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CHusul-Electric

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→ **Air Circuit Breaker**

CHENGSHUO ELECTRIC CO.,LTD

CHusul-Electric

Company Profile



Chengshuo CHusul Electric Co., Ltd., established in 2015, is located in Yueqing City of Zhejiang Province, Electric Capital of China, we are a high-tech enterprise specializing in research and development, production, sales and services of intelligent low-voltage electrical appliances. There are more than 100 employees, of which 30% are R&D and technical talents. We have got over fifty invention patents, utility model patents, appearance patents, and dozens of industrial new product certificates.

Our main products include AC/DC Air Circuit Breakers, AC/DC Moulded Case Circuit Breakers, Electronic type Moulded Case Circuit Breakers, Earth Leakage Circuit Breakers, Auto Reclosing Circuit Breakers, AC/DC Miniature Circuit Breakers, Automatic Transfer Switches, Isolating Switches, Surge Protective Devices, etc., all the products have obtained national certified CQC certificates, and some of them have obtained CE, TUV certificates and CB test reports.

After several years of research and development, we have launched CSM5HUs series high voltage Moulded Case Circuit Breaker, CSMD5DC series DC Moulded Case Circuit Breaker, rated current from 63A to 800A, CS7 series AC molded case circuit breaker rated current from 10A to 1000A, the performance and parameters have reached the advanced level in China, CSW3 series high voltage Air Circuit Breaker, rating from 200A to 7500A, they have been used in many major projects, receiving high praise from users.

Through continuous technological innovation, we have accumulated a lot of experience in research and development, production and services in the field of new energy, we have continuously increased investment in research and development, to improve the performance, reliability and environmental adaptability of products, now becoming a high-quality supplier in the field of new energy.



Honor & Certification



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3200A/3P Fixed type



3200A/3P Drawer type

Application

CSW1 series Air Circuit Breaker (hereinafter referred to as circuit breaker) is suitable for AC 50Hz, rated operating voltage AC400 to 690V, rated current 200A to 6300A distribution network, mainly used for distribution, feed and power generation overload, undervoltage, overvoltage, current and voltage imbalance, short circuit and ground faults. Through load monitoring, regional interlocking and other functions to realize the rational operation of the power grid. At the same time, it can also be used to measure the current, voltage, power, frequency, electric energy, demand, harmonics and other network parameters of the power grid node. Circuit breakers can also be used directly for overload, undervoltage and short circuit protection of motors and generators.

The circuit breaker core components adopt intelligent controller, with precise selective protection, can avoid unnecessary power outage, improve the reliability, continuity and safety of power supply. There are a variety of communication options to achieve the "fourremote" function to meet the requirements of the control center and automation system.

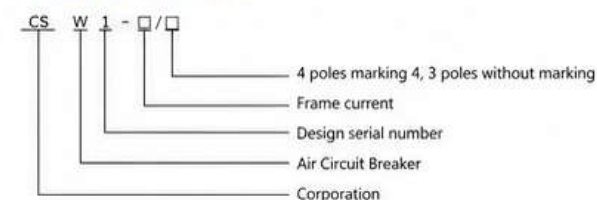
The series circuit breaker can be used as an isolation switch without intelligent controller and transformer. The circuit breaker has the isolation function. Symbol: 

This series of circuit breakers is suitable for power stations, factories, intelligent buildings and other low-voltage distribution fields, and can also be used as an infrequent start of the motor.

This series of circuit breakers has passed the China Quality Certification Center authority "CCC" certification.

Comply with standards: IEC/EN60947-2

Model and Meaning



Circuit breakers meet the following standards

Low voltage switchgear and control equipment - Part 1: General (IEC 60947-1,MOD).

Low voltage switchgear and control equipment - Part 2: Circuit breakers (IEC 60947-2,IDT).

Low voltage switchgear and control equipment - Part 5-1: Control circuit appliances and switching elements - Electromechanical control circuit appliances.

GB/T 2423.4 Environmental tests for electrical and electronic products - Part 2: Test methods - Test Db: Alternating humidity and heat.

GB/T 14092.3 Mechanical products Environmental conditions: high altitude.

GB/T 19608.3 Classification of special environmental conditions - Part 3: Plateau.

GB/T 20845 Special environmental conditions Low voltage electrical appliances for high altitude technical requirements.

GB/T 20826.3 Special environmental conditions Plateau electrical and electronic products - Part 3: Protection requirements for lightning, pollution and condensation.

■ Circuit breaker structure

Serial number: Function name

- 1 Reset button for fault trip indication
- 2 Opening position lock
- 3 Switching-OFF button
- 4 Switching-ON button
- 5 Intelligent control unit
- 6 Position indication of main contact position of the main contact of the circuit breaker
- I: Switching-ON; O: Switching-OFF
- 7 Indicates that the circuit breaker can be closed
- 8 Circuit breaker energy storage/release indicator
- 9 Manual energy storage handle
- 10 Circuit breaker technical specifications



- 11 Crank handle and storage hole (drawer type only)
- 12 Drawer type "detach" position security padlock
- 13 Circuit breaker Disconnected, Test, Connected position indicator
- 14 Crank handle hole
- 15 Three-position lock reset button
- 16 slider (Drawer type only)
- 17 Secondary wiring terminal(Fixed)



- 18 Secondary wiring terminal (Moving)
- 19 shunt release
- 20 Closing electromagnet
- 21 Auxiliary Contacts
- 22 Motor Mechanism
- 23 Manual energy storage handle
- 24 Operating mechanism



■ Main technical parameters

Model	CSW1-1000/1600	CSW1-2000	CSW1-3200	CSW1-4000/6300
Frame current Inm(A)	1600	2000	3200	6300
Rated current In (A)	200, 400, 630, 800, 1000, 1250, 1600	630, 800, 1000, 1250, 1600, 2000	2000, 2500, 2900, 3200	4000/4000, 5000, 6300
Rated current of neutral pole In (A)	100%In	100%In	100%In	50%In
Rated operating voltage Ue (V)	AC400/690			
Frequency	50/60Hz			
Number of poles	3P/4P			
Rated impulse withstand voltage Uimp (kV)	AC12			
Rated insulation voltage Ui (V)	AC1000			
Power frequency withstand voltage (V)	AC3500			
Rated ultimate short-circuit breaking capacity Icu(kA)	AC400V	65	100	100
	AC690V	50	65	65
Rated Service Short-circuit Breaking Capacity Ics(kA)	AC400V	55	65	85
	AC690V	42	65	85
Rated short-time withstand current Icw1s (kA)	AC400V	55	65	85
	AC690V	42	65	65
Rated Short-circuit Making Capacity Icm (kA)	AC400V	143	220	220
	AC690V	110	143	143
Selective use category	B			
Breaking time	≤30ms			
Closing time	≤60ms			
Electrical (time)	400V	10000	10000	6000
	690V	6000	6000	3500
Mechanical life (time)	≤2500 time/3min	15000	15000	12500
	>2500 time/6min	30000	30000	25000
Drawer base mechanical life (time)	1time/2min	1000	1000	600
	1time/2min	1000	1000	300
Incoming mode	Up or down line			
Arcing distance (mm)	0			
Installation mode	Fixed or drawer type			
Connection mode	Horizontal	Horizontal ,Vertical	Horizontal	

■ Intelligent controller basic function and co-option function

IC5.0(M)



Digital display type

Basic function

- Overload long delay, short delay, short circuit instantaneous protection
- Functional test
- Fault memory
- Thermal memory
- Self-diagnosis
- Current measurement
- Fault status indication and numerical display
- Ground fault protection

Co-option function

- ☐ Signal contact output
- ☐ MCR and off-limit trip
- ☐ Load monitoring
- ☐ Voltage Measurement

IC7.0(3M)
IC8.0(3H)

Liquid crystal display type

Basic function

- Overload long delay, short delay, short circuit instantaneous
- Functional test
- Fault memory
- Thermal memory
- Self-diagnosis
- Current measurement
- Fault status indication and numerical display
- Communication function (3H)
- Contact wear indicator (3H)
- Number of operations recorded (3H)
- Ground fault protection

Co-option function

- ☐ Port current imbalance protection
- ☐ Port signal contact output
- ☐ Port load monitoring
- ☐ Port MCR and off-limit trip
- ☐ Mouth power measurement
- ☐ Oral power factor measurement
- ☐ Oral energy measurement
- ☐ Oral area interlock
- ☐ Oral harmonic measurement
- ☐ Port voltage protection
- ☐ Port voltage measurement

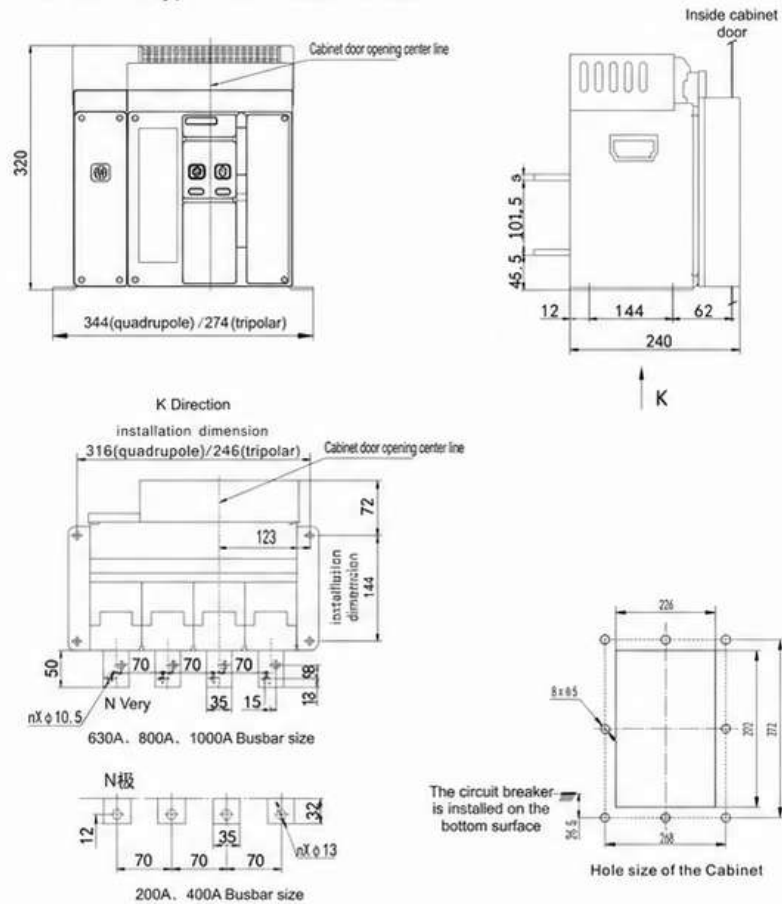
■ Intelligent controller function list

Controller type	IC5.0(M)	IC7.0(3M)	IC8.0(3H)
Overload long delay protection	■	■	■
Short circuit delay protection	■	■	■
Short circuit instantaneous protection	■	■	■
Earth fault protection	■	■	■
Current imbalance protection	—	☐	☐
Functional test	■	■	■
Fault memory	■	■	■
Signal contact output	☐	☐	■
Hot memory	■	■	■
Self-diagnosis	■	■	■
MCU operation instruction	—	—	—
Current column display	—	—	—
Current measurement	■	■	■
MCR and limit tripping	☐	☐	☐
Load monitoring	☐	☐	☐
Fault status indication and numerical display	■	■	■
Voltage measurement	☐	☐	■
Power factor measurement	—	☐	■
Power measurement	—	☐	☐
Electrical energy measurement	—	☐	☐
Communication function	—	—	■
Contact wear indication	—	☐	■
Zone interlocking	—	☐	☐
Harmonic measurement	—	☐	☐
Voltage protection	—	☐	☐
Operation count	—	☐	■

Description: ■ Indicates the basic function; "□" Indicates optional function; — Indicates that this function is not available.

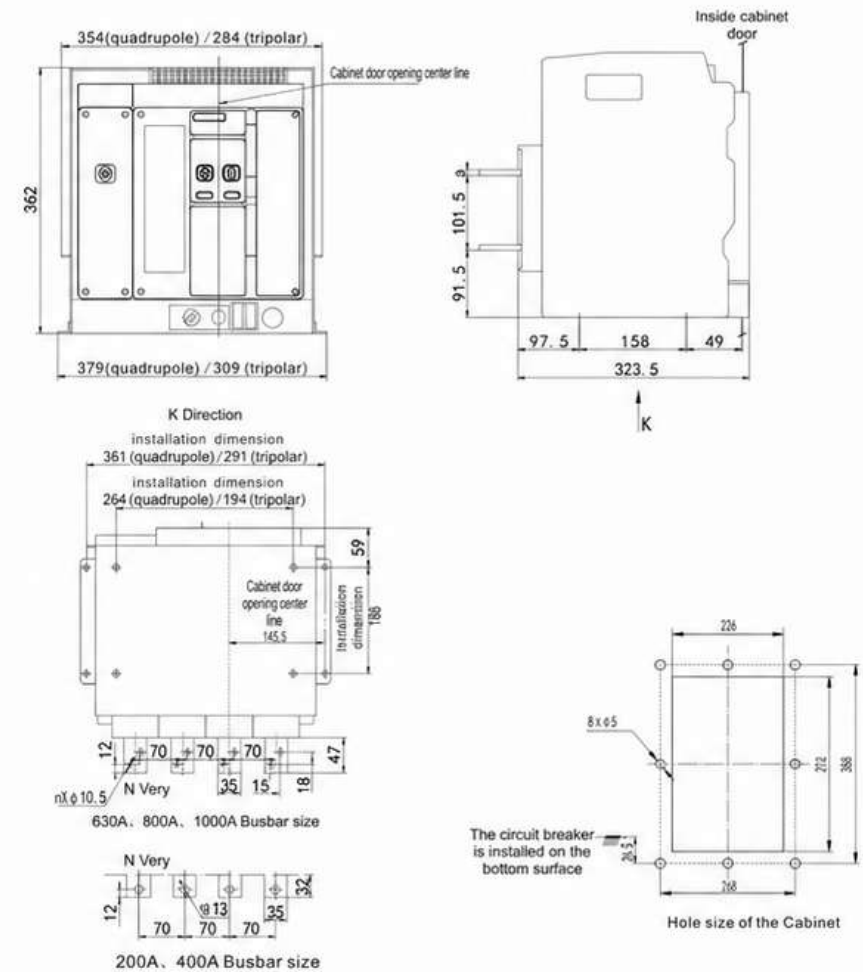
■ Circuit breaker appearance and installation dimensions

◆ CSW1-1000 Fixed type installation dimensions



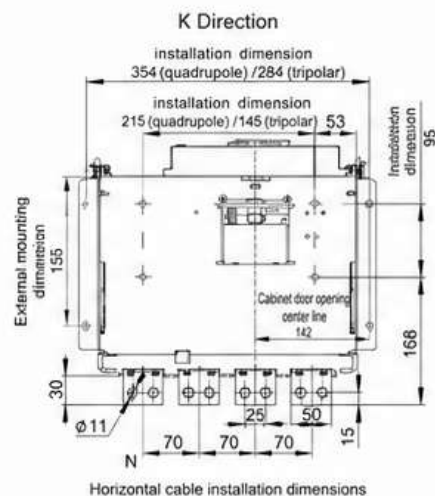
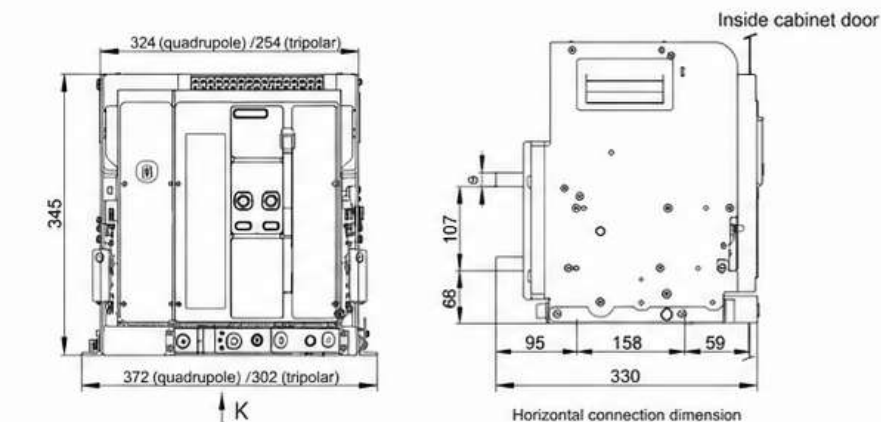
Rated current A	200, 400	630	800, 1000	Remark
Busbar thickness a mm	6	8	10	-
n	6	12	12	3P
	8	16	16	4P

◆ CSW1-1000 Drawer type installation dimensions

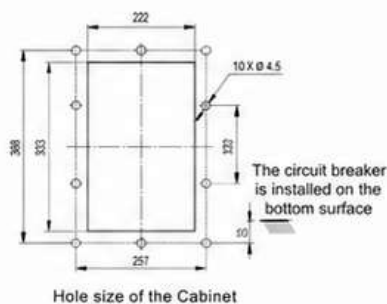


Rated current A	200, 400	630	800, 1000	Remark
Busbar thickness a mm	6	8	10	-
n	6	12	12	3P
	8	16	16	4P

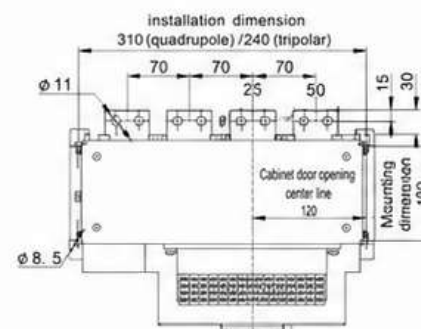
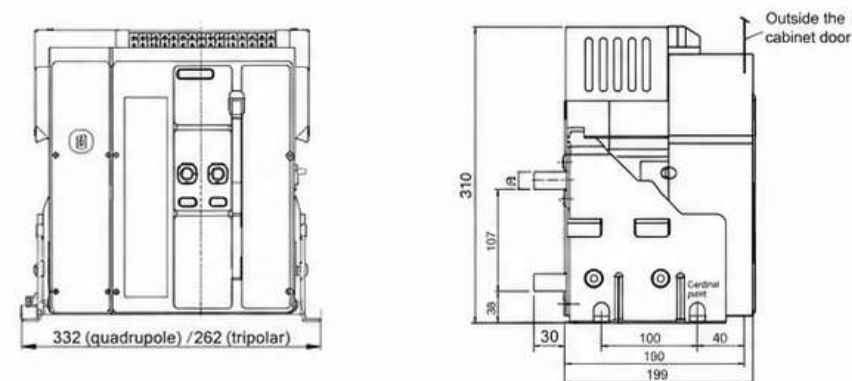
◆ CSW1-1600 Drawer type installation dimensions



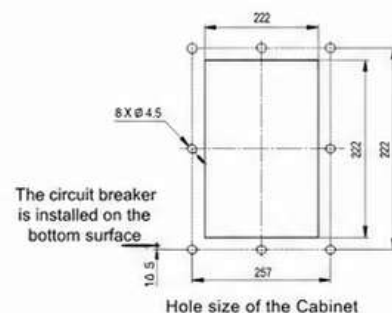
In(A)	a(mm)
200~630A	6
800~1000A	10
1250A~1600A	15



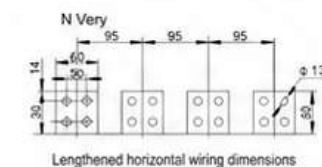
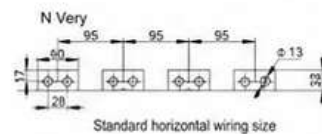
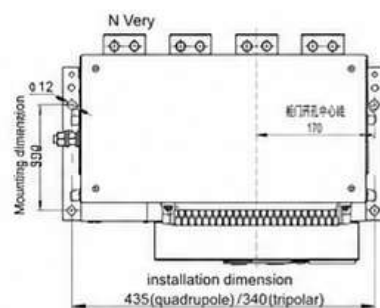
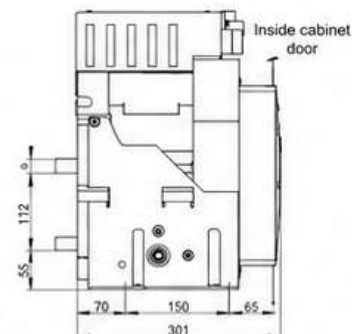
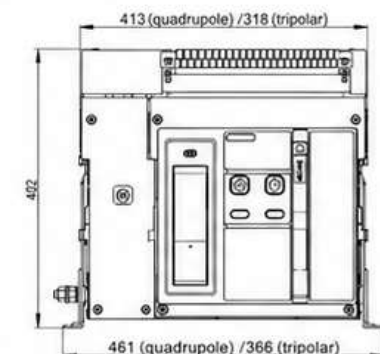
◆ CSW1-1600 Fixed type installation dimensions



In(A)	a(mm)
200~630A	6
800~1000A	10
1250A~1600A	15

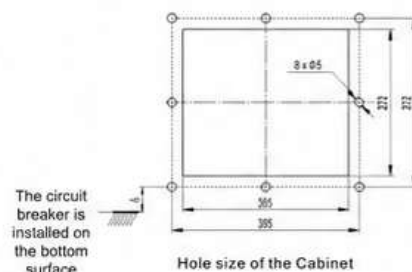


◆ CSSW1-2000 Fixed type installation dimensions



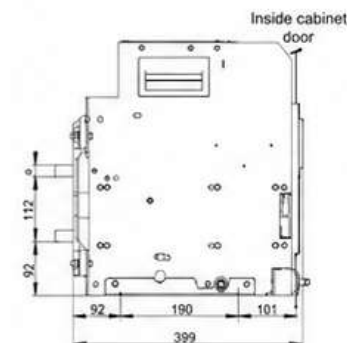
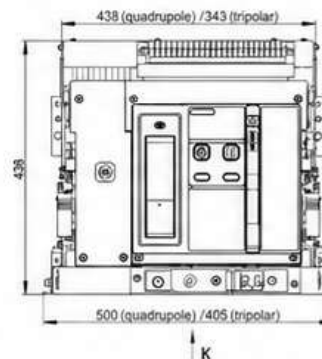
Busbar thickness

In (A)	a(mm)
≤800	10
1000-1600	15
2000	20

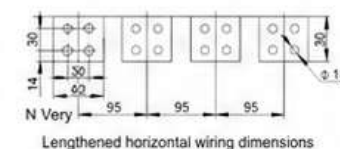
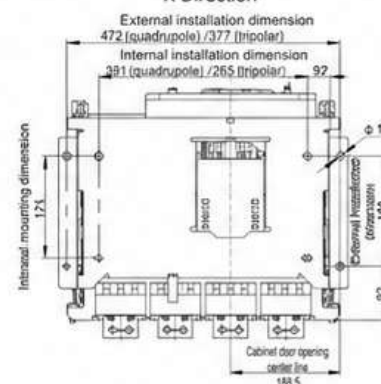


The circuit breaker is installed on the bottom surface

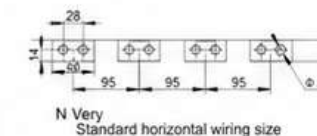
◆ CSSW1-2000 Drawer type installation dimensions (internal installation dimensions or external installation dimensions can be fixed only one of them)



K Direction



Lengthened horizontal wiring dimensions

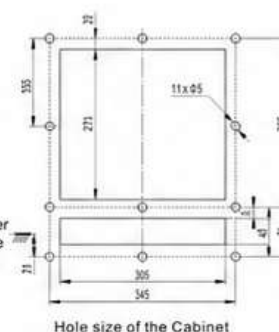


N Very Standard horizontal wiring size

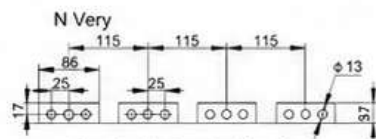
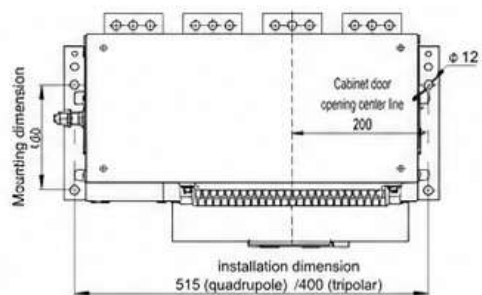
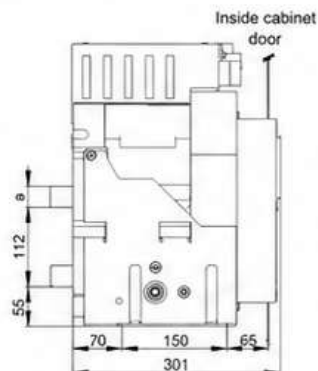
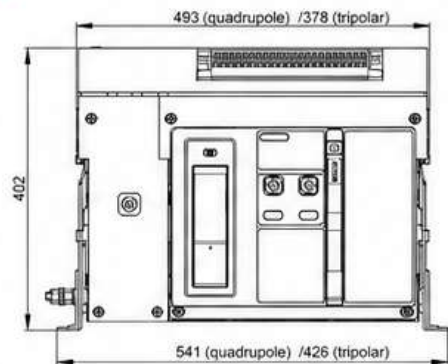
Busbar thickness

In (A)	a(mm)
≤800	10
1000-1600	15
2000	20

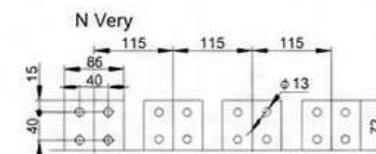
The circuit breaker is installed on the bottom surface



◆ CSW1-3200 Fixed type installation dimensions



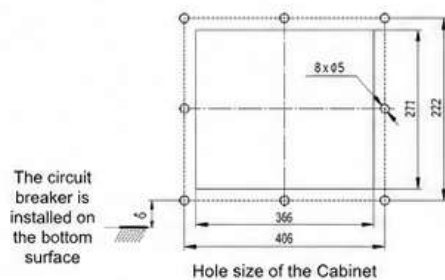
Standard horizontal wiring size



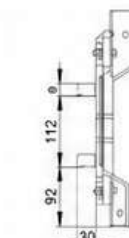
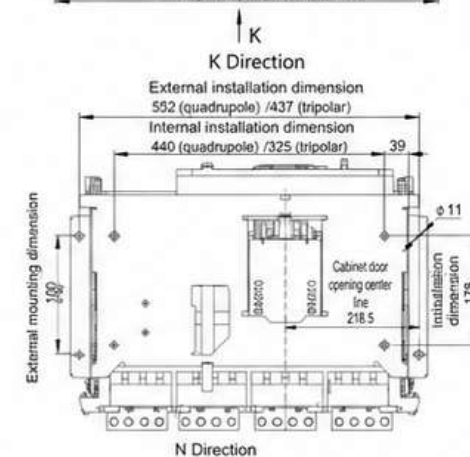
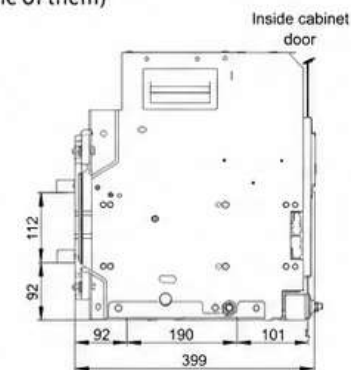
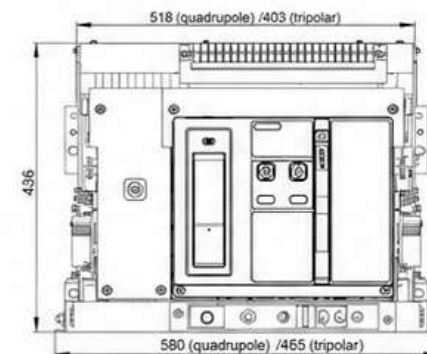
Lengthened horizontal wiring dimensions

Busbar thickness

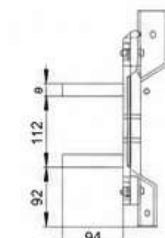
ln (A)	a(mm)
2000, 2500	20
2900, 3200	30



◆ CSW1-3200 Drawer type installation dimensions(internal installation dimensions or external installation dimensions can be fixed only one of them)

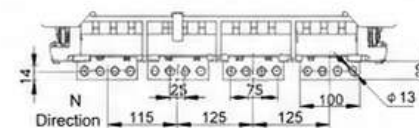


Standard horizontal
wiring size

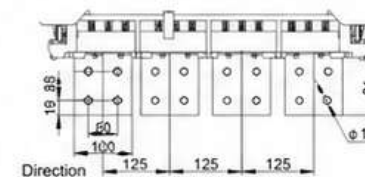


Lengthened horizontal wiring dimensions

N Direction



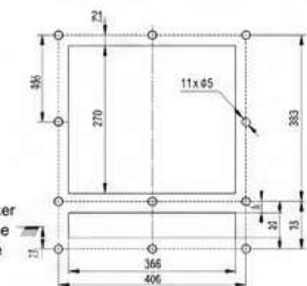
Standard horizontal wiring size



Lengthened horizontal wiring dimensions

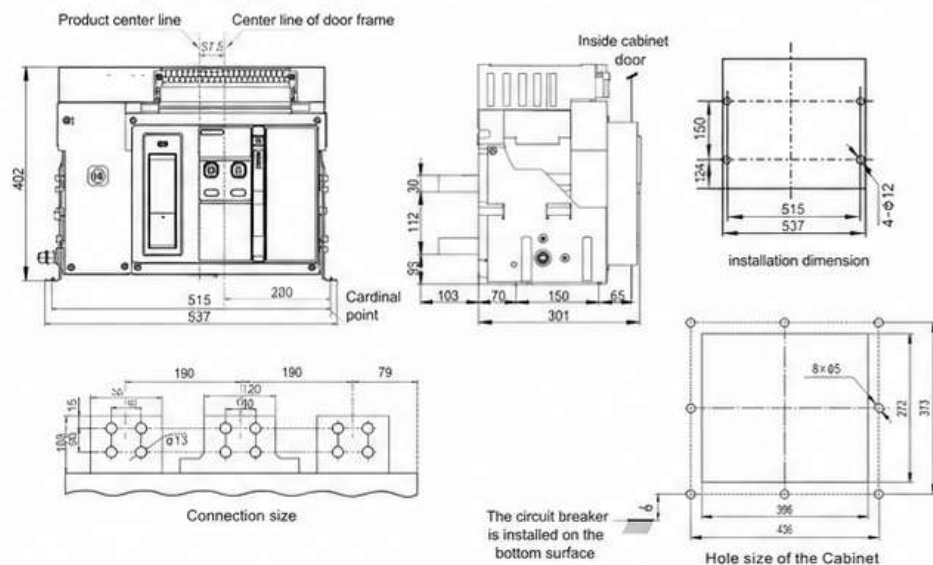
Busbar thickness

In (A)	a(mm)
2000, 2500	20
2900, 3200	30

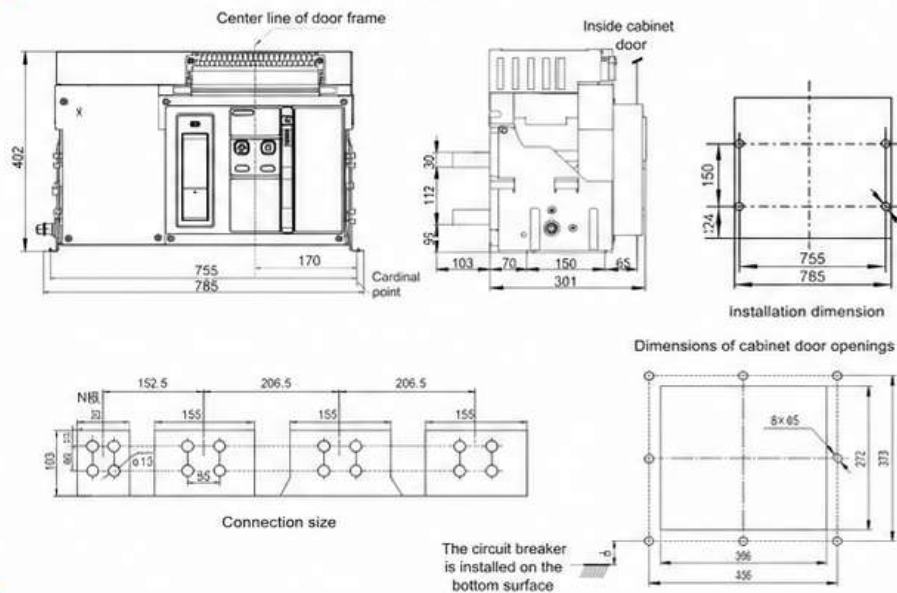


Hole size of the Cabinet

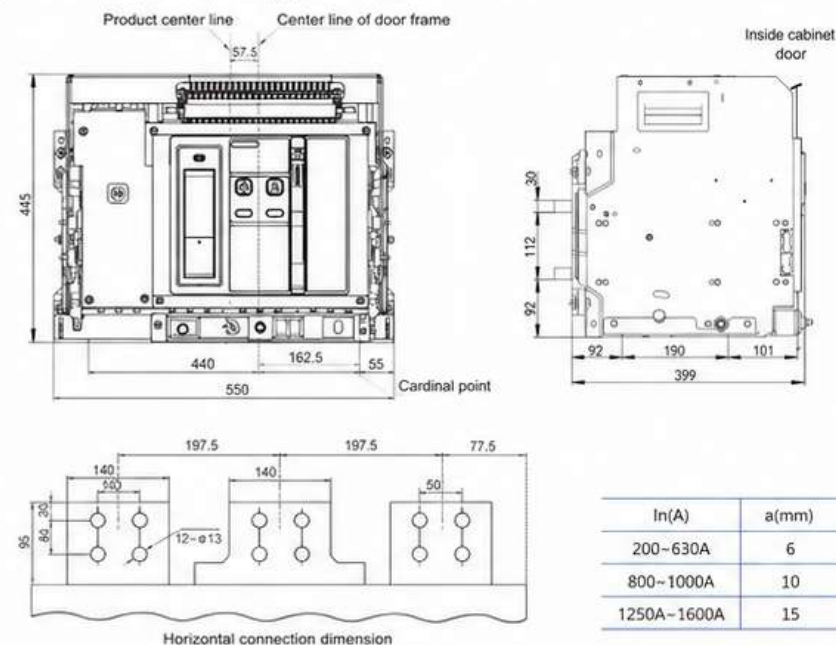
◆ CSW1-4000/3P Fixed type installation dimensions



◆ CSW1-4000/4P Fixed type installation dimensions

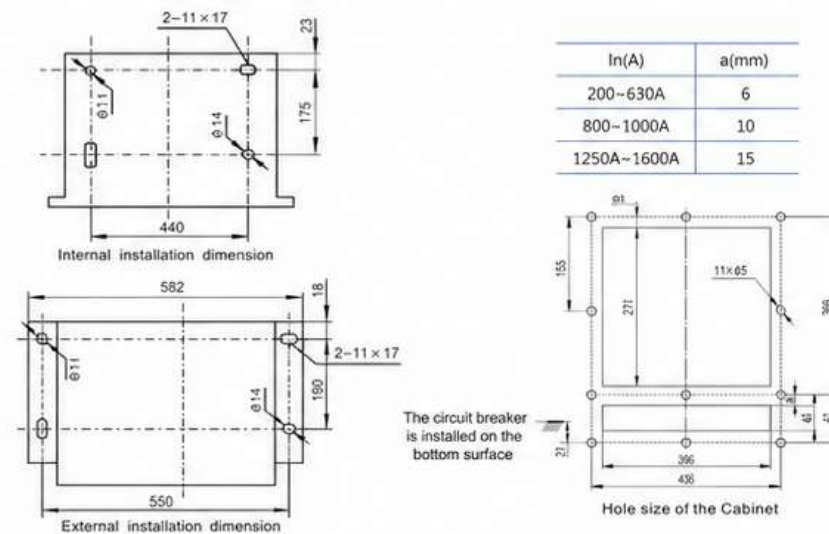


◆ CSW1-4000/3P Drawer type installation dimensions



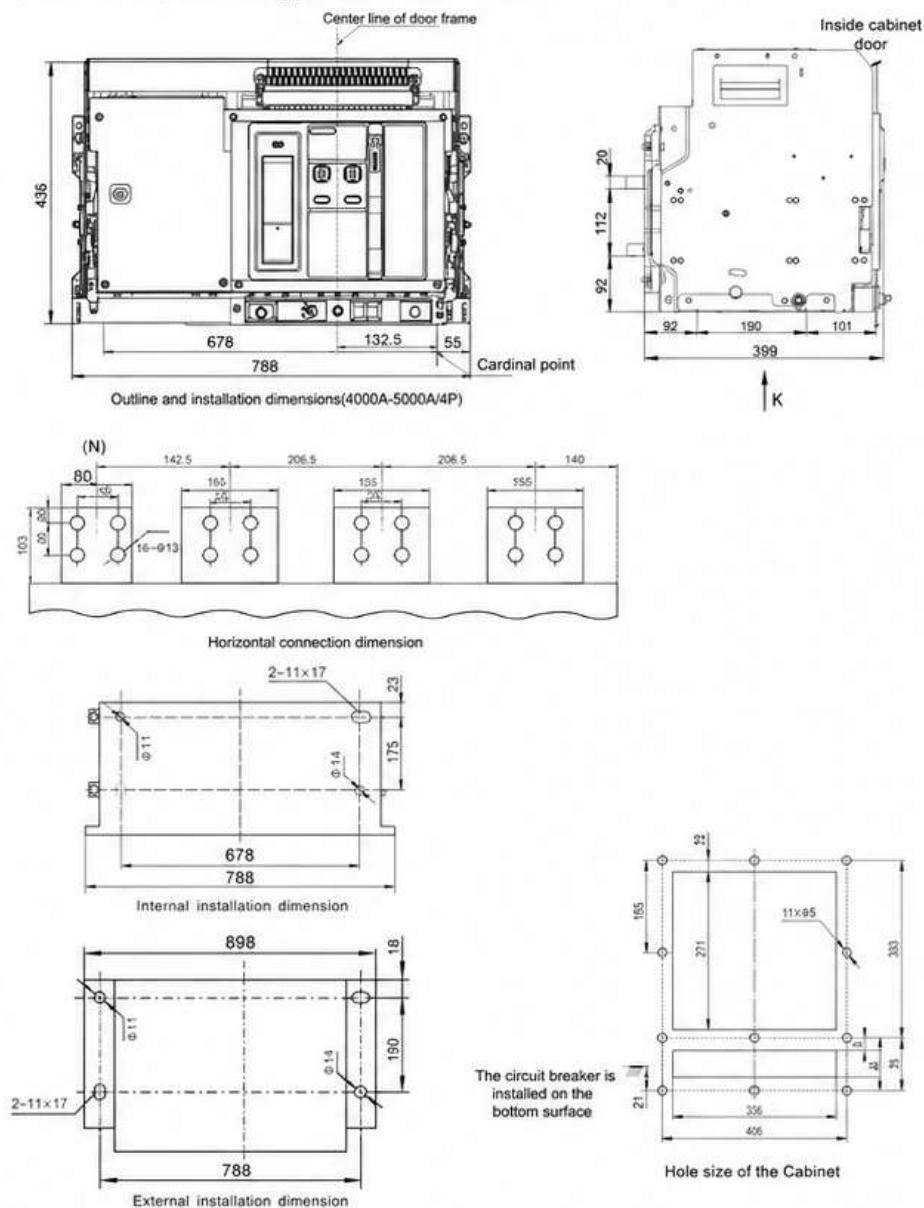
In(A)	a(mm)
200~630A	6
800~1000A	10
1250A~1600A	15

◆ CSW1-4000/4P Drawer type installation dimensions

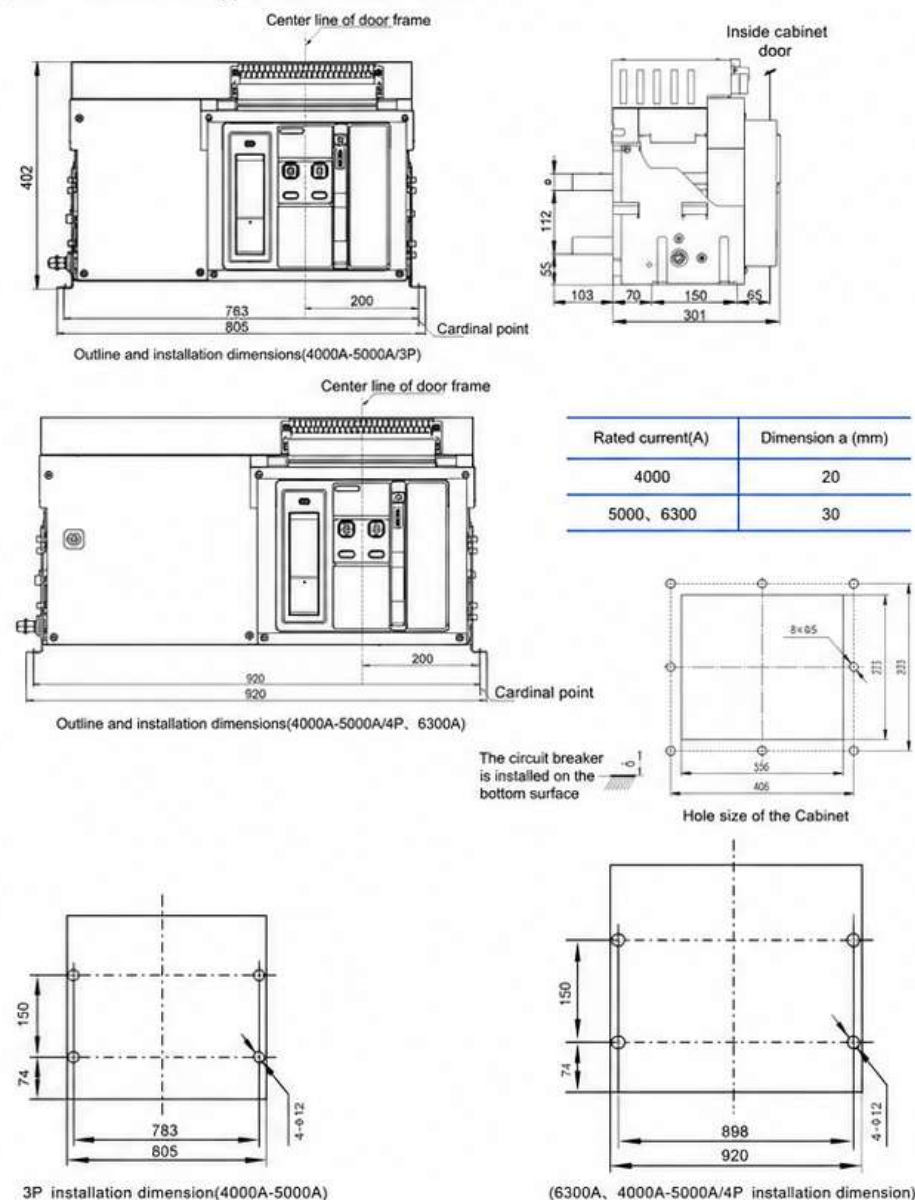


In(A)	a(mm)
200~630A	6
800~1000A	10
1250A~1600A	15

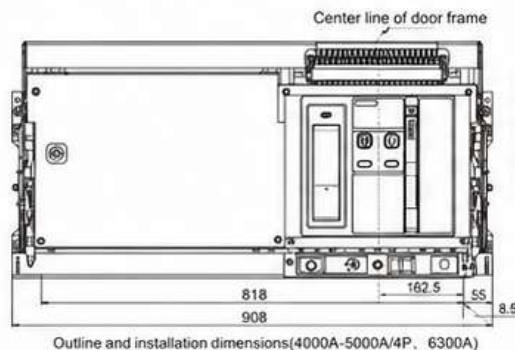
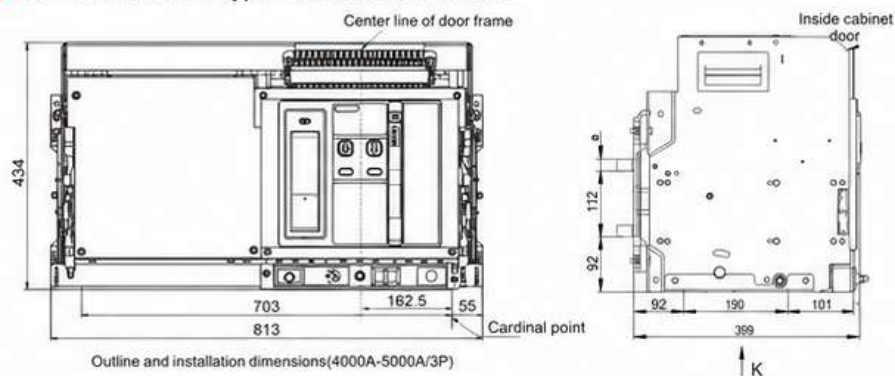
◆ CSW1-4000/4P Drawer type installation dimensions



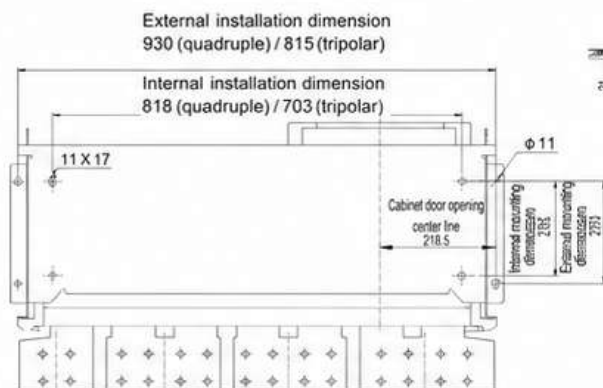
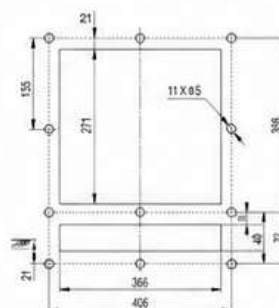
◆ CSW1-6300 Fixed type installation dimensions



◆ CSW1-6300 Drawer type installation dimensions



Rated current(A)	Dimension a (mm)
4000	20
5000、6300	30



K-side installation dimensions (6300A, 3P, 4P installation dimensions are the same)



2500A/3P Fixed type



4000A/4P Drawer type

■ Application

CSSW3 series Air Circuit Breaker (hereinafter referred to as the circuit breaker) is suitable for power distribution networks with an AC voltage of 400 to 1140V and a rated current ranging from 200A to 8000A. It is mainly used for power distribution, feed, and power generation protection, protecting the lines and load equipment from overloading, undervoltage, overvoltage, current-voltage imbalance, short circuits, and grounding faults. Through load monitoring and regional interlocking functions, it enables the rational operation of the power grid. It can also be used for measuring power grid parameters such as current, voltage, power, frequency, energy, demand, and harmonics. The circuit breaker can also directly serve as overload, undervoltage, and short-circuit protection for motors and generators.

The core components of the circuit breaker use intelligent controllers, featuring precise selective protection, which can avoid unnecessary power outages and improve power supply reliability, continuity, and safety. There are multiple communication methods available to achieve "four remote" functions to meet the requirements of control centers and automation systems.

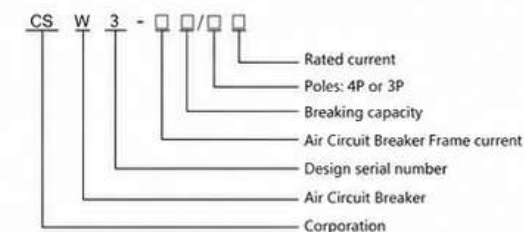
When this series of circuit breakers do not have intelligent controllers and transformers, they can be used as isolating switches. The circuit breaker has an isolation function, symbol: 

This series of circuit breakers are applicable to various low-voltage power distribution fields such as power stations, factories, intelligent buildings, etc., and can also be used for non-frequent motor starting.

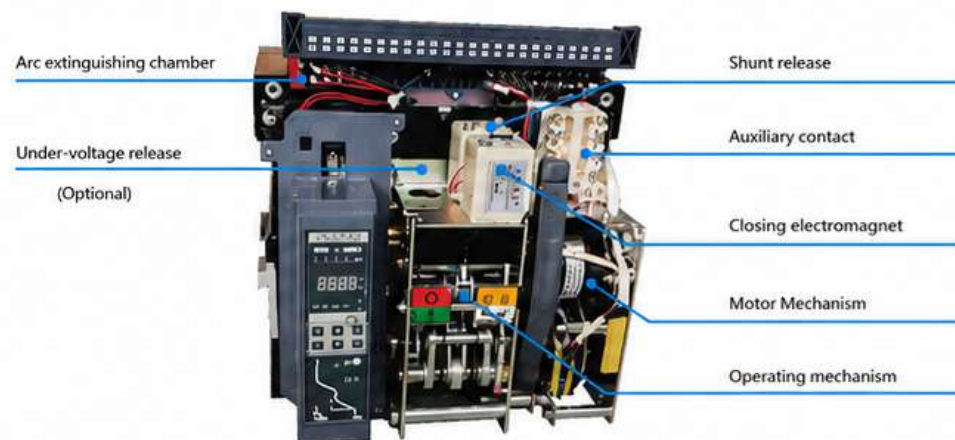
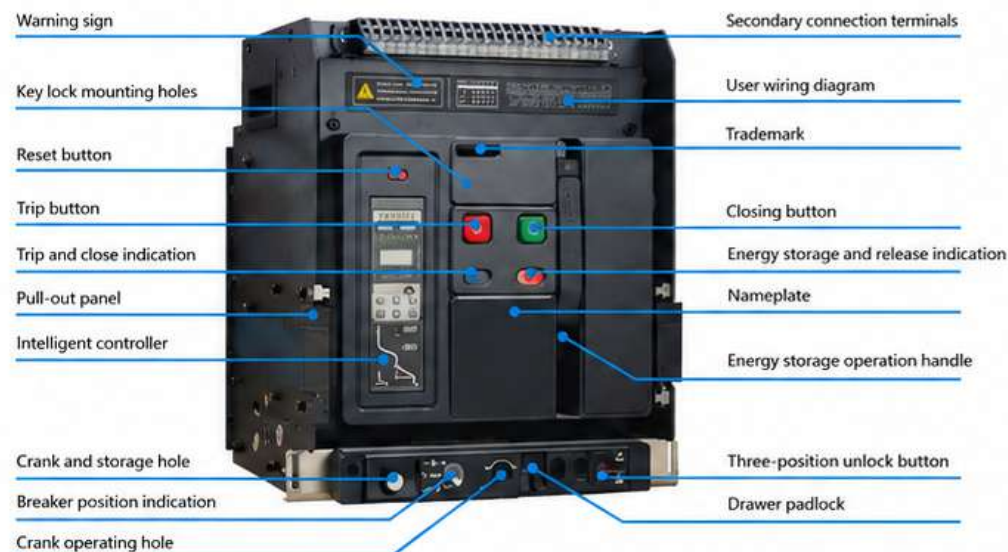
This series of circuit breakers have passed the authoritative "CCC" certification of the China Quality Certification Center.

Comply with standards: IEC/EN 60947-2

■ Model and Meaning



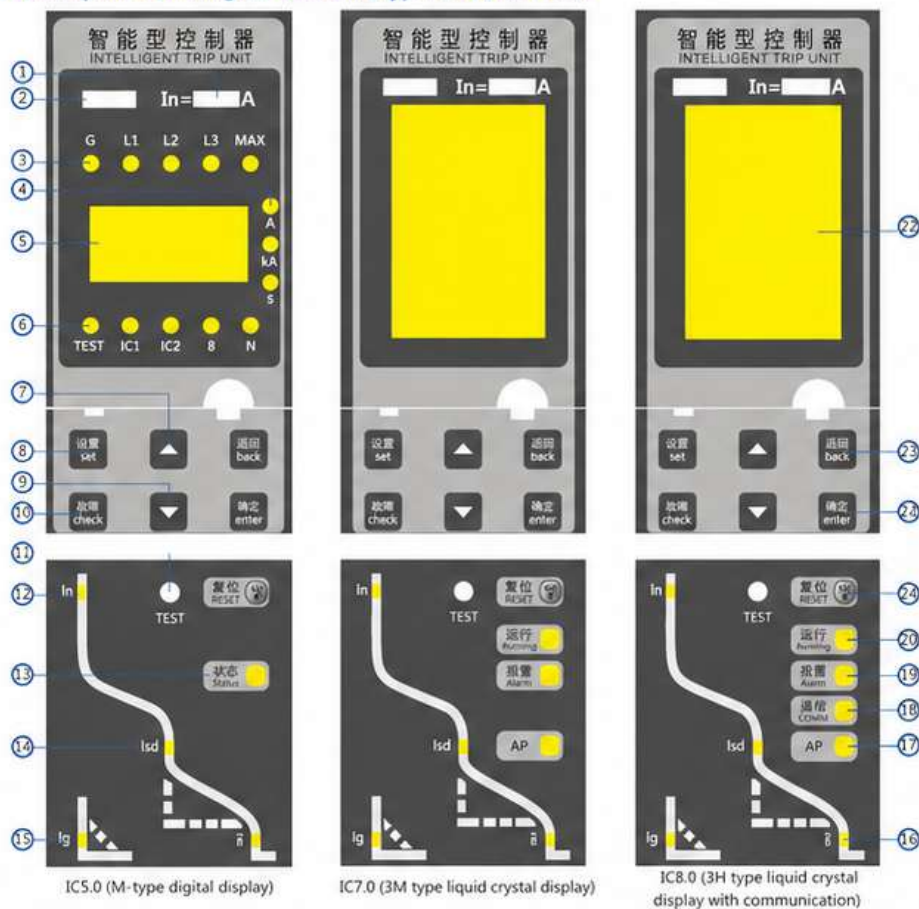
■ Circuit breaker structure



■ Main technical parameters and functions

Model	CSSW3-1600	CSSW3-2500/2500HU	CSSW3-4000/4000HU	CSSW3-7500	
Frame current I_{nm} (A)	1600	2500	4000	7500	
Rated Current I_n (A)	200, 400, 630, 800, 1000, 1250, 1600	630, 800, 1000, 1250, 1600, 2000, 2500	2000, 2500, 2900, 3200, 4000	4000, 5000, 6300, 7500, 8000	
Rated current of neutral pole $I_n(A)$	100% I_n	100% I_n	100% I_n	50% I_n	
Rated operating voltage U_e (V)	AC400, AC690	AC400, AC690, AC800 ~ AC1140			
Frequency (Hz)	50/60				
Number of poles	3P, 4P				
Rated impulse withstand voltage U_{imp} (kV)	12				
Rated insulation voltage U_i (V)	AC1000	AC1800			
Rated ultimate short-circuit breaking capacity $I_{cu}(kA)$	AC400V	65	100	150	
	AC690V	50	65	100	
	AC800/1140V	—	50/75	55	
Rated Service Short-circuit Breaking Capacity $I_{cs}(kA)$	AC400V	55	100	150	
	AC690V	42	65	100	
	AC800/1140V	—	50/75	55	
Rated short-time withstand current $I_{cw}/1s(kA)$	AC400V	55	100	150	
	AC690V	42	65	100	
	AC800/1140V	—	50/75	55	
Power frequency withstand voltage (V)	AC3500				
Selective use of categories	B				
Total disconnection time (without additional delay)	≤30ms				
Closing time	≤60ms				
Electrical life (times)	AC400V	10000	10000	6000	2000
	AC690V	6000	6000	3500	1000
	AC800/1140V	—	3000	2000	1000
Mechanical life (time)	Maintenance-free	15000	15000	12500	5000
	There is maintenance	20000	20000	15000	10000
Mechanical life of drawer base (times) 1 time / 2 min	1000	1000	600	300	
Incoming mode	Up or down line				
Arcing distance	0				
Installation mode	Fixed type , drawer type				
Connection mode	Horizontal wiring , vertical wiring , mixed wiring				

Description of Intelligent Controller Types and Interfaces



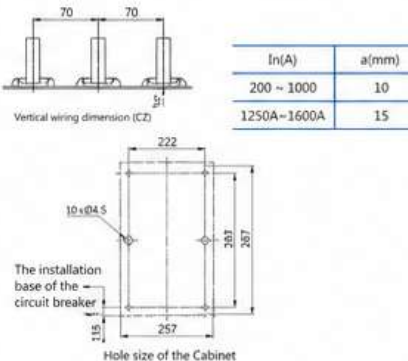
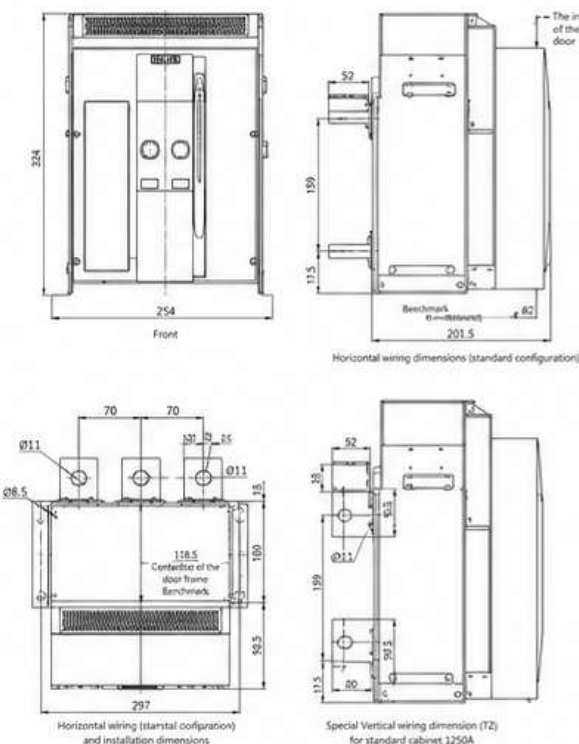
Explanation: Due to the rapid upgrading and replacement of intelligent controllers, the above-mentioned three types of intelligent controllers are not the only options. The actual product should be referred to. If necessary, relevant functions can be customized according to the specific usage requirements.

Symbols and meanings of the intelligent controller interface

Number	Interface symbols	Meaning
1	In	Rated current of circuit breaker: 200A ~ 7500A
2	IC5.0, IC7.0, IC8.0	Type of intelligent controller: IC5.0 (M digital display); IC7.0 (3M liquid crystal display); IC8.0 (3H liquid crystal display + communication)
3	G, L1, L2, L3, Max	G: Grounding or leakage current indicator light; L1: Current indicator light for phase A; L2: Current indicator light for phase B; L3: Current indicator light for phase C; Max: Indicator light for the maximum current among phases A, B, and C

Circuit breaker appearance and installation dimensions

◆ CSW3-1600/3P Fixed-Type installation dimensions (The wiring bus can be removed vertically and then rotated 90° for installation.)



4	A, kA, s	A: Current unit - Ampere; kA: Current unit - Kiloltampere; s: Time unit - Second
5	Digital display window	This window displays the corresponding parameter values such as current, settings, and faults.
6	TEST, IC1, IC2, 8, N	TEST: Function test indicator light; IC1: Load monitoring 1 protection indicator light; IC2: Load monitoring 2 protection indicator light; 8: Current imbalance protection indicator light; N: Indicator light for phase N
7	▲	Move the menu content to the next higher level or change the selected parameter upwards.
8	设置 Set	Go back between the measurement main menu and the protection parameter setting main menu (using the "left" key on the password input interface)
9	▼	Move the menu content down to the current level, or change the selected parameter downward.
10	返回 Back	Cycle between the system parameter setting (main menu) and the history record and maintenance (main menu) (press the "right" key on the password input interface).
11	TEST	Simulation trip button: Pressing this button will cause the intelligent controller to trip once, which is used to test whether the mechanical fit of the intelligent controller is normal.
12	IR	The long delay protection indicator light remains constantly illuminated when the set long delay current is reached or during an overload protection action.
13	状态 Status	The indicator light for the controller's operating status has three colors: red, yellow, and green. Green indicates normal operation; yellow indicates protection alarm; red indicates protection action and the controller trips.
14	Isd	The short delay protection indicator light remains constantly illuminated when the set short delay current is reached or when short delay short circuit protection occurs.
15	Ig	The grounding protection indicator light is always on when the set grounding current is reached or when a grounding protection fault occurs. The "Ig" indicator light is constantly illuminated.
16	II	The instantaneous protection indicator light, when the set instantaneous current is reached or a short circuit protection occurs, the "II" indicator light remains constantly illuminated.
17	AP	Advanced protection fault indicator light, such as a fault like phase loss, over-voltage, voltage imbalance, under-frequency, over-frequency, phase sequence, and reverse power, will light up the "Alarm" indicator if only an alarm is triggered without tripping.
18	通信 Comm	Communication indicator light: When there is no communication, the indicator light goes off; when there is communication, the indicator light flashes.
19	报警 Alarm	The fault alarm light is off when the device is operating normally; it flashes rapidly when a fault trip occurs and remains constantly illuminated when an alarm is triggered.
20	运行 Running	Normal operation indicator light: After the intelligent controller is powered on normally, the indicator light remains constantly illuminated; when in a faulty state, it flashes.
21	复位 Reset	Reset button: When the controller is in a fault trip or alarm state, pressing the reset button will cause the controller to enter the initial working state.
22	确认 Confirm	Confirm key: Enters the next-level menu of the item currently pointed to by the cursor, selects the current parameter, or saves the modifications made.
23	返回 Back	Confirm key: Enters the test level menu of the item currently pointed to by the cursor, selects the current parameter, or saves the modifications made.
24	LCD Display window	Back button: Press the back button to return to the previous level of operation.
24	LCD Display window	This window displays the corresponding parameter values such as current, voltage, settings, and faults.

Parameter settings for intelligent controller

Using the intelligent controller panel, the parameters of the controller can be set by pressing the six keys

▲, ▼, 设置 Set, 返回 Back, 故障 Check, 确定 Enter. The basic steps are as follows:

- By continuously pressing 设置 Set, you can repeatedly check all the set parameters of the controller. When a certain parameter is checked, the current set value of that parameter will be displayed on the screen. At the same time, the corresponding indicator light on the panel lights up. If there is no need to change this parameter, then continue to press 设置 Set.
- If you need to change the original set parameters, press the ▲ or ▼ keys continuously. During this process, use 返回 Back to switch between the coarse and fine adjustments of the set parameters until the screen displays the value you need (with a set step size of 1A or 2A).
- Press 确定 Enter to save the new parameters set currently. 通信 Comm The green light flashes once. If no other parameter items need to be set, proceed to step ③. Otherwise, go to step ③.
- Press 返回 Back to exit the setting mode.

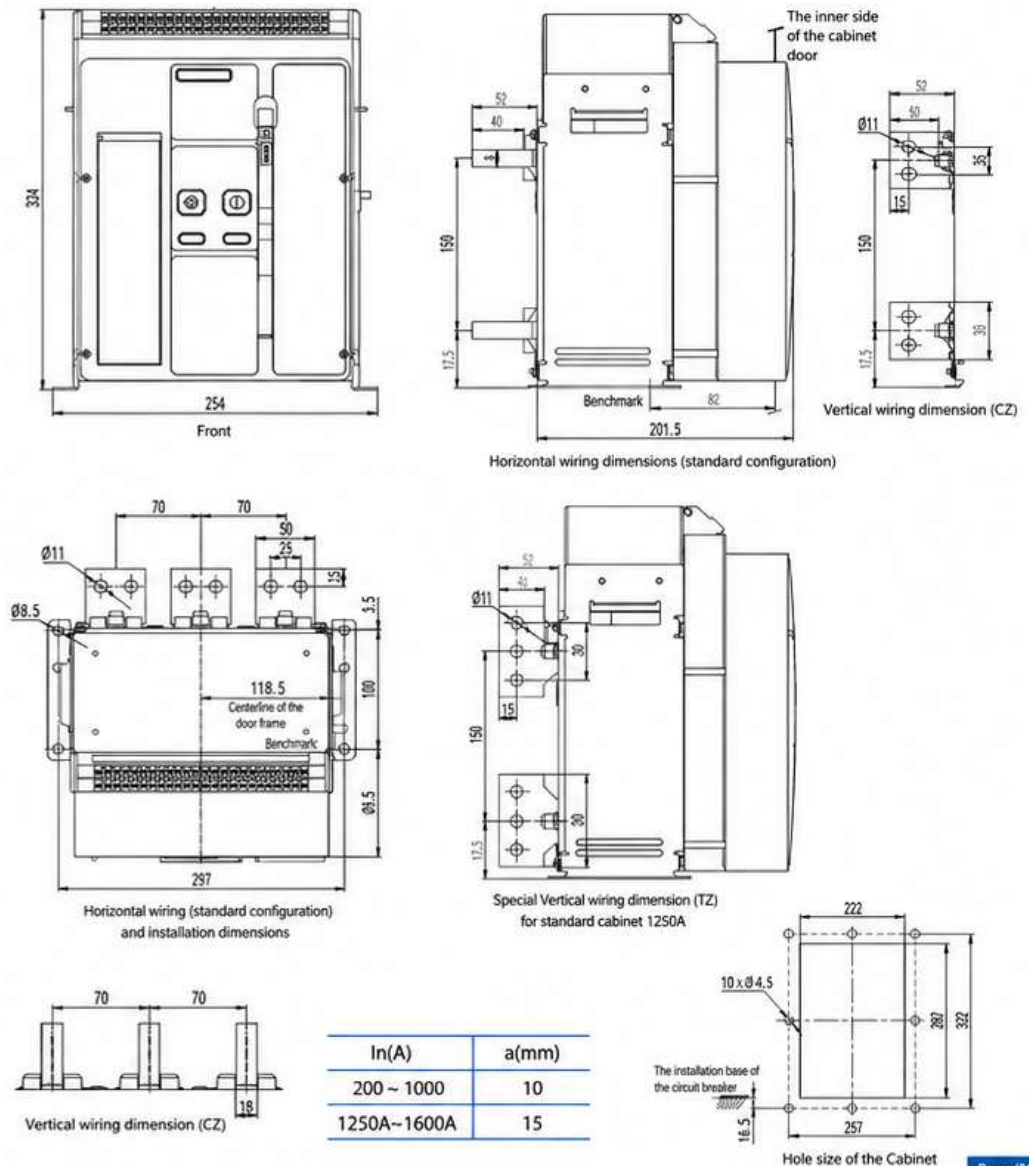
■ Function Allocation Table of Intelligent Controller

Model of intelligent controller	IC5.0 (M)	IC7.0 (3M)	IC8.0 (3H)
Interface display			
Digital display	■	-	-
LCD display (liquid crystal)	-	■	■
Protection function			
Overload and Long Delay Protection	■	■	■
Overload thermal memory	■	■	■
Overload pre-alarm	□	□	□
Short-circuit short-delay protection	■	■	■
Instantaneous short-circuit protection	■	■	■
Grounding protection (difference type)	■	■	■
Grounding alarm	□	□	□
Neutral line protection (4P, 3P + N)	■	■	■
Current imbalance protection	-	□	■
MCR and HSSC protection	□	□	□
Load Monitoring	□	□	■
Under-voltage and over-voltage protection	-	□	■
Voltage imbalance protection	-	□	■
Phase sequence protection	-	□	■
Under-frequency and over-frequency protection	-	□	■
Require value protection (current)	-	□	■
Reverse power protection	-	□	□
Regional selective interlock	-	□	□
Residual Current Protection	□	□	□
Phase loss protection	-	□	■
Over-temperature protection and alarm	-	□	□
Measurement function			
Current measurement (phase terminal, neutral terminal)	■	■	■
Voltage (phase voltage, line voltage, voltage imbalance rate)	-	□	■
Phase sequence detection	-	□	■
Frequency measurement	-	□	■
Need to measure the value (current)	-	-	■
Need to measure the value (power)	-	-	■
Power measurement (active power, reactive power, apparent power)	-	-	■
Power factor measurement	-	-	■
Electric energy measurement (active energy, reactive energy, apparent energy)	-	-	■
Harmonic measurement	-	-	■
Heat capacity measurement	-	-	■
Maintenance function			
LED Fault Status Indicator	□	■	■
Fault Record and Query	■ Items	■ Items	■ Items
Historical current peak record	■	■	■
Alarm history record query	■	■	■
Fault trip signal output	■	■	■
Self-diagnosis function	■	■	■
Simulation of trip test function	■	■	■
Contact wear equivalent (alarm) % query	□	□	■
Query on the number of operations	-	□	■
Clock function	-	■	■
Others			
Controller remote reset	□	□	□
Communication function: Modbus protocol	-	-	■
I/O Settings Function	-	□	■
Automatic Reclosing Function (Special for Photovoltaic Applications)	-	□	□
Password setting function	-	■	■
High-temperature environment (-40°C ~ +70°C)	□	□	□

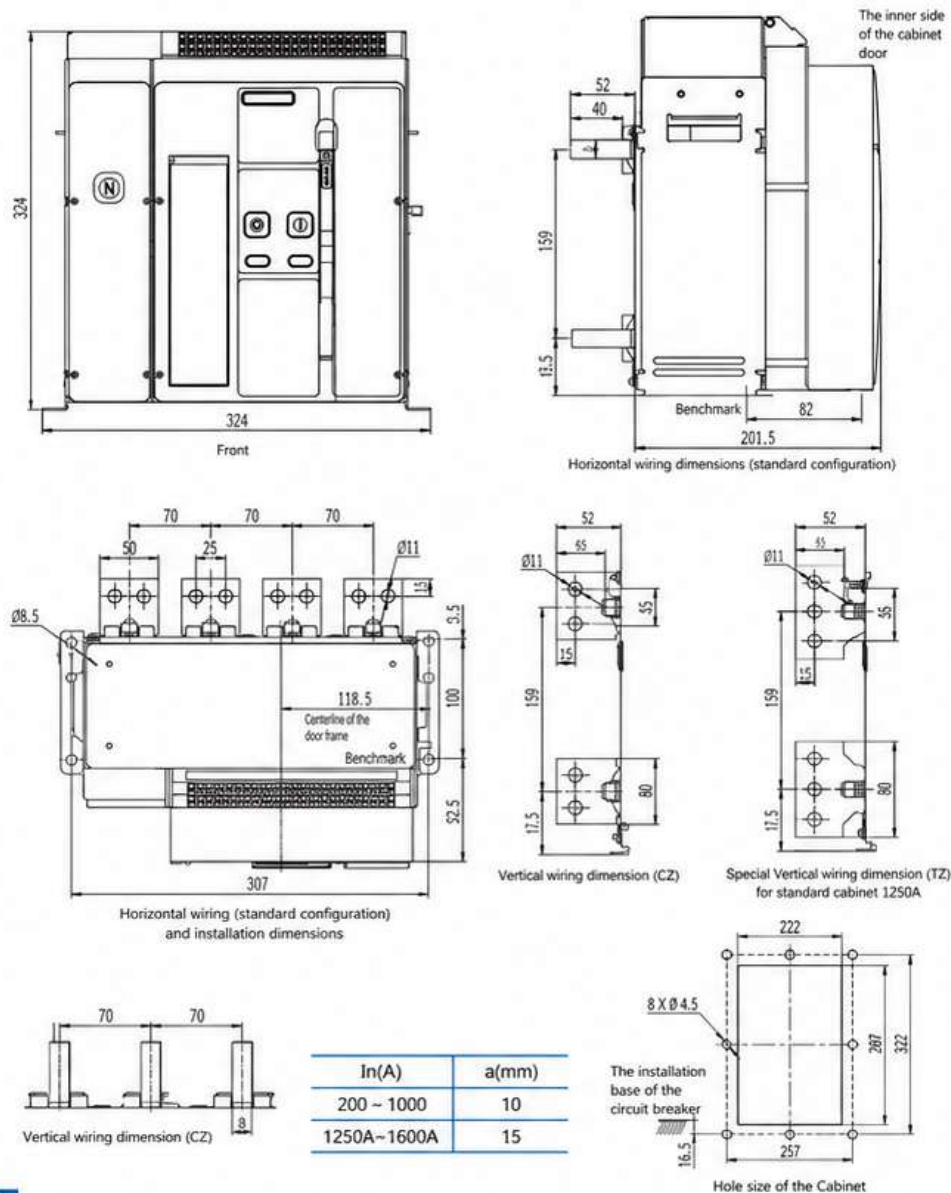
- Indicates the absence of this function; ■ Indicates standard feature; □ Indicates optional feature

■ Circuit breaker appearance and installation dimensions

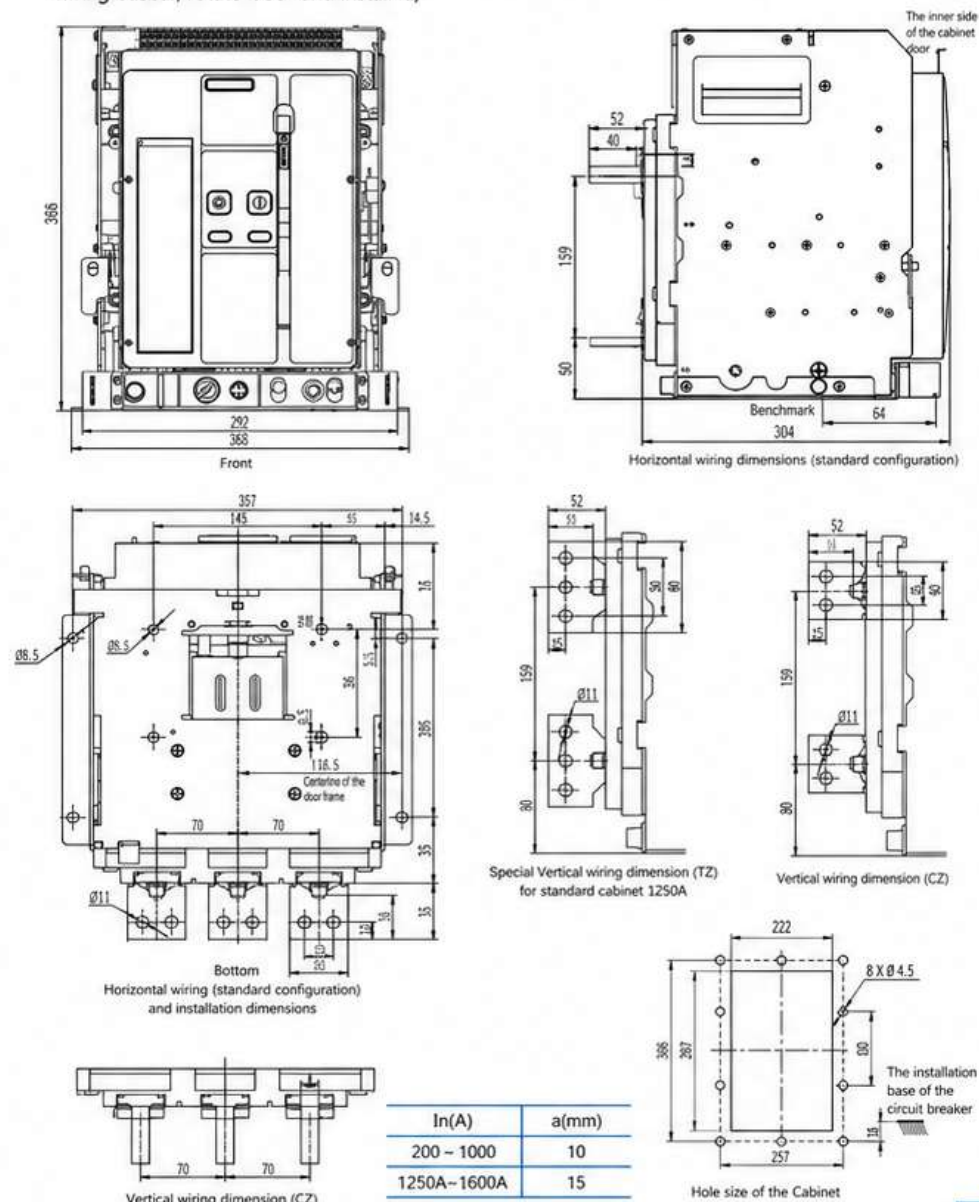
◆ CS5W3-1600/3P Fixed-Type installation dimensions (The wiring bus can be removed vertically and then rotated 90° for installation.)



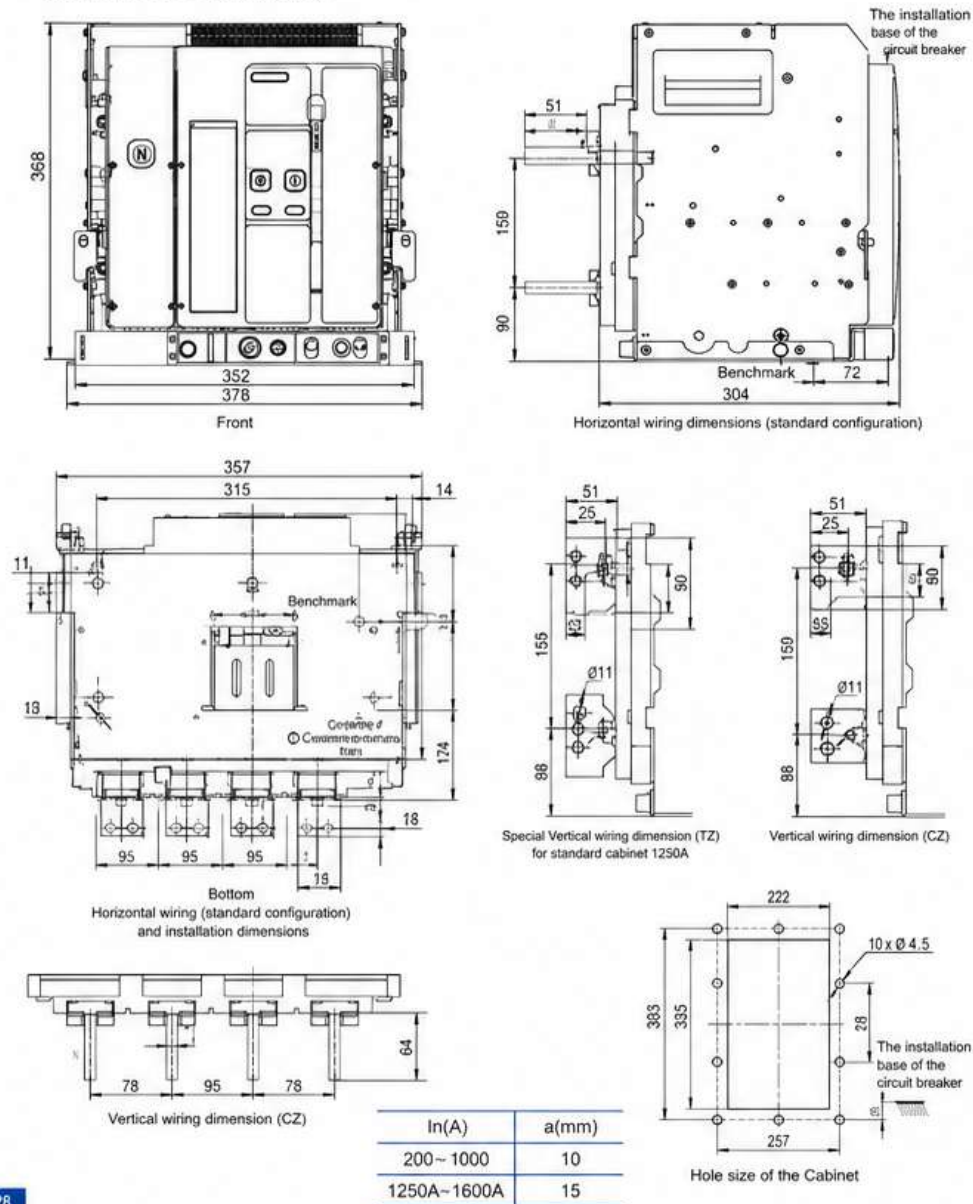
- ◆ CSSW3-1600/4P Fixed-Type installation dimensions (The wiring bus can be removed vertically and then rotated 90° for installation.)



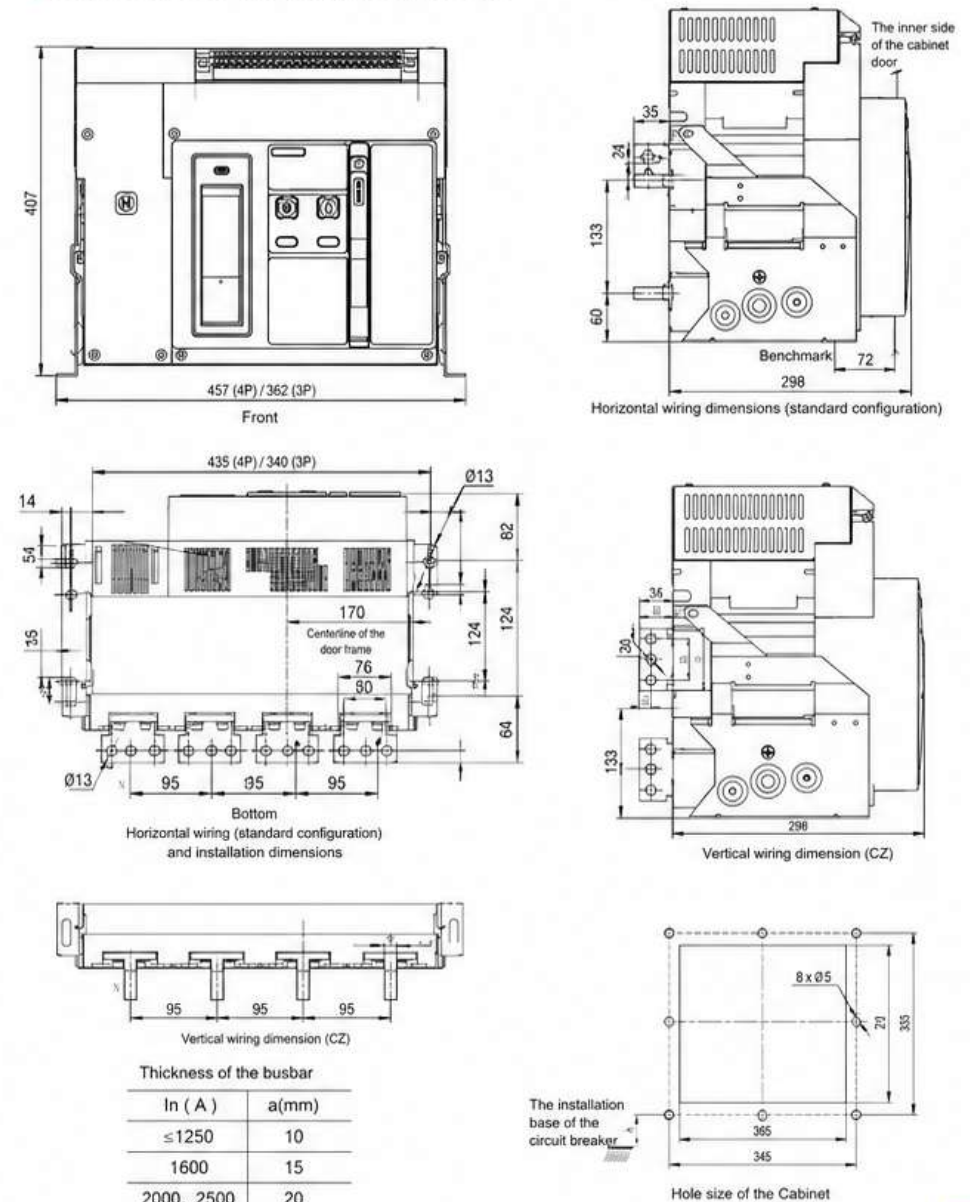
- ◆ CSSW3-1600/3P drawer-type installation dimensions (The vertical connection line can simply remove the wiring busbar, rotate it 90° and install it.)



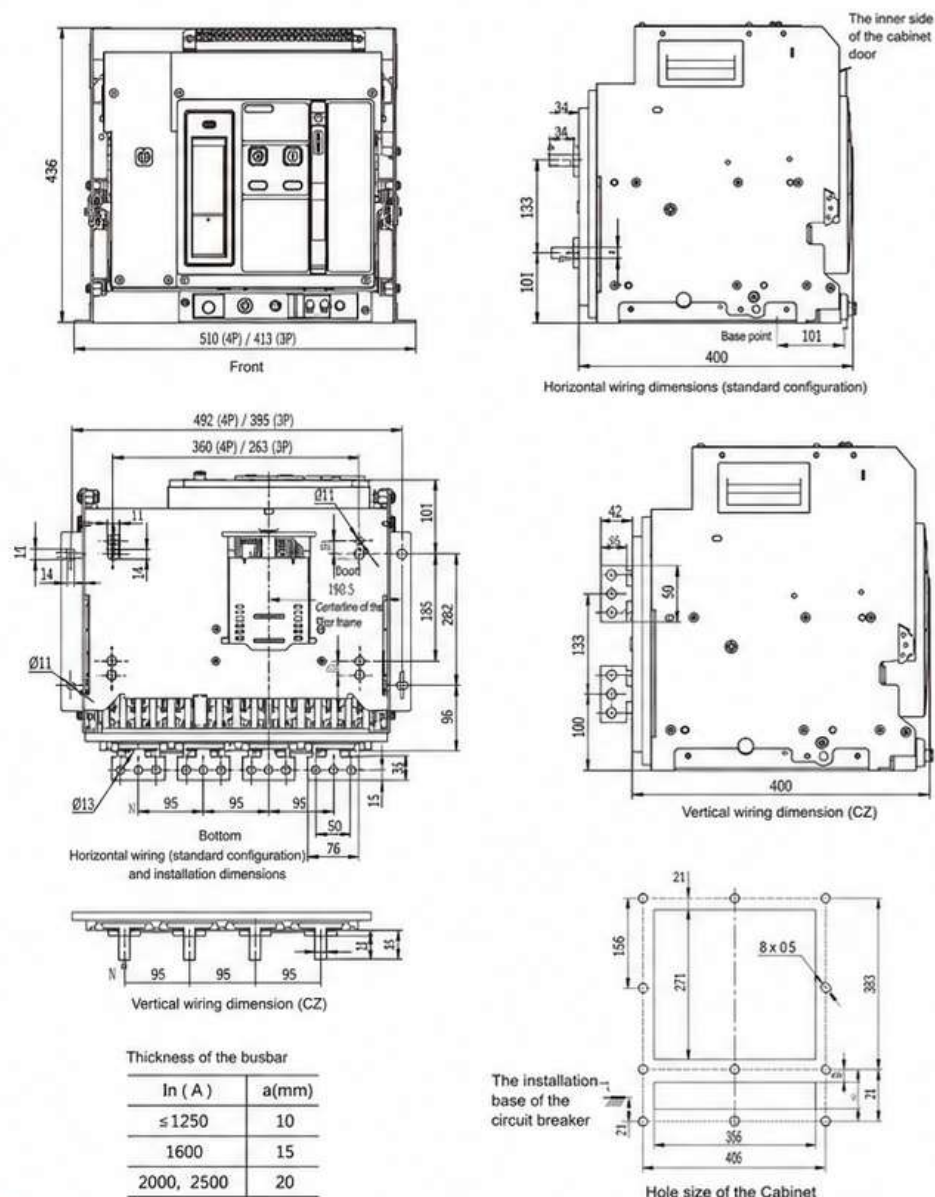
◆ CSW3-1600/4P Fixed-Type installation dimensions (The wiring bus can be removed vertically and then rotated 90° for installation.)



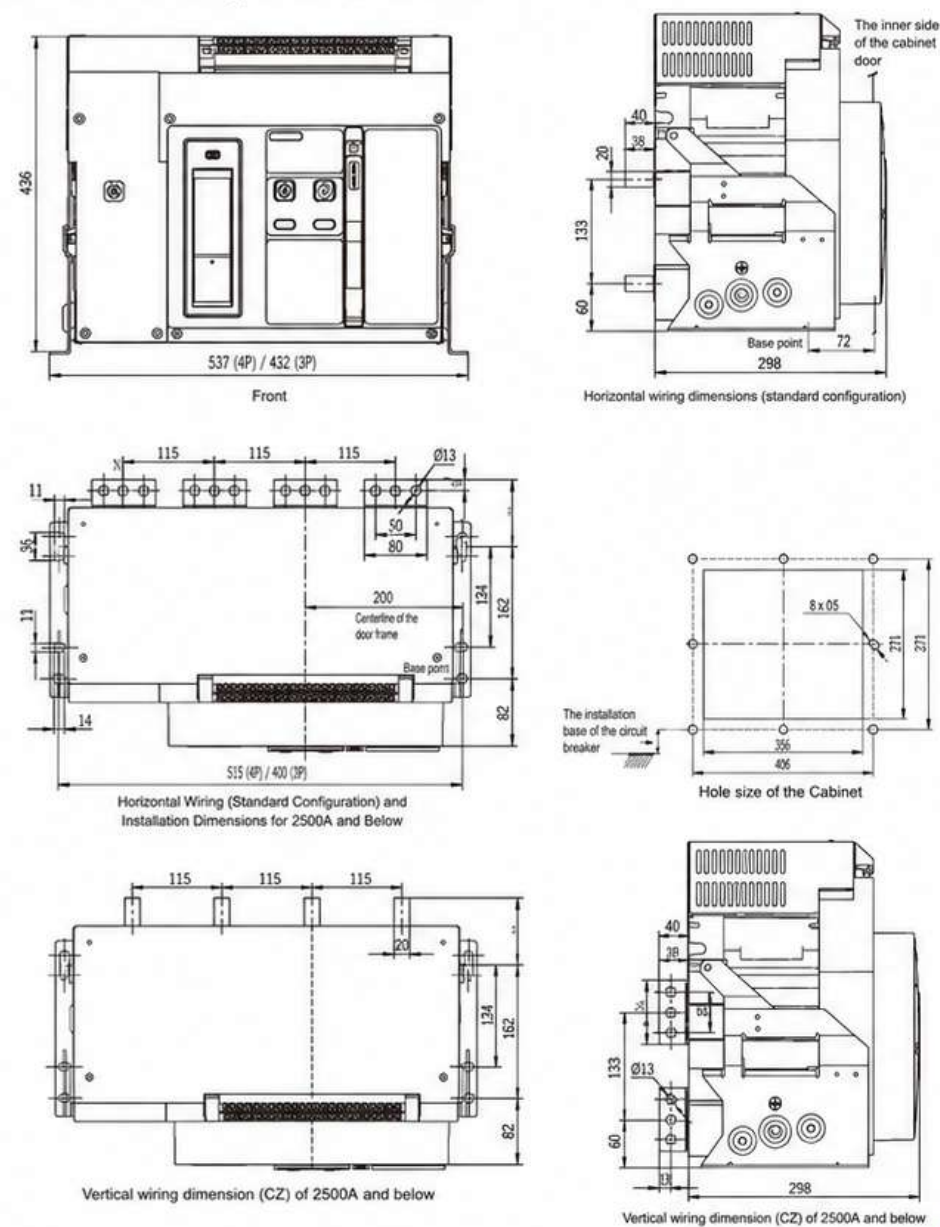
◆ CSW3-2500 Fixed-Type installation dimensions



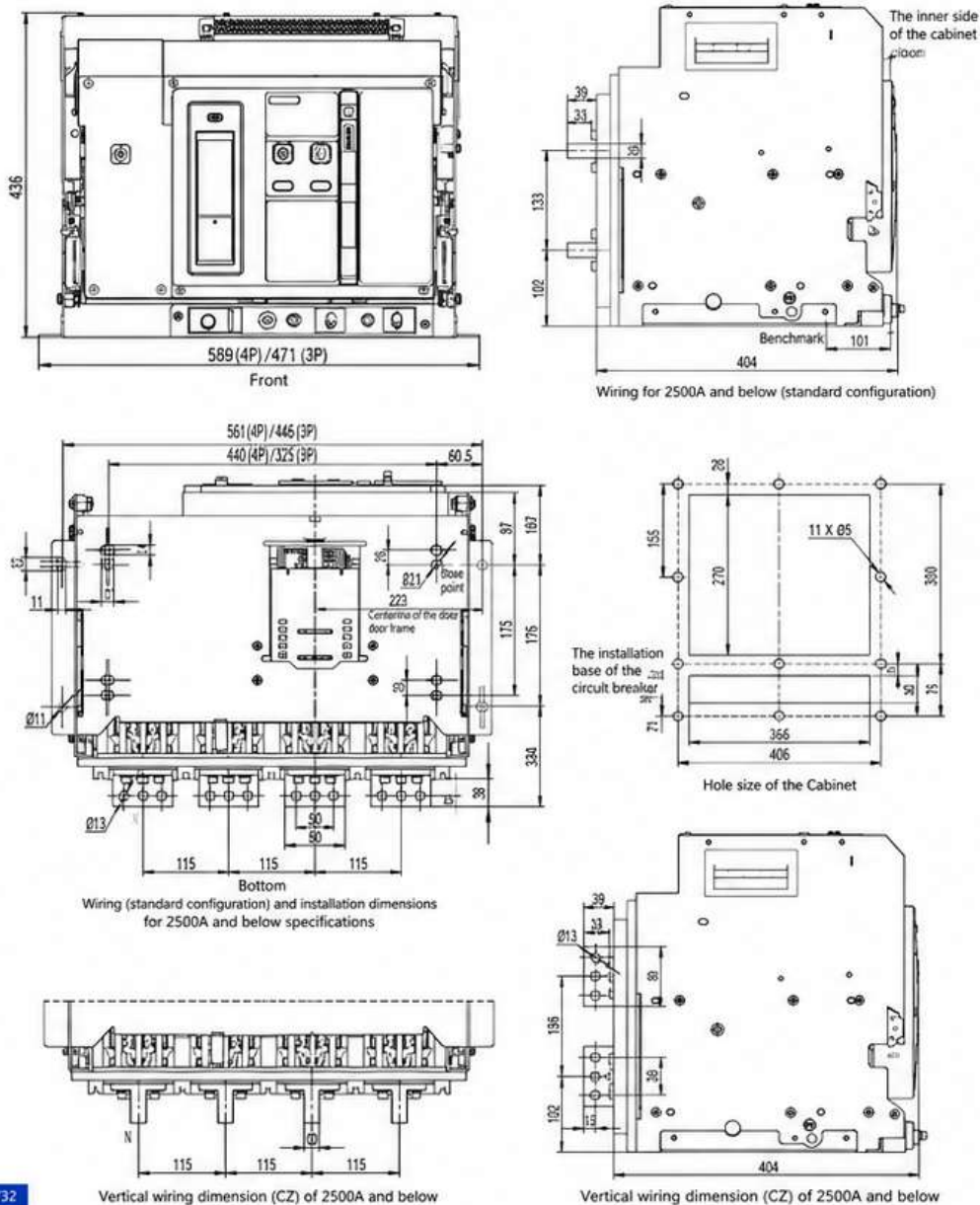
◆ CSW3-2500 Drawer-type installation dimensions



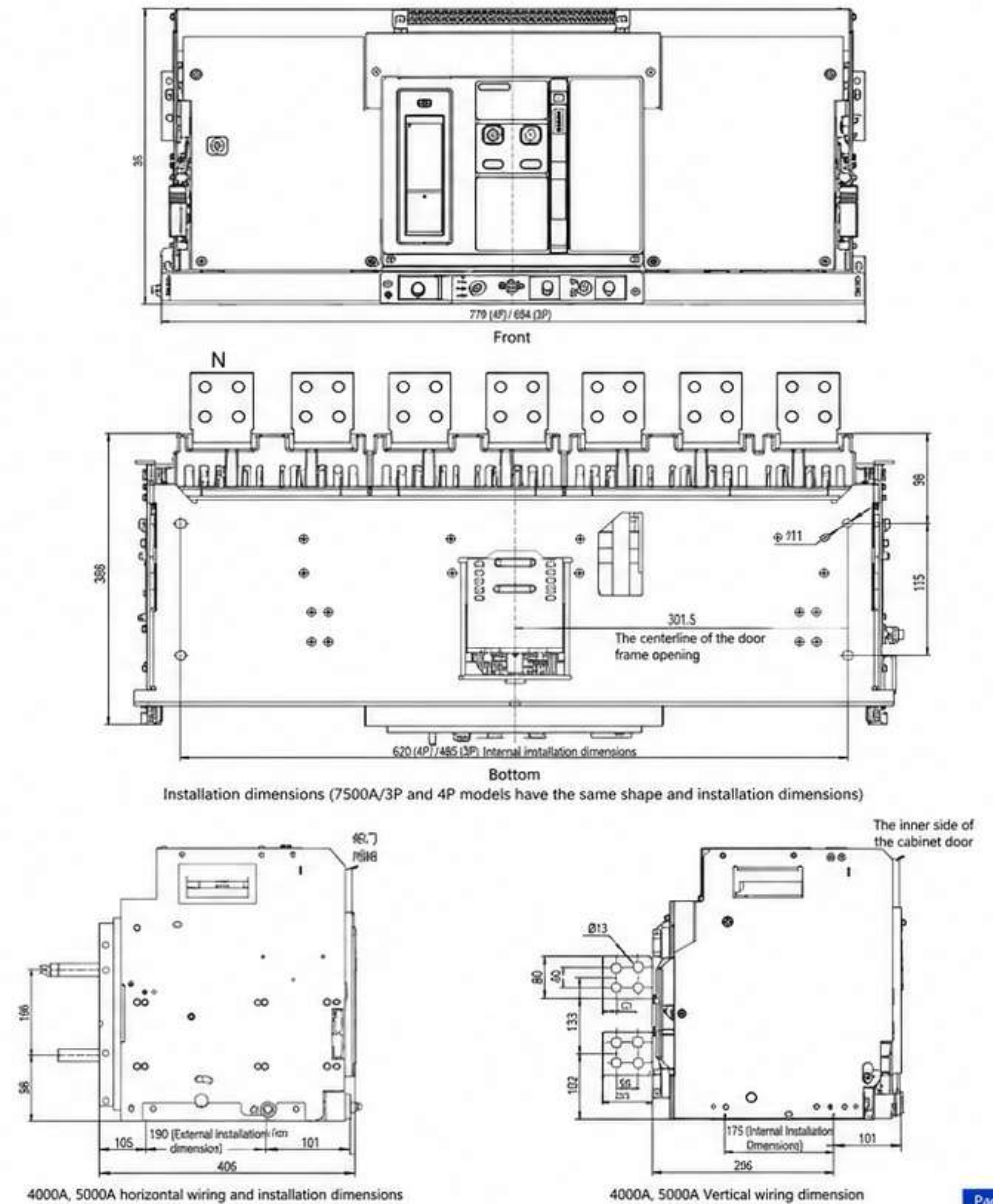
◆ CSW3-4000 Fixed-type installation dimensions



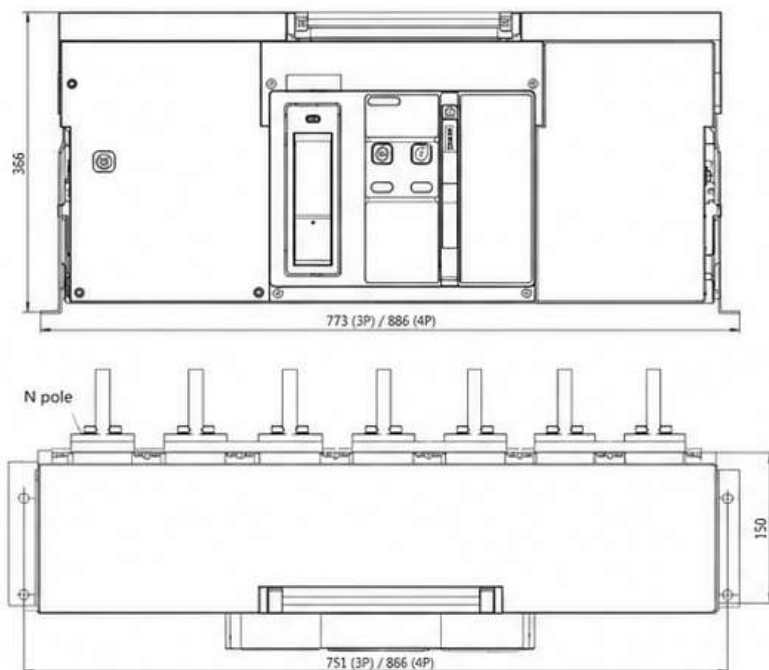
◆ CSW3-4000 Drawer-type installation dimensions



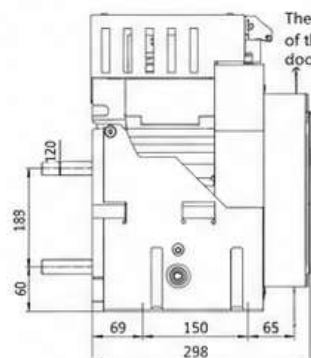
◆ CSW3-7500 Drawer-type installation dimensions



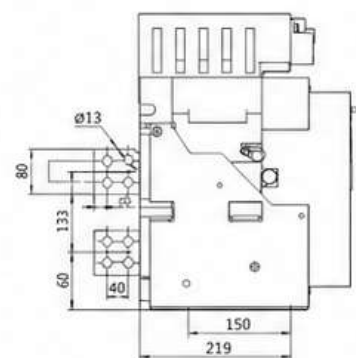
◆ CSW3-7500 Fixed-type installation dimensions



Installation dimensions (7500A/3P and 4P models have the same shape and installation dimensions)



4000A and 5000A Horizontal wiring and installation dimensions



4000A, 5000A Vertical wiring installation dimensions

■ Main Components & Accessories



- | | | |
|------------------------------|-----------------------------------|-------------------------------------|
| 1. Drawer-type ACB | 10. Shunt release | 19. Counter |
| 2. Contact system | 11. Closed electromagnet | 20. Door Frame and Gasket |
| 3. Arc extinguishing chamber | 12. Auxiliary contact | 21. Phase Barrier |
| 4. Three-position lock | 13. Secondary wiring terminal | 22. Power Module |
| 5. Crank padlock | 14. Mechanical interlock | 23. Relay Module |
| 6. Operation Mechanism | 15. Key lock | 24. Grounding Current Transformer |
| 7. Intelligent controller | 16. Mounting plates of Fixed type | 25. External Transformer of Phase N |
| 8. Motor Mechanism | 17. Fixed-type ACB | 26. Leakage Current Transformer |
| 9. Under-voltage release | 18. Crank | |