

Series switch

Product operating specification

LS GYVSA



First Application and operating environment

Series load - isolate switch (here in after simply called switch) suitable to AC 50Hz, rated voltage under 1140V, DC rated voltage under 1140V, rated current is 125A~1600A. Process that not frequently connect and split electric circuit and isolate electric circuit in the industry enterprise power distribution system, only process electric isolation under 1000A.

The switch able to reliably work under the below condition:

Altitude height 2000m ;

Environment temperature not higher than $+40^{\circ}\text{C}$, not lower than -5°C ;

The air relative humidity not bigger than 95%;

No the medium which has explode risk, and the explode no the gas and dust which enough to corrode the metal and damage the insulation;

The place where no obviously rock and shock vibration;

The environment where no raining and snow invading.

Note: should inform the manufacturer when use it in the place where environment temperature lower than $-5^{\circ}\text{C} \sim -45^{\circ}\text{C}$.

Second Structure and characteristics

The switch has the glass fiber reinforced unsaturation polymer resin manufactured shell, spring energy storage accelerate mechanism able to quickly realize that connect and split, parallel two split contact surface of dual broken points, the sheet shape spring make ensure the contact pressure , automatically make ensure the limit position of connect and split, it has obvious connect-split marks to indicate the connect and split position.

Third Main parameters

1. The switch should be vertically installed, should check whether contents of data board are accordance with operating requirements. Make ensure the switch should be at split status. Push the switch operating handle, the arrow on the handle point "0" position, the observe window also display "0", switch at split status, the arrow on the handle point "1" position, the observe window also display "1", switch at close status.
2. Wiring terminal on the switch and wiring naked bus line should wrap insulation materials, prevent that short circuit among switch phase.
3. If lengthen shaft and handle hole of operating switch out of cabinet are not coaxial, remember that never push the lengthen shaft, avoid it damage the internal parts and components, must make them coaxial through that adjust the switch position.
4. The switch should process one time maintain at about use six months. If rotating position are not flexible, then can coat MP-3 lubricating grease. Check whether fasteners have loosen appearance. Maintain aim to different situation, if seriously damage then should stop use immediately.

Seventh Order notices

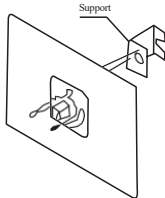
The user should provide the below detail datum

- 1.Product name, model, specification and quantity.
- 2.Should provide the corresponding technical datum or consult with this company if has special installation condition or use in special places.

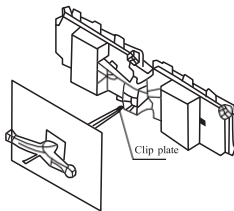
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- Diagram illustrating the connection of a connect bush to the panel assembly. A screwdriver is shown inserting a connect bush into the panel assembly.

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- (d) Make the panel assembly and support (type U port of right hand door support rightward, typeU port of left hand door support leftward), use3-M15X16 screw to install it on the cabinet door,and buckle the anti loosen nut.

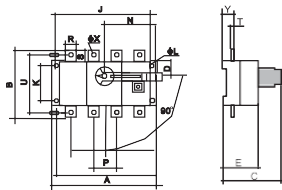


- (8) Install the handle on the square shaft according to the diagram shown position, make the arrow direction of handle accordance with indicator of panel, tighten by M4X25 screw.

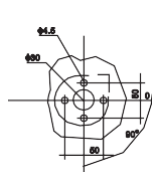


Fourth Switch profile and installation size

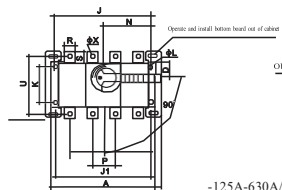
1. -125A~630A shift load-isolate switch profile and installation size



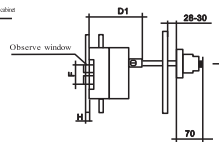
-125A-630A directly operate



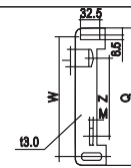
Handle base out of cabinet installation size



-125A-630A/JK operating out of cabinet



125-630A load-isolate
switch cabinet external
operating installation
diagram.



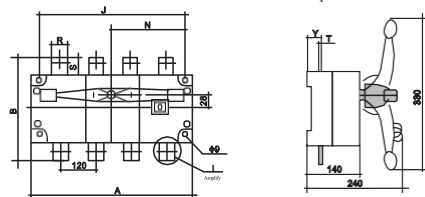
Operating and install bottom board out of cabinet

Specification Dimension of bottom board

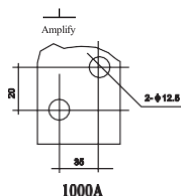
~690A	I	M	Z	W	Q
125A	55	5.5	85	190	218
160A	55	5.5	85	190	218
200A	55	5.5	85	190	218
250A	55	5.5	85	190	218
315A	60	6.5	130	240	270
400A	60	6.5	130	240	270
500A	60	6.5	130	240	270
630A	60	6.5	130	240	270

Specification	Profile size and installation size																			
~125A																				
~600A	A	B	C	D	D1	E	Φ L	J	J1	K	N	P	R	S	T	U	Φ X	Y	F	H
125A/3	140	135	125	27	92	73	5.5	120	120	65	85	96	20	25	3.5	115	9	25	53	10
125A/4	170	135	125	27	92	73	5.5	150	150	65	85	96	20	25	3.5	115	9	25	53	10
160A/3	140	135	125	27	92	73	5.5	120	120	65	85	96	20	25	3.5	115	9	25	53	10
160A/4	170	135	125	27	92	73	5.5	150	150	65	85	96	20	25	3.5	115	9	25	53	10
200A/3	180	170	138	35	98	88	5.5	160	160	90	115	50	25	30	3.5	140	11	25	80	15
200A/4	230	170	138	35	98	88	5.5	210	210	90	115	50	25	30	3.5	140	11	25	80	15
250A/3	180	170	138	35	98	88	5.5	160	160	90	115	50	25	30	3.5	140	11	25	80	15
250A/4	230	170	138	35	98	88	5.5	210	210	90	115	50	25	30	3.5	140	11	25	80	15
315A/3	230	240	165	50	135	110	7	210	210	140	135	65	32	40	5	206	11	37	104	20
315A/4	295	240	165	50	135	110	7	275	275	140	135	65	32	40	5	206	11	37	104	20
400A/3	230	240	165	50	135	110	7	210	210	140	135	65	32	40	5	206	11	37	104	20
400A/4	295	240	165	50	135	110	7	275	275	140	135	65	32	40	5	206	11	37	104	20
500A/3	230	280	165	50	135	110	7	210	210	140	135	65	40	50	6	220	13	37	104	20
500A/4	295	280	165	50	135	110	7	275	275	140	135	65	40	50	6	220	13	37	104	20
630A/3	230	280	165	50	135	110	7	210	210	140	135	65	40	50	6	220	13	37	104	20
630A/4	295	280	165	50	135	110	7	275	275	140	135	65	40	50	6	220	13	37	104	20

2、 -1000A~1600A shift load-isolate switch profile and installation size

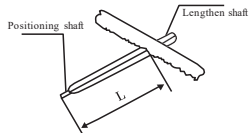
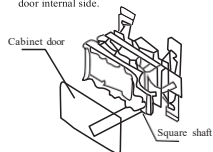


-1000A ~ 1600A

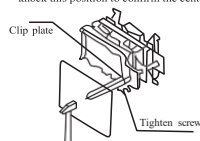


- 4、 -125A-630A side operating load- operation out of isolate switch installation diagram
 -125A-630A shift operating load-operation out of isolate switch installation diagram

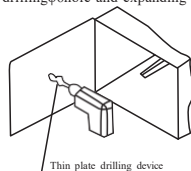
- (1) Place the switch I and II at split status to install, measure out the distance L from switch square shaft top to cabinet door internal side. (2) Revolve all screws of positioning shaft into lengthen shaft, measure out L value according to the diagram and saw off it.



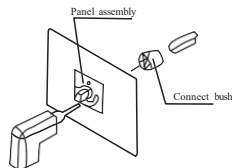
- (3) Use clip board to connect the lengthen shaft and switch square shaft, tighten by the tighten screw, and make the top contact the Cabinet door through adjust the positioning shaft, use hand hammer lightly knock this position to confirm the center.



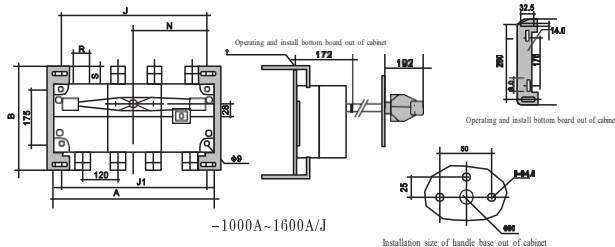
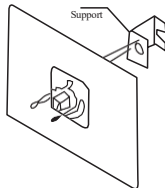
- (4) Disassemble the positioning shaft, drilling $\phi 6$ hole and expanding hole $\phi 30$.



- (5) Place the panel assembly on the cabinet door, use M4X16 screw to install the connect bush on the lengthen shaft, make the convex rib direction of connect bush vertical to the indicate direction of panel assembly, convex rib direction of right hand door leftward, convex rib direction of left hand door rightward, close the cabinet door and coordinate drilling hole $3 \times \phi 4.5$.

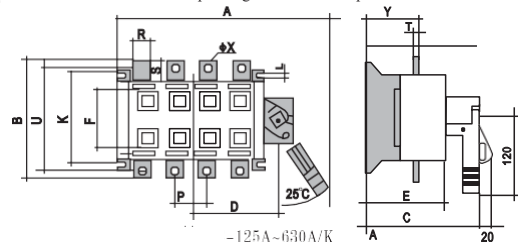


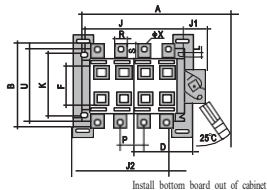
- (6) Make the panel assembly and support (type U port of right hand door support rightward, type U port of left hand door support leftward), use 3-M15X16 screw to install it on the cabinet door, and buckle the anti loosen nut.



Specification	Profile size and installation size								
-1000A~1600A	A	B	J	J1	N	E	S	T	Y
1000A/3	378	312	353	353	174	80	56	8	48
1000A/4	498	312	473	473	234	80	56	8	48
1250A/3	378	338	353	353	174	80	60	8	48
1250A/4	498	338	473	473	234	80	60	8	48
1600A/3	378	338	353	353	174	80	60	10	49
1600A/4	498	338	473	473	234	80	60	10	49

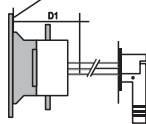
- 3、 -125A~630A side operating load switch profile and installation size



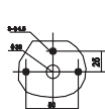


Install bottom board out of cabinet

Operating and install bottom board out of cabinet



Specification	Bottom board size			
	t	Z	W	Q
125A	8	115	240	270
160A	8	115	240	270
200A	8	115	240	270
250A	8	115	240	270
315A	4	170	280	311
500A	4	170	280	311
630A	4	170	280	311

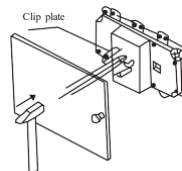


Installation size of handle base out of cabinet

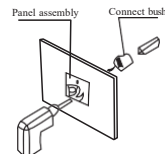
Specification		Profile size and installation size																			
		A	B	C	D	D1	E	J	J1	J2	K	P	R	S	T	U	Φ	X	Y	L	F
125A/3	287	186	147	89	125	102	120	66	120	95	86	20	25	8.5	115	9	Φ0.5	7	63		
125A/4	287	186	147	104	125	102	150	66	160	95	86	20	25	8.5	115	9	Φ0.5	7	63		
160A/3	287	186	147	89	125	102	120	66	120	95	86	20	25	8.5	115	9	Φ0.5	7	63		
160A/4	287	186	147	104	125	102	150	66	160	95	86	20	25	8.5	115	9	Φ0.5	7	63		
200A/3	308	170	163	110	131	108	160	66	180	110	60	20	30	8.5	140	11	Φ0.5	11	80		
200A/4	308	170	163	135	131	108	210	66	210	110	60	25	30	8.5	140	11	Φ0.5	11	80		
250A/3	308	170	163	110	131	108	160	66	180	110	60	25	30	8.5	140	11	Φ0.5	11	80		
250A/4	308	170	163	135	131	108	210	66	210	110	60	25	30	8.5	140	11	Φ0.5	11	80		
315A/3	401	240	187	160	155	132	210	77	210	180	65	32	40	5	206	11	80	13	104		
315A/4	461	240	187	180	155	132	275	77	275	180	65	32	40	5	206	11	80	13	104		
400A/3	401	240	187	160	155	132	210	77	210	180	65	32	40	5	206	11	80	13	104		
400A/4	461	240	187	180	155	132	275	77	275	180	65	32	40	5	206	11	80	13	104		
500A/3	401	240	187	160	155	132	210	77	210	180	65	40	50	6	220	13	80	13	104		
500A/4	461	240	187	180	155	132	275	77	275	180	65	40	50	6	220	13	80	13	104		
630A/3	401	280	187	160	155	132	210	77	210	180	65	40	50	6	220	13	80	13	104		
630A/4	461	280	187	180	155	132	275	77	275	180	65	40	50	6	220	13	80	13	104		

- (3) Place the switch I and II at split status to install, measure out the distance L from switch square shaft top to cabinet door internal side.

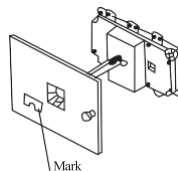
- (4) Disassemble the positioning shaft, drilling $\phi 6$ hole and expanding hole $\phi 30$.



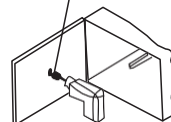
- (5) Place the panel assembly on the cabinet door, use M4X16 screw to install the connect bush on the lengthen shaft, make the convex rib direction of connect bush vertical to the indicate direction of panel assembly, convex rib direction of right hand door leftward, convex rib direction of left hand door rightward, close the cabinet door and coordinate drilling hole 3- $\phi 5$.



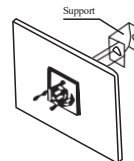
- (7) Stick the mark on the panel according to the diagram.



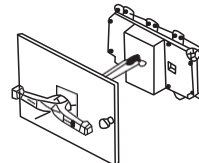
Thin plate drilling device



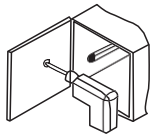
- (6) Make the panel assembly and support (type U port of right hand door support rightward, type U port of left hand door support leftward), use 3-M15X16 screw to install it on the cabinet door, and buckle the anti loosen nut.



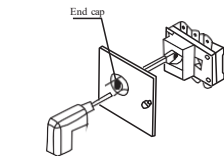
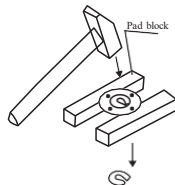
- (8) Install the handle on the square shaft according to the diagram shown position, make the arrow direction of handle accordance with indicator of panel, tighten by M4X25 screw.



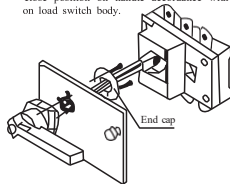
- (5) Drilling $\phi 6$ hole and expanding hole $\phi 30$. (6) Use end cover positioning drill hole 4- $\phi 4$



- (7) Knock off center part of end cover

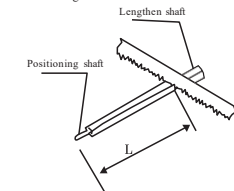
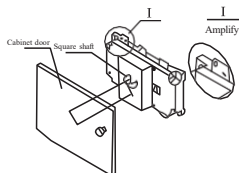


- (8) Revolve off two pieces ST4X16 self tapping screws at handle bottom tray place, at the same time, press the bottom tray, prevent the parts and components in the handle pop out, use this self tapping screw tighten the end cap and handle according to diagram position, remember that make ensure the indication of the split -close position on handle accordance with indication on load switch body.

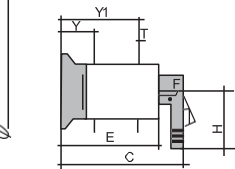
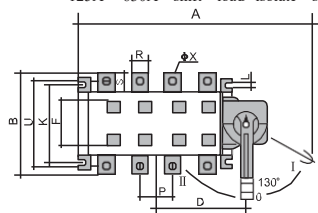


3. Installation diagram of operation and installation of load-isolate switch

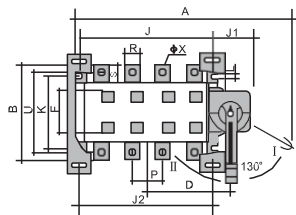
- (1) Place the switch I and II at split status to install, measure out the distance L from switch square shaft top to cabinet door internal side.



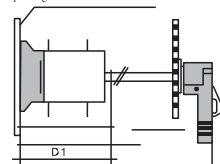
4. -125A~630A shift load-isolate switch profile and installation size



-125A ~ 630A

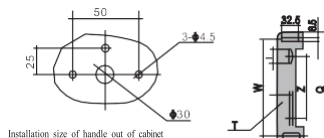


Operating and install bottom board out of cabinet



-125A ~ 1600A/J

Operating and install bottom board out of cabinet

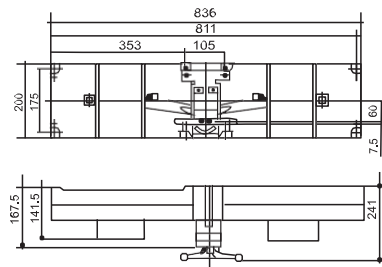


Installation size of handle out of cabinet

Specification	Bottom board size			
	t	Z	W	Q
125-630A	3	115	240	270
125A	3	115	240	270
160A	3	115	240	270
200A	3	115	240	270
250A	3	115	240	270
315A	4	170	280	311
500A	4	170	280	311
630A	4	170	280	311

Specification	Profile size and installation size																			
	A	B	C	D	D1	E	J	J1	J2	K	L	P	R	S	T	U	ΦX	Y	Y1	F
125A/3	287	136	147	89	195	172	120	65	120	95	7	96	20	25	3.5	115	9	60.5	132	53
125A/4	297	136	147	104	195	172	150	65	160	95	7	96	20	25	3.5	115	9	60.5	132	53
160A/3	287	136	147	89	195	172	120	65	120	95	7	96	20	25	3.5	115	9	60.5	132	53
160A/4	297	136	147	104	195	172	150	65	160	95	7	96	20	25	3.5	115	9	60.5	132	53
200A/3	308	170	153	110	215	192	160	65	160	110	11	50	20	30	3.5	140	11	66.5	138	80
200A/4	358	170	153	135	215	192	210	65	210	110	11	50	25	30	3.5	140	11	66.5	138	80
250A/3	308	170	153	110	215	192	160	65	160	110	11	50	25	30	3.5	140	11	66.5	138	80
250A/4	358	170	153	135	215	192	210	65	210	110	11	50	25	30	3.5	140	11	66.5	138	80
315A/3	401	240	187	160	275	252	210	77	210	180	13	65	32	40	5	206	11	80	192	104
315A/4	461	240	187	180	275	252	275	77	275	180	13	65	32	40	5	206	11	80	192	104
400A/3	401	240	187	160	275	252	210	77	210	180	13	65	32	40	5	206	11	80	192	104
400A/4	461	240	187	180	275	252	275	77	275	180	13	65	32	40	5	206	11	80	192	104
500A/3	401	240	187	160	275	252	210	77	210	180	13	65	40	50	6	220	13	80	198	104
500A/4	461	240	187	180	275	252	275	77	275	180	13	65	40	50	6	220	13	80	198	104
630A/3	401	260	187	160	275	252	210	77	210	180	13	65	40	50	6	220	13	80	198	104
630A/4	461	260	187	180	275	252	275	77	275	180	13	65	40	50	6	220	13	80	198	104

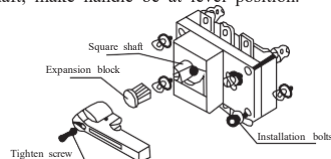
5、-1000A~1600A shift load-isolate switch profile and installation size



-1000A~1600A

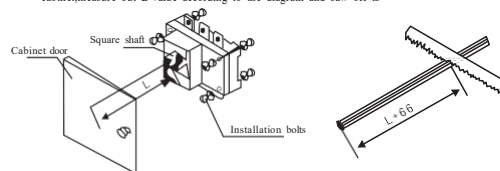
Fifth Installation diagram

1、Operating handle in 125-630A/H cabinet operating load-isolate switch cabinet installation diagram place the switch at split status, fix on the installation board in cabinet, install the handle on the square shaft, make handle be at level position.



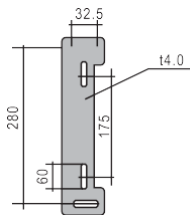
2. Operating handle out of 125-630A/H cabinet operating load-isolate switch cabinet installation diagram

(1) Make the switch be at split status and fix on the installation board in cabinet, measure out L value according to the diagram and saw off it.

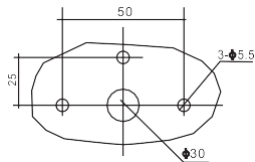


(3) If need then can lock the cabinet door, then knock two pieces black open pin which attached along with the machine into lengthen shaft, make ensure needle on position, make the pin which close to end after knock into lower than another pin, if needn't lock cabinet door then needn't open pin.





Operating and install bottom board out of cabinet

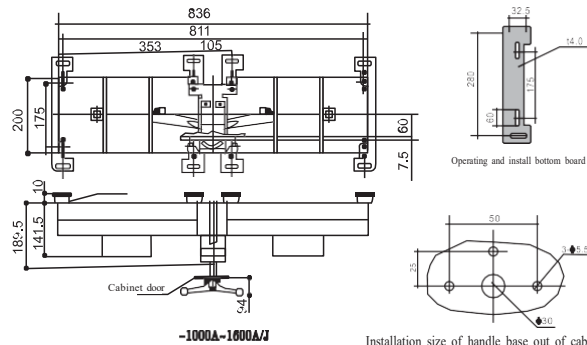


Installation size of handle base out of cabinet

Specification	Profile size and installation size									
-1000A~1600A	A	B	J	J1	N	E	S	T	Y	
1000A/8	878	812	868	868	174	80	56	8	48	
1000A/4	498	812	478	478	284	80	56	8	48	
1250A/8	878	888	868	868	174	80	60	8	48	
1250A/4	498	888	478	478	284	80	60	9	48	
1600A/8	878	888	868	868	174	80	60	10	48	
1600A/4	498	888	478	478	284	80	60	10	48	

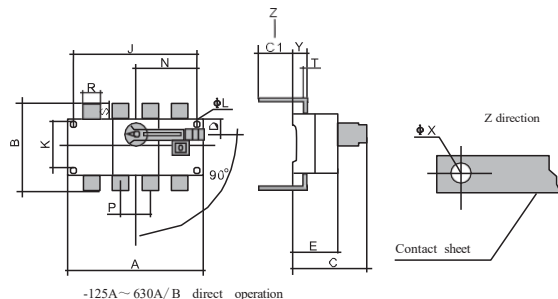
8、

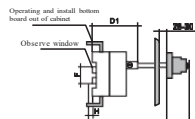
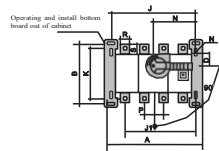
Installation size of -125-630A/II cabinet operating load-isolate switch behind cabinet should be corresponding same to -125-630A load-isolate switch installation diagram.
Installation size of -125A-630A/JII cabinet out and behind operating load-isolate switch should be corresponding same to -125-630A load-isolate switch cabinet external operating installation size.



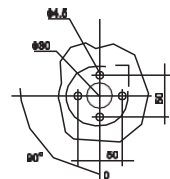
Installation size of handle base out of cabinet

6、Profile and installation size of -125A-630A/B wiring load-isolate switch behind board

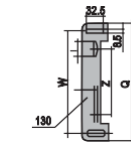




-125A~630A/JKH operating out of cabinet



Installation size of handle base out of cabinet

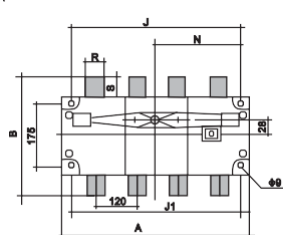


Operating and install bottom board out of cabinet

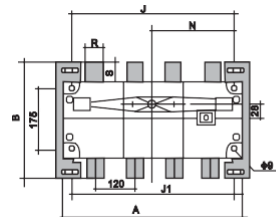
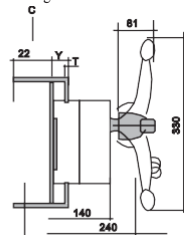
Operating and install bottom board out of cabinet

Specification	Profile size and installation size														Bottom board size			
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
125A/3	140	135	125	5	27	92	73	5.5	120	120	65	85	96	20	25	3.5	9	25 53 10
125A/4	170	135	125	5	27	92	73	5.5	150	150	65	85	96	20	25	3.5	9	25 53 10
160A/3	140	135	125	5	27	92	73	5.5	120	120	65	85	96	20	25	3.5	9	25 53 10
160A/4	170	170	125	5	27	92	73	5.5	150	150	65	85	96	20	25	3.5	9	25 53 10
200A/3	180	170	138	10	35	98	86	5.5	160	160	90	115	50	25	30	3.5	11	25 80 16
200A/4	230	170	138	10	35	98	86	5.5	210	210	90	115	50	25	30	3.5	11	25 80 16
250A/3	180	170	138	10	35	98	86	5.5	160	160	90	115	50	25	30	3.5	11	25 80 16
250A/4	230	170	138	10	35	98	86	5.5	210	210	90	115	50	25	30	3.5	11	25 80 16
315A/3	230	240	166	3	50	135	110	7	210	210	140	135	65	32	40	5	11	37 104 20
315A/4	295	240	166	3	50	135	110	7	275	275	140	135	65	32	40	5	11	37 104 20
400A/3	230	240	166	3	50	135	110	7	210	210	140	135	65	32	40	5	11	37 104 20
400A/4	295	240	166	3	50	135	110	7	275	275	140	135	65	32	40	5	11	37 104 20
500A/3	230	260	166	3	50	135	110	7	210	210	140	135	65	40	50	6	13	37 104 20
500A/4	295	260	166	3	50	135	110	7	275	275	140	135	65	40	50	6	13	37 104 20
630A/3	230	260	166	3	50	135	110	7	210	210	140	135	65	40	50	6	13	37 104 20
630A/4	295	260	166	3	50	135	110	7	275	275	140	135	65	40	50	6	13	37 104 20

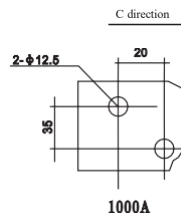
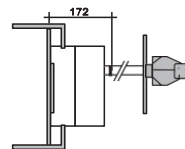
7、Profile and installation size of -1000A-1600A/B wiring load-isolate switch behind board



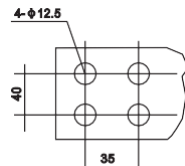
-1000A~1600A/B



-1000A-1600A/B



1000A



1250A~1600A

