Noalk

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ZEx9ASDDC202204CN

NOGIK

DC Isolating Switch

User Manual



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This equipment is to be installed only by qualified professionals. The manufacturer assumes no liability for any adverse consequences resulting from installation methods other than those specified in this manual.

- ★ Installation should be carried out in accordance with the specified installation conditions.
- ★ It is prohibited to install this product in an environment with flammable and explosive gases or damp environment. Do not handle the product with wet hands..
- ★ Do not touch the conductive part of the product while it is in operation.
- ★ Ensure th power is turn off before installing, maintaining or servicing the product.
- ★ Allow sufficient space and maintaining a safe distance around the product during installation.
- ★ Do not install product in a corrosive environment where metal parts can get corroded and insulation damaged.
- ★ Ensure appropriate cable / bus-bar size corresponds to load specification when installing the product.
- ★ To avoid any accidents, please follow the installation recommendations in this manual.
- ★ After unpacking, inspect the product for any damages (due to handling) to ensure it's integrity before use.
- ★ Failure to follow the above instructions may result in equipment damage and pose a risk to personal safety.

Environmental Protection

To protect the environment, please dispose of the product responsibly when it reaches the end of its lifecycle. Treat it as industrial waste or take it to a designated recycling station in compliance with relevant national regulations for classification, dismantling, recycling, and reuse.

Overview



No.	Item
1	Terminal blocks for electrical auxiliaries
2	Brand
3	Opening pushbutton(O)
4	Main contact position indicator a Opened b Closed
5	Racking handle socket
6	Disconnected, test & connected position indicator
7	Racking handle & storage space
8	Closing pushbutton(I)
9	Spring charging handle

No.	Item
10	Rating plate
11	a Charged b Discharged
12	Ready-to-close indicator OK a Ready b Not ready
13	Chassis locking by padlocks
14	Position release button

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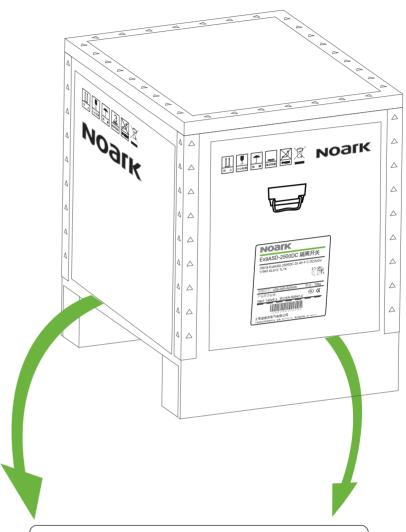
Overview



No.	Item				
1	Terminal blocks for electrical auxiliaries				
2	Brand				
3	Opening pushbutton (O)				
4	Main contact position indicator a Opened bClosed				
5	Ready-to-close indicator a Ready bNot ready				
6	Mounting side plate(Left)				

No.	Item				
7	Closing pushbutton(I)				
8	Spring charging handle				
9	Rating plate				
10	Spring charged / discharged indicator a Charged b Discharged				
11	Mounting side plate(Right)				

Package identification



Noglk

Ex9ASD-2500DC Isolated Switch

18818 Ex9ASD 2500DC 25 4P F C DC220V 17945 KLK12 1L1K

Dimenssion: 430×350×520mm

mm Weight: 70kg

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GB/T 14048.3 IEC/EN 60947-3

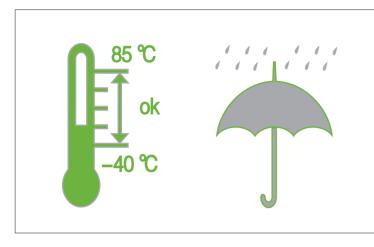
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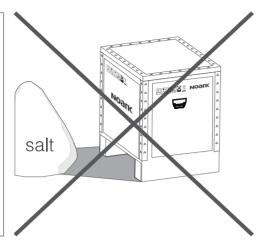


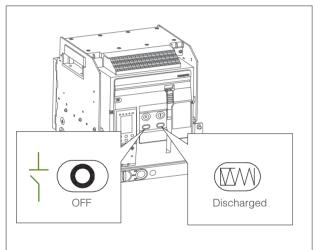
NOARK Electric (Shanghai) Co. Ltd. Add:No.3857 Sixian Road, Songjiang district, Shanghai, China 电话: 021-3779 1111 service line: 400 1092 111

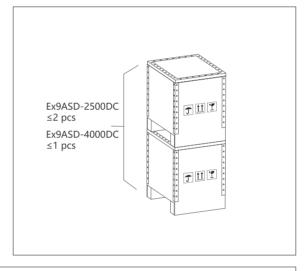
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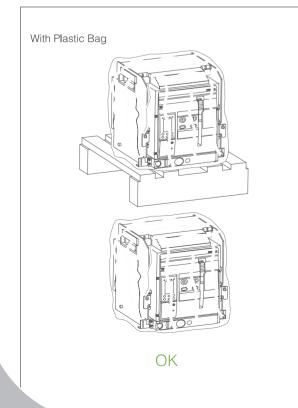
Storage

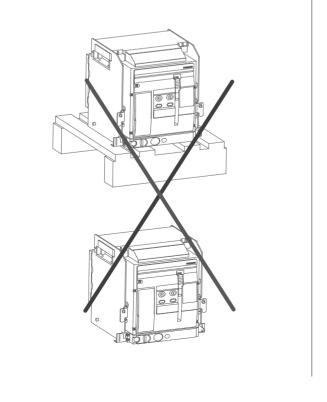






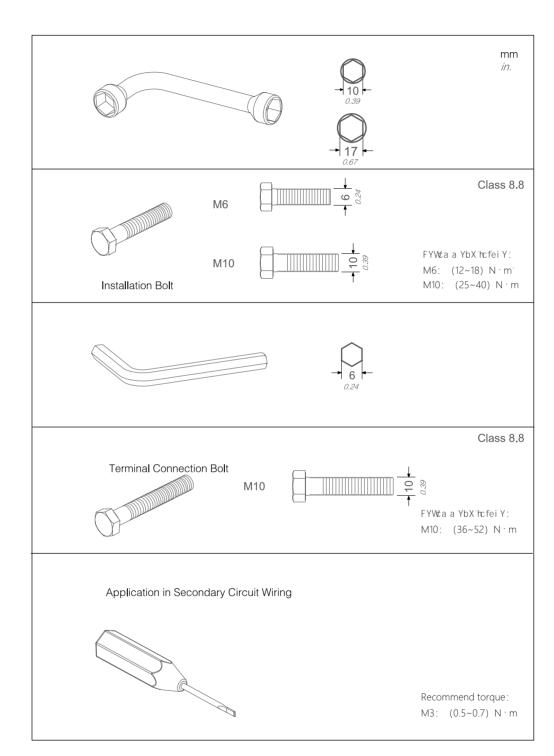




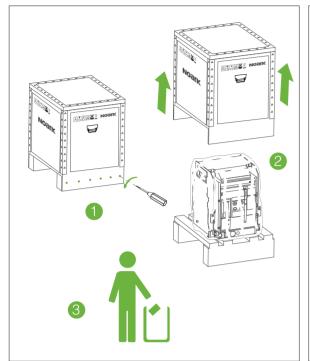


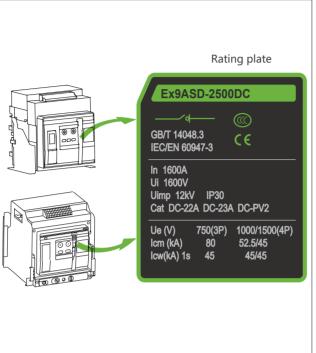
Tool

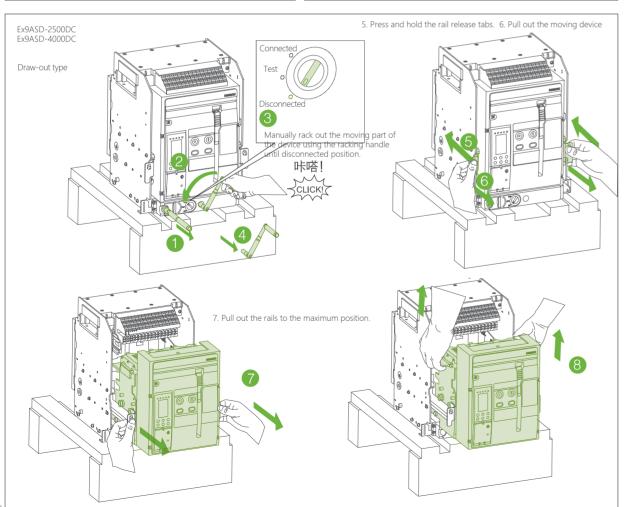
Angled socket wrench, hex key, screwdriver



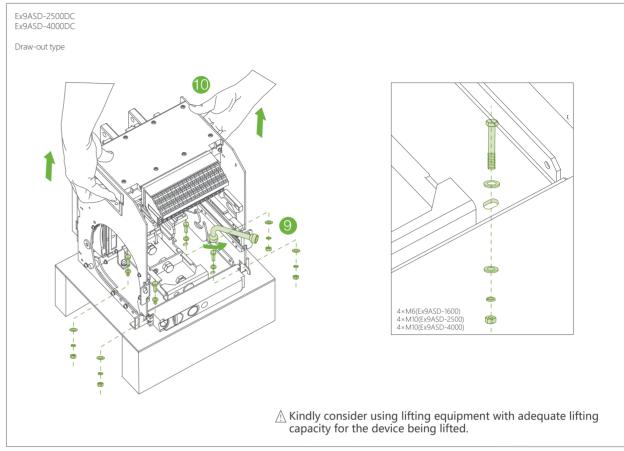
Unpacking

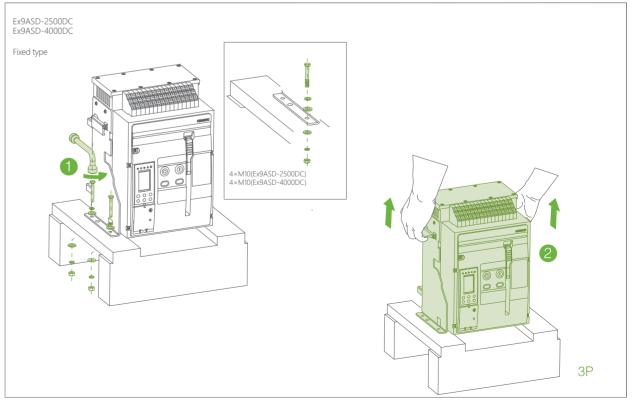






Unpacking



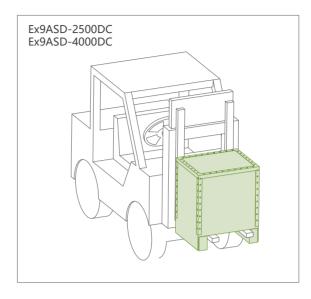


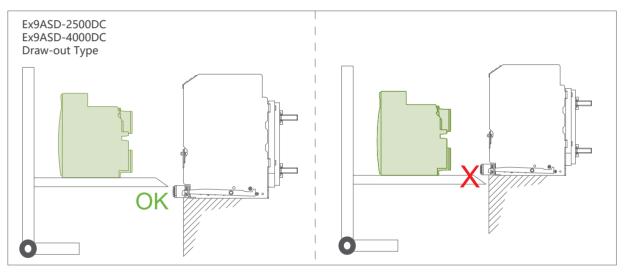
Installation manual / 安装手册

Transportation

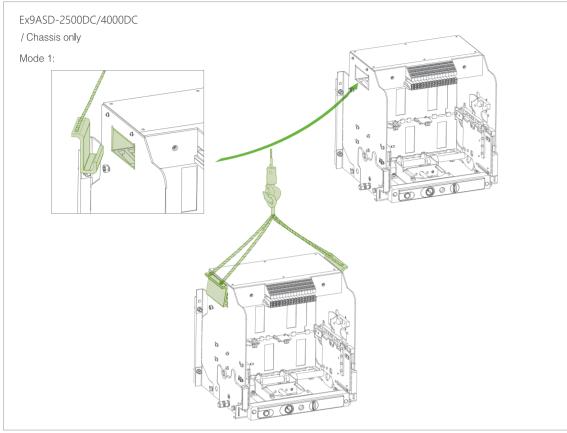
		Ex9ASD-2500DC		Ex9ASD	-4000DC
		630A~1600A 2000A~2500A		1250A~2500A	3200A~4000A
3P	Fixed	53kg	55kg	71kg	75kg
32	Draw-out Type	86kg	93kg	102kg	108kg
4P	Fixed	58kg	61kg	85kg	90kg
4P	Draw-out Type	108kg	113kg	140kg	153kg

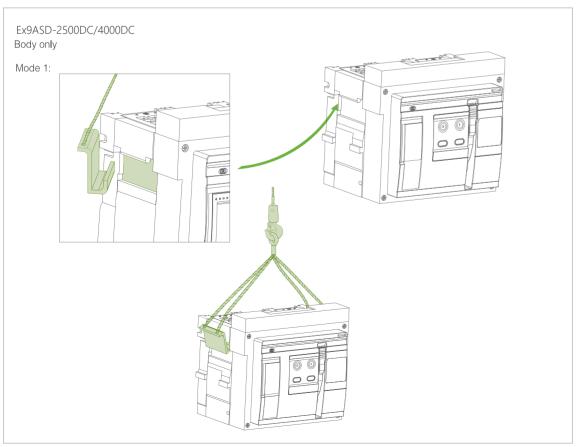
Transportation





Transportation





Installation

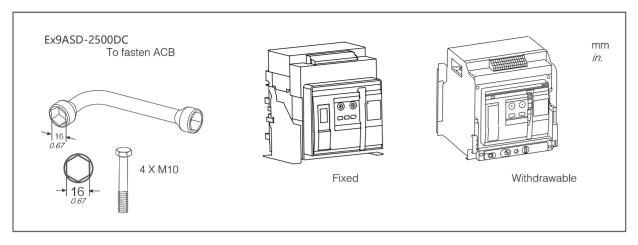
Safety distance

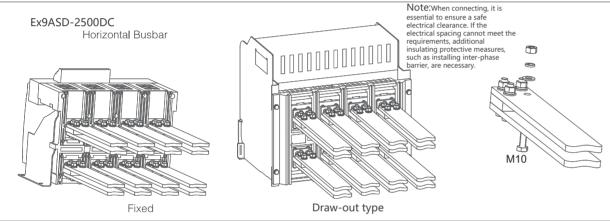
Safety distance (mm)	Ex9ASD-2500DO	Ex9ASD-2500DC/4000DC Fixed type		Ex9ASD-2500DC/4000DC Draw-out type		
	А	В	А	В		
Insulated	0	0	0	0		
Uncharged metal	0	0	0	0		
Live conductor	100	60	100	60		

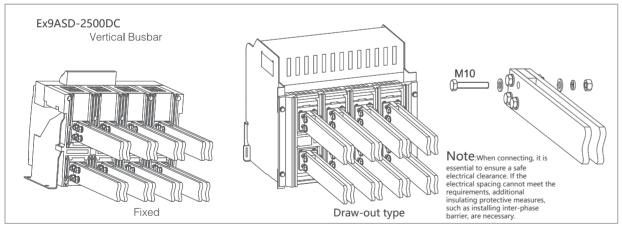
		l		
Fixed		B		
Draw-out type		B	B	

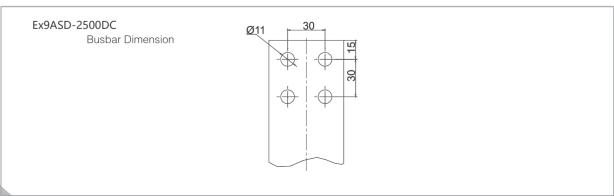
0 Installation manual / Installation manual

Installation

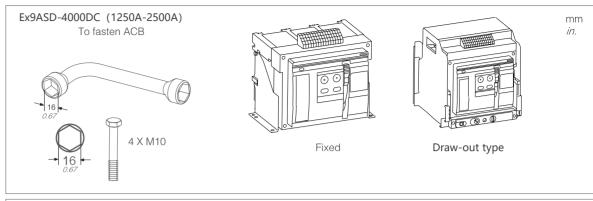


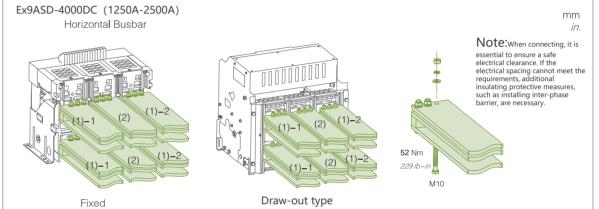


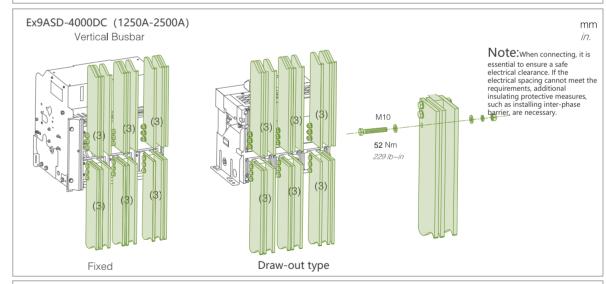


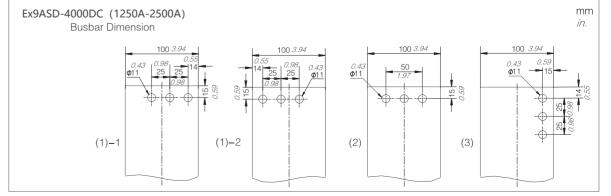


Installation



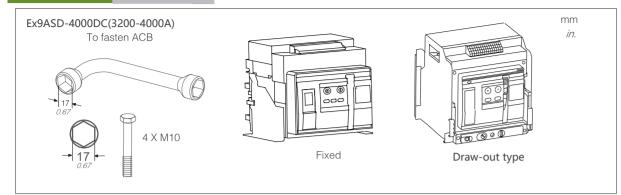


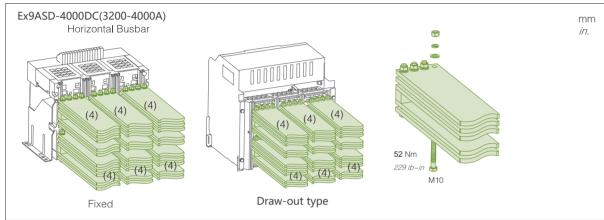


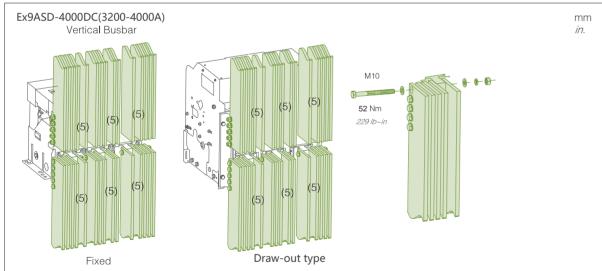


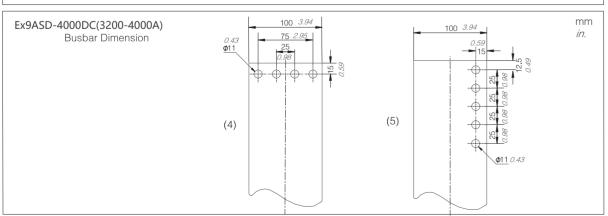
2 Installation manual / 安装手册

Installation

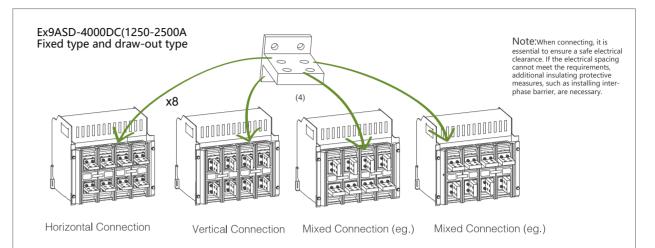


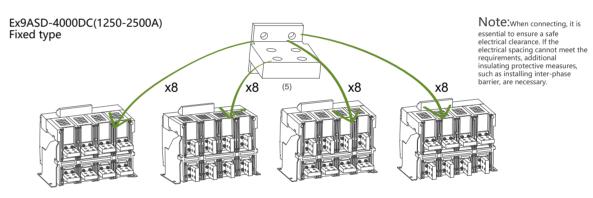






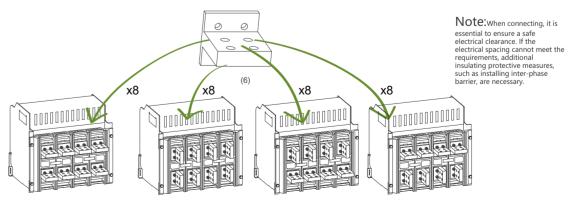
Power connections





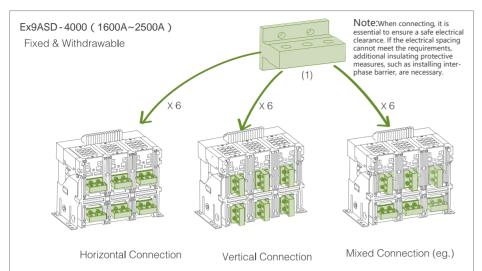
Horizontal Connection Vertical Connection Mixed Connection (eg.) Mixed Connection (eg.)

Ex9ASD-4000DC(1250-2500A)Draw-out type

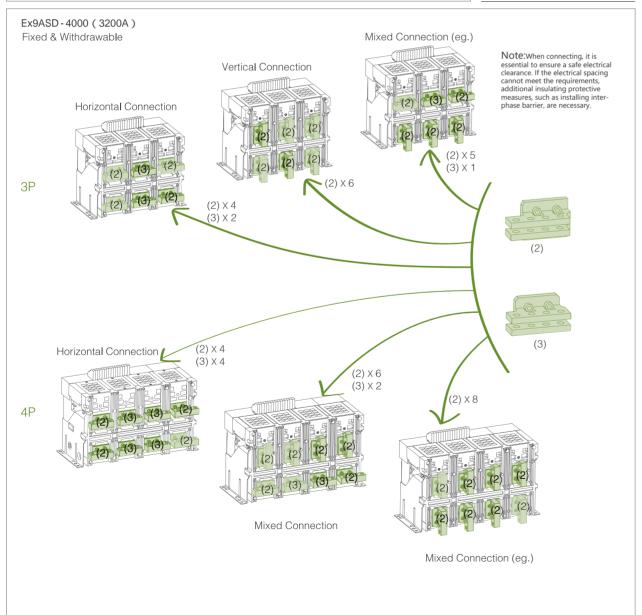


Horizontal Connection Vertical Connection Mixed Connection (eg.) Mixed Connection (eg.)

Power connections



NO.	Rated current	Thickness
(1)	1600A~2500A	25mm
(2)	3200A~4000A	10mm
(3)	3200A~4000A	10mm



Connection type

The DC insulation switch connection diagram as below:

	Type A	Туре В	Type C	Type D
Connection diagram	+ - O	+ -	+ Load -	+ Load
up Connection	Horizontal connection	Horizontal connection	Horizontal connection Vertical connection	Horizontal connection Vertical connection
Down Connection	Vertical connection	Vertical connection	Horizontal connection Vertical connection	Horizontal connection Vertical connection

Connection type

Recommend busbar

The material is bare copper, the unit of thick and width is mm.

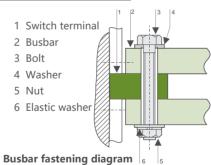
Recommend busbar for Isolated switch

		Ambient temperature (-5~+40)℃					
Current frame	Rated current In (A)	copper busbar specification					
Iraine		Width	Thickness	Quatity	Specification		
	630~800	50	5	2	50×5×2		
	1000	60	5	2	60×5×2		
2500	1250	60	8	2	60×8×2		
2500	1600	60	10	2	60×10×2		
	2000	80	10	2	80×10×2		
	2500	100	10	2	100×10×2		
	1250	60	8	2	60×8×2		
	1600	80	8	2	80×8×2		
4000	2000	80	10	2	80×10×2		
	2500	100	10	2	100×10×2		
	3200	100	10	4	100×10×4		
	4000	100	10	5	100×10×5		

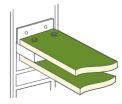
Note

Busbar Fastening

The proper fastening of busbars depends on the appropriate torque of bolts and nuts. Torque that is too high or too low is not allowed. Excessive torque can cause the bolt to strip, failing to serve its purpose of securing; insufficient torque can result in inadequate tightening of the bolt and nut, also failing to secure properly, leading to excessive temperature rise. For the connection of isolating switchs, steel bolts and nuts with a strength grade of \ge 8.8 are used, with a tightening torque of 40 to 45 N.m.



Recommend installation method







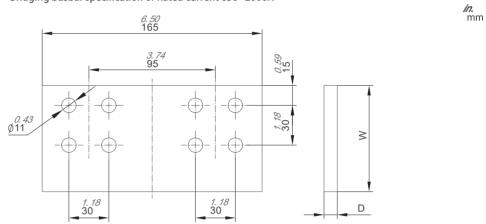
Recommend Busbar installation method

Connection type

Bridging Busbar

The bridging busbar is an optional accessory, with specific specifications shown below. If customers manufacture it separately, they should not use dimensions or craftsmanship below the manufacturer's recommendations. If the bridging busbar is directly connected in series or parallel with the isolating switch busbar, the continuous current of the isolating switch may not be able to meet the full load operation at the rated current due to heat generation. If the short circuit or parallel connection is made more than 1 meter away from the busbar, the isolating switch can operate at full load.

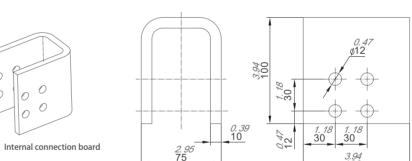
Bridging busbar specification of Rated current 630~2000A

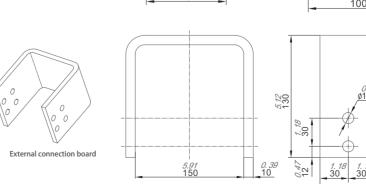


Rated current	Deepth	Width	Quantity	Specification	Technical requirement
630A ~ 800A	10mm	50mm	2	50×10×2	Silver coating, thickness \geq 3 μ
1000A ~ 1250A	10mm	60mm	2	60×10×2	Silver coating,thickness ≥ 3 µ
1600A ~ 2000A	10mm	80mm	2	80×10×2	Silver coating, thickness $\geq 3 \mu$

Specification of rated current 2500A bridging busbar:

The bridging busbar installation is vertical type and the surface with silver coating $6 \mu_o$





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a,The table specifies the copper busbar dimensions used for an isolating switch operating in an ambient temperature of 40° C under open installation conditions, meeting the heating requirements stipulated in GB/T 14048.3. For ambient temperatures exceeding 40° C, consider increasing the number of copper busbars or reducing the current rating.

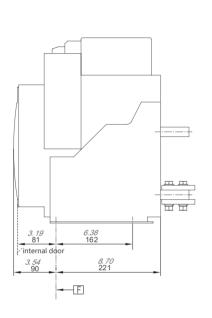
b, The maximum allowable temperature for the copper busbar must not exceed 120° C. After installing the busbar according to the recommendations in the table above, ensure that the electrical clearance between adjacent phases of the isolating switch is not less than 18 mm.

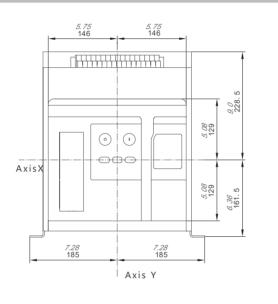
c,After installing the busbar, the electrical clearance between the tightening bolts of the upper and lower busbars must be no less than 20mm.

d, After installing the switch, the safety distance between different potential bodies and between live bodies and ground must not be less than 18mm.

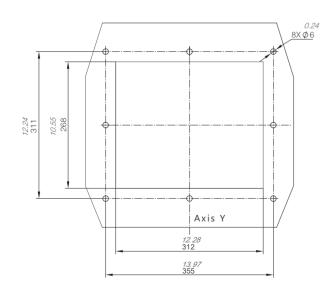
Ex9ASD-2500DC

Ex9ASD-2500DC fixed type(connection type A、B)

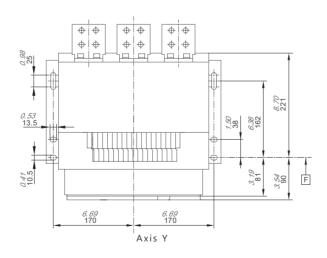




Installation dimension



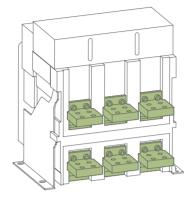




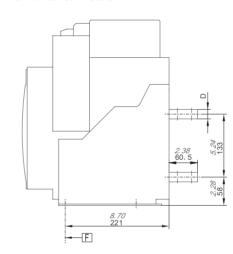
Fixed Horizontal Position

Installation Dimension

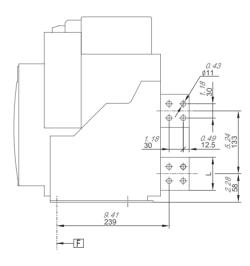
Ex9ASD-2500DC Fixed type (connection type A、B) Dimension without bridging busbar



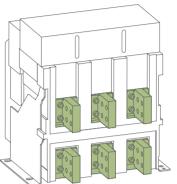
Horizontal connection

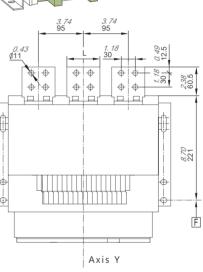


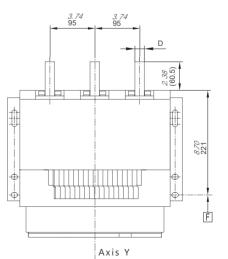
Vertical connection



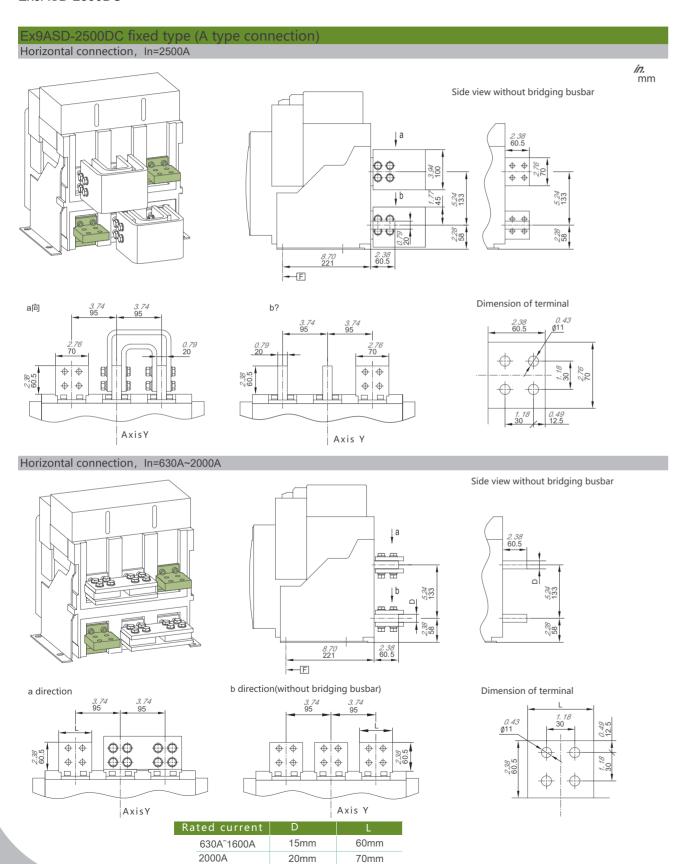
Rated current	D	L
630A~1600A	15mm	60mm
2000A~2500A	20mm	70mm





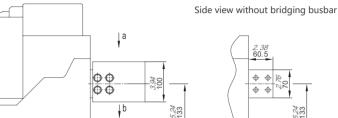


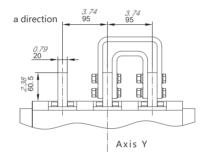
Ex9ASD-2500DC

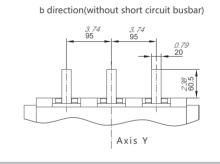


Installation Dimension

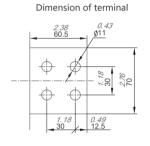
Vertical connection, In=2500A





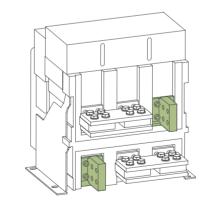


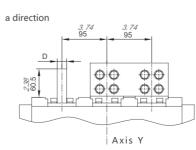
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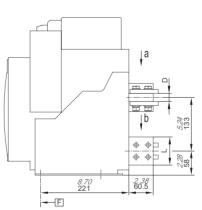


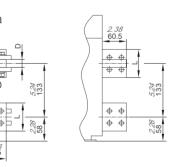
Side view without bridging busbar

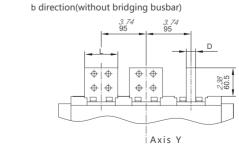
Vertical connection, In=630A~2000A









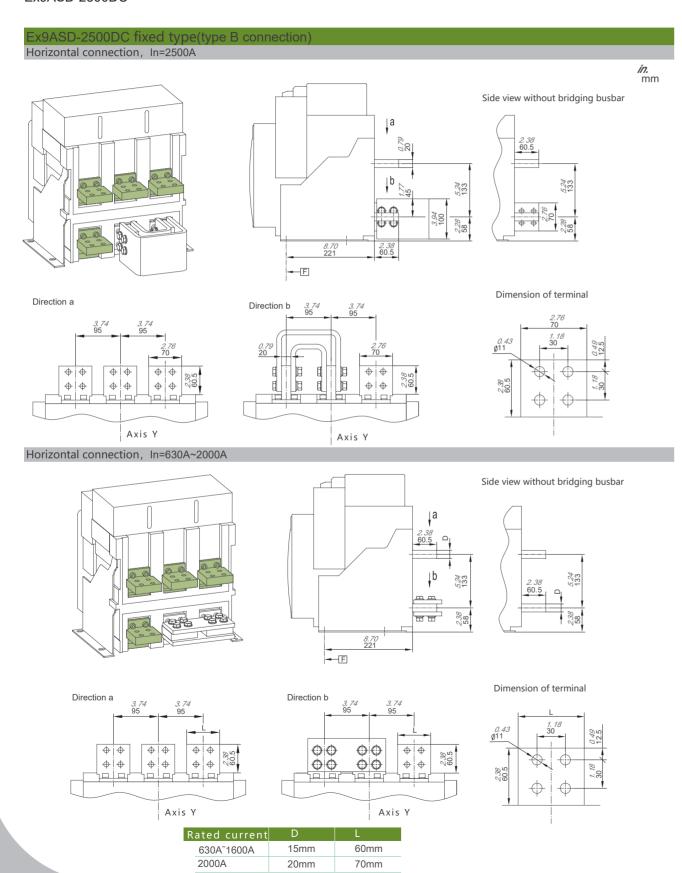


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	1. 18 30	<i>y</i> -	<i>0.49</i> 12.5	

Dimension of terminal

Rated current	D	L
630A~1600A	15mm	60mm
2000A	20mm	70mm

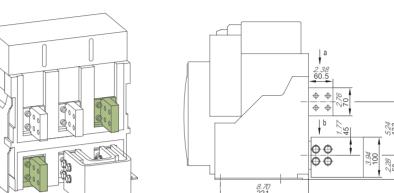
Ex9ASD-2500DC



Installation Dimension

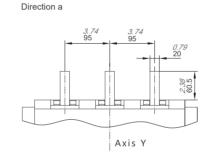
Ex9ASD-2500DC fixed type (type B connection

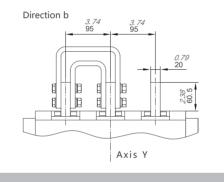
Vertical connection, In=2500A

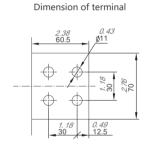


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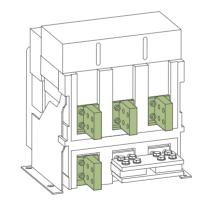
Side view without bridging busbar

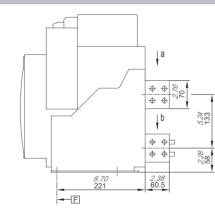


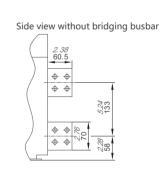


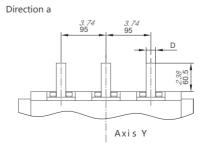


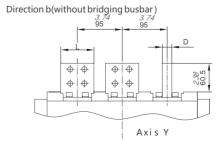
Vertical connection, In=630A~2000A











2.38 0.43 60.5 011	
1. 18 30 12.5	_

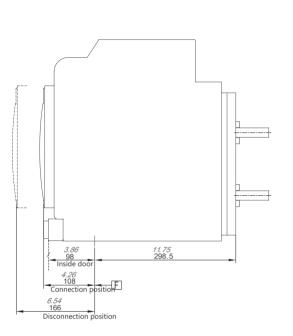
Dimension of terminal

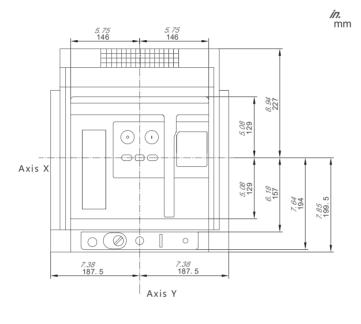
Rated current	D	L
630A~1600A	15mm	60mm
2000A	20mm	70mm

Ex9ASD-2500DC

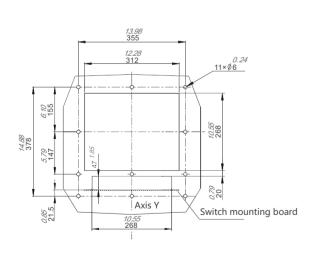
Ex9ASD-2500DC Draw-out type(type A、B connection)

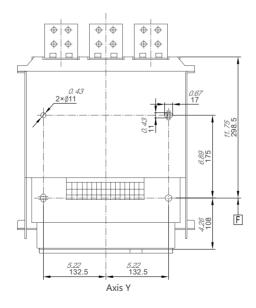
Overall dimension





Installation dimension





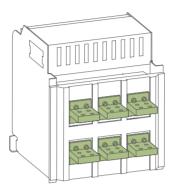
Panel Perforating Size

Fixed Horizontal Position

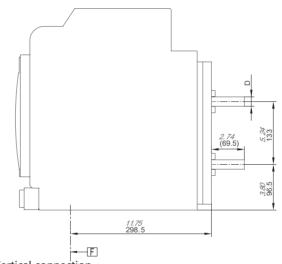
Installation Dimension

Ex9ASD-2500DC Draw-out type(Type A、B connection

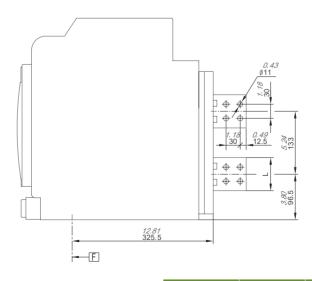
Busbar dimension without bridging busbar



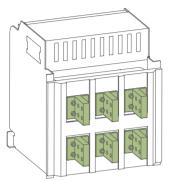
Horizontal connection

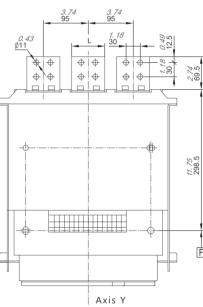


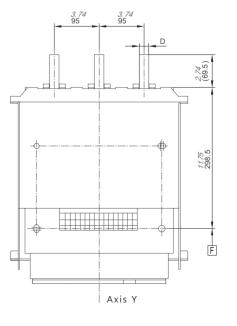




Rated current	D	L
630A~1600A	15mm	60mm
2000A~2500A	20mm	70mm



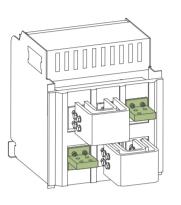


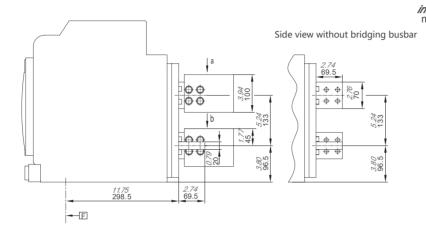


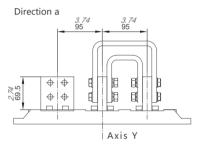
Ex9ASD-2500DC

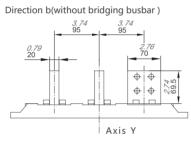
Ex9ASD-2500DC Draw-out type(type A connection)

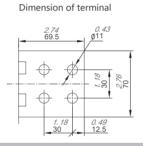
Horizontal connection, In=2500A





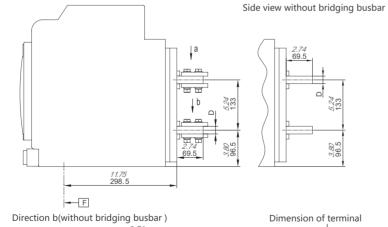


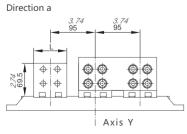


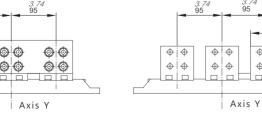


Horizontal connection, In=630A~2000A







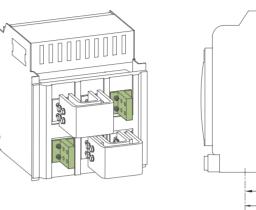


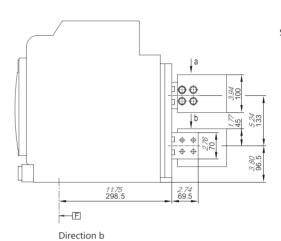
D	L
15mm	60mm
20mm	70mm

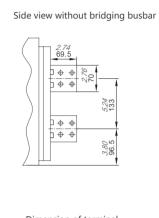
Installation Dimension

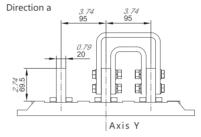
Ex9ASD-2500DC Draw-out type(type A connection)

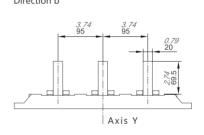
Vertical connection, In=2500A

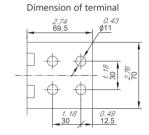




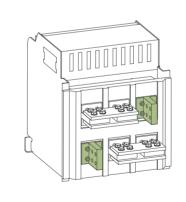


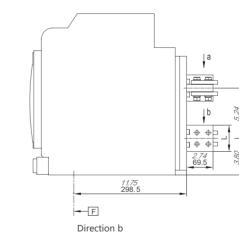


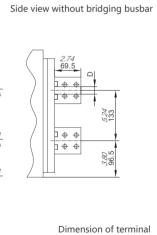


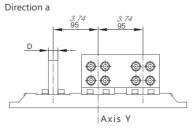


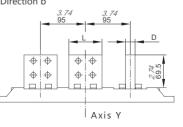
Vertical connection,In=630A~2000A











-	2.74 69.5	Ø11 Ø11	
	+ <i>\$</i>	30	_
	1. 18 30	<i>0.49</i> 12.5	

Rated curre	חל ט	L
630A~1600A	15mm	60mm
2000A	20mm	70mm

Ex9ASD-2500DC

Ex9ASD-2500DC Draw-out type(type B connection) Side view without bridging busbar 100 **→**F Direction a Direction b Dimension of terminal Axis Y Horizontal connection, In=630A~2000A Side view without bridging busbar F Direction a Direction b Dimension of terminal **0 0 0** 00 • • Axis Y Axis Y 15mm 60mm 630A~1600A

2000A

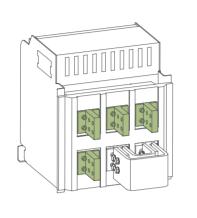
20mm

70mm

Installation Dimension

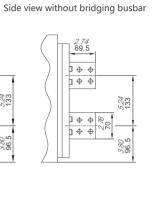
x9ASD-2500DC Draw-out type(type B connection)

Vertical connection, In=2500A

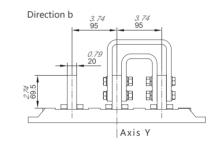


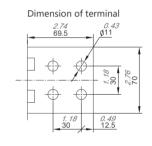
Direction a

-E

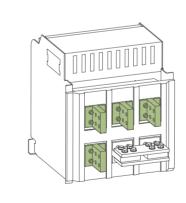


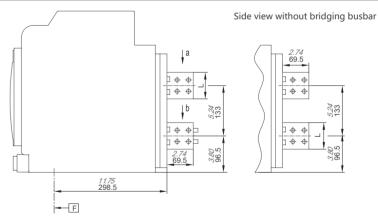
Axis Y

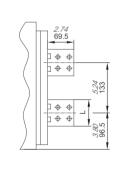


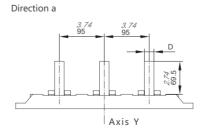


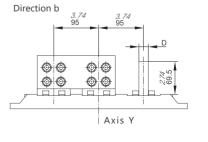
Vertical connection, In=630~2000A

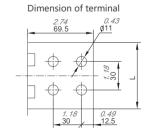










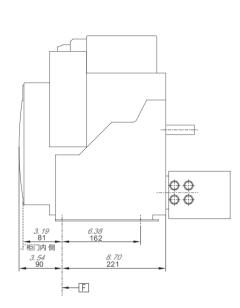


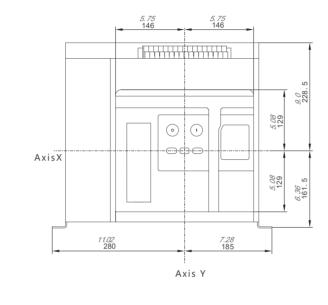
Rated current	D	L
630A~1600A	15mm	60mm
2000A	20mm	70mm

Ex9ASD-2500DC

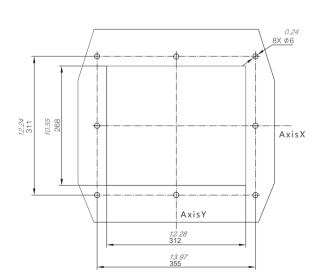
Ex9ASD-2500DC fixed type(type C, D connection)

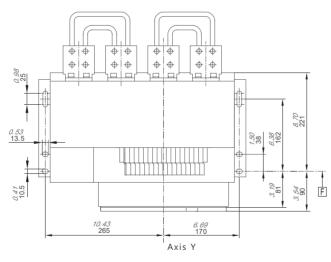






Installation dimension



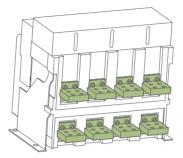


Panel Perforating Size

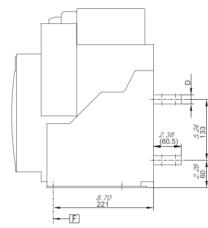
Fixed Horizontal Position

Installation Dimension

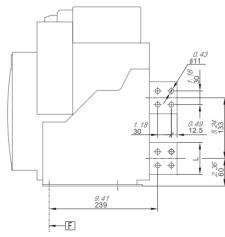
Installation dimension of busbar without bridging busbar

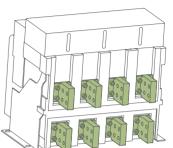


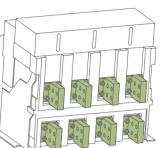
Horizontal connection

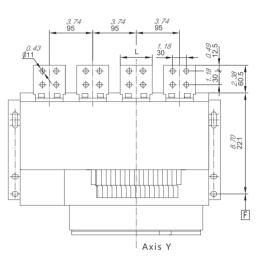


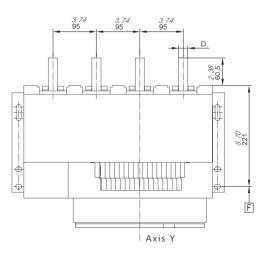
Vertical connection











Rate	ed current	D	L
	630A~1600A	15mm	60mm
	2000A~2500A	20mm	70mm

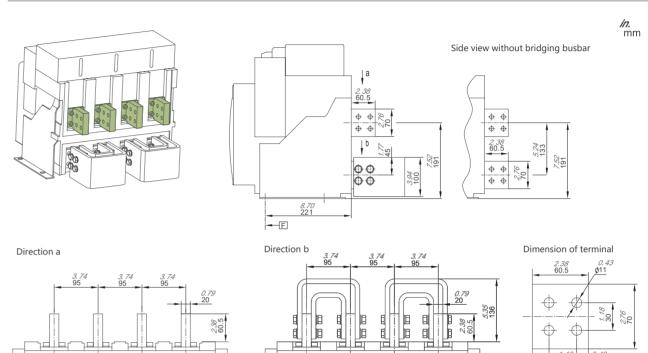
Ex9ASD-2500DC

Ex9ASD-2500DC fixed type(type C connection) Horizontal connection, In=2500A Side view without bridging busbar F Direction a Axis Y Axis Y Horizontal connection, In=630A~2000A Side view without bridging busbar **0 0 0 O** Axis Y 15mm 60mm 630A~1600A 2000A 20mm 70mm

Installation Dimension

Ex9ASD-2500DC fixed type(type C connection

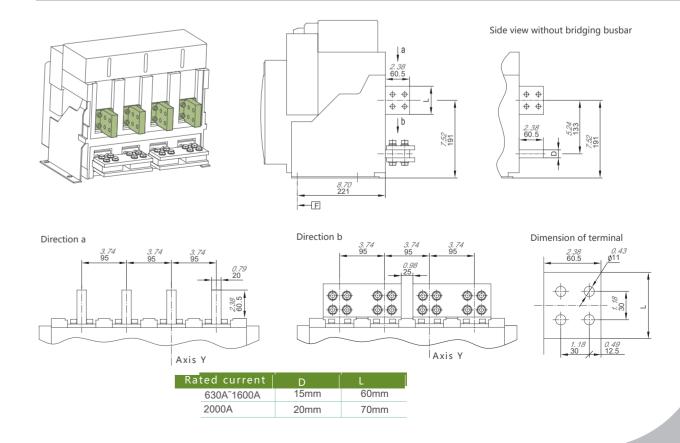
Vertical connection, In=2500A



| Axis Y

Vertical connection, In=630A~2000A

Axis Y



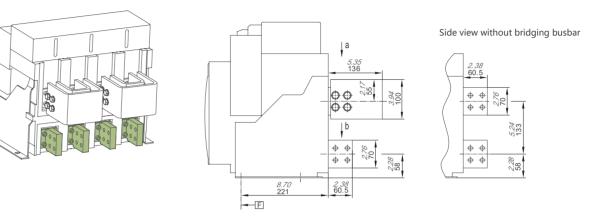
Ex9ASD-2500DC

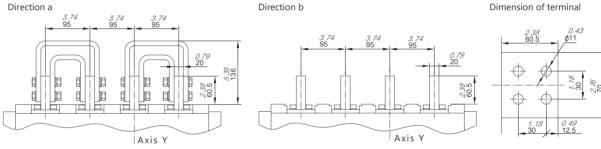
x9ASD-2500DC fixed type(type C connection) Horizontal connection, In=2500A Side view without bridging busbar F Direction b Direction a Axis Y Axis Y Horizontal connection, In=630A~2000A Side view without bridging busbar Direction a Direction b **\$ \$** Axis Y Axis Y 630A~1600A 15mm 2000A 20mm 70mm

Installation Dimension

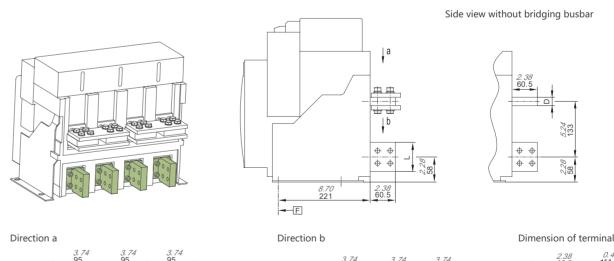
Ex9ASD-2500DC fixed type(type C connection)

Vertical connection, In=2500A





Vertical connection, In=630A~2000A

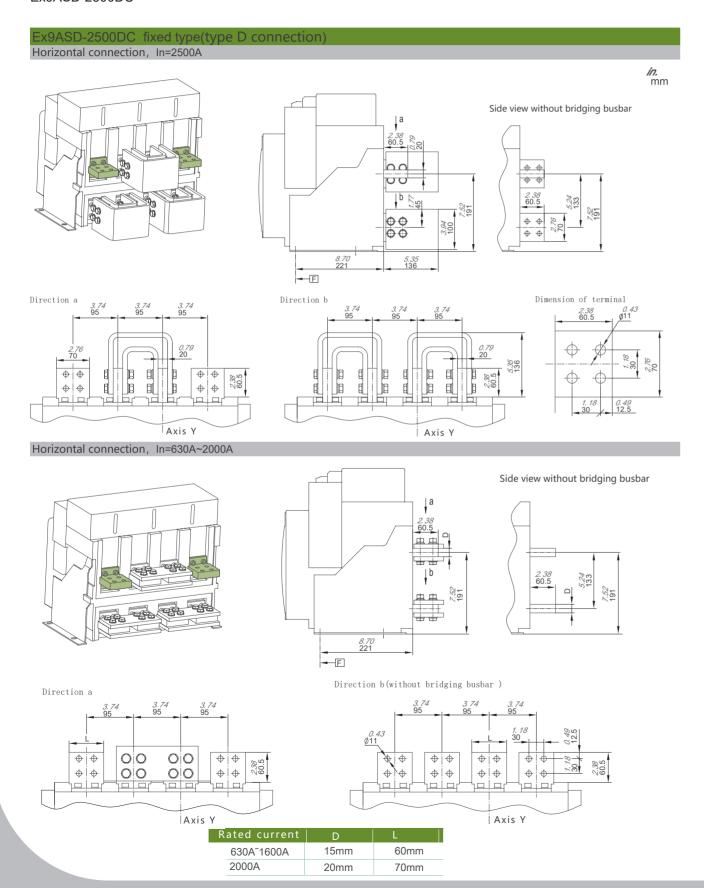


ion a	Direction b	Dimension of terminal
3.74 95 95 95 0.98 2.25 0.98	3.74 3.74 95 95 0.79 20 Axis Y	2.38 0.43 60.5 011
Rated current	D L	
630A~1600A	5mm 60mm	

70mm

20mm

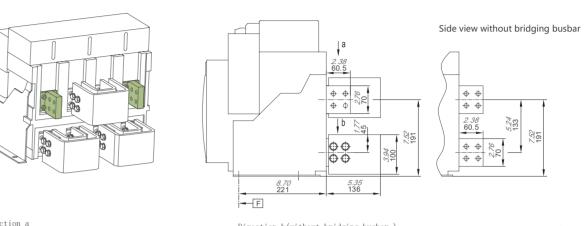
Ex9ASD-2500DC

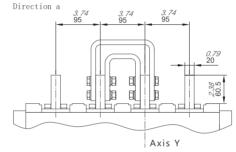


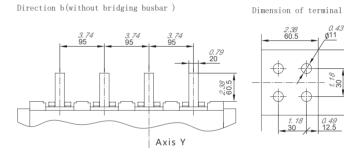
Installation Dimension

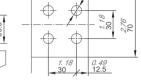
x9ASD-2500DC fixed type(type D connection)

Vertical connection, In=2500A

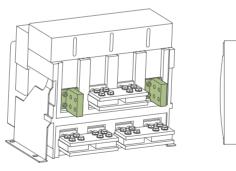


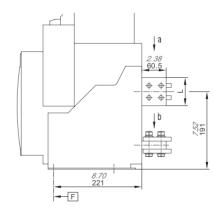


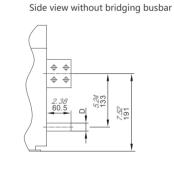


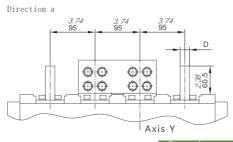


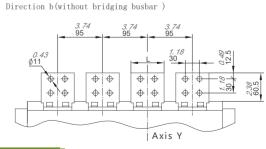
Vertical connection, In=630A~2000A





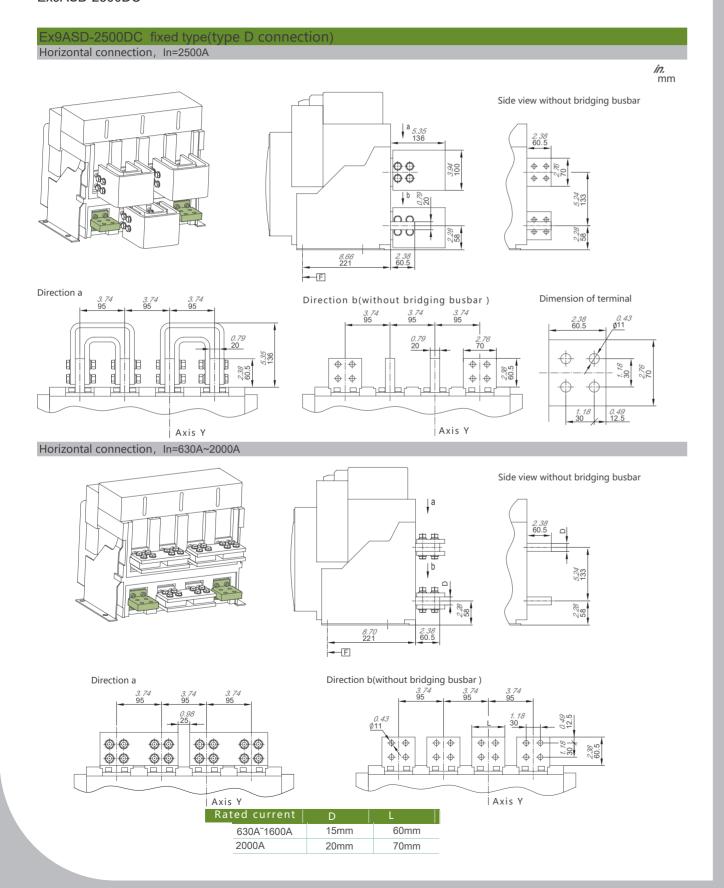




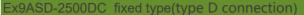


Rated current	_ D	, L	
630A~1600A	15mm	60mm	
2000A	20mm	70mm	

Ex9ASD-2500DC



Installation Dimension

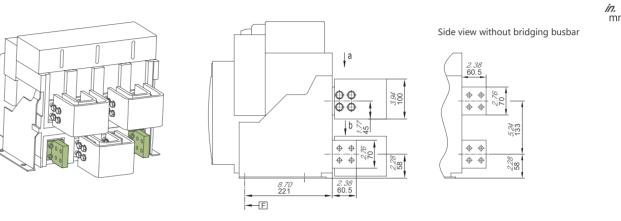


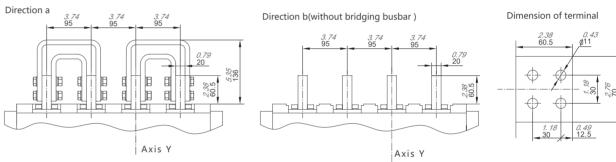
| Axis Y

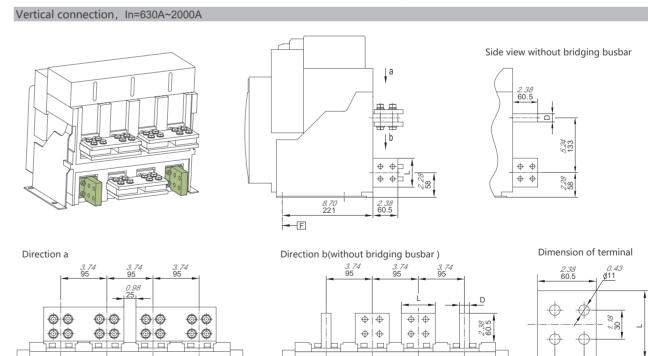
630A~1600A

2000A

Vertical connection, In=2500A







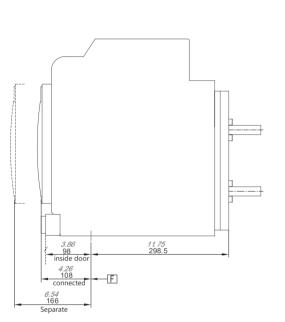
15mm

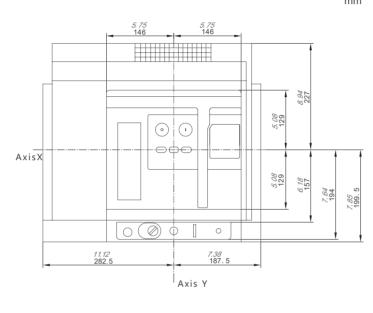
60mm

Axis Y

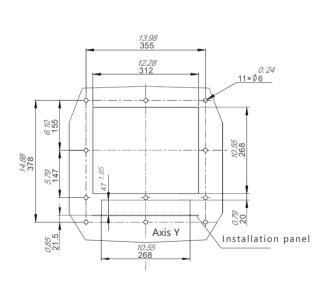
Ex9ASD-2500DC

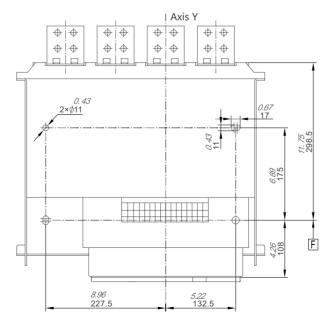
Ex9ASD-2500DC draw-out type(type C、D connection)





Installation dimension





Panel Perforating Size

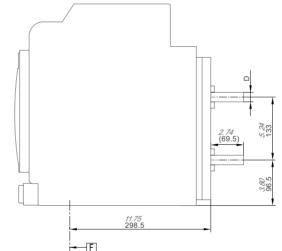
Fixed Horizontal Position

Installation Dimension

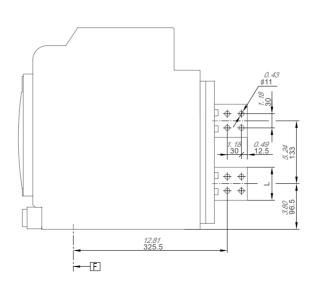
Ex9ASD-2500DC draw-out type(type C D connection) installation dimension of busbar without bridging busbar.



Horizontal connection



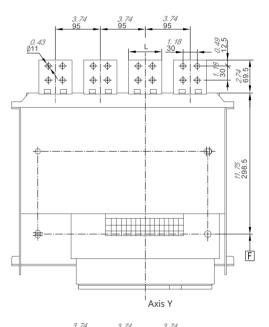


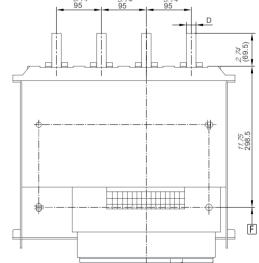


Rated Current	D
630A~1600A	15mm
2000A~2500A	20mm

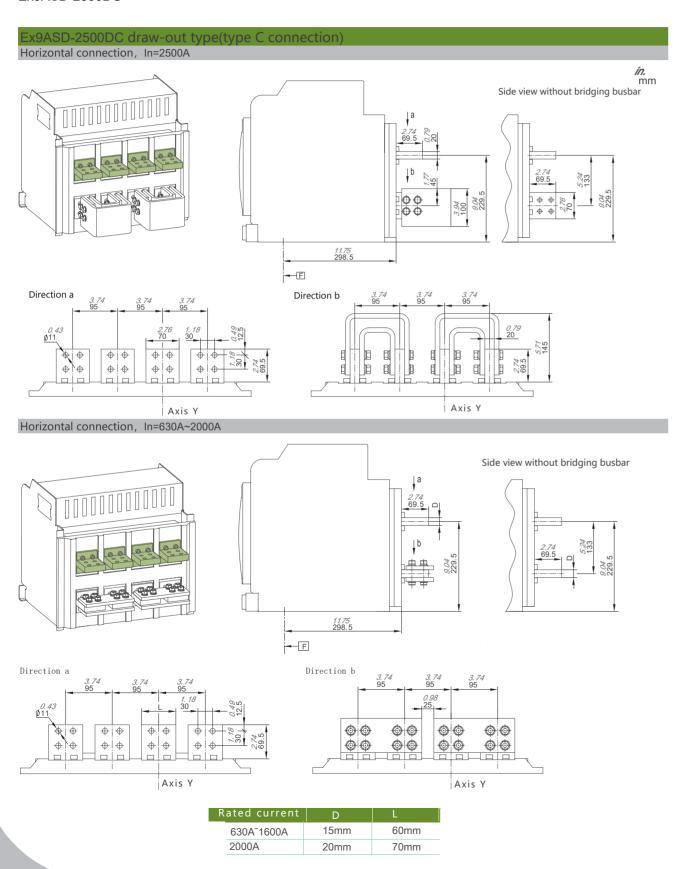
60mm 70mm







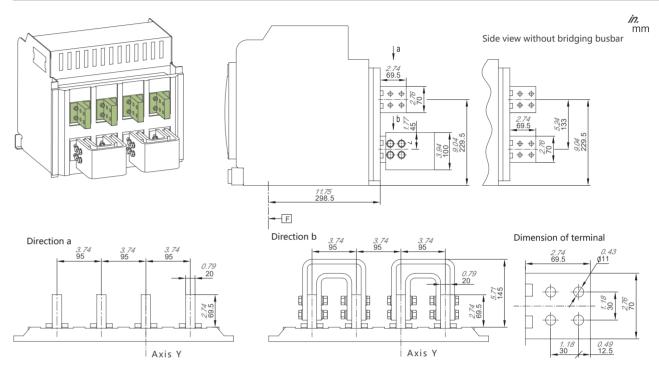
Ex9ASD-2500DC



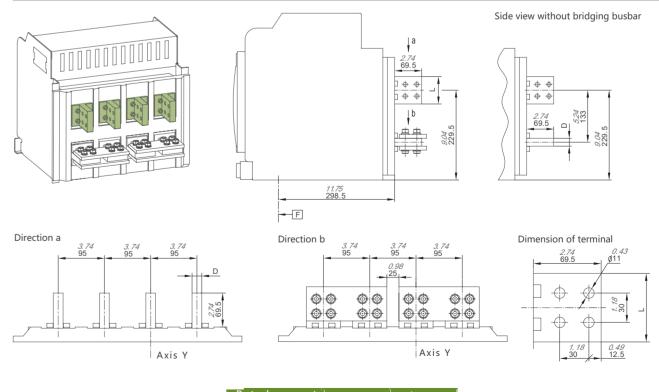
Installation Dimension

Ex9ASD-2500DC draw-out type(type C connection)

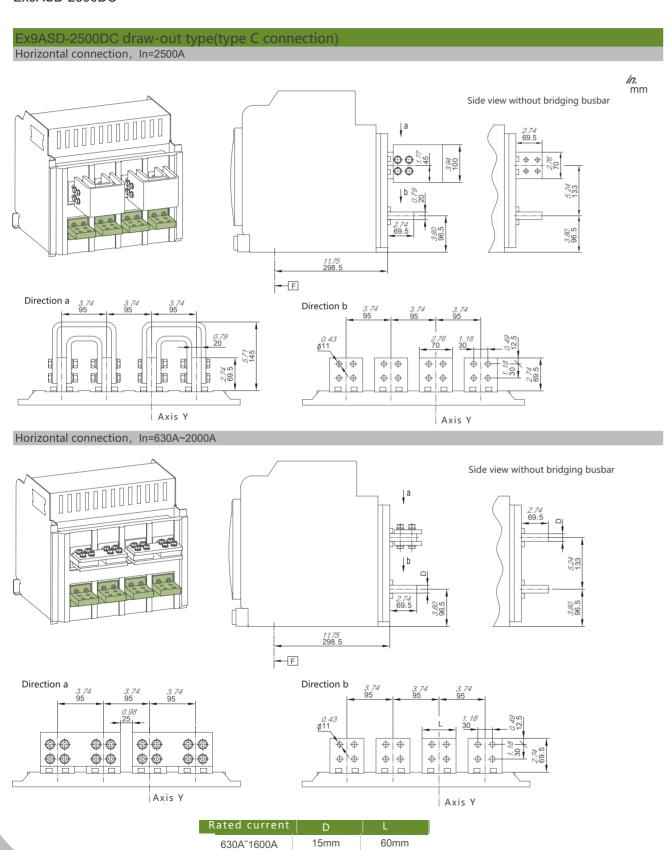
Vertical connection, In=2500A



Vertical connection, In=630A~2000A



Ex9ASD-2500DC



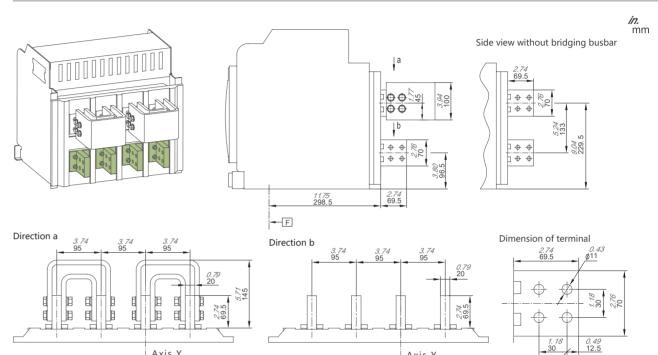
70mm

2000A

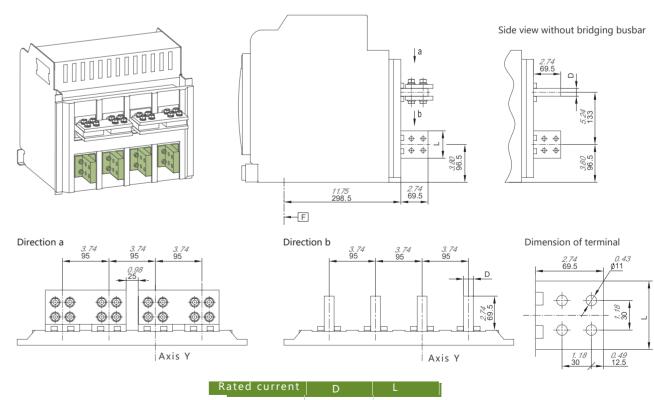
Installation Dimension

Ex9ASD-2500DC draw-out type(type C connection)

Vertical connection, In=2500A

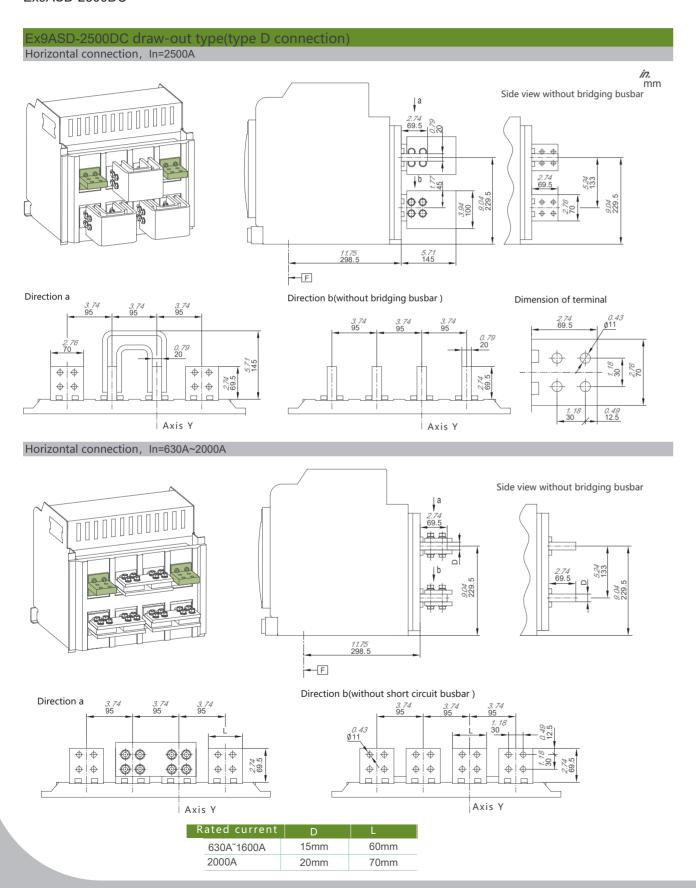


Vertical connection, In=630A~2000A



Rated current		D	, L
	630A~1600A	15mm	60mm
	2000A	20mm	70mm

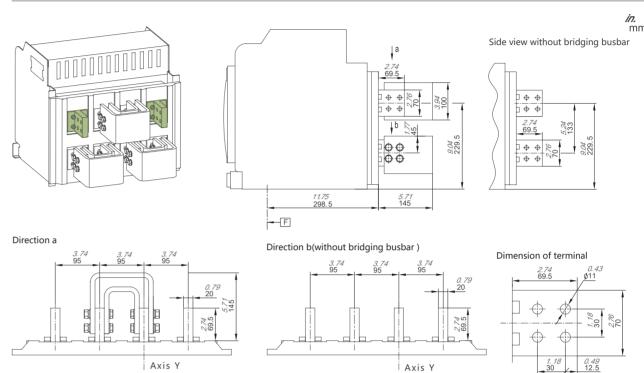
Ex9ASD-2500DC



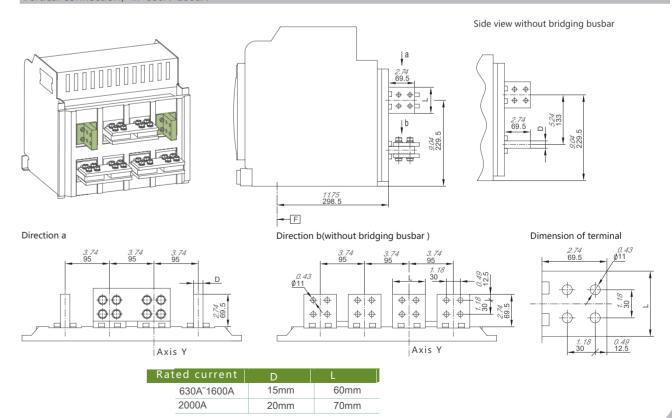
Installation Dimension

Ex9ASD-2500DC draw-out type(type D connection)

Vertical connection, In=2500A



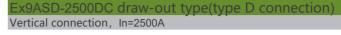
Vertical connection, In=630A~2000A

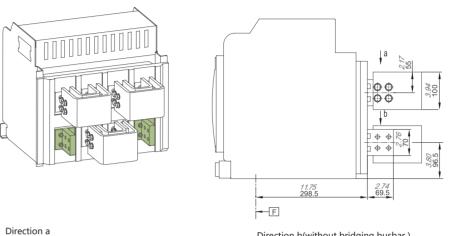


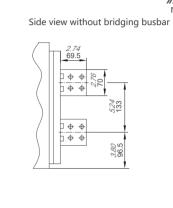
Ex9ASD-2500DC

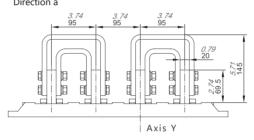
x9ASD-2500DC draw-out type(type D connection) Horizontal connection, In=2500A Side view without bridging busbar F Direction b(without bridging busbar) Direction a Dimension of terminal Axis Y Axis Y Horizontal connection, In=630A~2000A Side view without bridging busbar *11.75* 298.5 F Direction b(without bridging busbar) Direction a **0 0 0 • @ \Phi \Phi 6** Axis Y Axis Y 15mm 60mm 630A~1600A 2000A 20mm 70mm

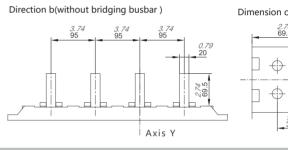
Installation Dimension

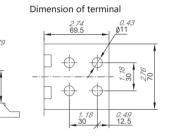




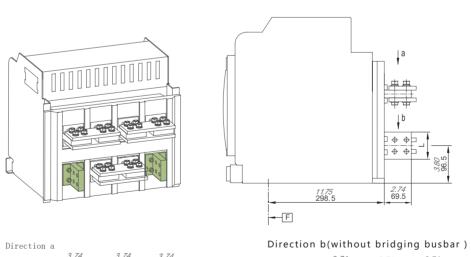


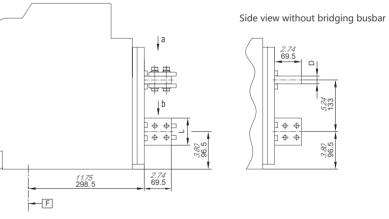


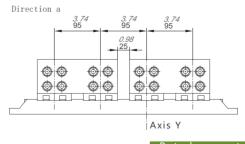


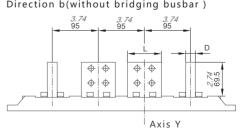


Vertical connection, In=630A~2000A









-	-	<i>2.74</i> 69.5	-	0.43 Ø11	
		>	\not	30	
] ←	÷ '	0	F. 8	_
		1. 1 30	/8	<i>0.49</i> 12.5	

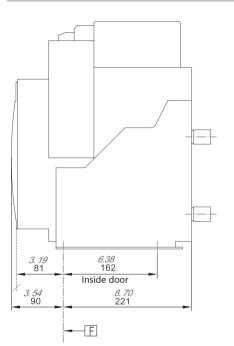
Dimension of terminal

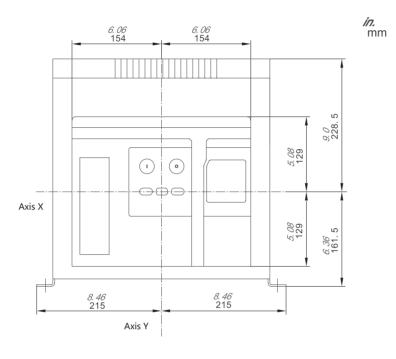
Rated	current	D	L
630A~1600A		15mm	60mm
2000)A	20mm	70mm

Ex9ASD-4000DC

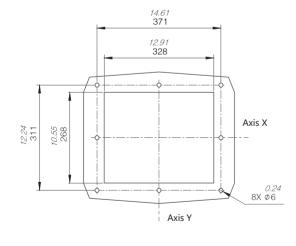
Ex9ASD-4000DC fixed type (type A、B connection)

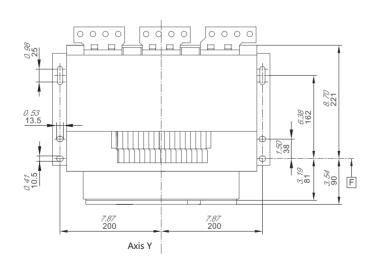
Overall dimension





Installation dimension





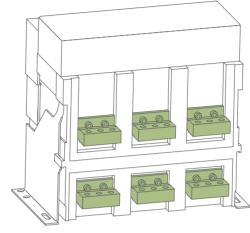
Panel Perforating Size

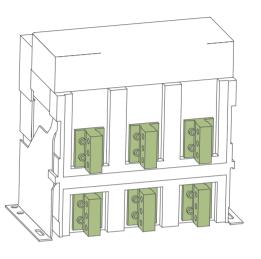
Fixed Horizontal Position

Installation Dimension

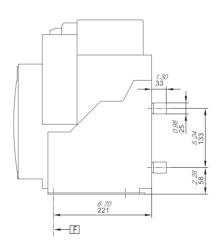
x9ASD-4000DC fixed type (type A、B connection)

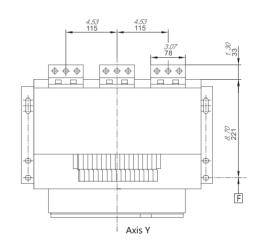
installation dimension of busbar without bridging.

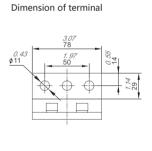




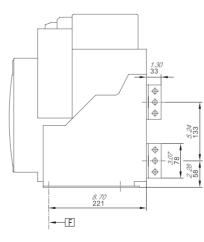
Horizontal connection

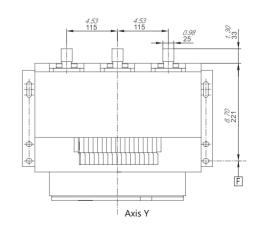


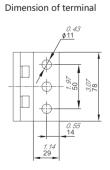




Vertical connection



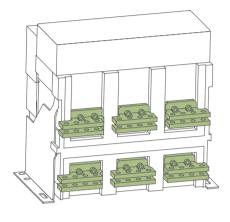


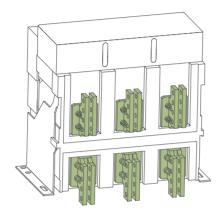


Ex9ASD-4000DC

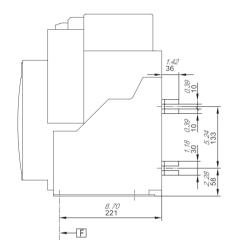
Ex9ASD-4000DC fixed type (type A、B connection)

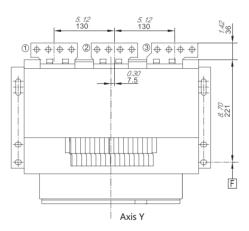
Installation dimension of busbar without bridging.

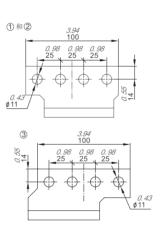




Horizontal connection

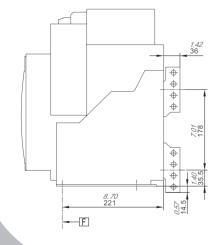


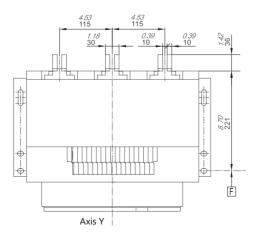




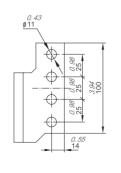
Dimension of terminal

Vertical connection





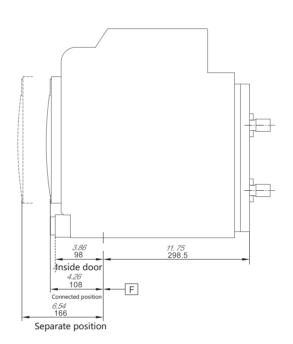
Dimension of terminal

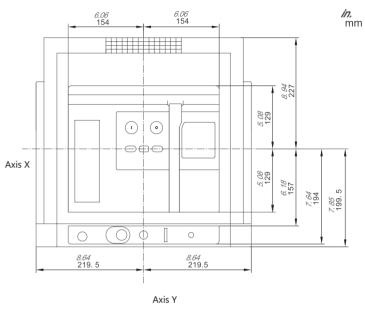


Installation Dimension

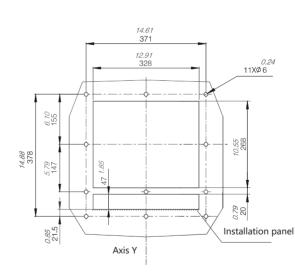
Ex9ASD-4000DC draw-out type (type A、B connection)

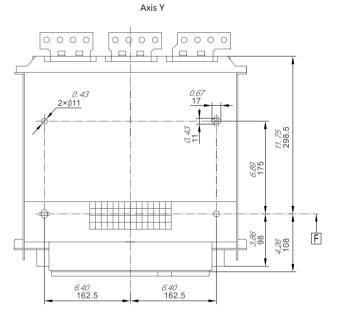
Overall dimensio





Installation dimension





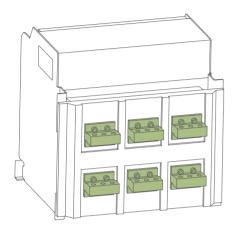
Panel Perforating Size

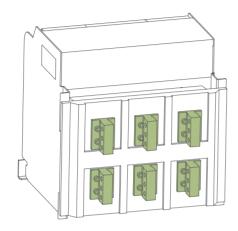
Fixed Horizontal Position

Ex9ASD-4000DC

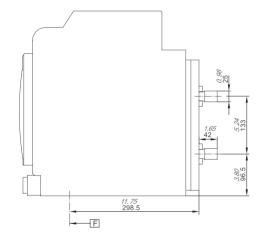
Ex9ASD-4000DC draw-out type (type A、B connection)

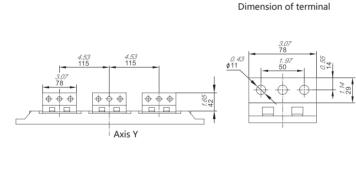
Horizontal installation dimension of busbar without bridging.

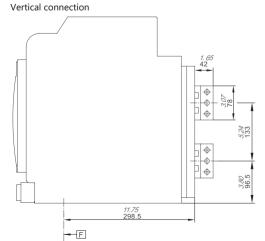


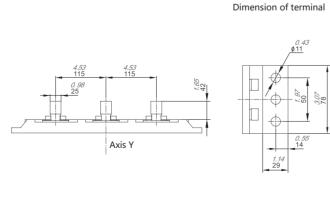


Horizontal connection



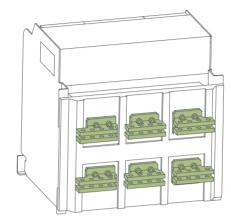


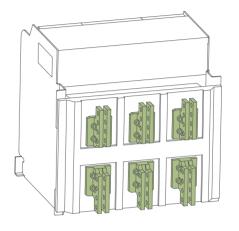




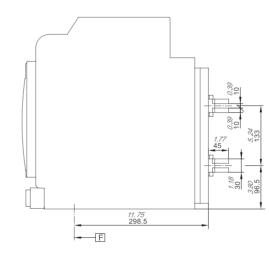
Installation Dimension

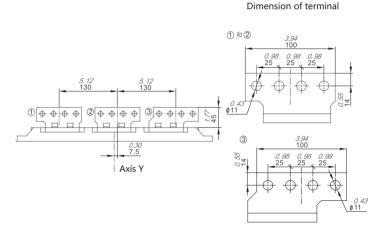
Ex9ASD-4000DC draw-out type (type A、B connection) Vertical installation dimension of busbar without bridging.



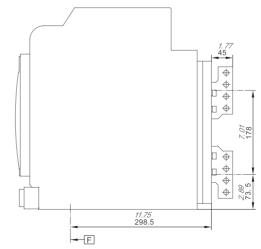


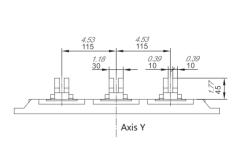
Horizontal connection





Vertical connection



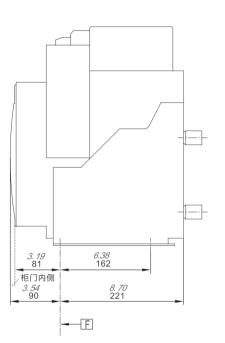


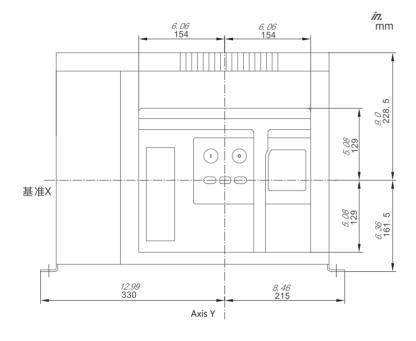
Dimension of terminal

Ex9ASD-4000DC

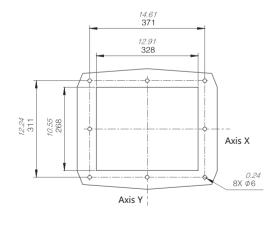
Ex9ASD-4000DC draw-out type (type C、D connection)

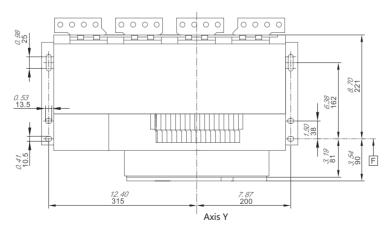
Overall dimension





Installation dimension





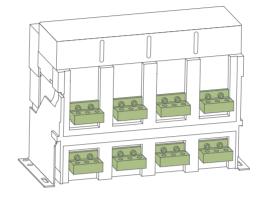
Panel Perforating Size

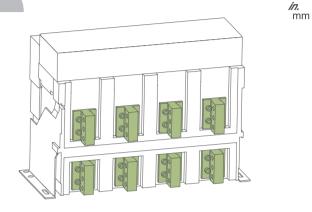
Fixed Horizontal Position

Ex9ASD-4000DC draw-out type (type C、D connection)

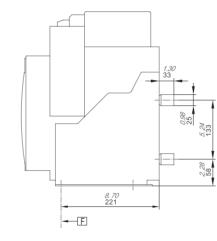
Dimension of horizontal connection busbar without bridging.

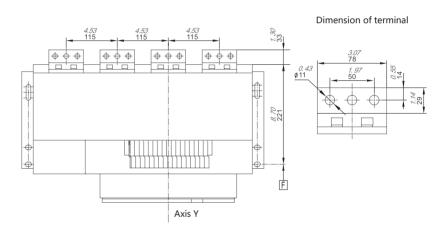
Installation Dimension



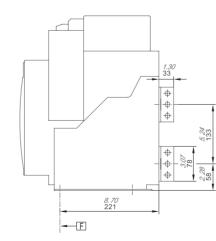


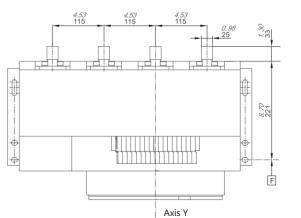
Horizontal connection

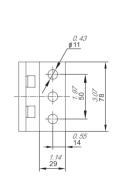




Vertical connection





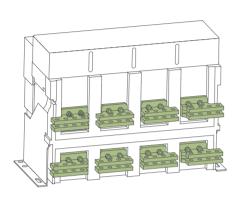


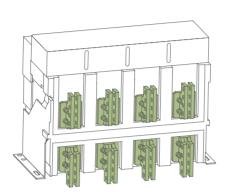
Dimension of terminal

Ex9ASD-4000DC

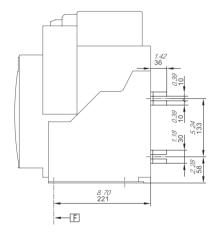
Ex9ASD-4000DC fixed type (type C、D connection)

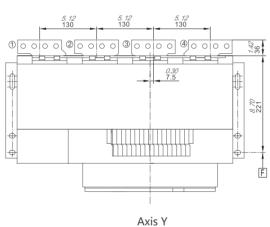
Dimension of vertical connection busbar without bridging

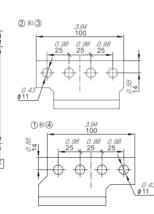




Horizontal connection

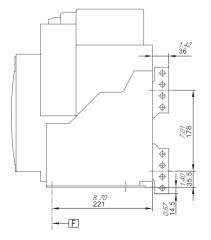


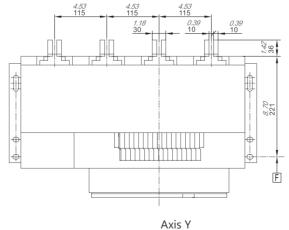




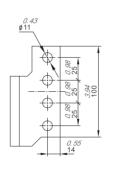
Dimension of terminal

Vertical connection





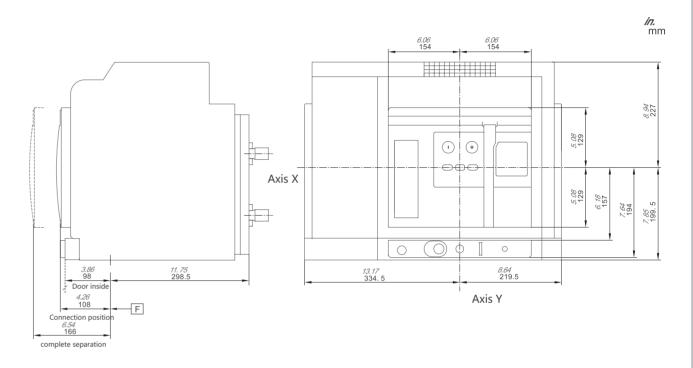
Dimension of terminal



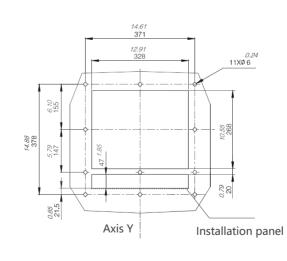
Installation Dimension

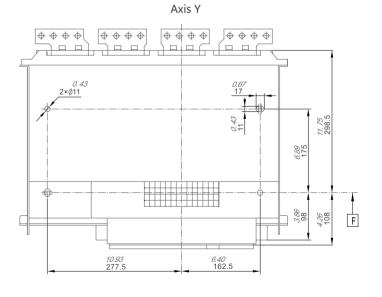
Ex9ASD-4000DC draw-out type (type C、D connection)

Overall dimension



Installation dimension



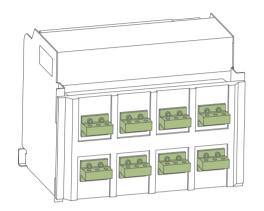


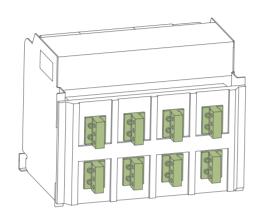
Panel Perforating Size

Fixed Horizontal Position

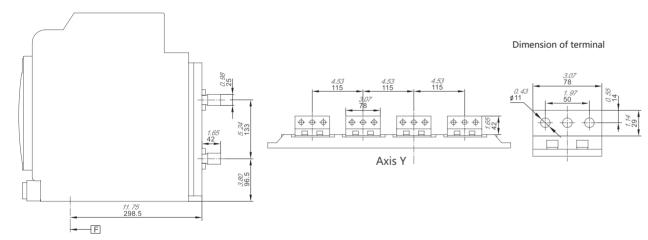
Ex9ASD-4000DC

Ex9ASD-4000DC draw-out type (type C、D connection) Dimension of horizontal connection busbar without bridging.

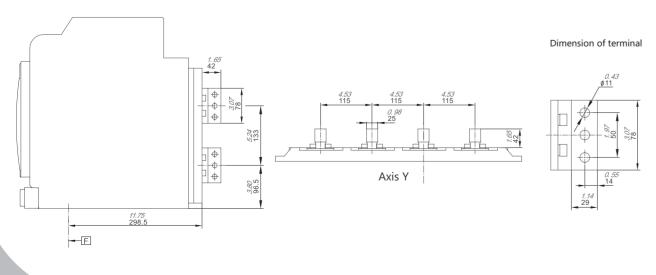




Horizontal connection



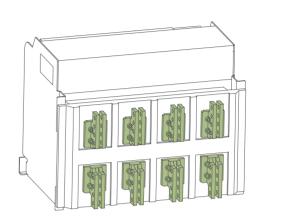
Vertical connection



Installation Dimension

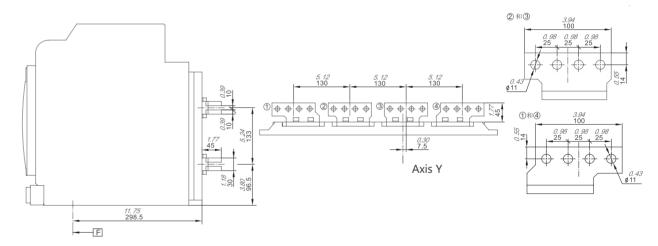
Dimension of vertical connection busbar without bridging.





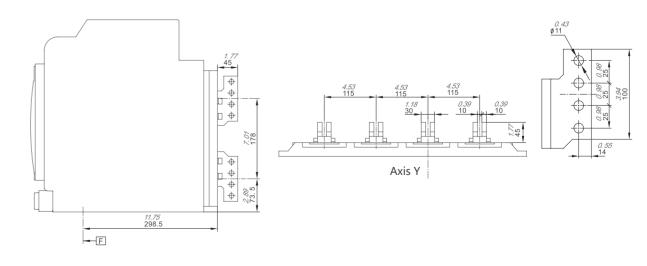
Horizontal connection

Dimension of terminal



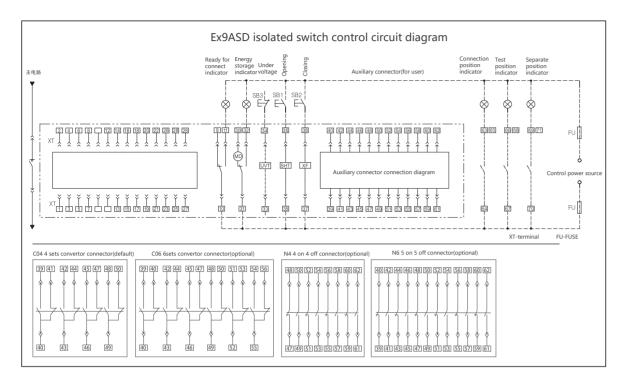
Vertical connection

Dimension of terminal



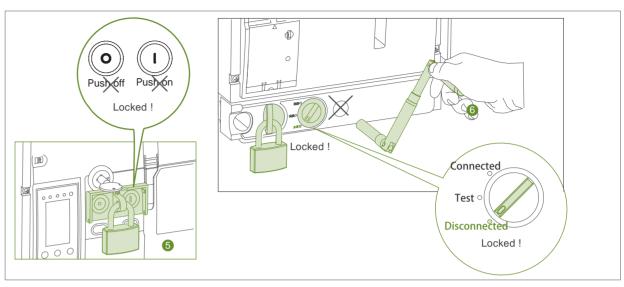
Auxiliary Connections

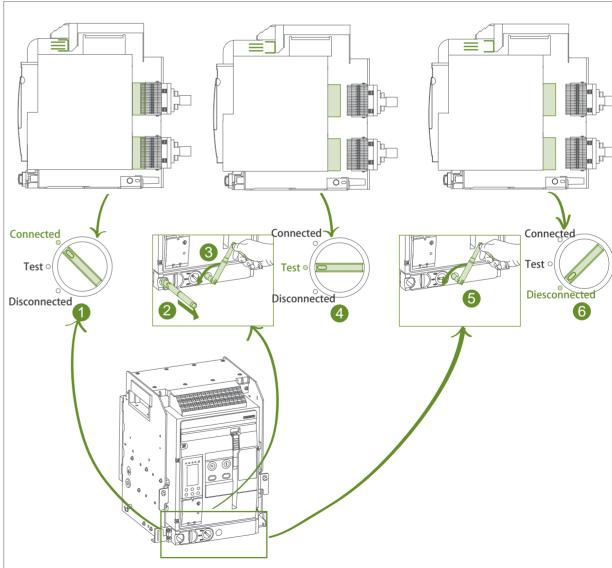
Ex 9ASD isolated switch auxiliary connection



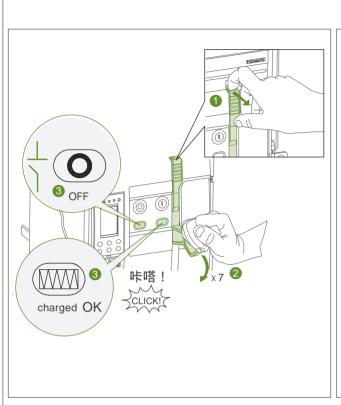
- PF reconnect ready indicator(optional) 9#~11#: connect ready electronic indicator; indicator need to be prepared by user. this is optional function
- MD energy restore motor 30#-32#: energy restore motor input power source indicator need to be prepared by user.
- UVT under voltage tripping device 33#~24#:under voltage tripping device input power source; S83 urgently disconnect push button need to be prepared by user. it is optional part.
- SHT shunt tripping device 35#,36#:Shunt tripping device input power source.
 SB1 disconnect button need to be prepared by the user.
- XF closing magnetic coil 37#,38#:closing magnetic coil input power source
 SB2 disconnect push button need to be prepared by user.
- AX auxiliary contact
 39#-62#:cable connection for auxiliary
 C04 is default, C60,N4,N6 need to special
 order
- EF draw-out type isolated switch three position indicator(optional) 63#-71#: draw-out type indicator of connected, test and disconnected. The indicator need to be prepared by the user. Only available for the draw-out type product.

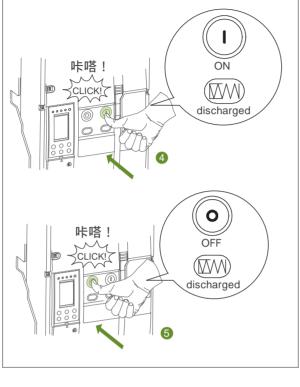
Operation Principle

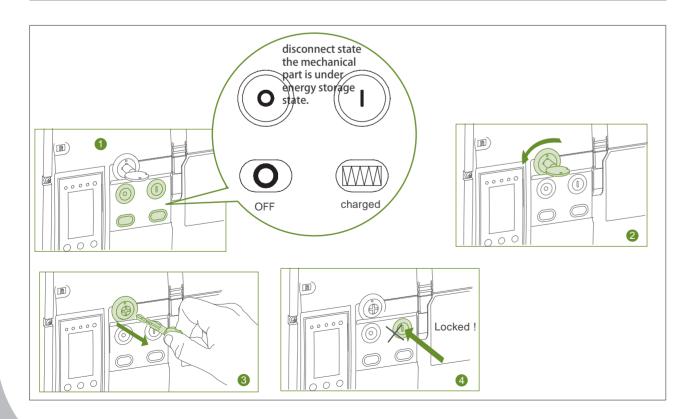




Operation Principle







Trouble shooting

common issue and resolution

		Unable to open / trip device with an under voltage coil.	Check the under voltage coil if it still functional. Replaced if necessary. There are no associated controller for an isolator switch.
	- D	Device is interlocked mechanically in a source changeover system.	Check the status of the other device in the changeover system. Check the proper installation of the mechanical interlock kit, readjust and align where necessary.
		under voltage tripping	1 Check if the under voltage coil is supplied and above 85% of coil operating voltage.
		device can not close	2 Check the under voltage coil if it still functional. Replaced if necessary. 3 There are no associated controller for an isolator switch.
1	Device cannot be closed locally or remotely.	The draw-out switch is not fully engaged in connected position. Improper / poor connection of the	Depress the position release button (if it popped out) and rack in the switch into connected position.
		auxiliaries circuit between chassis and	Ensure switch body is in test or connected position. or. Check for proper terminations of the auxiliary circuits
		Unable to charged the stored	1 Charge the device manually using the spring charging handle. If the device is equip with a motor control unit, check there is supply to the unit and ≥85% of the control voltage.
		energy mechanism.	2 If the problem persists, replace the motor control unit.
		Due le leure contele de le color de conte	1.Check there is supply to the closing coil and ≥85% of the control voltage. 2.If the problem persists, replace the closing coil.
2	Device cannot be opened locally or		1 Check the voltage supply to the shunt trip release ensuring it is within the range of 0.7 - 1.1 Un. If the problem persists, consider replace the shunt trip release.
	remotely.		2 check the mechanical part if there are some issues.
3	The switch can't can't automatically store energy. can't manual store energy	1 Check the control power supply voltage of the electric energy storage device to ensure it is connected and should be $\geq 85\%$ of Us; inspect for any issues with the circuit connections. 2 check if the motor fail	
		can't manual store energy	check if the mechanical part failure
4	Unable to remove switch from it chassis.	The switch is not fully rack out into disconnected position.	Ensure to rack out the device fully until the position release button pops out.
	Unable to rack in device into connected position.	1.Presence of foreign object inside the chassis.	
5		rack XI ninion dear had been	Inspect and remove any foreign objects if any. Check for any damage on the rack and pinion gear. Disable the chassis locking function.
		3.Chassis is locked in the disconnected position.	