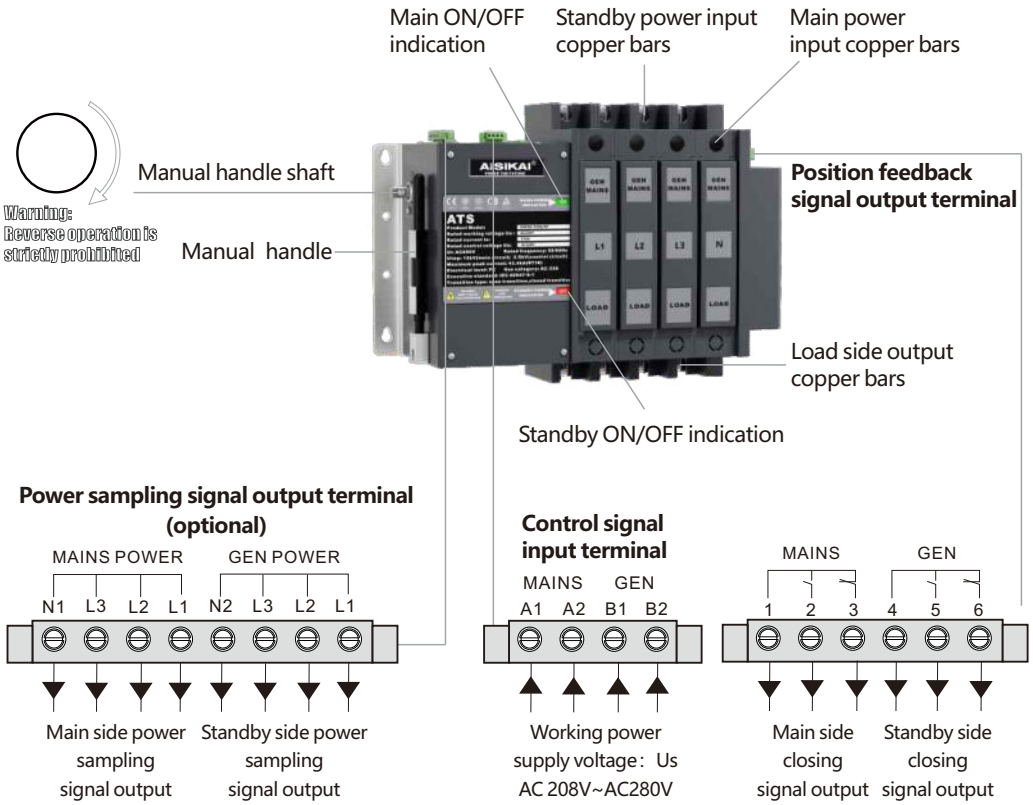
2.Select standby side closing:

When the main side is closed, pull the handle backward in the direction indicated by the arrow until it reaches the positioning position.

Electric operation:

Please carry out the corresponding control in accordance with the electrical control diagram.

Note: Manual operation is prohibited when the switch is under load. During manual operation, the external controller must be in the manual or disconnected state. Each rotation of the manual handle switches the closing position of the switch.



Warning:

It is strictly prohibited to input both the main circuit breaker closing signal and the generator closing signal simultaneously; otherwise, the switch circuit board will be damaged.

Operation Introduction: X Fire-fighting(three-position type)

Manual operation:

1.select Main Power Off:

Press the "ON" button to set the ATS to the 0 position. Use the handle and rotate it in the direction indicated by the arrow on the manual shaft operation direction, so that the main power is in the I position.

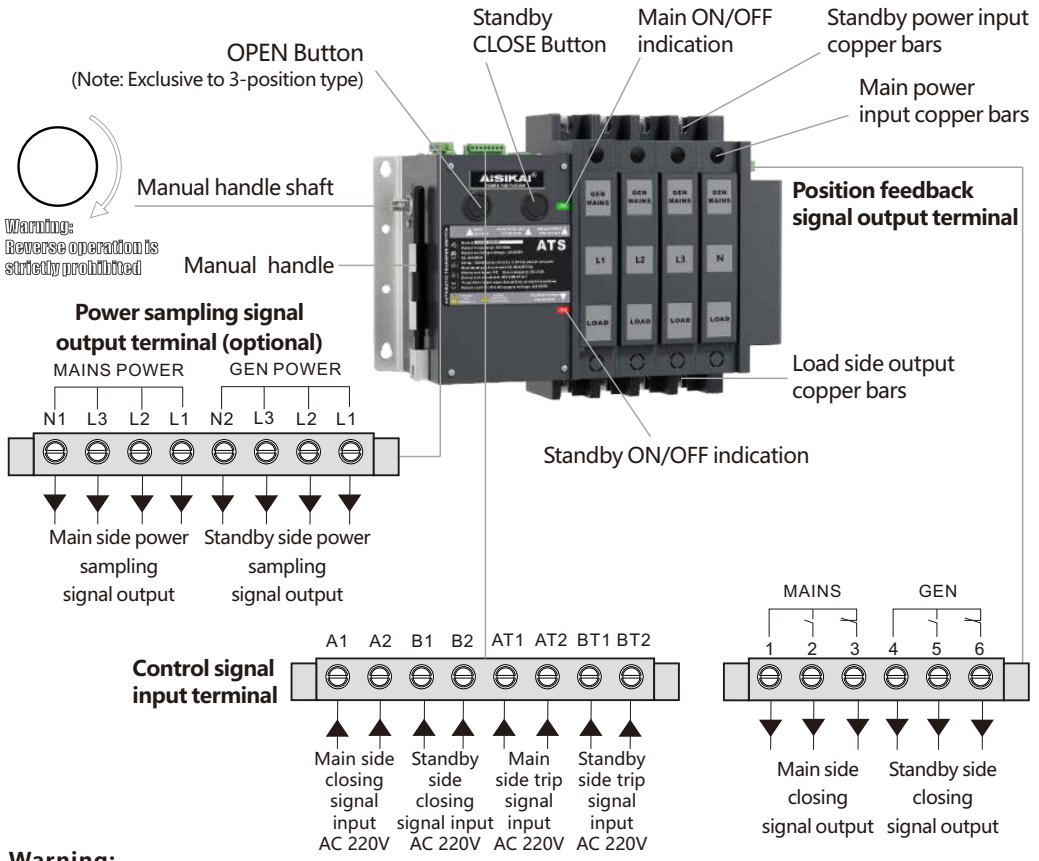
2.Select standby power off:

Press the "ON" button to set the ATS to the 0 position, then simultaneously press and hold the "Select I Position" button, and use the handle to rotate in the direction indicated by the arrow on the manual shaft operation, so as to place the standby power in the II position.

Electric operation:

Please carry out the corresponding control in accordance with the electrical control diagram.

Note: Manual operation is prohibited when the switch is under load. During manual operation, the external controller must be in the manual or disconnected state. Each rotation of the manual handle switches the closing position of the switch.

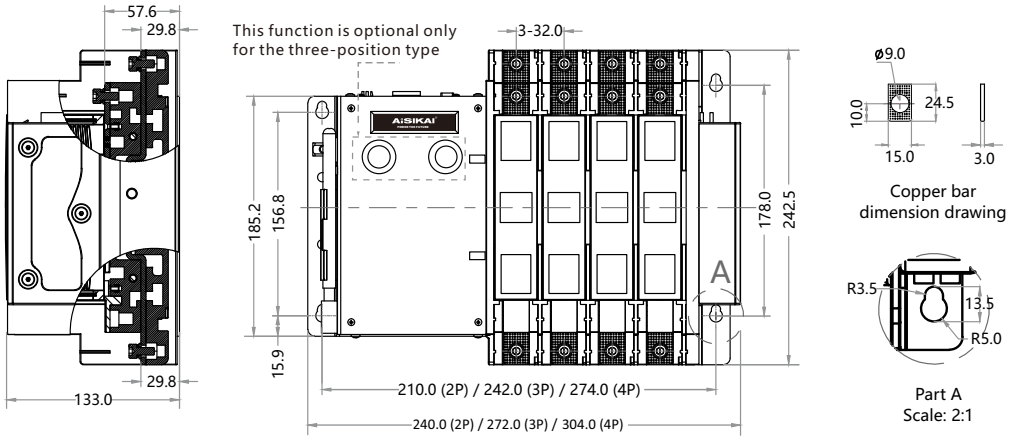


Warning:

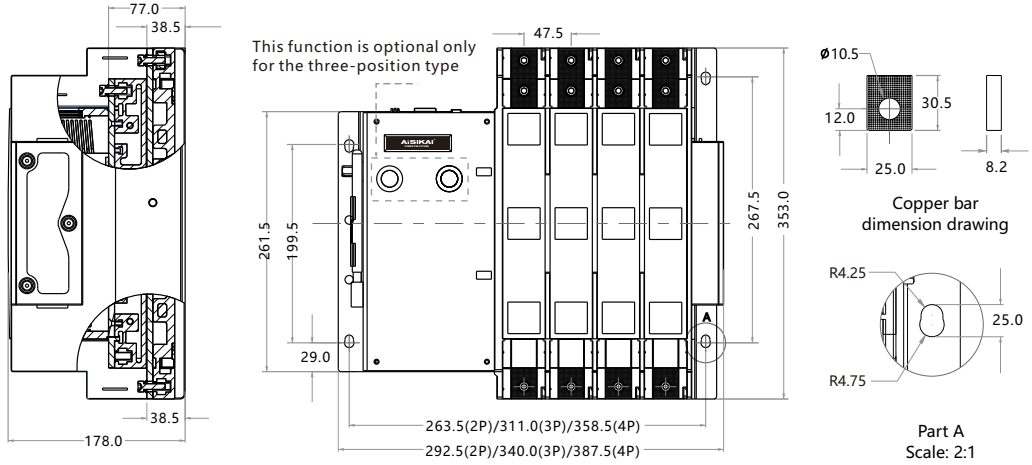
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Outiline And Installation Dimensions

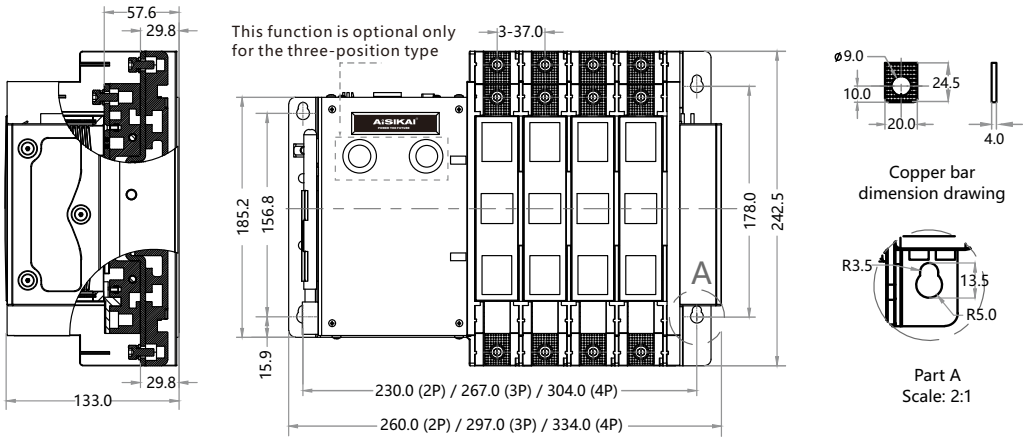
ASKQ6-160A-Type J (two- position) / Type X (three- position)



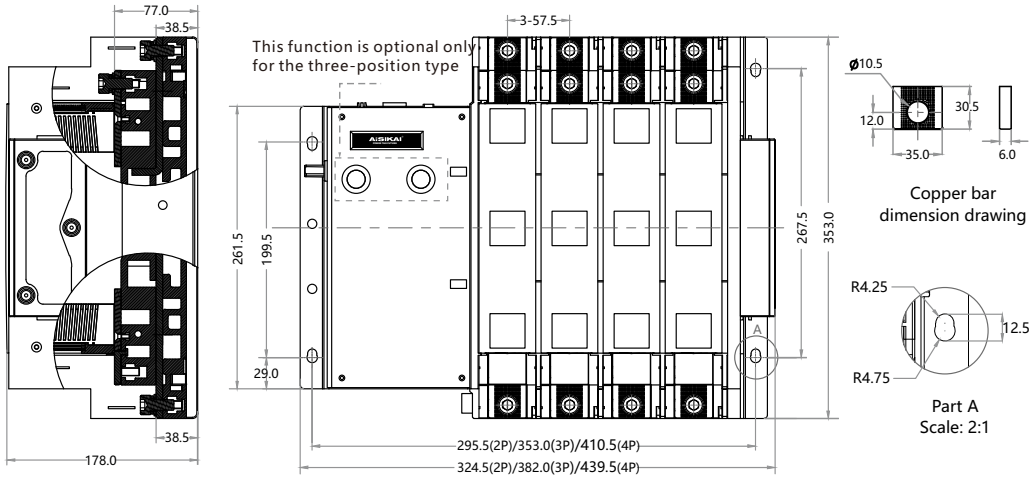
ASKQ6-400A-Type J (two- position) / Type X (three- position)



ASKQ6-250A-Type J (two- position) / Type X (three- position)

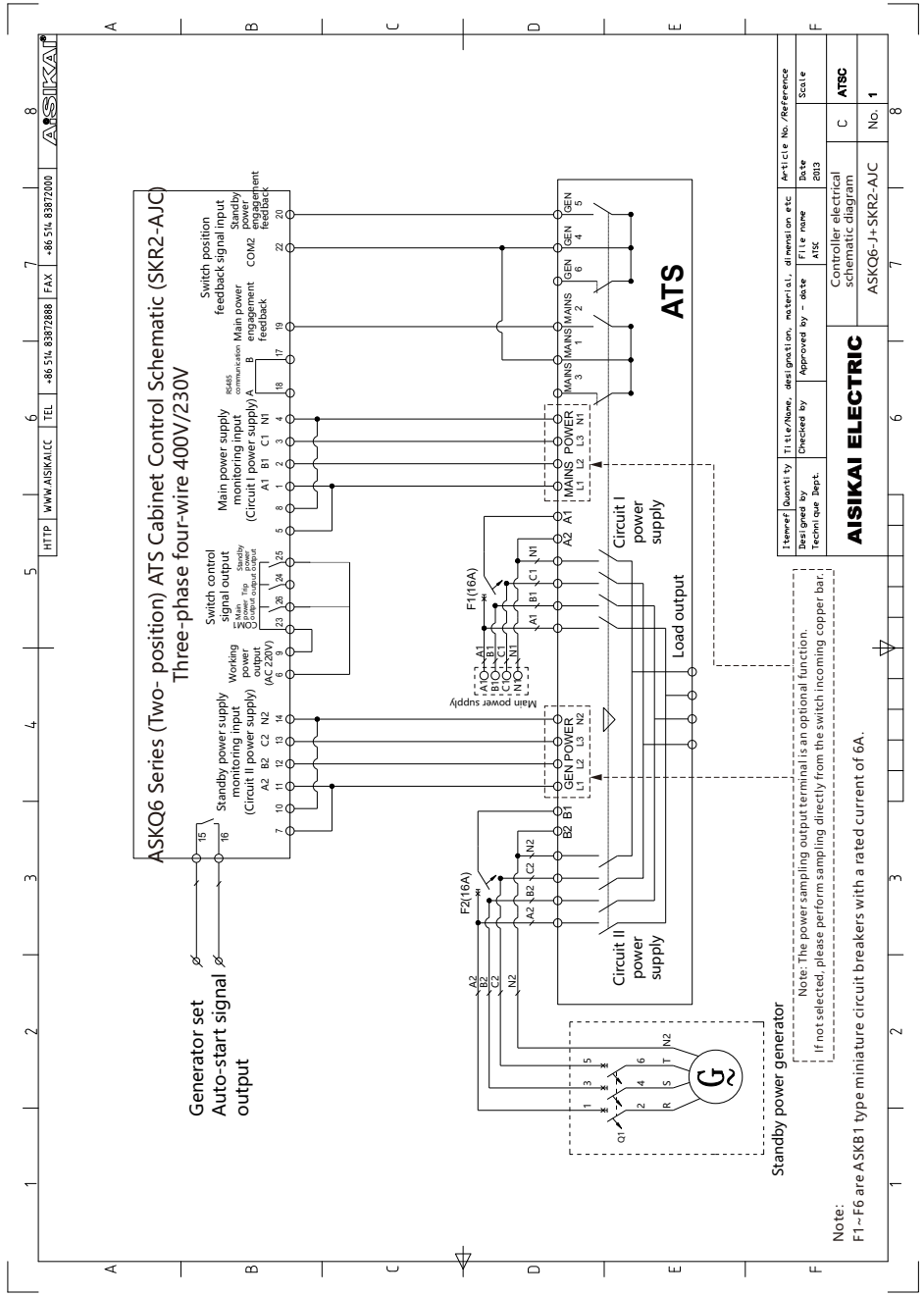


ASKQ6-630A-Type J (two- position) / Type X (three- position)

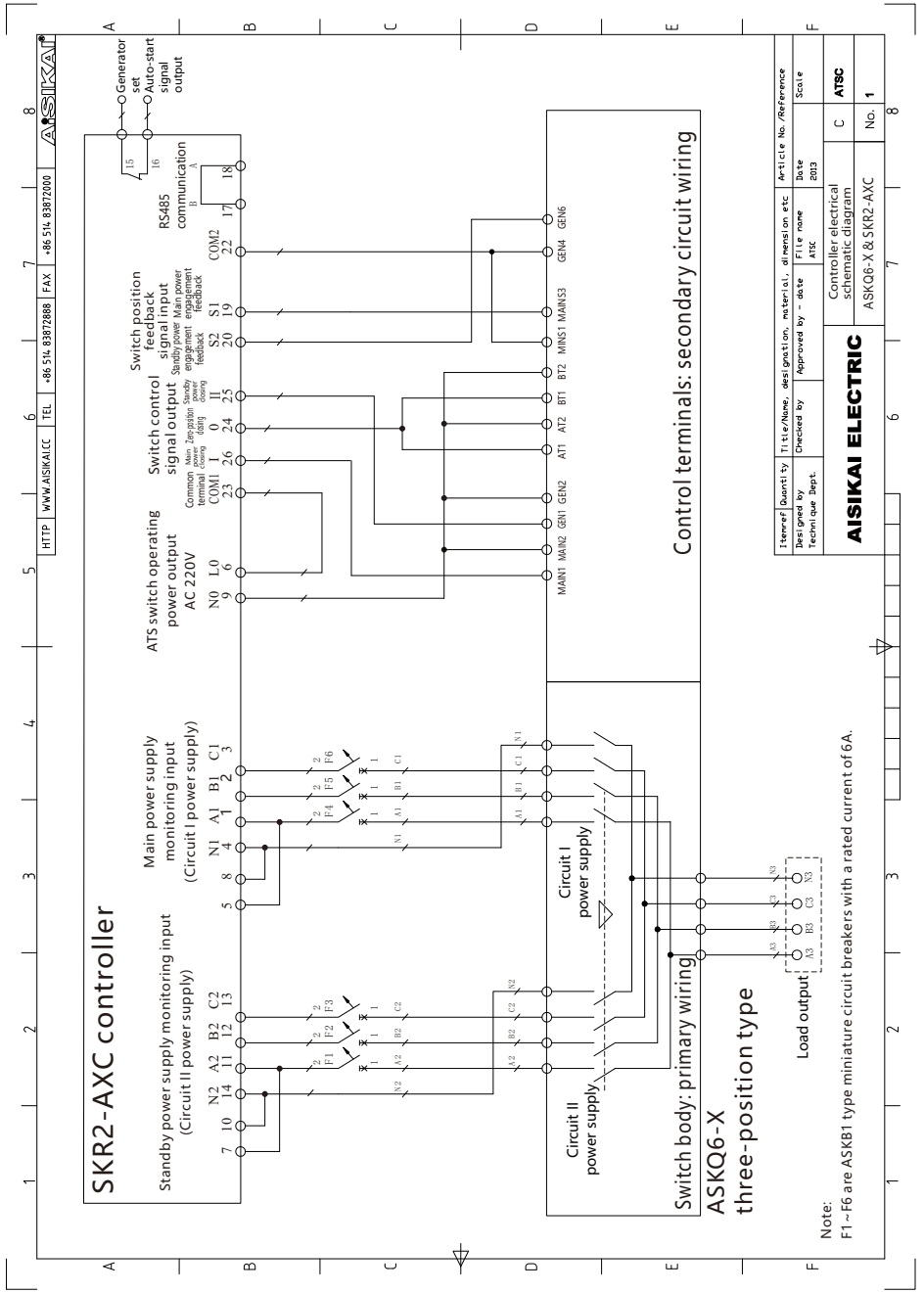


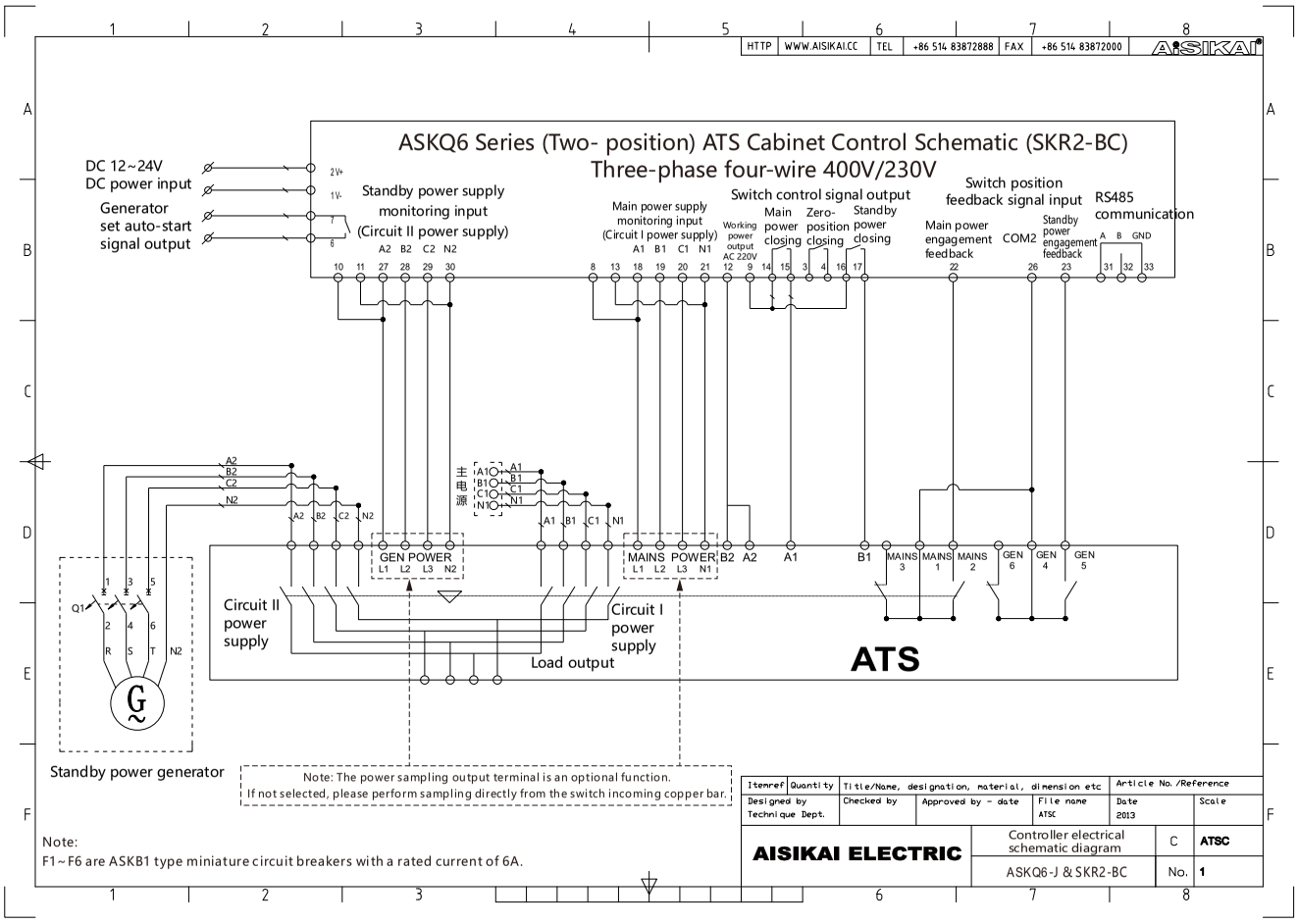
Electrical Schematic Diagram

ASKQ6-J basic type & SKR2-AJC (two- position) controller

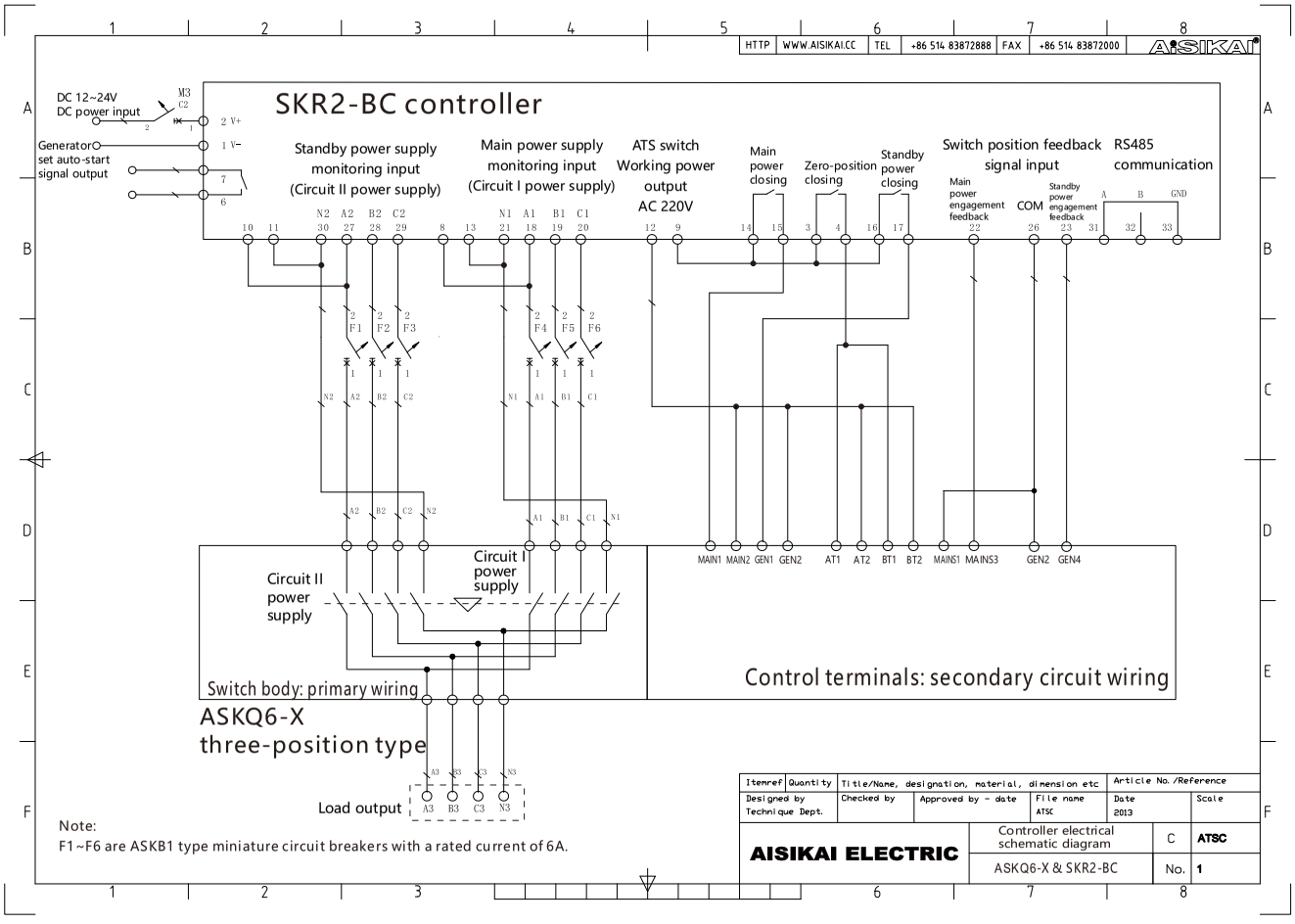


ASKQ6-X fire-fighting type & SKR2-AXC (three- position) controller





Note:
F1~F6 are ASKB1 type miniature circuit breakers with a rated current of 6A.



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F1~F6 are ASKB1 type miniature circuit breakers with a rated current of 6A.