

Air Circuit Breaker

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Claire

SJKW1



*Product Description

Designed for 50Hz AC distribution networks (up to 690V, 200A-6300A), this breaker provides overload, short-circuit, undervoltage, and ground-fault protection. Its intelligent selective protection enhances power reliability, while open communication interfaces enable remote control for automation systems. Rated for altitudes $\leq 2000\text{m}$ (8kV impulse withstand voltage), it also functions as an isolator without controllers. Combines precision protection with smart grid compatibility.

*Type Designation

SJKW1- ① / ② + ③ installation + ④ control unit + ⑤ common use accessory + ⑥ optional accessory

① rated current in scope of frame size

1600 type	200A,400A,630A,800A,1000A,1250A,1600A
2000 type	630A,800A,1000A,1250A,1600A,2000A
3200 type	2000A,2500A,3200A
4000 type	2500A,3200A,4000A
6300 type	4000A,5000A,6300A

② Number of poles:3-default;4-4 pole

③ Installation

Fixed type-horizontal,vertical

Drawout type-horizontal,vertical

④ Intelligent controller

M type

2M type:digital display,over-current protection (overload,short delay,instantaneous),4P or 3P+N have earthing protection.

3M type:LCD display,over-current protection(overload,short delay,instantaneous),4P or 3P+N have earthing protection.

H type

2H type:communication function,digital display,over-current protection(overload,short delay,instantaneous),4P or 3P+N have earthing protection.

3H type:communication function,LCD display,over-current protection (overload,short delay,instantaneous),4P or 3P+N have earthing protection.

⑤ Common use accessory

Shunt release-AC220V/230V,AC380V/400V,DC220V,DC110V

Undervoltage release-AC220V/230VAC380V/400V,it is classified to instantaneous type and time-delay type.

Closing electromagnet-AC220V/230V,AC380V/400V,DC220V,DC110V

Motor-driven energy-storage mechanism-AC220V/230V,AC380V/400V,DC220V,DC110V

Auxiliary contact-4a4b,2a6b,3a3bNote:a-normal open,b-normal close

⑥ Optional accessory

Mechanical interlock;

One circuit breaker(1lock+1key)

Two circuit breaker(steel cable interlock,connecting rod interlock,2lock+1key)

Three circuit breaker(3lock+2keys,connecting rod interlock)

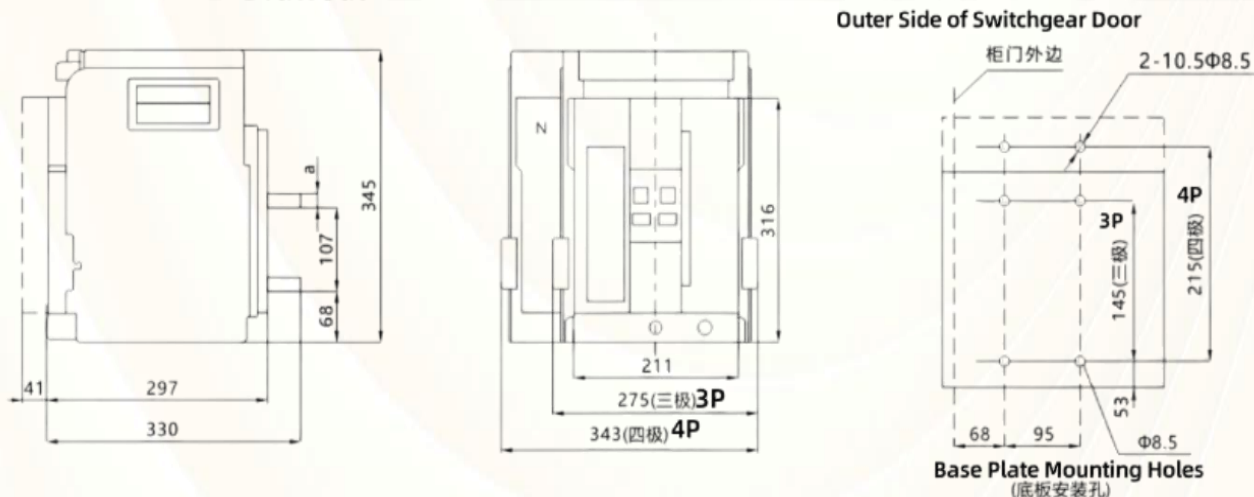
Automatic power transfer system

Current transformer connected with neutral lead

* Technical Parameters

Rated current of frame (Inm)		1600	2000	3200	4000	6300
Ue(V)		AC400V AC690V	AC400V AC690V	AC400V AC690V	AC400V AC690V	AC400V AC690V
Ui(V)		1000	1000	1000	1000	1000
Rated Frequency(HZ)		50HZ	50HZ	50HZ	50HZ	50HZ
Rated ultimate short-circuit breaking capacity (Icu, kA)O-CO	400V	65	85	100	100	120
	690V	50	50	65	65	80
Rated short-circuit making capacity nxIcu(ka)/cosφ	400V	143	176/0.2	220/0.2	220/0.2	264/0.2
	690V	105	105/0.25	143/0.2	143/0.2	187/0.2
Rated service short-circuit breaking capacity (Ics, kA) O-CO-CO	400V	55	50	65	65	80
	690V	42	40	50	50	70
Rated short-time withstand current Ic(kA) 1s,Time delay 0.4s, O-CO	400V	55	50	65	65/80 (MCR)	85/100 (MCR)
	690V	42	40	50	50/65 (MCR)	65/75 (MCR)

■ 万能式断路器(抽屉式)安装尺寸 SJKW1-1600 type 3P or 4P Installation and Overall dimensions Drawout



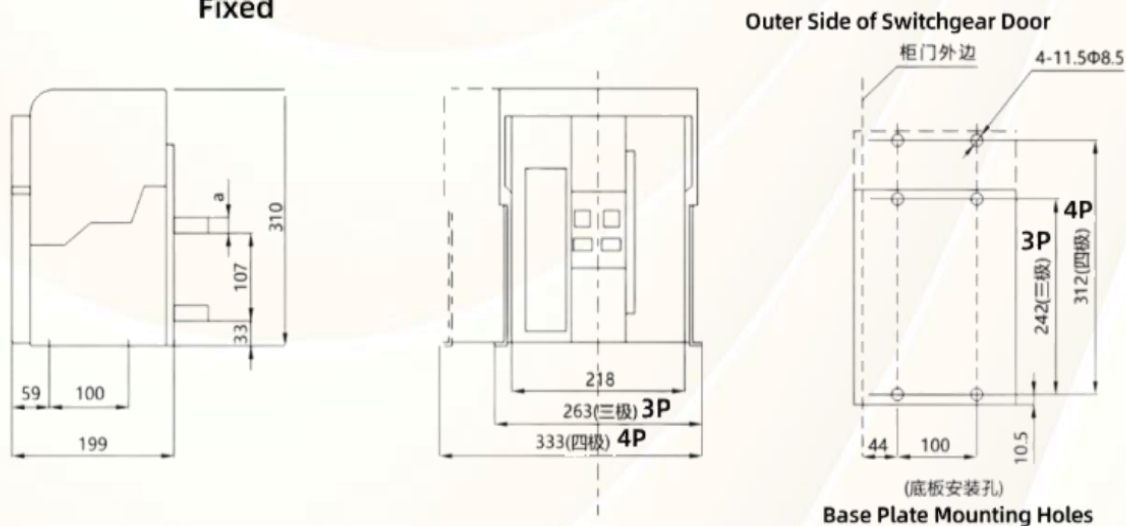
Type		
规格	In (A)	a (mm)
1600A	200~1000	10
	1250~1600	18



1600型铜排尺寸

1600Type Copper Busbar Dimensions

■ 万能式断路器(固定式)安装尺寸 SJKW1-1600 type 3P or 4P Installation and Overall dimensions Fixed



Type		
规格	In (A)	a (mm)
1600A	200~1000	10
	1250~1600	18



1600型铜排尺寸

1600Type Copper Busbar Dimensions

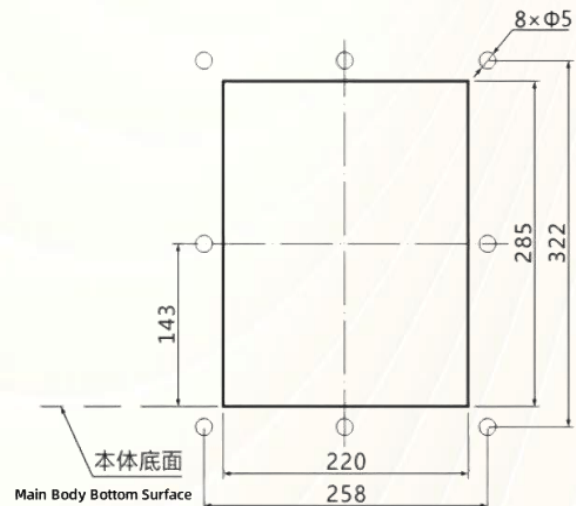
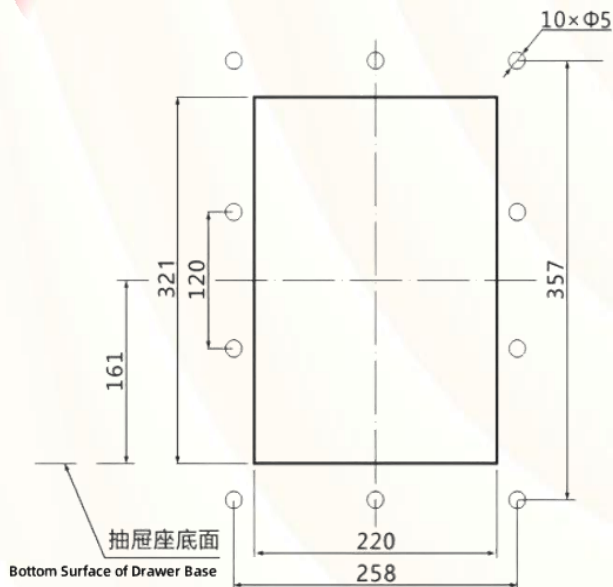
SJKW1-1600 type Door Frame Dimensions and Mounting Hole Pitch

门框开孔尺寸

抽屉式 Drawout

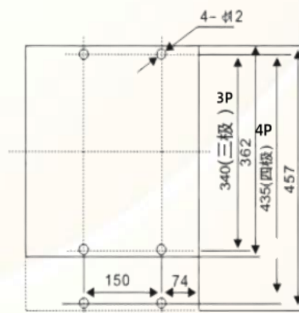
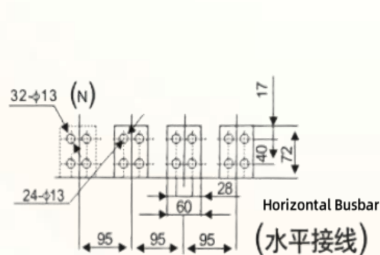
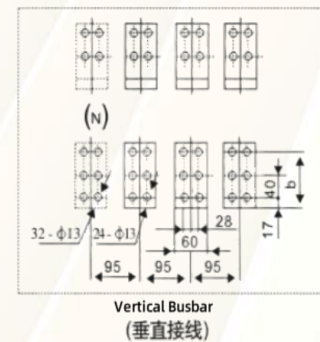
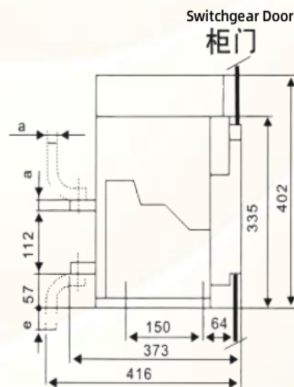
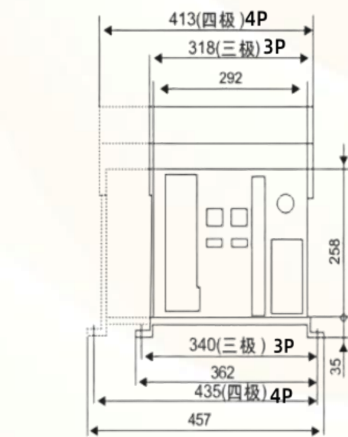
门框开孔尺寸

固定式 Fixed



◆ 固定式断路器安装尺寸，外形尺寸 Fixed circuit breaker installation and overall dimensions

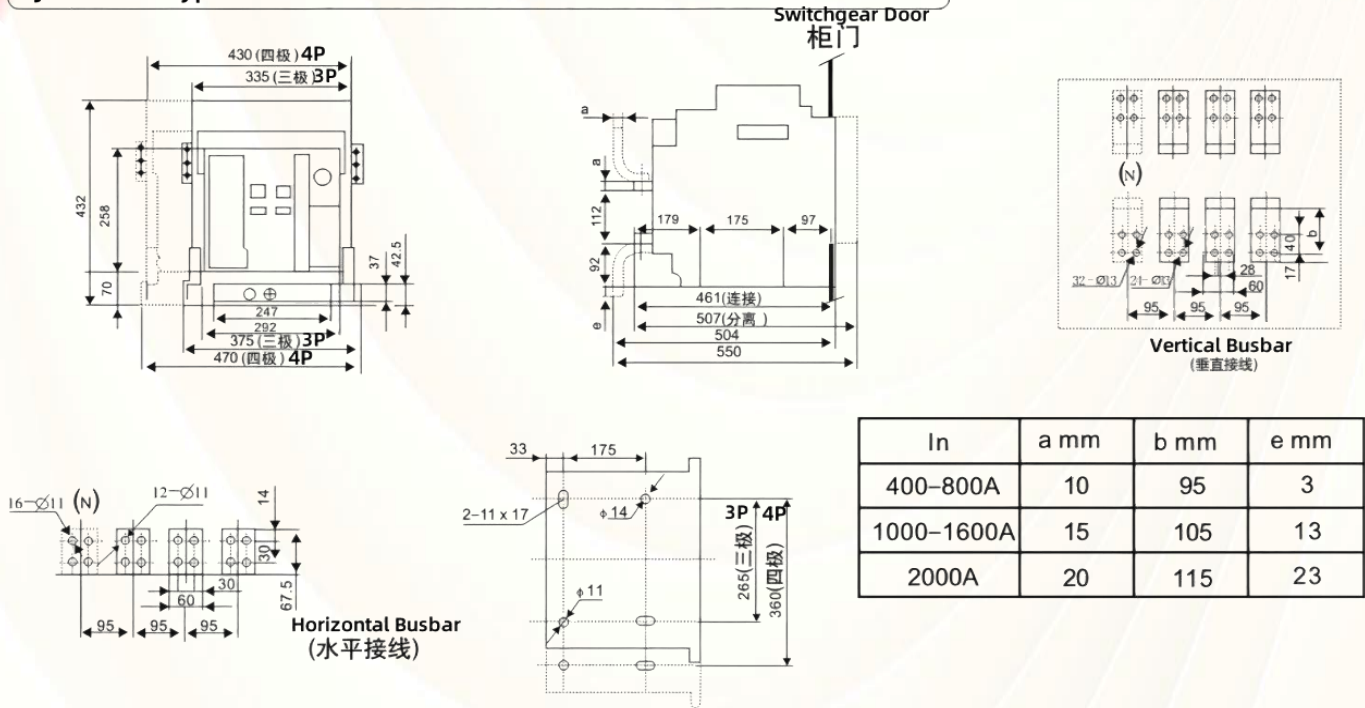
SJKW1-2000 type 3p or 4p



In	a mm	b mm	e mm
400-800A	10	95	38
1000-1600A	15	105	48
2000A	20	115	58

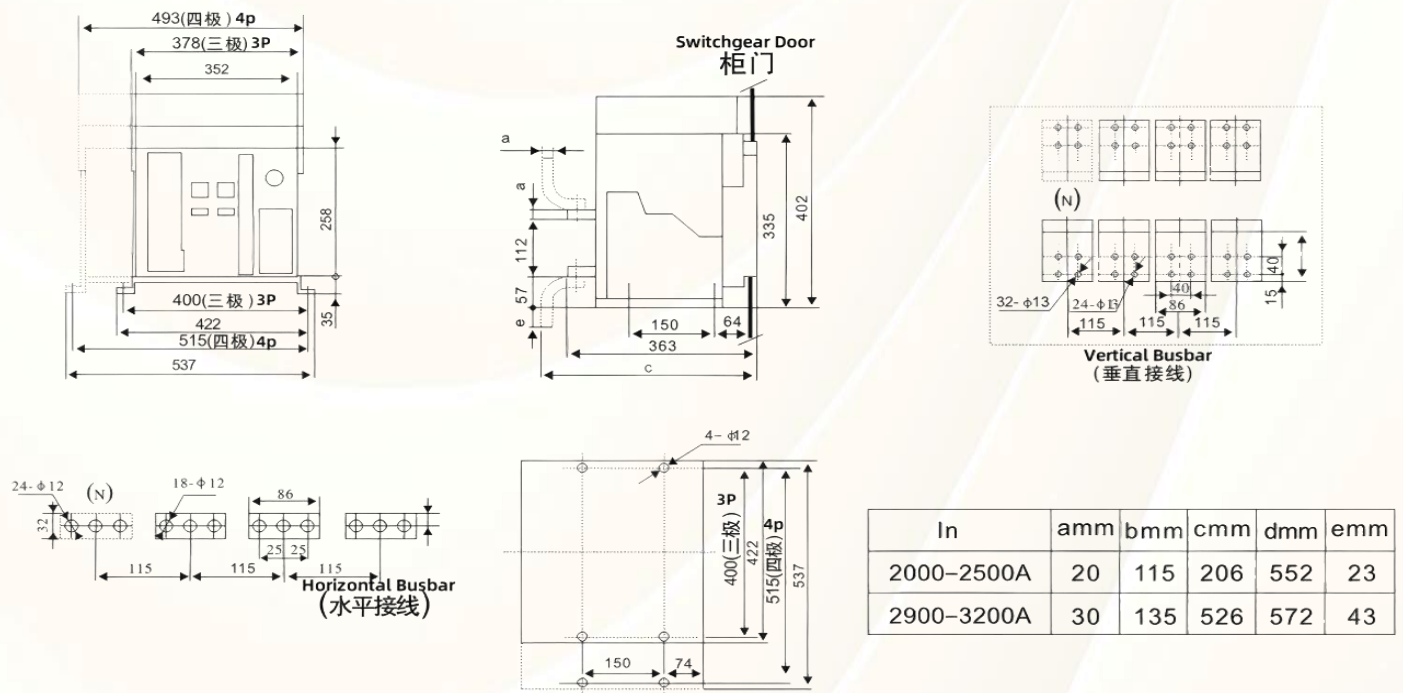
◆ 抽屉式断路器安装尺寸，外形尺寸 Drawout circuit breaker Installation and Overall dimensions

SJKW1-2000 type 3P or 4P



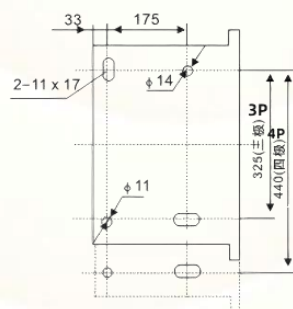
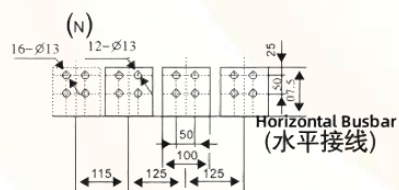
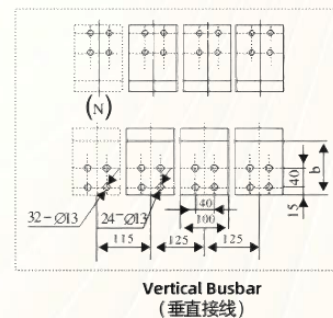
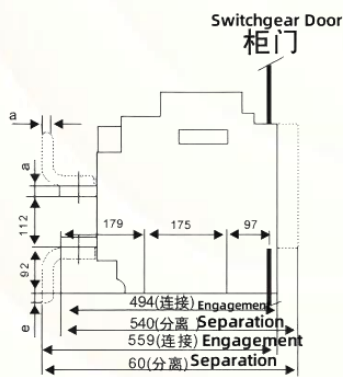
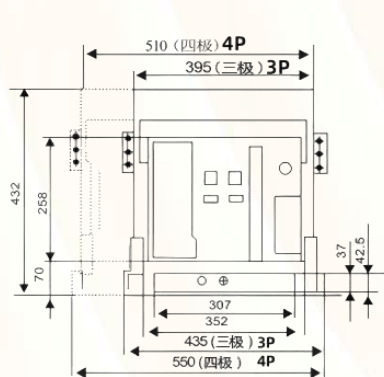
SJKW1-3200 type 3P or 4P Fixed circuit breaker Installation and Overall dimensions

(SJKW1 -3200、3200/4)固定式断路器安装尺寸及外形尺寸



SJKW1-3200 type 3P or 4p Drawout circuit breaker Installation and Overall dimensions

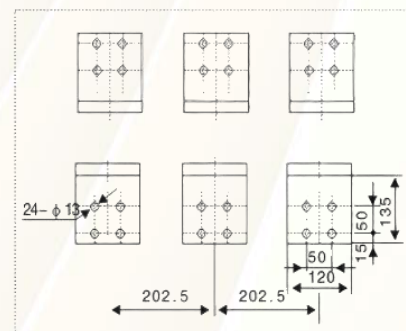
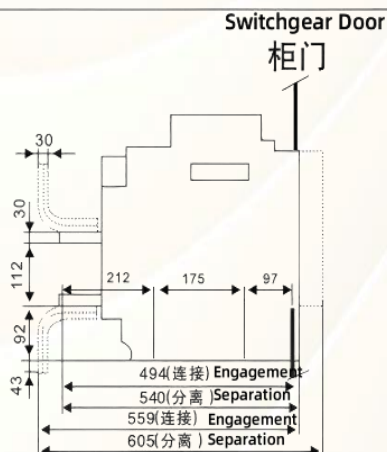
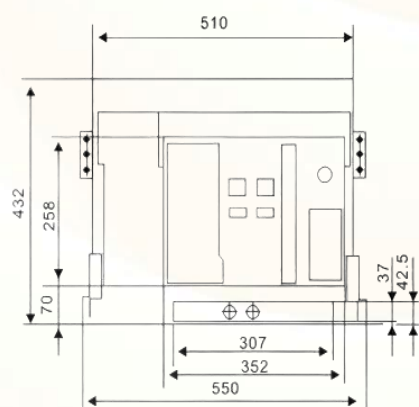
(SJKW1-3200、3200/4) 抽屉式断路器安装尺寸及外形尺寸



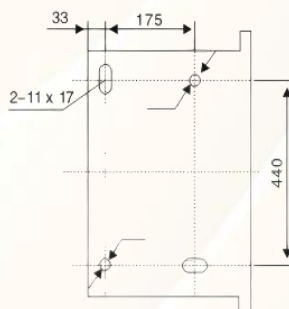
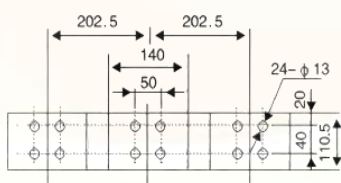
In	a mm	b mm	e mm
2000A, 2500A	20	115	58
2900A, 3200A	30	135	78

SJKW1-4000 type 3P Drawout circuit breaker Installation and Overall dimensions

(SJKW1-4000) 抽屉式断路器安装尺寸及外形尺寸



Vertical Busbar
(垂直接线)

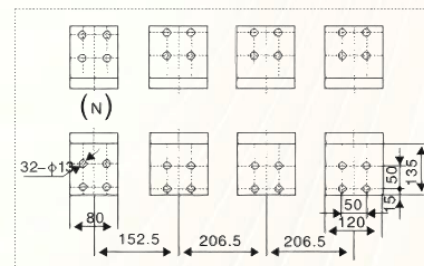


Note: The horizontal distance from panel center to circuit breaker center is 57.5

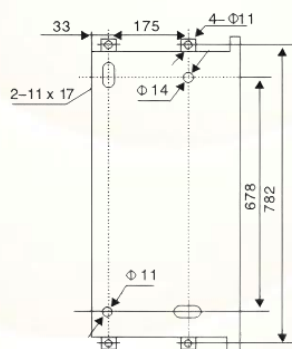
注: 面板中心至断路器中心

左右尺寸为57.5

SJKW1-4000/4 type Drawout circuit breaker Installation and Overall dimensions
(SJKW1-4000/4) 抽屉式断路器安装尺寸及外形尺寸



Vertical Busbar
(垂直接线)

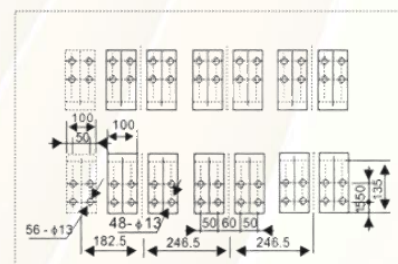


Note: The horizontal distance from panel center to circuit breaker center is 206.5

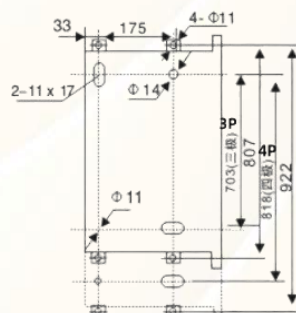
注:面板中心至断路器中心

左右尺寸为206.5

SJKW1-6300 type 3p or 4p In=4000/5000 Drawout circuit breaker Installation and Overall dimensions
(SJKW1-6300、6300/4In=4000、5000)抽屉式断路器安装尺寸及外形尺寸



Vertical Busbar
(垂直接线)



Note: The horizontal distance from panel center to circuit breaker center is 189(3P),246.5(4P)

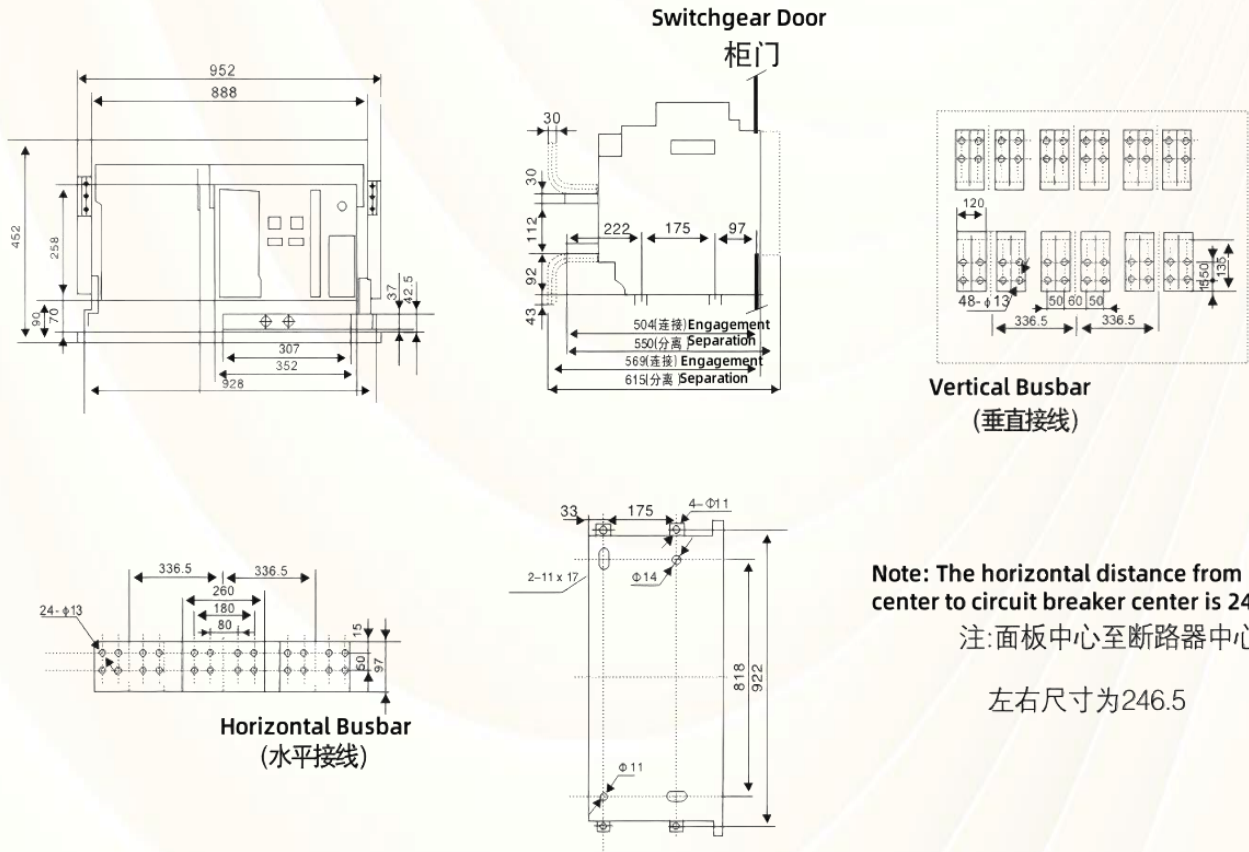
注:面板中心至断路器中心

左右尺寸为189(三极)

246.5 (四极)

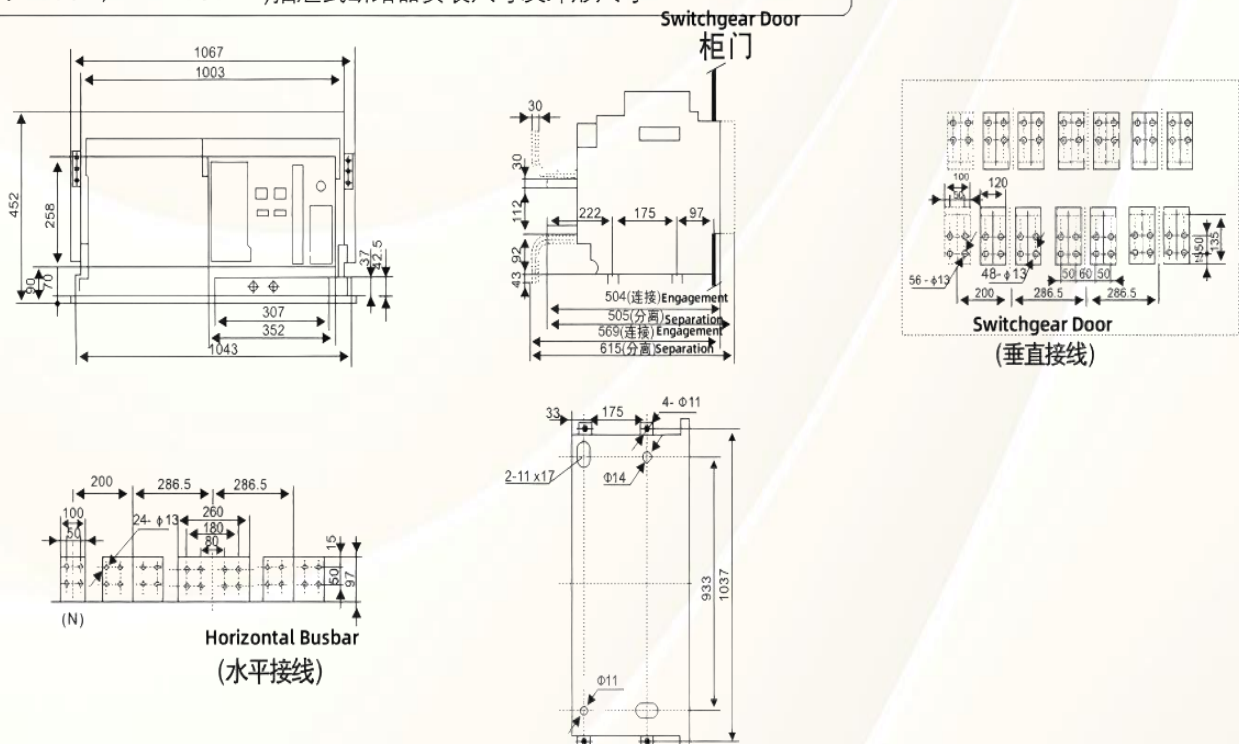
SJKW1-6300 type 3P Drawout circuit breaker Installation and Overall dimensions

(SJKW1-6300、In=6300A)抽屜式断路器安装尺寸及外形尺寸

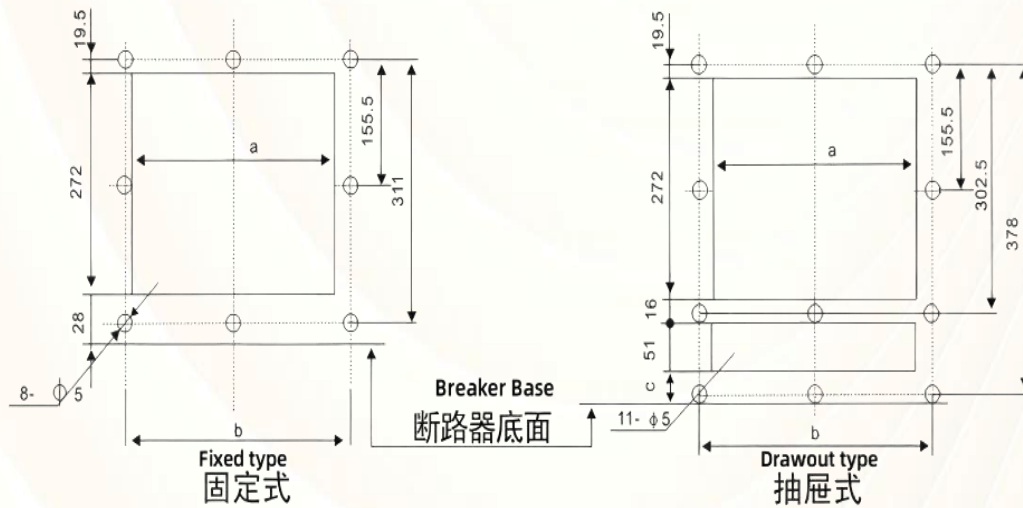


SJKW1-6300 type 4P In=6300A Drawout circuit breaker Installation and Overall dimensions

(SJKW1- 6300 /4 In=6300A)抽屜式断路器安装尺寸及外形尺寸



门框尺寸及安装孔孔距 Door Frame Dimensions and Mounting Hole Pitch



Inm	a nm	b nm	c nm
2000	306	345	0
3200、4000/3	366	405	0
4000/4	306	345	20
6300	366	405	20