

8. Operation

Whatever there have power or not, normal power supply or reserved power supply can be manually operated. When manual operating, manual-auto button should be placed on manual, when you push the handle clockwise to the end, circuit breaker K1 normal power supply switch closing, and reserved power supplies implement circuit breaker K2 opening. When pushing the handle counter clockwise to the terminal, normal power circuit breaker K1 opening, and reserved power supplies circuit breaker K2 closing. On control panel displays, if the normal power indicator (UN) or the reserved power indicator (UR) do not light on, means that automatic controller power supply is faulty, cannot work normally. Only can be used again after repaired. Put manual-auto button on auto position, if normal power stabilized, switch will automatically change into normal power circuit breaker device QN closing state, the normal closing indicator(UNON) on the Panel will light on; when normal power exception, the switch changes to reserved power circuit breaker device QR closing state, the reserved closing indicator (URON) on the Panel will light on.

9. Normal Fault Phenomenon and Clearing

When the switch does not convert properly, please check the problem as following form. If the problem go on, please contact our us or our local agent.

| Fault Phenomenon                                         | Fault checking                                           | Fault clearing                           |
|----------------------------------------------------------|----------------------------------------------------------|------------------------------------------|
| The indicator of the controller not lighting             | Wether the power sampling line is tripping               | Connect the corresponding Line correctly |
|                                                          | Whether 3 pole switch, the neutral line is not connected |                                          |
| The controller works but can't switch automatically      | Whether the switch on position AUTO or not               | Put the switch on auto position          |
| Input power OK Switch closing but load terminal no power | Tripping or not                                          | Close after the fault clearing           |

10. Warranty and After-sale Service

This product is manufactured under perfect quality management system, please check and maintain the MCB and motor-operated mechanism periodically as required. Do not use the product ,also please pay attention to moistureproof and dustproof if don't use it for a long time and adjust the switch before use it. Warranty: in compliance with the custody and using conditions, this product has " three guarantees " ( for repair replacement or compensation of faulty products ) in 12 months( not more than 18 months.) And during this period, users must check and maintain the products according to our guide. And we promise a free replacement if the switch is well packed but can't work.

If the fault resulted from the followings, we supply paid service.

- 1.Wrong using, refitting or wrong repairing
- 2.Exceeding standard specifications used
- 3.Damaged by falling down or installing
- 4.Earthquakes, fires, lightning, abnormal voltage, other natural disasters and secondary disasters etc.

11. Packing List

| No | Item | Name          | Unit  | Quantity | Mark                      |
|----|------|---------------|-------|----------|---------------------------|
| 1  |      | Product       | Piece | 1        |                           |
| 2  |      | Manual        | Piece | 1        |                           |
| 3  |      | Qualification | Piece | 1        |                           |
| 4  |      | 3 P Terminal  | Piece | 2        | Detachable on the product |

※Due to the changes of standards and materials, the features described in this manual and the information of the image is for reference only. All is according to the actual products, and our company reserves the right of final interpretation.

Thank you for using our products, sincerely wish this product can bring benefit and convenience to your work and life. Welcome to give us your valuable suggestions and advice during using our products, we will continue to provide you with an enthusiastic and thoughtful after-sales service. If you have any questions please contact us directly. This manual is for informational purposes only. If any product or version upgrade to change without prior notice. Everything is according to the products received. Thank you for your cooperation and support.

GATS-W8 | Dual Power Automatic Transfer Switch User manual

Please pay attention to the personal security, and read the manual carefully before using it.



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⚠ Danger Warning

Installation, commissioning and maintenance of this device can only be done by professionals. Do operate according to this manual, or the manufacturer will not assume any liability for any losses caused by. A) This appliance must be installed, commissioned and maintained only by professionals. B) Please cut off the two main power supply of the appliance before installing, commissioning and maintaining (active fire control signal may cause an electric shock, make sure to disconnect!!) C) Please use the voltmeter to test to make sure that the power supply has been disconnected before maintaining. D) Equipment must be reliably grounded. E) Please keep the appliance doors before power on. F) Wrong operation may result in electric shock, fire or explosion!

1. Overview

Control Device: Built-in controllers;  
Product Structure: Small Size, High current, Simple Structure, ATS Integration;  
Features: Fast Switching and Low Failure Rate, Easy Maintenance and Reliable Performance;  
Connection Mode: Front Terminals;  
Conversion Mode: Power to Grids, Power to Generators, Automatic Switch Resettable;  
Shell: 63;  
Current: 10, 16, 20, 25, 32, 40, 50 and 63A;  
Product Category: Circuit Breaker;  
Product Number: 2-pole, 3-pole and 4-pole;  
Standard: GB/T14048.11;  
ATSE: CB Level, with overload and short circuit protection;

2. Working Conditions

The ambient air temperature  
Ambient temperature: -15℃ to +60℃, and the 24-hour average temperature no more than +35℃.

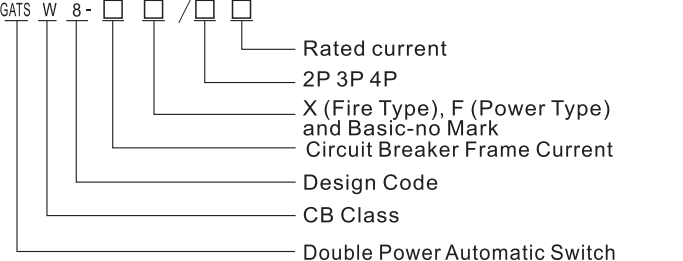
Atmospheric humidity  
Month maximum relative humidity 90%, able to withstand sea effects of moist air at lower temperatures  
To allow a higher relative humidity and condensation temperature variation occasionally produced special measures should be taken.

Installation height: Installation sites does not exceed 2000 meters above sea level

The contamination level: Installation site's pollution rating of 3.

Installation level: Installation category IV class.

3. Model and Explanation



4. Application

GATS-W8 Dual Power Automatic Transfer Switch (A.T.S for short) applies to the terminal double-loop power supply system that 50Hz/60Hz, rated operating voltage 220V (2 p), 380V (3 p and 4 p), rated current 10 ~ 63A. It can automatically switch the normal power to reserved power to prove the reliability of power supply, mainly used for fire pumps, smoke fans, elevators, pumps, lighting in high-rise buildings, shopping malls and other places. This product conforms to the GB/T 14048.1-1 standard.

5. Basic Structure

Our double power automatic transfer switch includes power conversion circuit breakers (one piece each of K1 normal power implementation circuit breaker and K2 reserved power implementation circuit breaker), control box, electric devices and other components. Circuit breaker K1 and K2 both have the over-current protection and circuit breaker protection function, can be used for switching and protecting the main circuit at the same time.

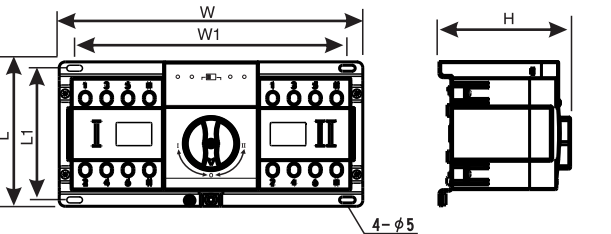
6. Features Overview

Automatic Principles:  
1. When power is stabilized, (180~240V) this switch automatically connected the device to the normal power.  
2. When power is not stabilized (no power or losing phase), the switch immediately cut off the power and then connect to the reserved power.

Manual Principles:

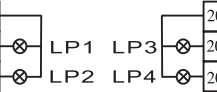
Press the manual control button, you can manually cut off the mains supply circuit, connected to power lines and electricity lines. Also it can be manually switched on the mains lines and power lines. Also it can cut off the normal power and reversed power(generating from the generator) to cut both power supply to maintain the electricity lines with no load.

7. Outline, Dimensions and Wiring Diagram



Wiring Instructions:

- 1, 101:3-pole normal power zero line terminal and the external indicating zero line
- 2, LP1: The normal power indicator
- 3, LP2: The normal power closing indicator
- 4, LP3: The reserved power indicator
- 5, LP4: Reserved power closing indicator
- 6, 201:3-pole reversed power zero line terminal and the external indicating zero line



| Model         | W   | W1  | L   | L1  | H   |
|---------------|-----|-----|-----|-----|-----|
| GATS-W8-63/2P | 186 | 158 | 125 | 114 | 111 |
| GATS-W8-63/3P | 222 | 194 | 125 | 114 | 111 |
| GATS-W8-63/4P | 258 | 230 | 125 | 114 | 111 |