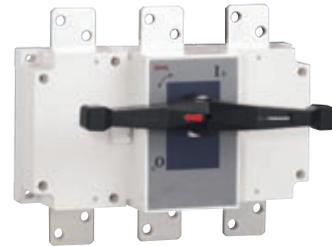
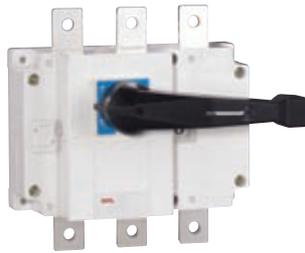


load disconnection switch



HGL Series

Load isolation switch



Model & Meaning

H GL □ - □ **A** / □ **JK** □ **B H**

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨

- ① Code of company.
- ② Code of load isolation switch.
- ③ Conventional thermal current.
Z stands for change-over load isolation switch
(Z1-outlet, Z2-inlet)
C stands for side operated load isolation switch.
- ④ Number of poles:
3 poles, 4 poles (3 poles+on and off neutral pole)
- ⑤ Operation outside, no note for front operation.
- ⑥ The window for direct observing the contact, do not mark without need.
- ⑦ Functional code of auxiliary contact (as show in the table), do not mark without need.
- ⑧ The connection behind the board. Connection in front of board is not marked.
- ⑨ Operation behind the board, do not mark without need.

One NO One NC	F11	F1NO+F1NC
Two NO Two NC	F12	F2NO+F2NC

Application scope

HGL series load isolation switch mainly suitable for AC 50Hz, rated voltage to 660V, DC rated voltage up to 440V, rated current up to 3,150A. The switch is used in the infrequent making and breaking circuit.

Example of model selection

HGLZ2-160A/4Z₂JF₁₁~380V In 125A

Change over load isolation switch, inlet, AC rated voltage 380V, Conventional thermal current 160A, rated current 125A, 4 poles, operation outside the board, auxiliary contact NO+NC.

Characteristics of products

- ※ The elastic-accumulating accelerating mechanism for instant release realizes the rapid making and breaking (13.8m/s), having no relationship with the speed of the operating handle, and increasing greatly the capability of extinguishing electric arc.
- ※ The shell made of unsaturated polyester resin reinforced by glass fibre possesses excellent performance of flame resistant, dielectric performance, safe operation, resist carbonic performance and resist impact performance.
- ※ Parallel double gap contact possesses self cleaning functions.
- ※ All the contact materials are copper alloy plated with silver, and possess two separation contact surfaces. Large clearance of insulation.
- ※ Be on "O", the products can lock the handle with three locks at the same time and thus can avoid error operation.

HGL Series

Load isolation switch

Principal technical parameter

Table 1

Conventional thermal current IthA			63A		100A		160A	
Rated current in(A)			40	63	80	80	125	160
Rated impulse withstand voltage Ui(V)			750	750	750	750	750	750
Dielectric strength(V)			5000	5000	5000	5000	5000	5000
Rated surge-resistant voltage Uimp KV (installed category IV)			6	6	6	6	8	8
Rated Working current Ie(A)	380V	AC-21	40	63	80	80	125	160
		AC-22	40	63	80	80	125	160
		AC-23	40	50	80	80	125	160
	660V	AC-21	40	50	80	80	125	160
		AC-22	32	32	50	50	125	160
		AC-23	25	25	40	40	80	80
	220V	DC-21	32	63	80	100	125	160
		DC-22	40	63	80	80	125	160
		DC-23	40	63	63	63	125	125
	440V	DC-21					100	125
		DC-22					100	125
		DC-23					100	125
Motor power P(380V)KW		380V	18.5	25	40	40	63	80
		660V	22	22	33	33	75	75
Rated short-time withstand current Icw(kA Rms)0.1s/1.0s			10/5	10/5	10/5	10/5	20/10	20/10
Rated breaking capability Icn (ARms)Ac23 380VA			320	504	640	800	1000	1000
Rated making capability Icm(ARms)AC23 380V			400	630	800	1000	1250	1250
Rated short-current making capability Icm' (Kapeak value)			7.5	7.5	10	10	12	12
Mechanical durability(number of cyclic operation)			10000	10000	10000	10000	10000	10000
Electric durability Ue=660V,Rated current		COSφ=0.95AC21	1700	1700	1700	1700	1500	1500
		COSφ=0.65AC22	100	100	100	100	1000	1000
		COSφ=0.35AC23	500	500	500	500	500	500
(Nm)Moment of operation(Nm)			1.2	1.2	1.2	1.2	6.5	6.5
Weight(kg)		3poles	0.37	0.37	0.37	0.37	1.3	1.3
		4Poles	0.41	0.41	0.41	0.41	1.5	1.5

HGL Series

Load isolation switch

Table 2

250A		630A				1600A			3150A		
200	250	315	400	630	630	1250	1250	1600	2000	2500	3150
750	750	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
5000	5000	8000	8000	800	800	10000	10000	10000	10000	10000	10000
8	8	12	12	12	12	12	12	12	12	12	12
200	250	315	400	630	630	1000	1250	1600	2000	2500	3150
200	250	315	400	630	630	1000	1250	1600	2000	2000	3150
200	250	315	340	536	536				2000		
200	250	315	400	500	500	1000	1000	1600	1000	2500	2500
160	160	315	315	315	315	800	800	800		1000	1000
100	125	125	125	125	125						
200	250	315	400	630	630	1000	1250	1600	2000	2500	2500
200	250	315	400	500	500	1000	1250	1250	1600	1600	1600
160	200										
160	200	315	400	500	500	1000	1250	1250	2000		2000
160	200	315	400	500	500	1000	1250	1250	1250	2000	1250
160	200	315	400	500	500	1000	1000	1000		1250	
100	132	160	220	315	315	560	560	560	710	710	710
90	110	185	185	185	185	475	475	475	750	750	750
30/12	30/12	45/20	45/20	50/25	50/25	90/50	90/50	90/50	90/50	90/50	90/50
1600	1600	2500	2500	3200	3200						
2000	2000	3150	3150	4000	4000						
17	17	30	30	40	40						
1000	10000	5500	5500	5500	5500	4000	4000	3000	2500	2500	2500
1500	1500	750	750	750	750	600	600	450			
1000	1000	500	500	500	500	400	400	300			
500	500	250	250	250	250	200	200	150			
10	10	14.5	14.5	14.5	14.5	37	37	60	90	60	60
2.2	2.2	4.3	4.3	4.7	4.7	10.5	10.5	16	25.5	25.5	31
2.6	2.6	5.4	5.4	6	6	13	13	20	37.5	37.5	51.5

Conformed standard

International standard

IEC60947-1 (1998) 《Low-voltage switchgear and controlgear, part one: General Rules 》 .

IEC60947-3 (1999) 《Low-voltage switchgear and controlgear, switches, disconnectors, switch-disconnectors and fuse-combination units 》 .

National standard

GB/T14048.1-2000 《Low-voltage switchgear and controlgear, part one: general Rules 》 .

GB/T14048.3-2000 《Low-voltage switchgear and controlgear, switches, disconnectors, switch-disconnectors and fuse-combination units 》 .

Normal work conditions and Installation conditions

- ※ Ambient temperature: $-5^{\circ}\text{C}\sim 40^{\circ}\text{C}$, relative humidity is not larger than 95%.
- ※ Altitude: shall not exceed 2000m.
- ※ No explosive dangerous medium environment.
- ※ No rain and snow attack environment.

Note: if the load isolation switch is expected to be used in the condition that the ambient temperature is higher than $+40^{\circ}\text{C}$ or is lower than -5°C , customers should inform to the manufactory.

Load isolation switch of HGL-63~3150A

7 specifications of HGL load isolation switch from 63A to 3150A: Basic model of modularized design, 3 poles, 4 poles (3 poles+on and off neutral pole). It is suitable for the making and breaking operation of electric circuit or electric isolation. Switches over 1000A are only suitable for electric isolation.

Mark window is set in the front side to indicate the on and off state of the contact.

Rear observation window can be provided according to the demand to observe directly the on and off state of the contact, for window pattern, refer to the back operational load isolation switch, HGL-63~1600A/H.

Two group of auxiliary contacts can be assembled.

The electric cable insulating cover can be assembled.

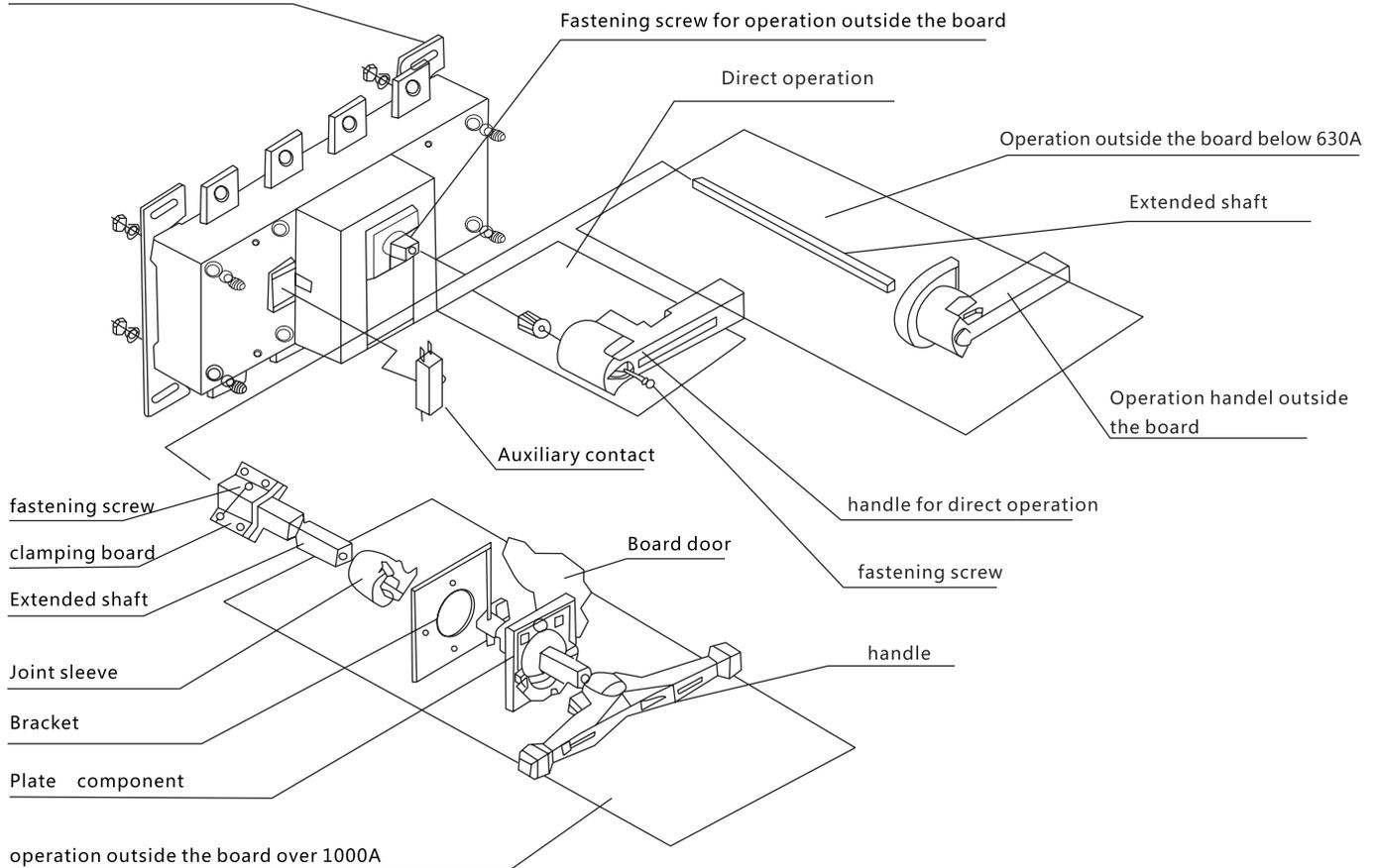
HGL Series

Load isolation switch

Operation mode

- Direct operation: The handle is installed directly in the middle of the switch. Operation outside the board:
- The handle is installed outside the door of the distributing board.

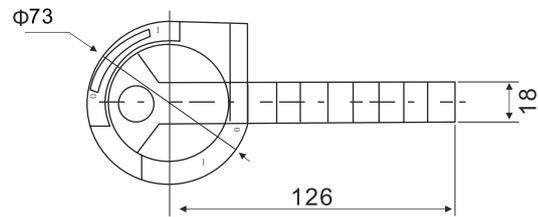
Bottom board used for installing the observing window
 Installing bottom board used for operation outside the board



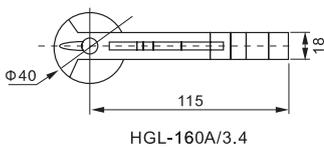
HGL-160A~3150A Load isolation switch

Note : Standard length of extended shaft is

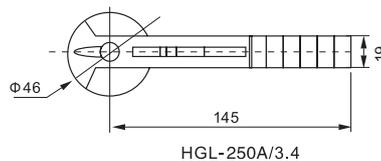
- 160A, 250A: 330m
- 630A: 300m;
- 1600A, 3150A: 330m



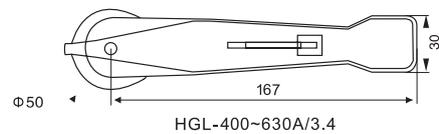
HGL-160~630A/3.4J



HGL-160A/3.4



HGL-250A/3.4



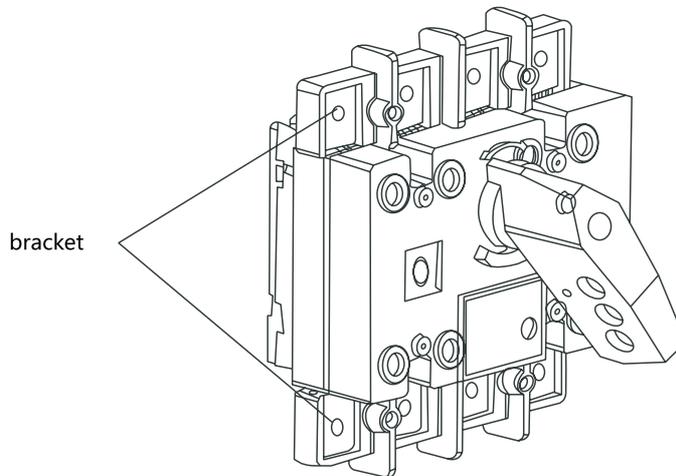
HGL-400~630A/3.4

HGL Series

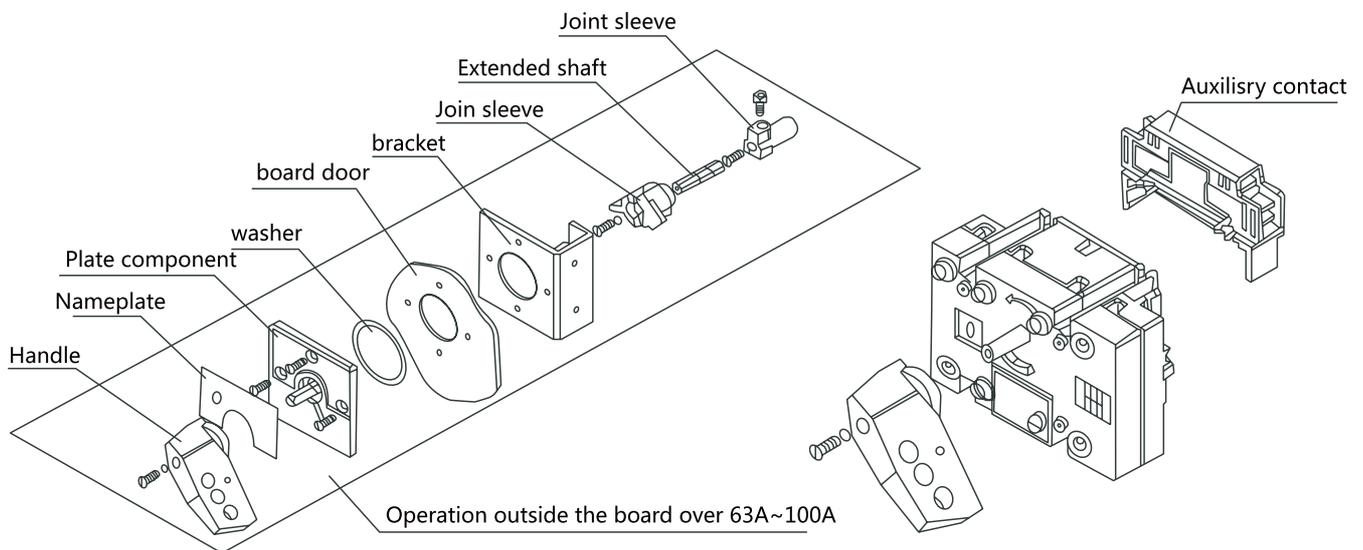
Load isolation switch

Load isolation switch of HGL-63A~100A

- ※ 63A~100A is suitable for the making and breaking of electrical isolation circuit or electric insulation.
- ※ 63A~100A possesses 3 poles, and 4 poles (3 poles+on of neutral pole).
- ※ Two sets of auxiliary contacts can be assembled according to demand.
- ※ Side operation, operation outside, the board can be assemble according to demand.



Note: It's HGL-100A~630A loading isolation switch which is no span



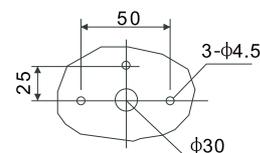
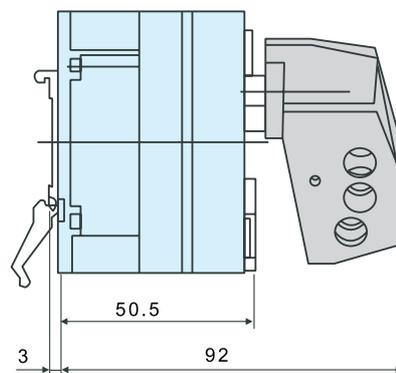
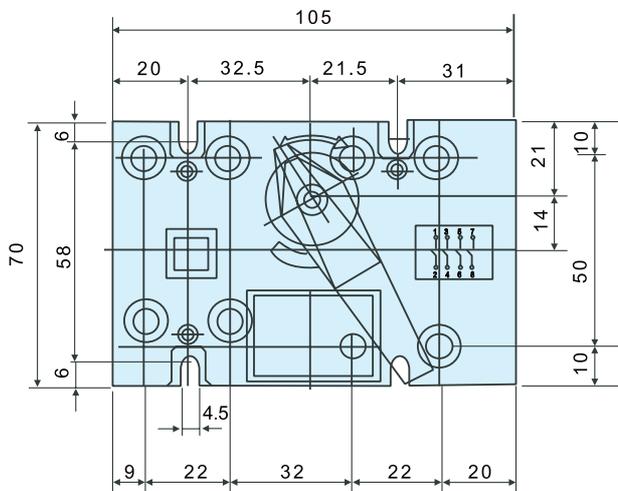
- ※ 63A~100A is suitable for the making and breaking of electrical isolation circuit or electric insulation. Two sets of auxiliary contacts can be assembled according to demand.
- ※ 63A~100A possesses three poles, and four poles (3 poles+on of neutral pole). Side operation, operation outside, the board can be assemble according to demand.

HGL Series

Load isolation switch

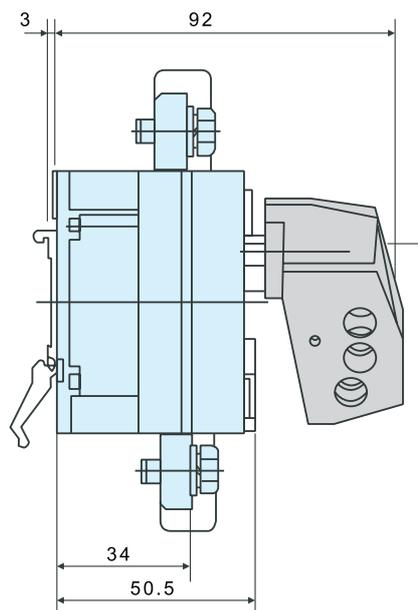
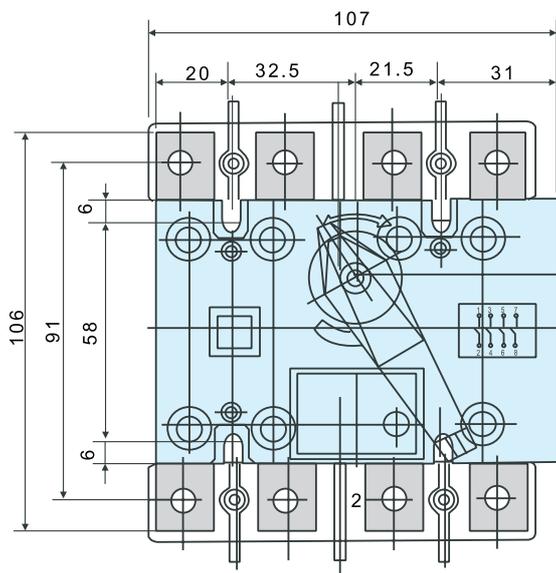
Overall & Installation Dimension

Load isolation switch side operation load isolation switch of HGL-63A~100A



Direct operation of HGL-63A

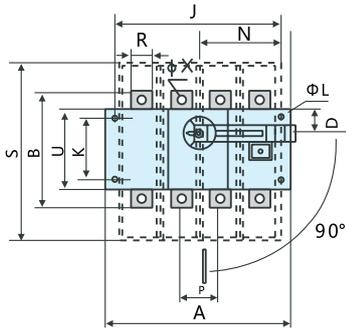
Installation Size of handle seat outside board.



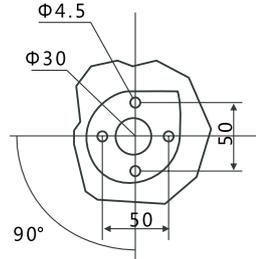
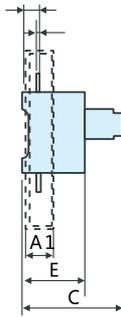
Direct operation of HGL-100A

HGL Series

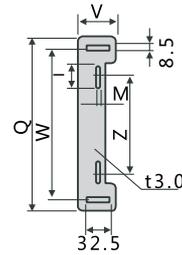
Load isolation switch



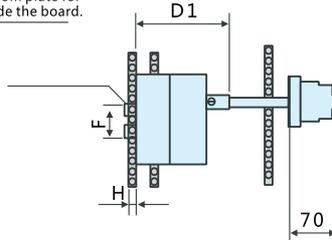
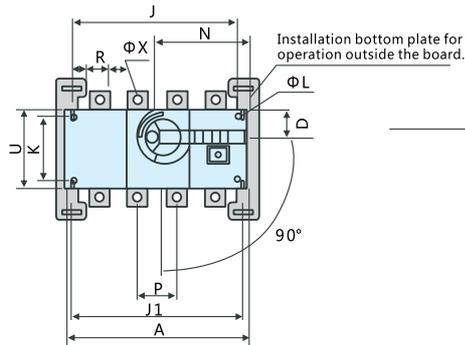
Direct operation of HGL-160A~630A



Installation size of handle seat outside board.



Installation bottom plate for operation outside the board.



Operation outside HGL-160A~630A/JK

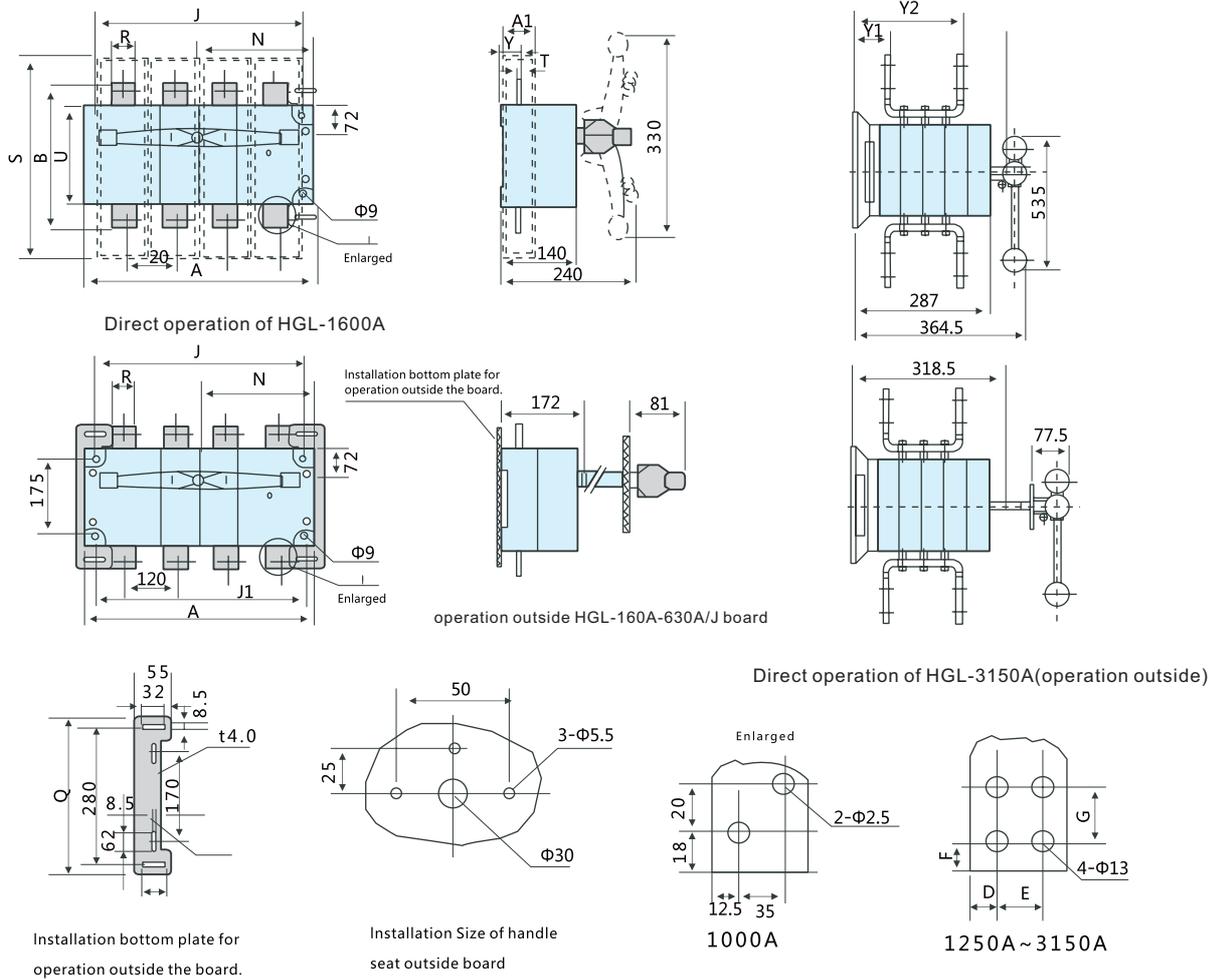
Specification	Dimension of bottom board					
	I	M	Z	W	Q	V
125~630A						
125A	55	5.5	85	190	218	54
160A	55	5.5	85	190	218	54
200A	55	5.5	85	190	218	54
250A	55	5.5	85	190	218	54
315A	60	6.5	130	240	270	55
400A	60	6.5	130	240	270	55
500A	60	6.5	130	240	270	55
630A	60	6.5	130	240	270	55

In	A	B	C	D	D1	E	ΦL	J	K	N	P	R	S	U	ΦX	Y	F	H
125A/3	140	135	121	27	93	71	5.5	120	65	75	36	20	25	115	9	24	50	10
125A/4	170	135	121	27	93	71	5.5	150	65	75	36	20	25	115	9	24	50	10
160A/3	140	135	121	27	93	71	5.5	120	65	75	36	20	25	115	9	24	50	10
160A/4	170	135	121	27	93	71	5.5	150	65	75	36	20	25	115	9	24	50	10
200A/3	180	170	144	35	104	84	5.5	160	90	105	50	25	30	140	11	25	79	15
200A/4	230	170	144	35	104	84	5.5	210	90	105	50	25	30	140	11	25	79	15
250A/3	180	170	144	35	104	84	5.5	160	90	105	50	25	30	140	11	25	79	15
250A/4	230	170	144	35	104	84	5.5	210	90	105	50	25	30	140	11	25	79	15
315A/3	230	240	179	50	137	115	7	210	140	135	65	32	40	206	11	37	95	20
315A/4	290	240	179	50	137	115	7	270	140	135	65	32	40	206	11	37	95	20
400A/3	230	240	179	50	137	115	7	210	140	135	65	32	40	206	11	37	95	20
400A/4	290	240	179	50	137	115	7	270	140	135	65	32	40	206	11	37	95	20
500A/3	230	260	179	50	137	115	7	210	140	135	65	40	50	220	13	37.5	95	20
500A/4	290	260	179	50	137	115	7	270	140	135	65	40	50	220	13	37.5	95	20
630A/3	230	260	179	50	137	115	7	210	140	135	65	40	50	220	13	37.5	95	20
630A/4	290	260	179	50	137	115	7	270	140	135	65	40	50	220	13	37.5	95	20

HGL Series

Load isolation switch

Load isolation switch side operation load isolation switch of HGL-1600A~3150A

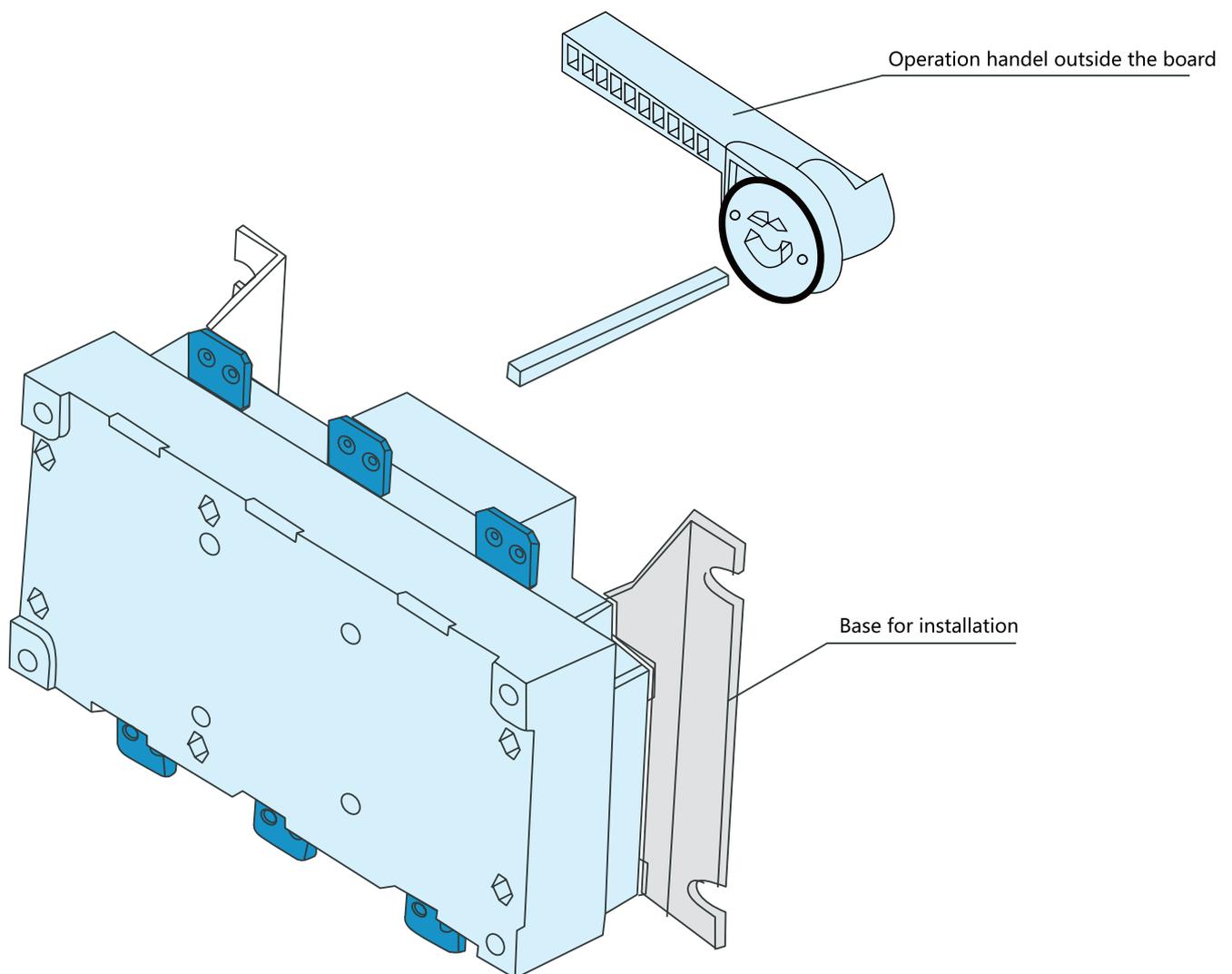


In	A	A1	B	J	N	R	U	Y	Y1	Y2
1000A/3	378	105	310	353	171	60	200	48		
1000A/4	498	105	310	473	231	60	200	48		
1250A/3	378	105	336	353	171	80	200	48		
1250A/4	498	105	336	473	231	80	200	48		
1600A/3	378	105	336	353	171	80	200	49		
1600A/4	498	105	336	473	231	80	200	49		
2000A/3	378		455	353	171	80	200		78.5	225.5
2000A/4	498		455	473	231	80	200		78.5	225.5
2500A/3	378		455	353	171	80	200		78.5	225.5
2500A/4	498		455	473	231	80	200		78.5	225.5
3150A/3	378		505	353	171	120	200		78.5	227
3150A/4	498		505	473	231	120	200		78.5	227

HGL Series**Load isolation switch****Operation load Isolation switch behind the behind the HGL-160A~1600A/H board**

- 160A~1600 is suitable for the making and breaking of electrical isolation circuit or electric insulation. Those over In 1,1000A are only suitable for electric isolation.
- 160A~1600A possesses three poles and four poles (three poles +on -off neutral pole).
- Observation window for products below 630A can be provided according to the demand to observe directly the on and off state of the contact.
- Two sets of auxiliary contacts can be assembled according to demand.
Mechanical property and electric property correspon

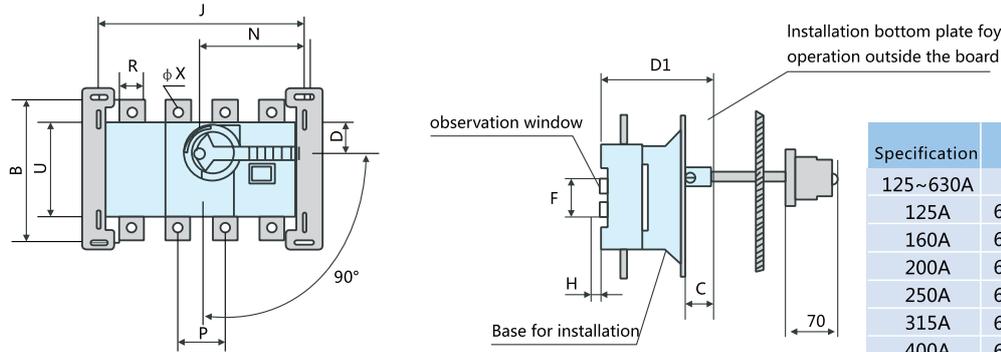
Note:only offer products for operation outside the board.



HGL Series

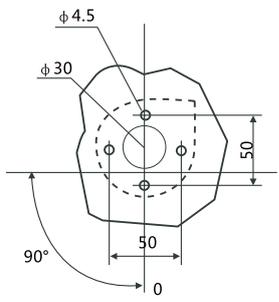
Load isolation switch

External dimension and installed dimension of operation load isolation switch behind the HGL-160A~630A/H board

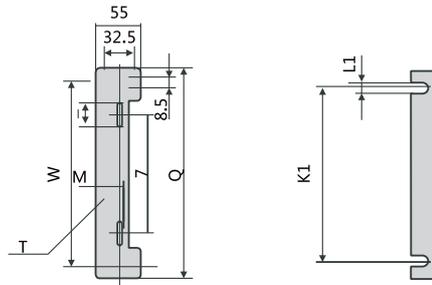


Operation outside HGL-160A~630A/JHK board

Specification	Dimension of bottom board					
	I	M	Z	W	Q	T
125A	60	6.5	115	240	270	3
160A	60	6.5	115	240	270	3
200A	62	8.5	115	240	270	3
250A	62	8.5	115	240	270	3
315A	65	11	170	280	311	4
400A	65	11	170	280	311	4
500A	65	11	170	280	311	4
630A	65	11	170	280	311	4



Installation size of handle seat outside board



Installation bottom plate for operation outside the board

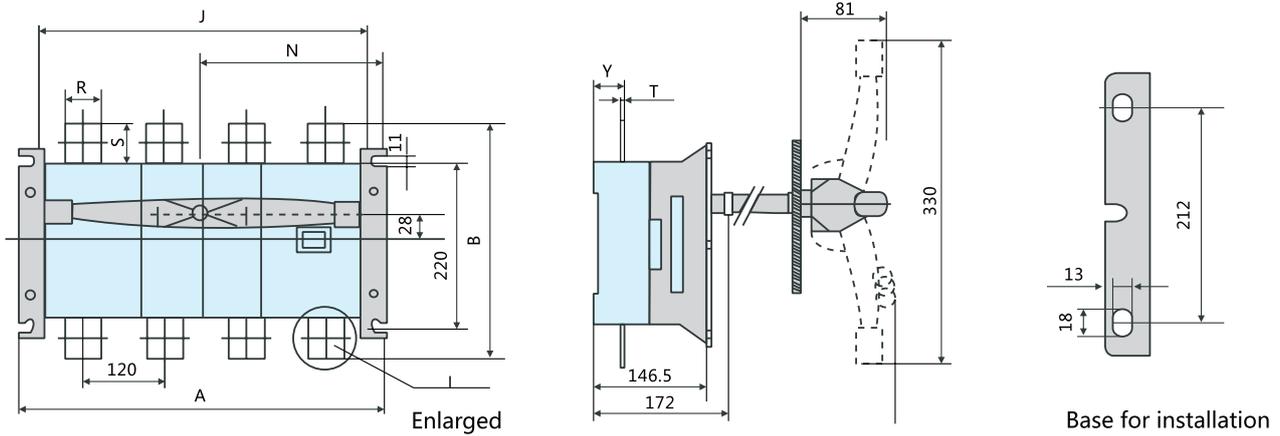
Specification	Dimension of bottom board	
	K1	L1
125~630A		
125A	95	7
160A	95	7
200A	116	9
250A	116	9
315A	180	11
400A	180	11
500A	180	11
630A	180	11

specification	External dimension and installation dimension											
	In	B	C	D	D1	J	N	P	R	U	ΦX	F
125A/3	135	14	27	92	120	85	36	20	85	9	52	10
125A/4	135	14	27	92	150	85	36	20	85	9	52	10
160A/3	135	14	27	92	120	85	36	20	85	9	52	10
160A/4	135	14	27	92	150	85	36	20	85	9	52	10
200A/3	170	16	35	104	160	115	50	25	110	11	79	13
200A/4	170	16	35	104	210	115	50	25	110	11	79	13
250A/3	170	16	35	104	160	115	50	25	110	11	79	13
250A/4	170	16	35	104	210	115	50	25	110	11	79	13
315A/3	240	15	50	133	210	145	65	30	160	11	100	24
315A/4	240	15	50	133	270	145	65	30	160	11	100	24
400A/3	240	15	50	133	210	145	65	30	160	11	100	24
400A/4	240	15	50	133	270	145	65	30	160	11	100	24
500A/3	260	15	50	133	210	145	65	40	160	12	100	24
500A/4	260	15	50	133	270	145	65	40	160	12	100	24
630A/3	260	15	50	133	210	145	65	40	160	12	100	24
630A/4	260	15	50	133	270	145	65	40	160	12	100	24

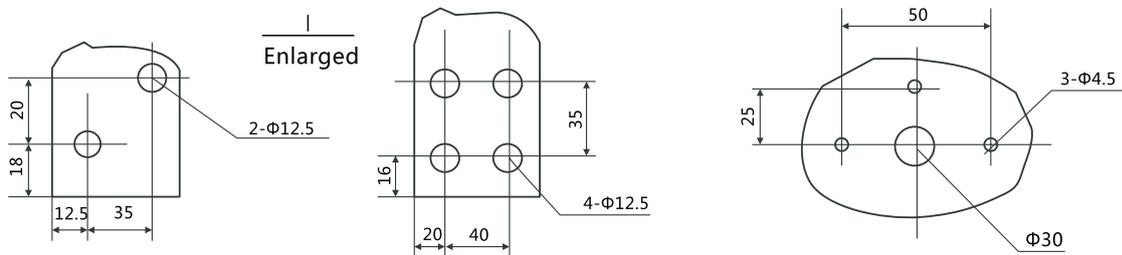
HGL Series

Load isolation switch

External dimension and installed dimension of operation isolation switch behind the HGL-1600A/H board



HGL-1600A/JH operation outside board



1000A

1250A-1600A

Installation size of handle seat outside board

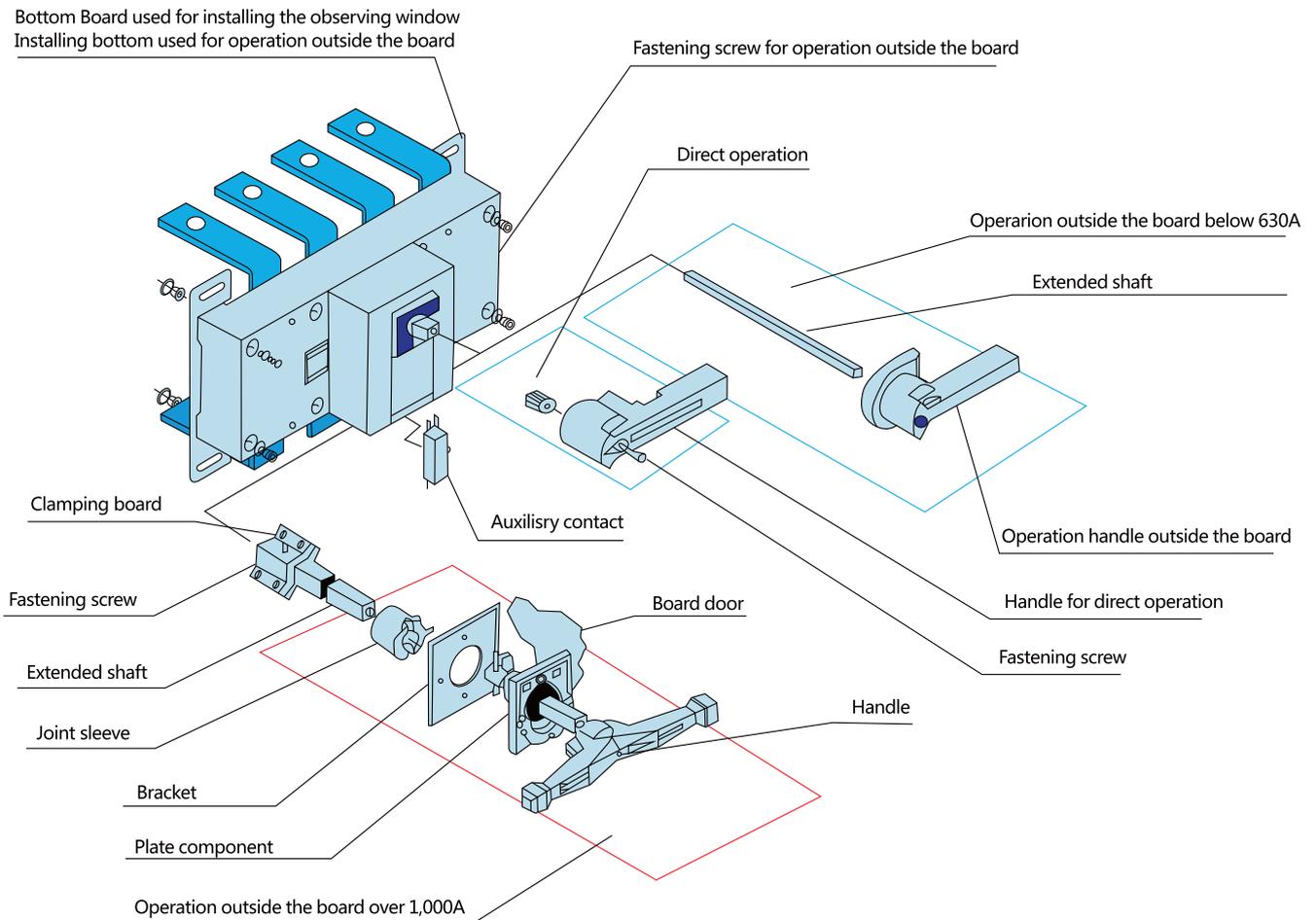
Specification	External dimension and installation dimension								
	In	A	B	J	N	R	S	T	Y
1000A/3		378	312	353	186	60	56	8	48
1000A/4		492	312	467	246	60	56	8	48
1250A/3		378	338	353	186	80	69	8	48
1250A/4		492	338	467	246	80	69	8	48
1600A/3		378	338	353	186	80	69	10	49
1600A/4		492	338	467	246	80	69	10	49

HGL Series

Load isolation switch

Connection load isolation switch behind HGL-1600A/B board

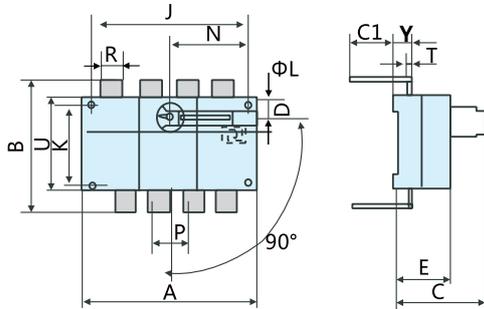
- 160A~1600A is suitable for the making and breaking of electric circuit or electric isolation. Over 1000A is only suitable for electric isolation.
- 160A~1600A has three poles, and four poles (three poles+on and off neutral pole).
- Products below 630A with observation window can be provided according to the demand to directly the on and off state of contact
- Two sets of auxiliary contacts is assembled according to the demand.
- Mechanical performance and electric property correspond to the mechanical performance and electrical property of HGL-160~1600A.



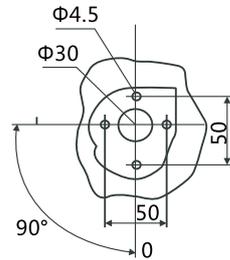
HGL Series

Load isolation switch

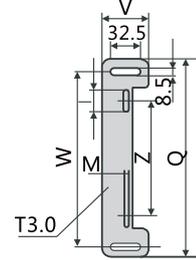
External dimension and installed dimension of HGL-160A~630A/B load isolation switch



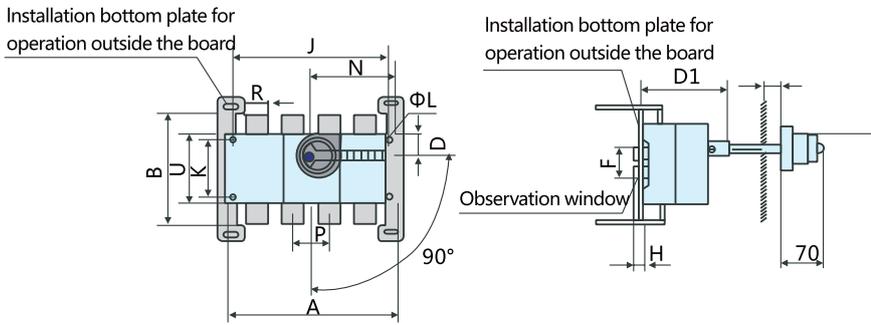
Direct operation of HGL-160A~630A/B



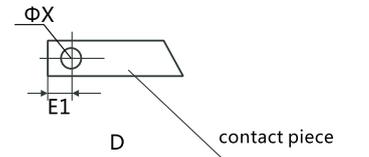
Installation size of handle seat outside board



Installation bottom plate for operation outside the board



Operation outside the HGL-160A/B board



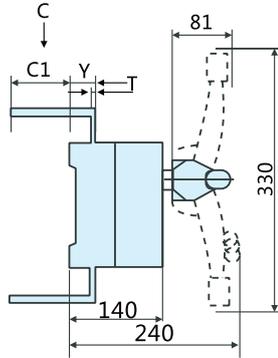
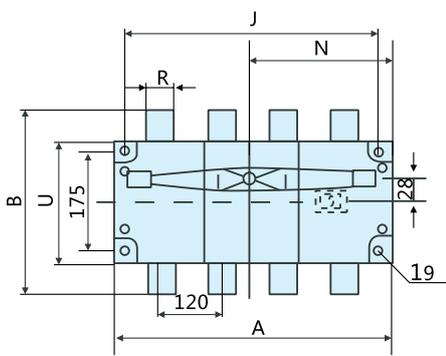
Specification	Dimension of bottom board					
	I	M	Z	W	Q	T
125~630A						
125A	55	5.5	85	190	218	54
160A	55	5.5	85	190	218	54
200A	55	5.5	85	190	218	54
250A	55	5.5	85	190	218	54
315A	60	6.5	130	240	270	55
400A	60	6.5	130	240	270	55
500A	60	6.5	130	240	270	55
630A	60	6.5	130	240	270	55

specification	External dimension and installation dimension																			
	In	A	B	C	C1	D	D1	E	E1	ΦL	J	K	N	P	R	U	T	ΦX	Y	F
125A/3	140	189	116	6	27	92	71	10	5.5	120	65	85	36	20	85	3.5	9	24	52	10
125A/4	170	189	116	6	27	92	71	10	5.5	150	65	85	36	20	85	3.5	9	24	52	10
160A/3	140	189	116	6	27	92	71	10	5.5	120	65	85	36	20	85	3.5	9	24	52	10
160A/4	170	189	116	6	27	92	71	10	5.5	150	65	85	36	20	85	3.5	9	24	52	10
200A/3	180	222	128	10	35	104	83	15	5.5	160	90	115	50	25	110	3.5	11	25	52	13
200A/4	230	222	128	10	35	104	83	15	5.5	210	90	115	50	25	110	3.5	11	25	79	13
250A/3	180	222	128	10	35	104	83	15	5.5	160	90	115	50	25	110	3.5	11	25	79	13
250A/4	230	222	128	10	35	104	83	15	5.5	210	90	115	50	25	110	3.5	11	25	79	13
315A/3	230	284	169	4	50	133	113	17	7	210	140	145	65	30	160	5	11	36	100	24
315A/4	290	284	169	4	50	133	113	17	7	270	140	145	65	30	160	5	11	36	100	24
400A/3	230	284	169	4	50	133	113	17	7	210	140	145	65	30	160	5	11	36	100	24
400A/4	290	284	169	4	50	133	113	17	7	270	140	145	65	30	160	5	11	36	100	24
500A/3	230	294	169	14	50	133	113	20	7	210	140	145	65	40	160	6	13	36	100	24
500A/4	290	294	169	14	50	133	113	20	7	270	140	145	65	40	160	6	13	36	100	24
630A/3	230	294	169	14	50	133	113	20	7	210	140	145	65	40	160	6	13	36	100	24
630A/4	290	294	169	14	50	133	113	20	7	270	140	145	65	40	160	6	13	36	100	24

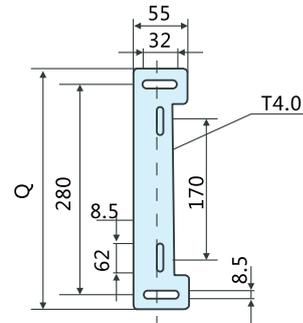
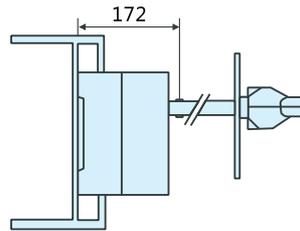
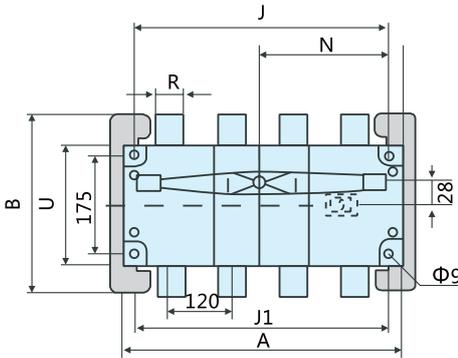
HGL Series

Load isolation switch

External dimension and installed dimension of HGL-1600A/B load isolation switch wire at the back

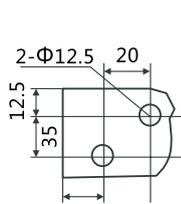


HGL-1600A direct operation

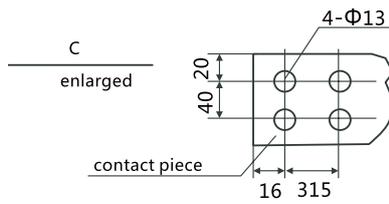


Installation bottom plate for operation outside the board

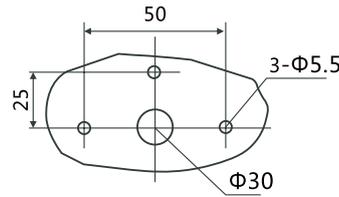
HGL-1600A/JB operation outside board



1000A



1250A-1600A



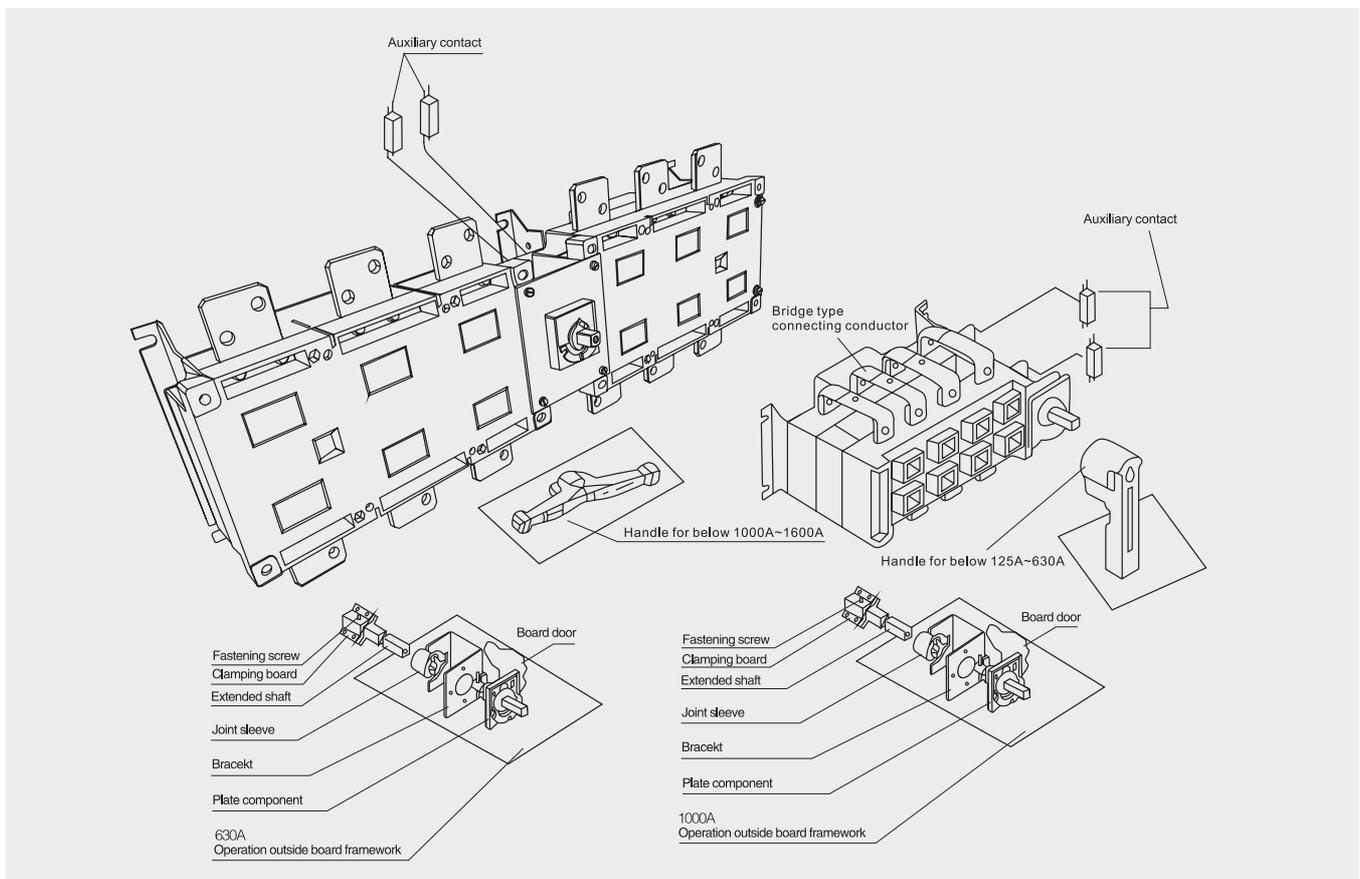
Installation size of handle seat outside board

Specification	External dimension and installation dimension											
	In	A	B	C1	J	J1	N	R	U	T	Q	Y
1000A/3		378	344	22	353	353	186	60	200	8	311	48
1000A/4		492	444	22	467	467	246	60	200	8	311	48
1250A/3		378	344	32	353	353	186	80	200	8	311	48
1250A/4		492	444	32	467	467	246	80	200	8	311	48
1600A/3		378	348	32	353	353	186	80	200	10	311	49
1600A/4		492	448	32	467	467	246	80	200	10	311	49

HGLZ Series**Change-over load isolation switch****HGLZ-160A~1600A changeover load isolation switch**

- ※ HGLZ-160A~1600A. The load isolation switch is suitable for the changeover of two sets of low voltage electric circuit or the changeover of 2 sets of load devices or safety isolation.
- ※ Mode of operation: Direct operation: handle is installed on the switch. Operation outside the board: handle is installed outside the door of power distributing board.
- ※ Products with observation windows can be provided according to the demand to observe directly the on and off state of contact.
- ※ The products have three poles, four poles (three poles+on and off neural pole).
- ※ Extended shaft is used for the operation outside the board.
- ※ Two sets of auxiliary contacts can be assembled according to the demand.
- ※ Mechanical performance and electrical performance correspond to the mechanical property of HGLZ-160A~1600A.
- ※ A bridge can provided to connect the inlet or outlet terminal of the switch.
- ※ The electric cable insulating cover can be assembled.

Note: the bridge connection is chosen, an explanation is needed to indicate the inlet or outlet is connected with it.



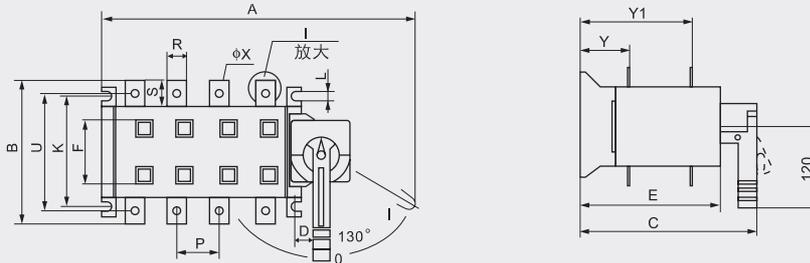
HGLZ Series

Change-over load isolation switch

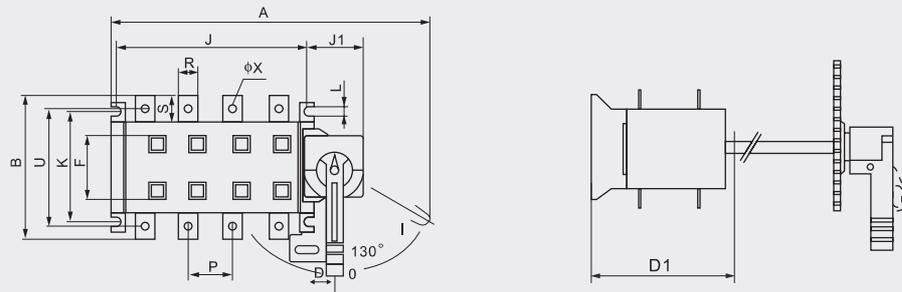
Overall & Installation Dimension

External dimension and installation dimension of HGLZ1-160A~1600A side operation load isolation switch

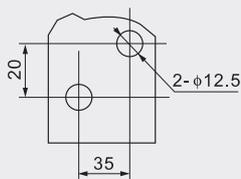
Direct operation of HGLZ1-160A~1600A



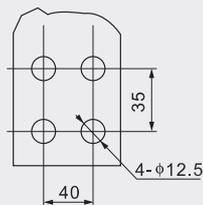
Operation outside of HGLZ1-160A~1600A



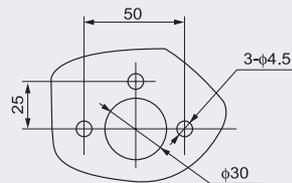
1000A



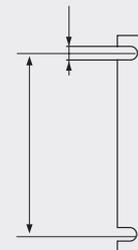
1250A~1600A



Installation size handle seat outside board



Mounting foot



Mounting foot above 1000A



Specification	K1	L1
HGLZ-125~160A	95	7
HGLZ-200~250A	115	9
HGLZ-315~630A	180	11

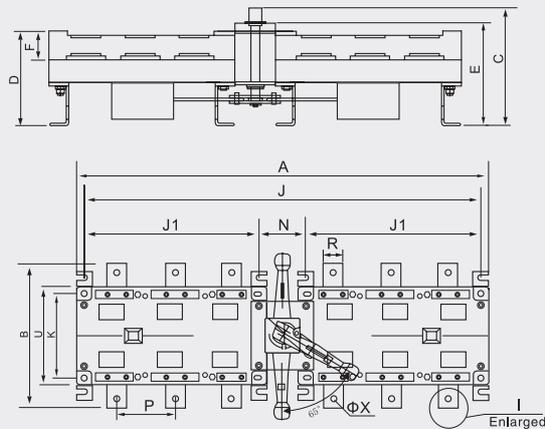
HGLZ Series

Change-over load isolation switch

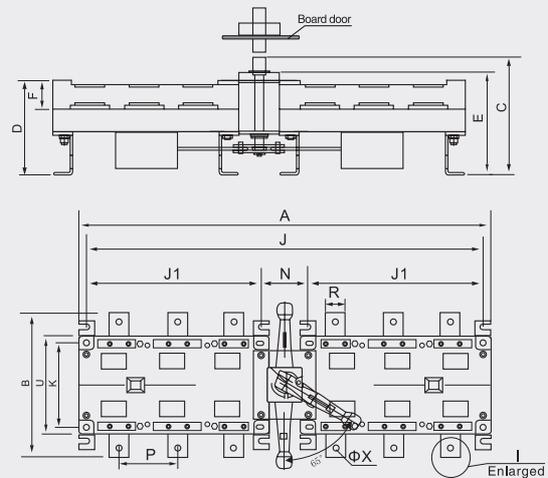
In	A	B	C	D	D1	E	J	J1	K	L	P	R	U	ΦX	Y	Y1
125A~160A/3	267	135	212	29	187	153	120	65	95	7	36	20	115	9	55	121
125A~160A/4	297	135	212	29	187	153	150	65	95	7	36	20	115	9	55	121
200A~250A/3	308	170	251	30	216	182	160	65	116	9	50	25	140	11	64	146
200A~250A/4	358	170	251	30	216	182	210	65	116	9	50	25	140	11	64	146
315A~400A/3	420	240	322	45	277	243	210	77	179	11	65	32	206	11	83	193
315A~400A/4	490	240	322	45	277	243	270	77	179	11	65	32	206	11	83	193
500A~630A/3	420	240	322	45	277	243	210	77	179	11	65	40	220	13	83	193
500A~630A/4	490	240	322	45	277	243	270	77	179	11	65	40	220	13	83	193
1000A/3	583	312	397	52.5	352	309	353	108.5	220	11	120	60	235	13	107	251.5
1000A/4	703	312	397	52.5	352	309	473	108.5	220	11	120	60	235	13	107	251.5
1250A/3	583	338	397	52.5	352	309	353	108.5	220	11	120	80	233	13	107	251.5
1250A/4	703	338	397	52.5	352	309	473	108.5	220	11	120	80	233	13	107	251.5
1600A/3	583	338	397	52.5	352	309	353	108.5	220	11	120	80	233	13	108	251.5
1600A/4	703	338	397	52.5	352	309	473	108.5	220	11	120	80	233	13	108	251.5

External dimension and installation dimension of HGLZ2-160A~1600A side operation load isolation switch

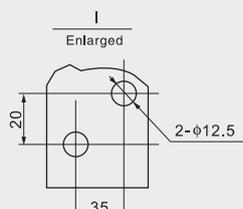
Operation inside of HGLZ2-160A~1600A



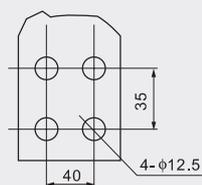
Operation outside of HGLZ2-160A~1600A



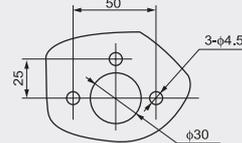
1000A



1250A~1600A



Installation size handle seat outside board



Mounting foot

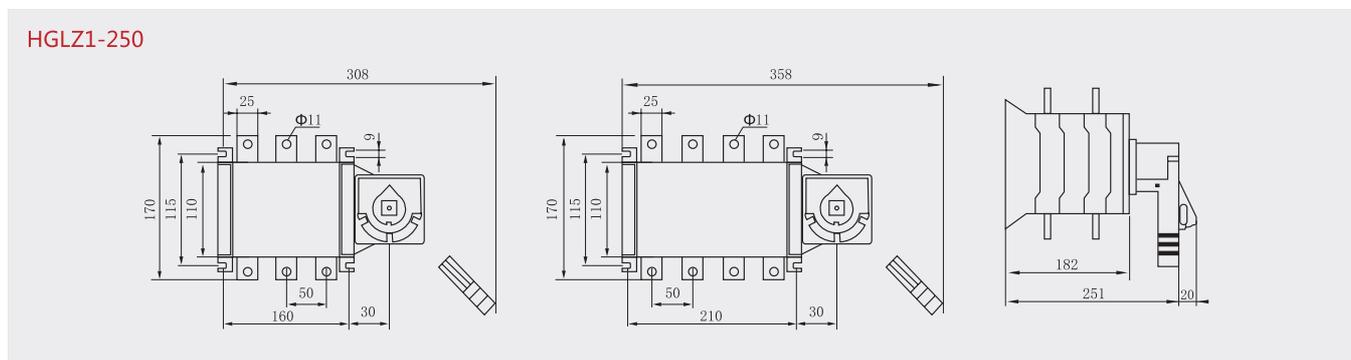
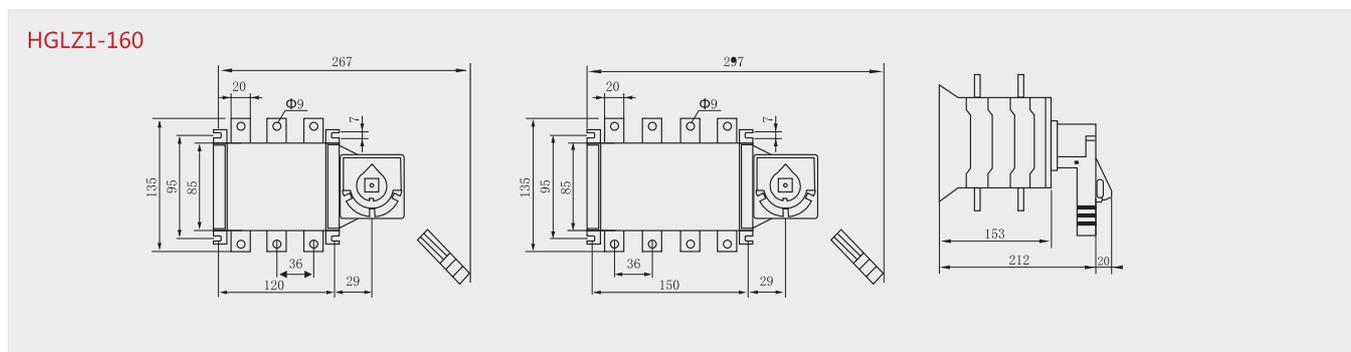


HGLZ Series

Change-over load isolation switch

In	A	B	C	D	E	F	J	J1	K	N	P	R	U	ΦX
125A~160A/3	319	135	125	67	89	24	299	120	65	59	36	20	85	9
125A~160A/4	379	135	125	67	89	24	359	150	65	59	36	20	85	9
200A~250A/3	405	170	134	79	104	25	385	160	90	65	50	25	110	11
200A~250A/4	505	170	134	79	104	25	485	160	90	65	50	25	110	11
315A~400A/3	535	240	166	108	131	37	515	210	140	95	65	32	160	11
315A~400A/4	655	240	166	108	131	37	635	270	140	95	65	32	160	11
500A~630A/3	535	260	166	108	131	37.5	515	210	140	95	65	10	160	13
500A~630A/4	655	260	166	108	131	37.5	635	270	140	95	65	10	160	13
1000A/3	836	310	192	150	163	48	811	353	175	105	120	60	200	13
1000A/4	1076	310	192	150	163	48	1051	473	175	105	120	60	200	13
1250A/3	836	336	192	150	163	48	811	353	175	105	120	60	200	13
1250A/4	1076	336	192	150	163	48	1051	473	175	105	120	60	200	13
1600A/3	836	336	192	150	163	49	811	353	175	105	120	60	200	13
1600A/4	1076	336	192	150	163	49	1051	473	175	105	120	60	200	13

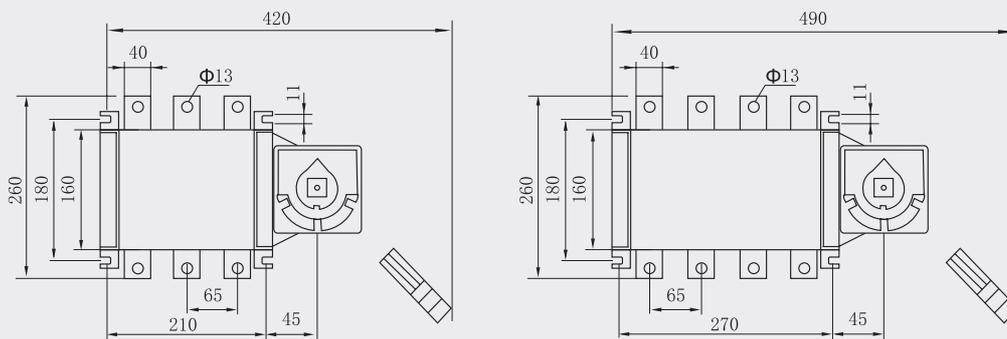
External dimension and installation dimension of HGLZ1-160A~1600A side operation load isolation switch



HGLZ Series

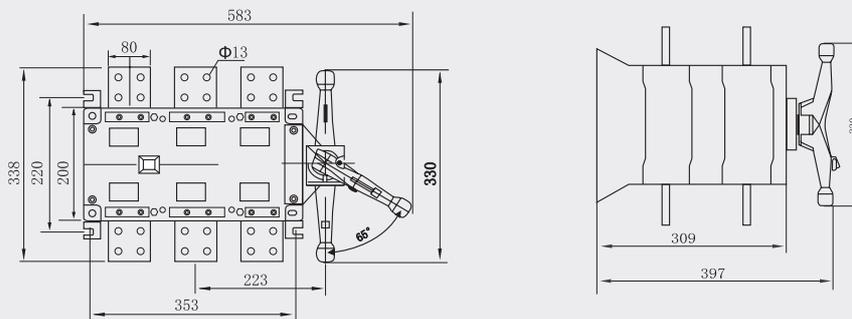
Change-over load isolation switch

HGLZ1-630

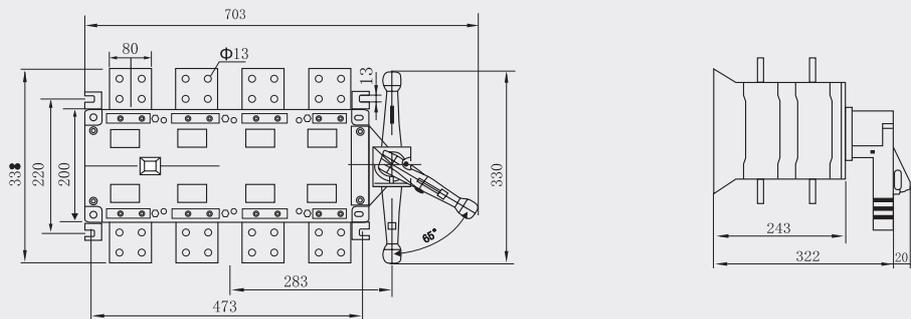


External dimension and installation dimension of HGLZ1-160A~1600A side operation load isolation switch

HGLZ1-1600



HGLZ1-1600



HGLR Series**Switch-disconnector-fuse****Model & Meaning**

H **GLR** - □ **A** / □ - □ **C** **J** □ **B** □

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

- ① Code of company.
- ② Fuse combination switches.
- ③ Conventional thermal current.
- ④ Rated current A for fuse-link.
- ⑤ Number of poles:
3 poles, 4 poles (3 poles+on and off neutral pole)
- ⑥ Side operation, no note for front operation.
- ⑦ External operation standard extended shaft 330mm
If there is special requirements, mark after J, no note for internal operation.
- ⑧ Auxiliary contact.
- ⑨ The connection behind the board. Connection in front of board is not marked.
- ⑩ Form: I modular (160A~1400A)
II integrated (400A~630A)

Note: Function in brackets will not be noted if it is not needed.

I : S-NO+NC S type auxiliary contacts

II: F-NO+NC S type auxiliary contacts

Introduction

HGLR series fuse combination switches (hereinafter called as switch for short) is a kind of multi-poles hand-operated switch, adopting the shell made of unsaturated polyester resin reinforced with glass-fibres, having very high dielectric performance, protective capability and safe operation.

The operating device is an elastic-accumulating and accelerating instant-release device, which makes instant making and breaking of the double gap contact. It has no relation ship with the operation handle and thus greatly increase both the various electrical and mechanical performance. The fuse combination switches can assure the circuit to be turned making and breaking under load, having reliable breaking protection against over-current or short-circuit apparent visible the off state.

Having strong humidity and heat resistant properties.

The switch has an artistic, novel, succinct, small-sized outline, but has various functions, being the best choice among the congeneric products.

Example of model selection

HGLR-160A/3C

Conventional thermal current 160A, 3 poles, side operation side the board.

HGLR Series

Switch-disconnector-fuse

Rated current A for fuse combination switches(A)	Rated current A for fuse-link(A)	Fuse-link dimension
63	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63	00C
160	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160	00
250	16, 20, 25, 40, 50, 63, 80, 100, 125, 160, 200, 250	1
400	50, 63, 80, 100, 125, 160, 200, 250, 315, 400	2
630	200, 250, 300, 400, 500, 630	3
1250	800, 1000, 1250	4

Characteristics of products

- ※ The elastic-accumulation and instant-release mechanical realize the fast on and off (13.8m/s). Having no relation ship with the speed of the handle and thus increasing various electrical properties.
- ※ The shell made of unsaturated polyester resin reinforced with glass fibres has fine fire-resistant dielectric and safe-operational properties.
- ※ The parallel double gap contact has self-cleaning function.
- ※ It can assure the circuit to be turned making and breaking under load, and has relicable over-current and short-circuit protection function.
- ※ when change fuse, it can be safety, facility, fast.

Normal work conditions and Installation conditions

- ※ Ambient temperature:-5°C~40°C.
- ※ Altitude: shall not exceed 2000m.
- ※ The atmosphere condition: The relative humidity shall not exceed 50% when the environmental temperature is +40°C in installing place; And the relative humidity may be higher at the lowtemperature condition. Such as when the humidity is 90% when the temperature is +20°C. It shall take some special management to avoid the dew occurs on the product surface due to temperature change.
- ※ Pollution grade:III
- ※ The product shall be installed in the place without remarkable shake, strke and quiver, rain and snow, in the medium without danger of exploding, and in the places without gas and conductive dust, with can make the metal go rust and affect insulation performances.

HGLR-63~1250 Type of fuse combination switches

HGLR-63~400 is of modular design structure.

HGLR-63~1250 is Overall design structure.

Ensure making and break under load, reliable over-current and short-circuit off-protection.

Structures and operation forms:

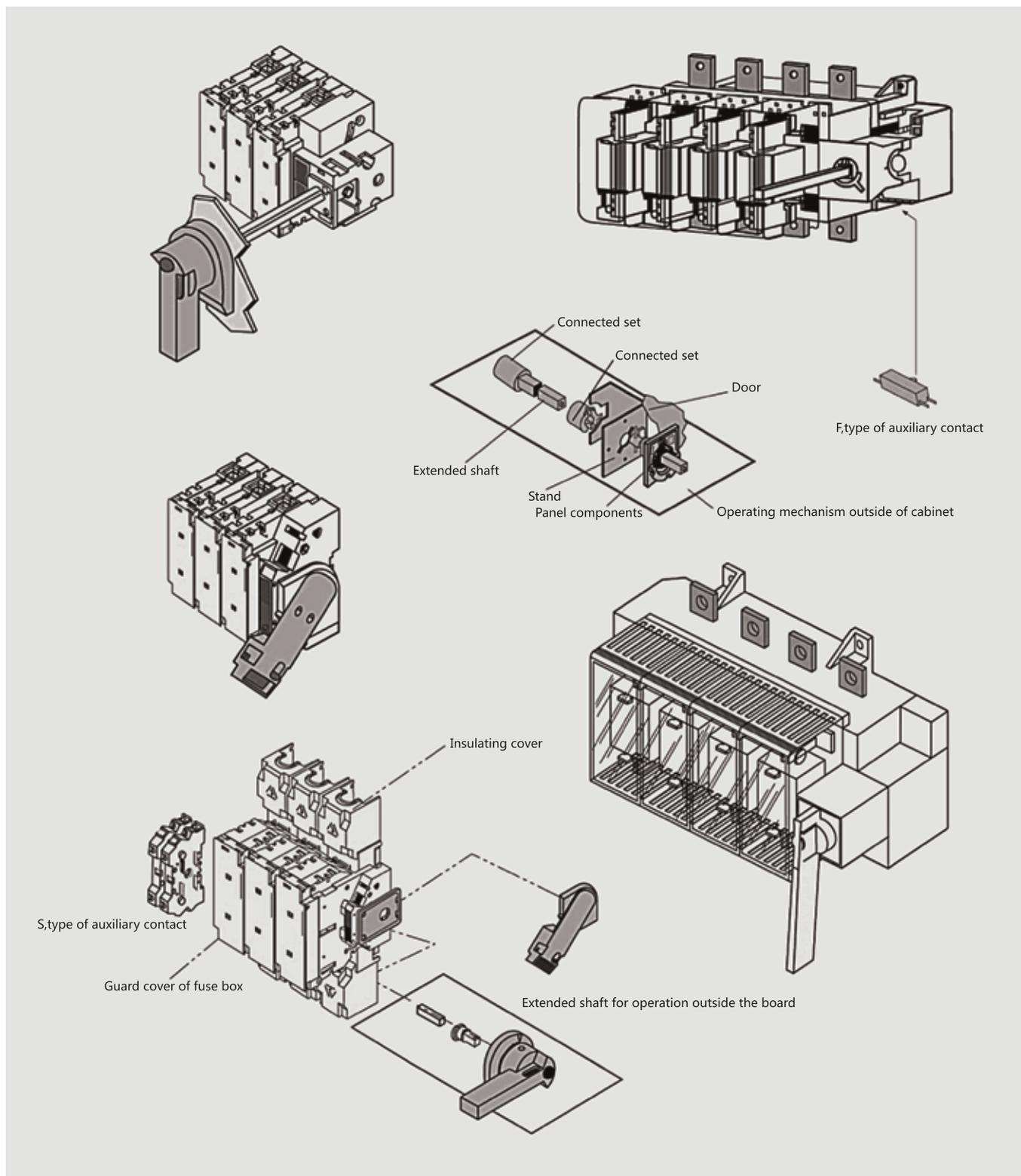
- ※ Direct front operation: the handle is installed in front of the switch.
- ※ Direct side operation: the handle is installed at the right side of the switch.
- ※ Front operation outside the board: the handle is assembled at the front of the distributing board.
- ※ Side operation outside the board: the handle is assembled at the right side of the board .

F、 S type of auxiliary contact can be provided.

HGLR Series

Switch-disconnector-fuse

HGLR-63~1250 Sketch diagram of fuse combination switches



HGLR Series**Switch-disconnector-fuse****Electrical and mechanical properties of
HGLR-63~1250 type of fuse combination switch**

Conventional thermal current I _{th} (A)	63	160	250	400	630	1250
RT16 fuse-link dimension NT	00C	00C	1	2	3	4
Rated insulation voltage U _i (V)	750	750	750	750	750	750
Dielectric strength (V)						
Rated surge-resistant voltage (U _{imp} kV)	6	6	6	6	6	6

Rated working current I_e (A)							
380V	AC-23B	63	160	250	400	630	1250
660V	AC-21B		160	250	400	630	1250
short-circuit limiting current (I _q) (kA)		50	50	50	50	50	50

Connected with breaking capacity(A Rms)							
Rated making capability		630	1600	2500	4000	6300	10000
Rated breaking capability		504	1280	2000	3200	5040	10000

Operating performance							
Mechanical durability 380V		1700	1400	1400	800	800	500
Electrical curability 380V		300	200	200	200	200	100
Mechanical durability 660V		1700	1400	1400	800	800	500

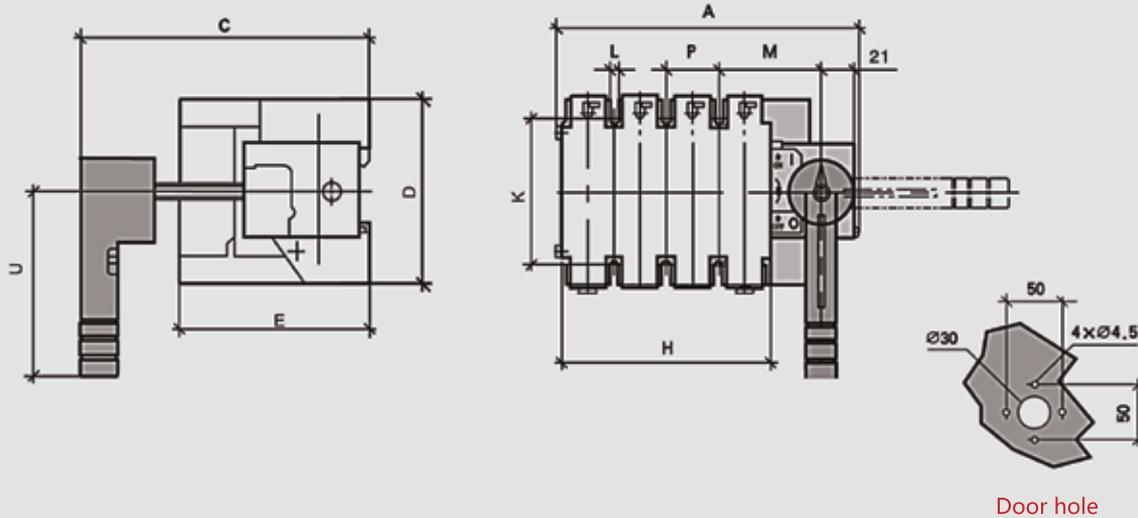
Weight (kg)							
3 poles		1	1.8	3.2	4.8	16	28
4 poles		1.3	2.3	4.5	6.1	19	33

HGLR Series

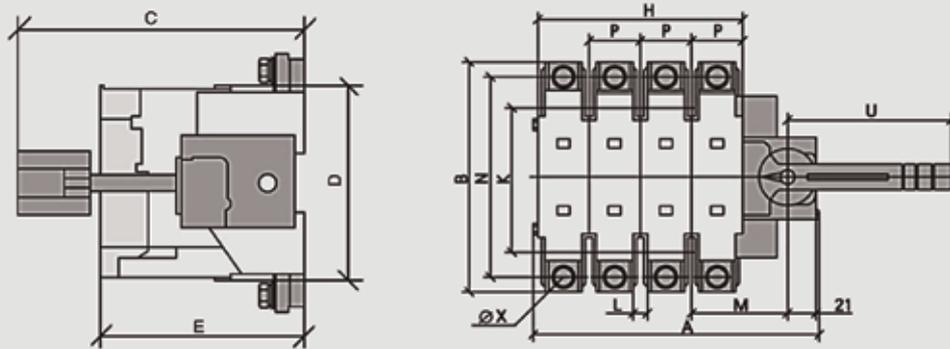
Switch-disconnector-fuse

HGLR-63~400 Overall & Installation Dimension

Front operation 63



Front operation 160~400



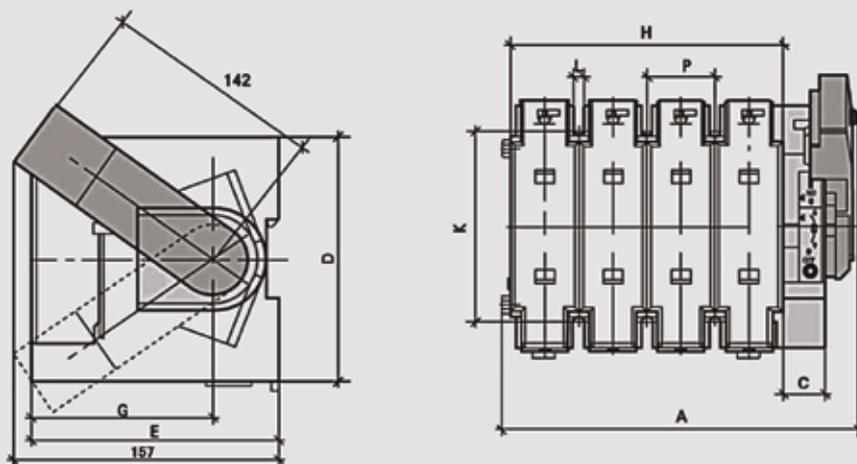
Specification	A	B	C	D	E	H	M	K	N	P	U	L	ΦX
HGLR-63A/3	154		191	121	117	96	63	90		32	115	5	
HGLR-63A/4	186		191	121	117	128	63	90		32	115	5	
HGLR-160A/3	167	162	192	121	127	108	67	90	141	36	115	5	9
HGLR-160A/4	203	162	192	121	127	144	67	90	141	36	115	5	9
HGLR-250A/3	239	195	200	165	146	180	93	137	165	60	145	6	11
HGLR-250A/4	323	195	200	165	146	240	117	137	165	60	145	6	11
HGLR-400A/3	281	205	200	170	149	198	122	137	175	66	145	6	11
HGLR-400A/4	347	205	200	170	149	264	122	137	175	66	145	6	11

HGLR Series

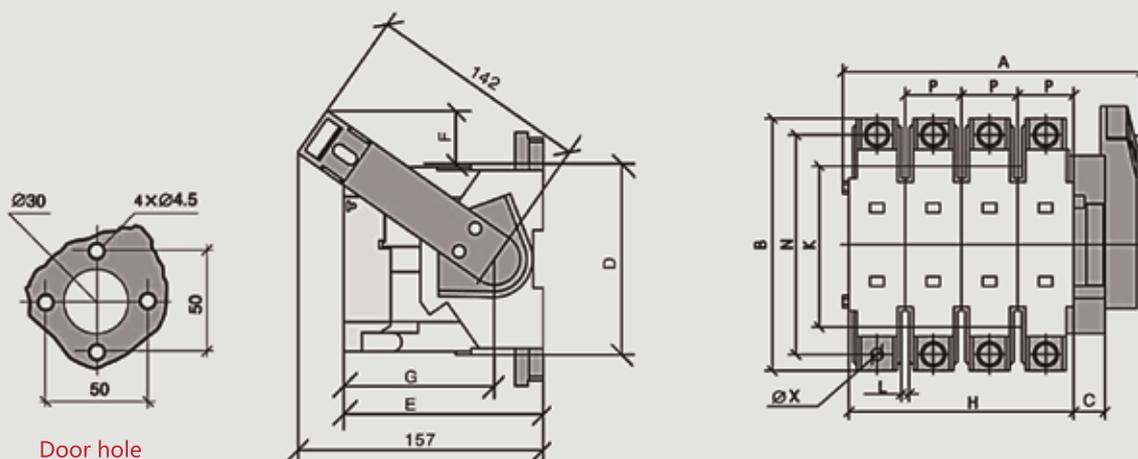
Switch-disconnector-fuse

HGLR-630~1250 Sketch diagram of fuse combination switches

Side direction operation of 63



Front operation 160~400



Door hole

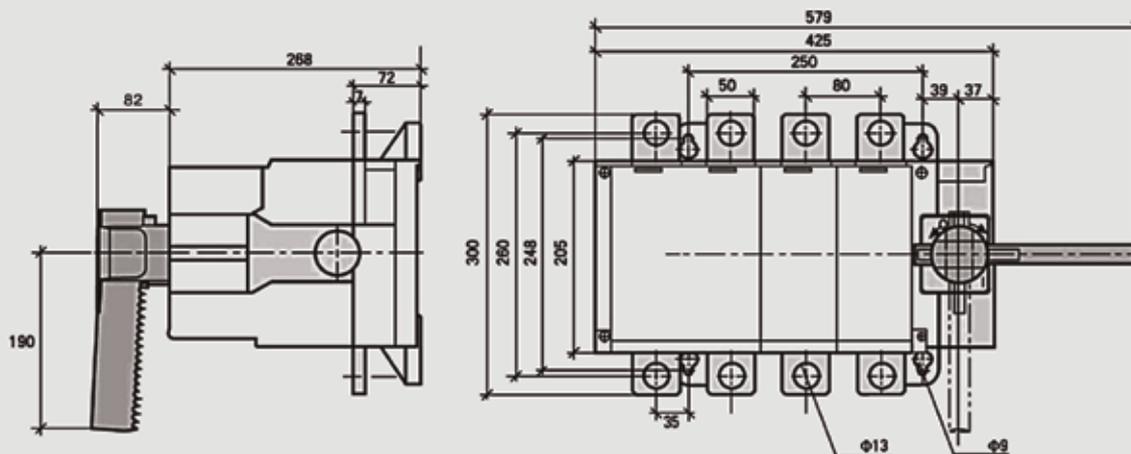
Specification	A	B	C	D	E	F	H	K	N	P	L	G	ΦX
HGLR-63A/3C	140		20	121	117	40	96	90		32	5	94	
HGLR-63A/4C	172		20	121	117	40	128	90		32	5	94	
HGLR-160A/3C	152	162	20	121	127	40	108	90	141	36	5	104	9
HGLR-160A/4C	188	162	20	121	127	40	144	90	141	36	5	104	9
HGLR-250A/3C	224	195	20	165	146	18	180	137	165	60	6	123	11
HGLR-250A/4C	314	195	50	165	146	18	240	137	165	60	6	123	11
HGLR-400A/3C	272	205	50	170	149	15	198	147	175	66	6	126	11
HGLR-400A/4C	338	205	50	170	149	15	264	147	175	66	6	126	11

HGLR Series

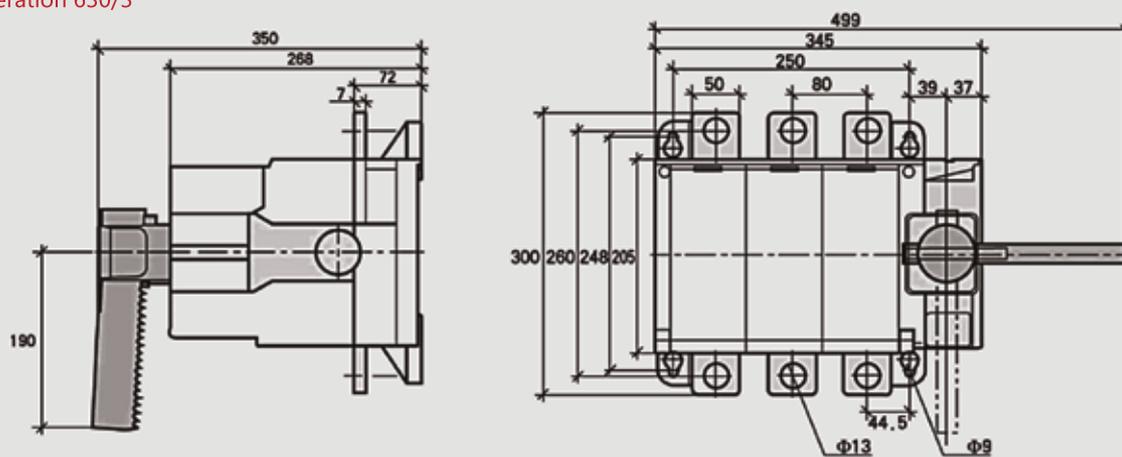
Switch-disconnector-fuse

HGLR-630 Overall & Installation Dimension

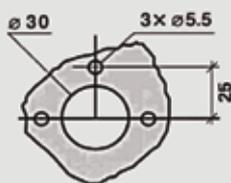
Front operation 630/4



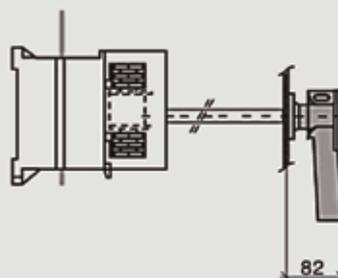
Front operation 630/3



Door hole



Front operation outside the board 630

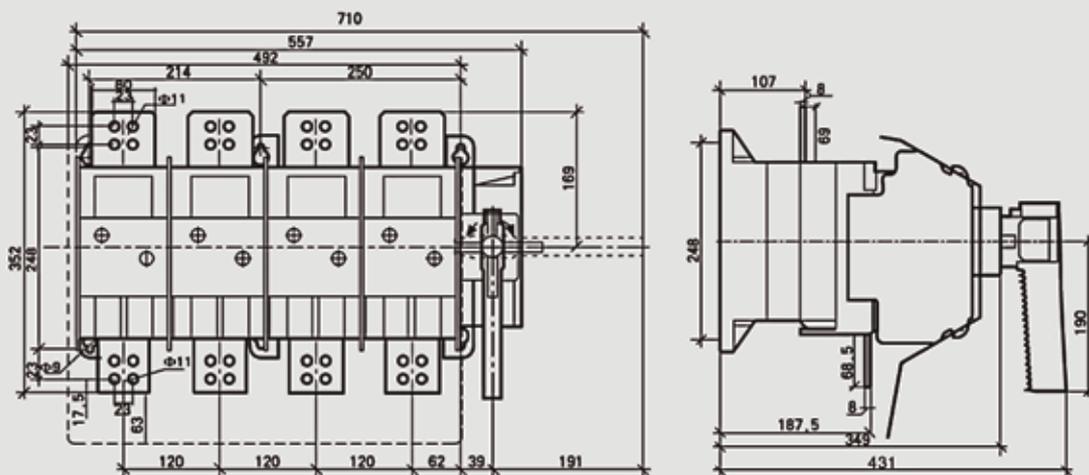


HGLR Series

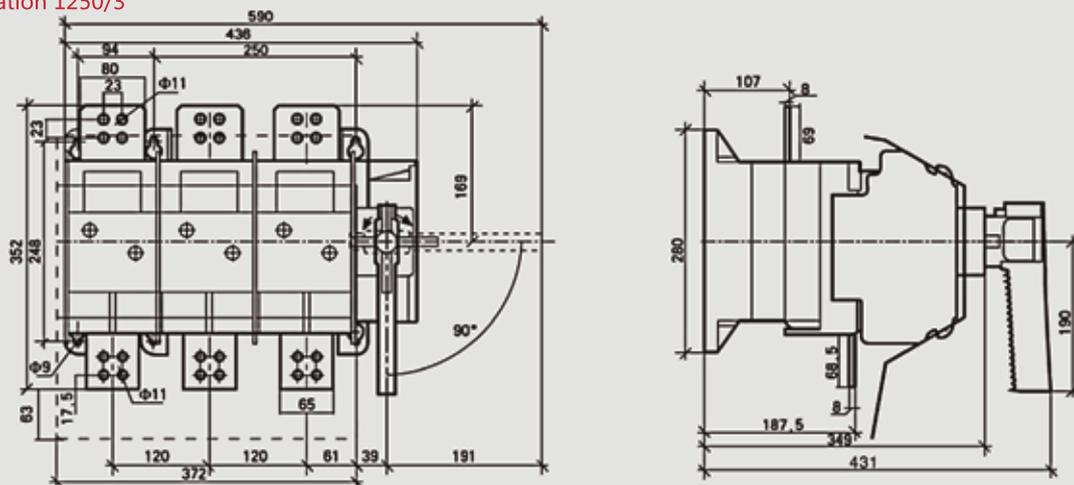
Switch-disconnector-fuse

HGLR-1250 Overall & Installation Dimension

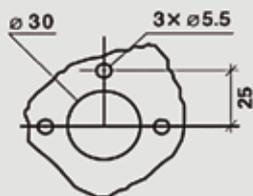
Front operation 1250/4



Front operation 1250/3



Door hole



Front operation outside the board 1250

