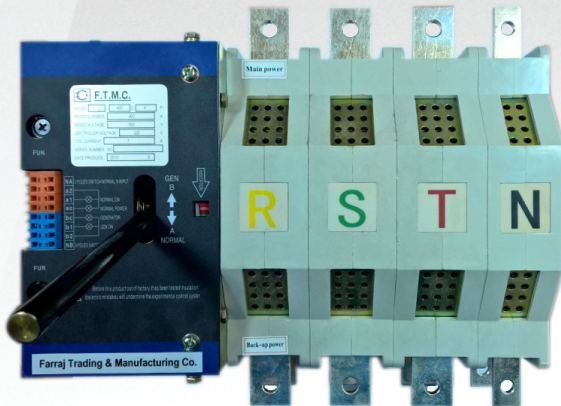


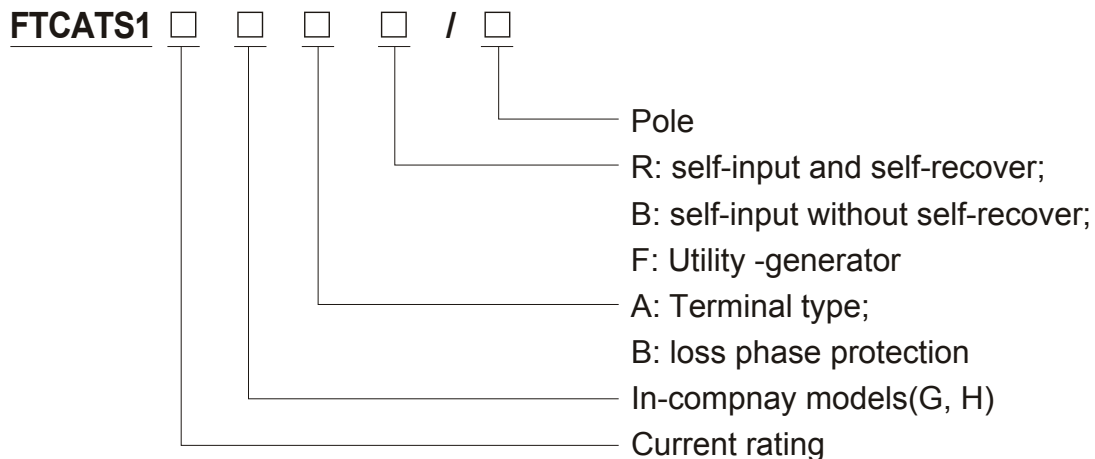


F.T.M.C.TYPE ATS (FTCATS1)

Intelligent Dual Power Source Automatic Transfer Switch



Type and implication



FTCATS1 automatic transfer switch (ATS) is set the switches and control logic integrated without additional controller, achieve integration of automatic electromechanical switch, voltage detection, frequency detection, communication interface, electrical, mechanical interlocking functions, automatic, electric remote emergency manual control. This is the logical control panel from various logical order to manage the machines, operate with the gearbox to achieve, switching spring motor storage, instantaneous release of the acceleration, rapid access to sub-circuit or circuits conversion, it is obvious by the state security confinement, greatly improved the performance of various electrical and mechanical properties.

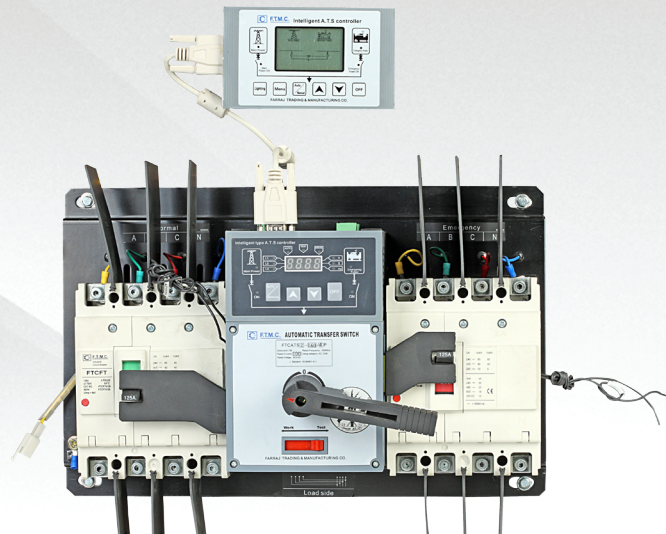
FTCATS1 switches overall design for the metal shell, compact solid.FTCATS1 switches, control of some of the mental shell , the shell sw itching components used fiberglass unsaturated polyester resin manufacturing, with a strong dielectric properties, protection and reliability of the operational safety.

Switch power supply system applicable to changeover the main power supply and backup power supply automatically or two sets load equipment and safety isolation automatically.

Switch appearance is beautiful, creative, simple, small size, the entire function is an ideal choice in different occasions.

F.T.M.C.TYPE ATS (FTCATS2)

Intelligent Dual Power Source Automatic Transfer Switch



Structure

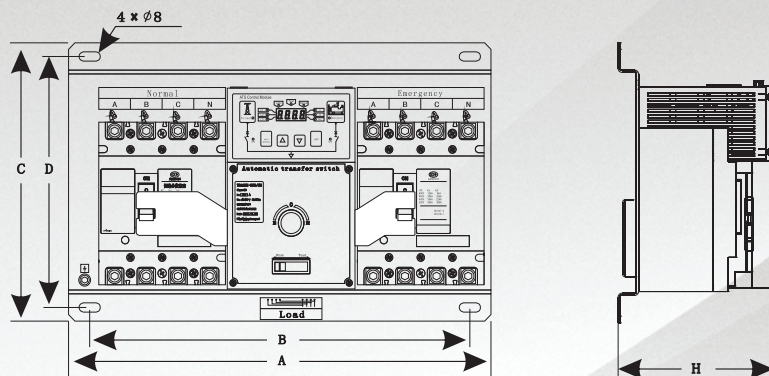
FTCATS2 series ATS consist of two pieces of high breaking capacity moulded case circuit breakers and inner parts, mechanical interlocks, motor operating driving unit and intelligent controller. It has the protection from short circuit, overloading, over voltage, and phase failure protection by means of transfer another power supply. then to ensure power supply continuously and securely, its performance:

- There provides mechanical interlocks between two breakers and singlechip used in intelligent electrical interlock to form dual protections.
- Protections against over voltage, absent voltage, supply transfer in case of phase failure Intelligent warning.
- Outer free setting of values
- Small volume, convenient installation and operation
- Energy saving, no noise during working.
- Fire protecting device provided, when the fire protection center send a message to auto-controller, both breakers will trip.
- Computer link port provided for remote control, remote adjustment, remote communication and transmission.

Normal working conditions

- Ambient temperature: upper limit not more than 40 degree, lowest not less than 10 degree, average a day not more than 35 degree;
- Altitude: where there not more than 2000m;
- Atmosphere conditions: relative humidity not more than 50% at ambient temperature 50 degree; at lower temperature higher humidity allowed.

Intelligent Dual Power Source Automatic Transfer Switch



FTCATS Series

Rating	Ref.No.	3 Pole	Ref.No.	4 Pole
20	F101662	FTCATSF3020	F101484	FTCATSF4020
32	F101663	FTCATSF3032	F101485	FTCATSF4032
40	F101664	FTCATSF3040	F101486	FTCATSF4040
50	F101665	FTCATSF3050	F101495	FTCATSF4050
63	F101666	FTCATSF3063	F101431	FTCATSF4063
80	F103363	FTCATSF3080	F103379	FTCATSF4080
100	F103364	FTCATSF3100	F103380	FTCATSF4100
125	F103365	FTCATSF3125	F103381	FTCATSF4125
160	F103366	FTCATSF3160	F103382	FTCATSF4160
160	F103367	FTCATSJ3160	F103383	FTCATSJ4160
200	F103368	FTCATSJ3200	F103384	FTCATSJ4200
250	F103369	FTCATSJ3250	F103385	FTCATSJ4250
250	F103370	FTCATSK3250	F103386	FTCATSK4250
315	F103371	FTCATSK3315	F103387	FTCATSK4315
400	F103372	FTCATSK3400	F103388	FTCATSK4400
400	F103373	FTCATSL3400	F103389	FTCATSL4400
500	F103374	FTCATSL3500	F103390	FTCATSL4500
630	F103375	FTCATSL3630	F103391	FTCATSL4630
630	F103376	FTCATSN3630	F103392	FTCATSN4630
700	F103377	FTCATSN3700	F103393	FTCATSN4700
800	F103378	FTCATSN3800	F103394	FTCATSN4800

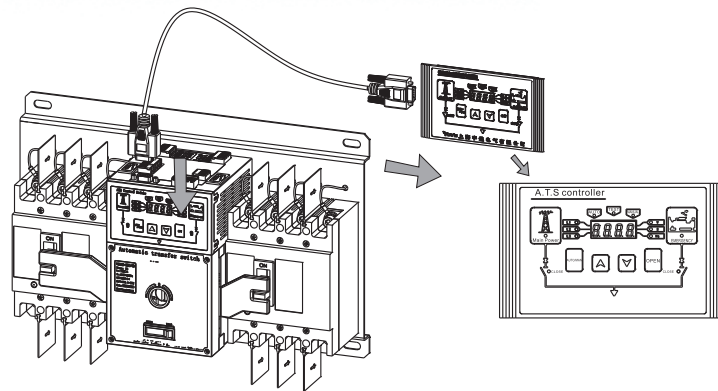
Products Dimension Table

Dimension Rating	A		B		C	D	H
	3P	4P	3P	4P			
20-160A	335	395	295	355	255	230	141
160-250A	365	435	325	395	255	230	155
250-400A	491	587	431	527	330	300	215
400-630A	524	640	464	580	330	300	215
630-800A	580	720	520	660	340	310	215

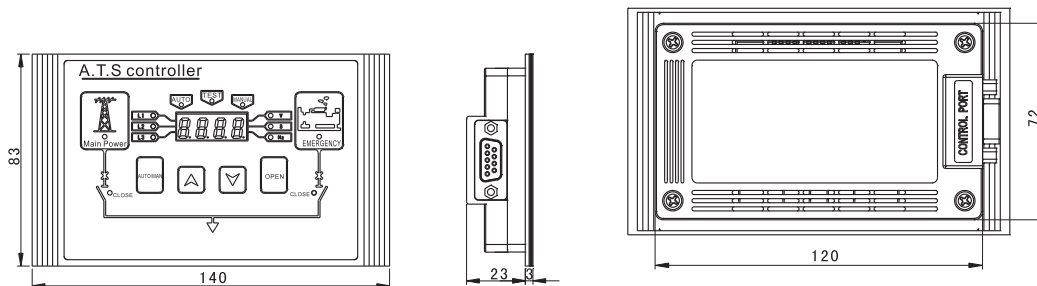
Intelligent Dual Power Source Automatic Transfer Switch

FTC-C type controller

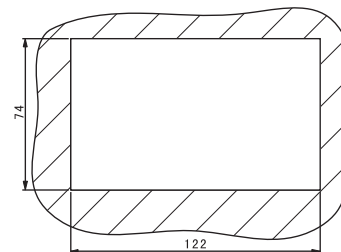
FTC-C-controller is a digital display of sub-controller, it can be installed in the control cabinet panel through a 2m-long serial data line and B-type controller to connect, connect, after switching on the body The B-type controller for all operations and functions are displayed in a stop on state (that is, the body switches off the display automatically) external controller begin to work, the user can not open the doors of the control cabinet through an external controller The interface can be observed in the state of ATS and switch on the control of the operation. Split controller with the operation of the switch body is identical to the B-type controller.



FTC - C controller outline dimension



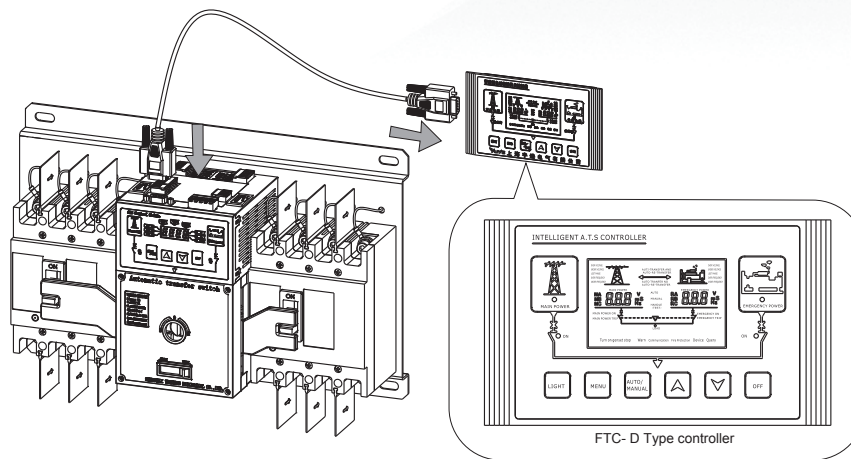
FTC - C controller open hole dimension



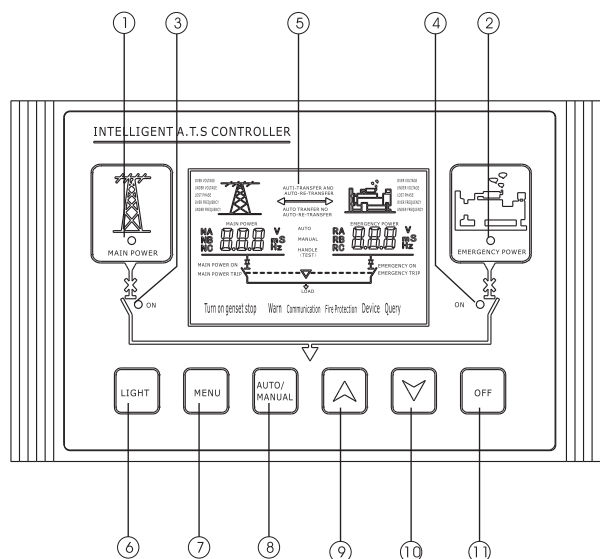
Intelligent Dual Power Source Automatic Transfer Switch

FTC-D type controller

FTC-D-controller is a LCD display of sub-controller, it can be installed in the control cabinet panel through a 2m-long serial data line: and B-type controller 1D connect, connect, after switching on the body The B-type controller for all operations and functions are displayed in a stop on state (that is, the body switches off the display automatically) external controller begin to work, the user can not open the doors of the control cabinet through an external controller The interface can be observed in the state of ATS and switch on the control of the operation. Split controller with the operation of the switch body is identical to the B-type controller.



Display and Button Function

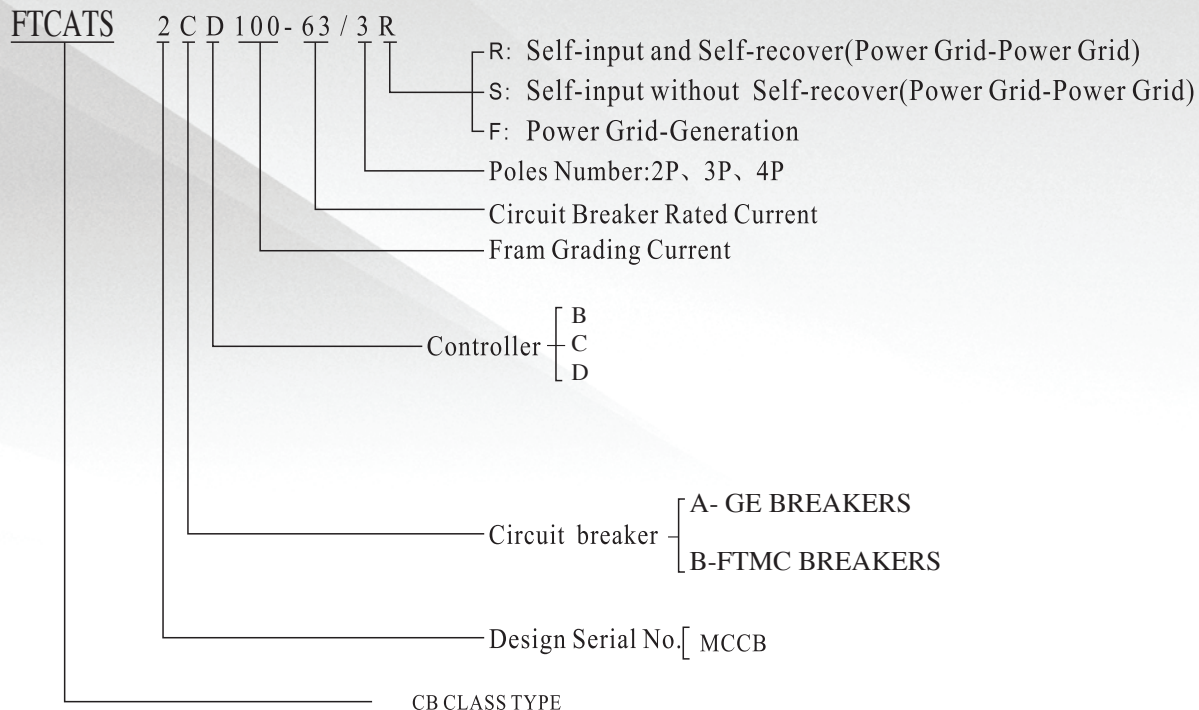


Control Panel Sketch Map

- 1: Normal power supply commonly used instructions, when used with the power supply voltage in the controller set voltage range is light.
- 2: Normal power supply back-up instructions, with the backup power supply voltage in the controller set voltage range is light.
- 3: commonly used instructions into power, the power used closed circuit breaker when lights.
- 4: back-up power supply input instructions, back-up power supply circuit breaker when the lights closed.
- 5: liquid crystal display window that shows the Chinese controller parameters and status.
- 6: normal use - manual work under way at OFF gateway; Set mode - used to determine the preservation and modify parameters. (As same use as FTC-B-type controller)
- 7: normal use of - work Manually switching to the standby power button; Set mode - Scroll down to the menu button and the reduction parameters. (As same use as FTC-B-type controller)
- 8: normal use - manual work under way to the common power switching button; Set the pattern - for rolling up the menu and the increase in the key parameters. (As same use as FTC-B-type controller)
- 9: normal use - automatic, manual mode conversion button; Set mode - to enter and exit the menu button. (As same use as FTC-B-type controller)
- 10: Menu button, can be "normal display - Query menu - the parameters set menu" Select the cycle.
- 11: key lighting, open or close the LCD backlight and adjust the brightness of the lighting used.

Intelligent Dual Power Source Automatic Transfer Switch

Products Model and Meaning



Controller characters and functions

Automatic transfer switch according to the state of voltage source and set up by the user's working methods, decide whether from a power to another power source. It depends on the function of their configuration controller, including B, C, D four models of the controller, the main functions and characteristics as shown in the table :

Controller	B type controller	C type controller	D type controller
Working Power	AC160-250V 50/60Hz		DC3V (supply by B controller interior)
Installation Type	Integral type		Fission type controller panel
Working Place	Two locations	Three locations	
Operate Type	Auto and Manual	Auto 、 Manual and Remove operation	
Voltage Detection Function	Three-phase Undervoltage Loss phase Detection	Three-phase Overvoltage、 Undervoltage、 Loss phase Detection	
Frequent Detection Function	No	Over frequent and less frequent testing	
Generator Controller	No	A group of 10A relays contact	
Fire Linkage Controller	No	Passive contact input ,with a group normal passive signal feedback contact	
Changeover Type	Self-input and Self-recover	Set Self-input and Self-recover、 Self-input without Self-recover、 Power-Generator models	
Display Function	Indication show state	Digital control and power indicator light shows parameters and switch state	Chinese LCD display status
Changeover Delay Time Function	0.5s	0.5-60s continuous adjustment	
Return Delay Time Function	0.5s	0.5-60s continuous adjustment	