

Changeover load isolation switch



125A~1600A change over load isolation switch

125A~1600A. The load isolation switch is suitable for the change-over of two sets of low voltage electric circuit or the change-over of 2 set 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, and (three pole+ON and OFF neutral pole).

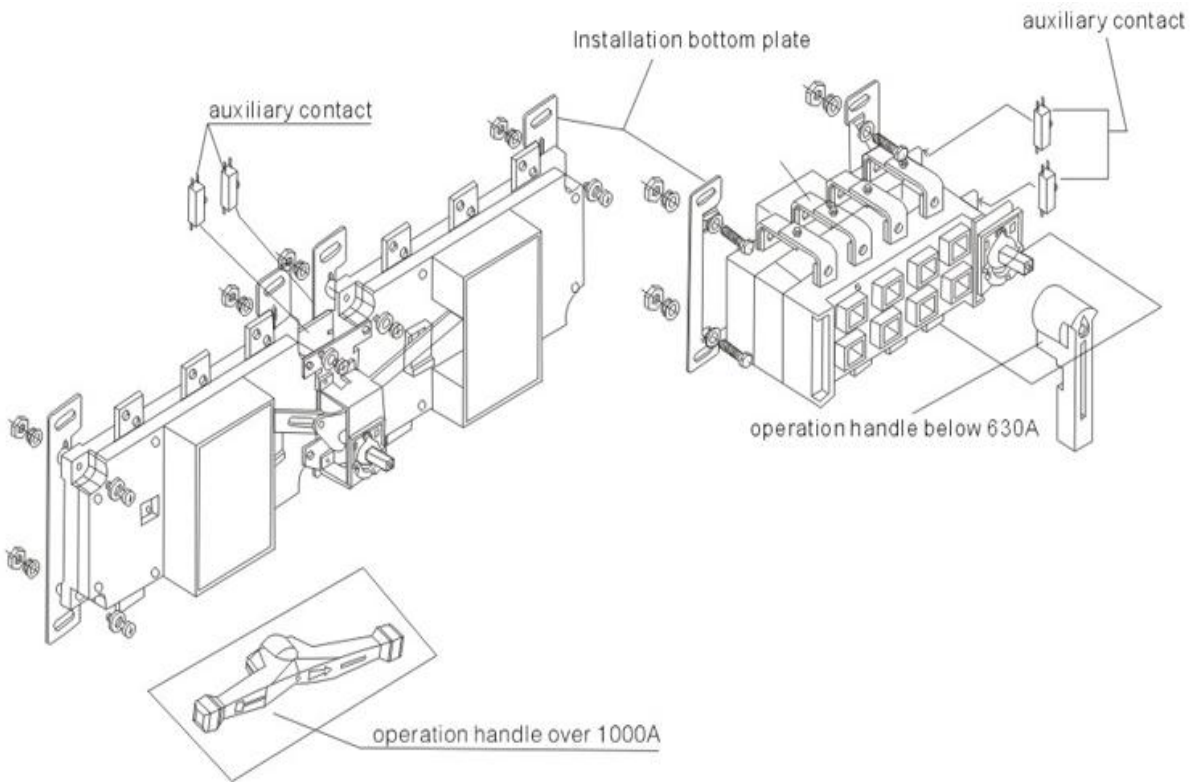
Extended shate is used for their operation outside the board.

Two sets of auxiliary contacts can be assembled according to the demand.

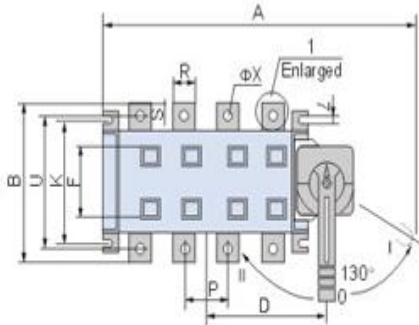
Mechanical performance and electric property correspond to the mechanical performance and electric property of 125A-1600A.

A bridge can be provided to connect the inlet or outlet terminal of the switch.

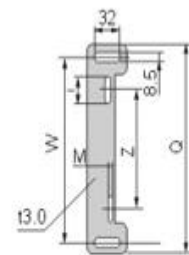
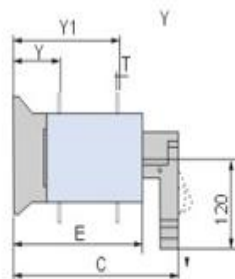
Note: The bridge connection is chosen, an explanation is needed to indicate the inlet or outlet connected with it.



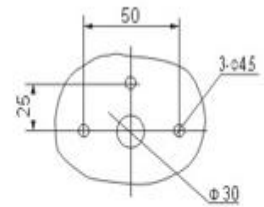
External Dimension and Installation Dimension of Change-over Load Isolation Switch



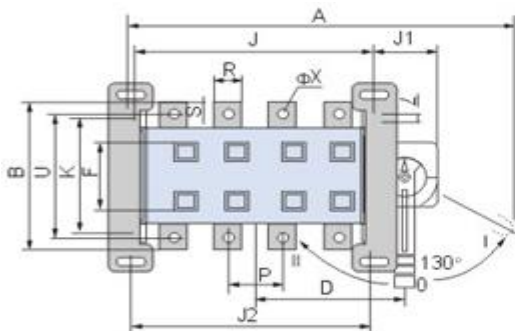
Direct operation of 125~1600A



Installation bottom plate for operation outside the board

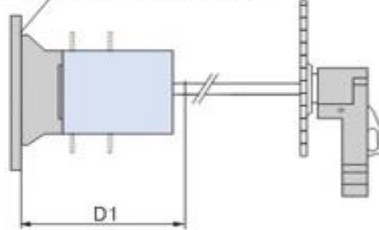


Installation size of handle seat outside board



Operation outside 125A ~ 1600A board

Installation bottom plate for operation outside the board

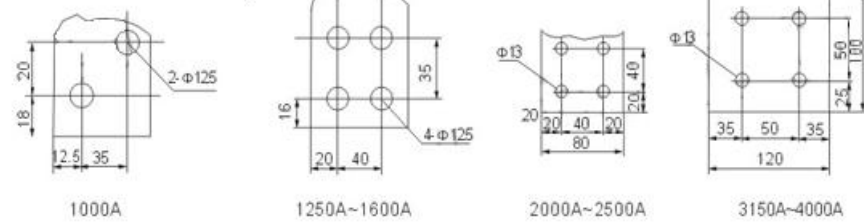


Specification	Dimension of Bottom board				
125A~1600A	I	M	Z	W	Q
125A	55	6.5	95	216	244
160A	55	6.5	95	216	244
200A	55	6.5	116	216	244
225A	55	6.5	116	216	244
315~400A	60	8.5	180	280	311
500~630A	60	8.5	180	280	311
1000~1600A	60	8.5	180	280	311



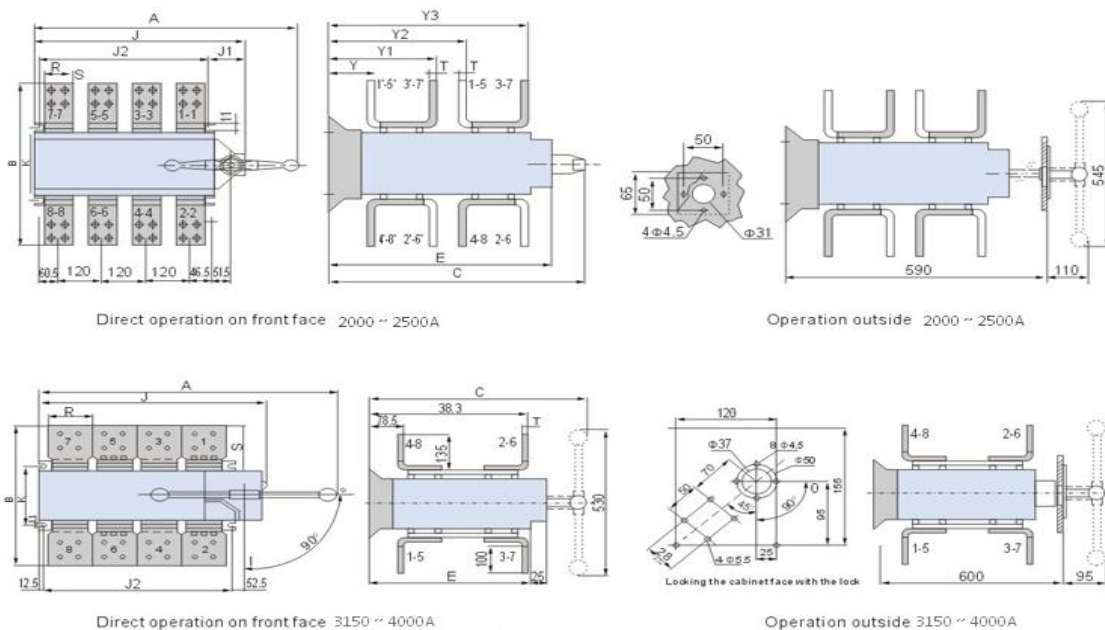
Connecting terminal

Enlarged



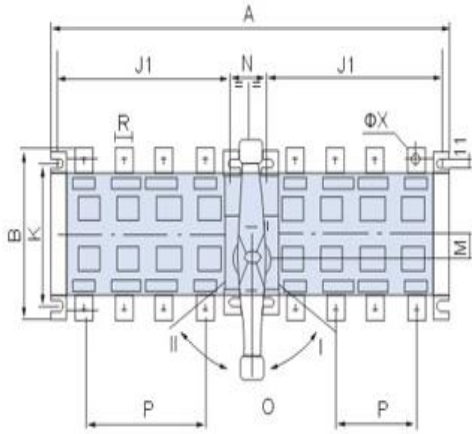
Specification	External Dimension and Installation Dimension																			
125A~1600A	A	B	C	D	D1	E	J	J1	J2	K	L	P	R	S	T	U	φX	Y	Y1	F
125A-160A/3	270	135	212	89	195	150	120	65	120	95	7	36	20	25	3.5	115	9	55	121	59
125A-160A/4	300	135	212	104	195	150	150	65	150	95	7	36	20	25	3.5	115	9	55	121	59
200A-250A/3	307	170	260	110	210	172	160	65	160	115	11	50	25	30	3.5	140	11	70	140	76
200A-250A/4	357	170	260	135	210	172	210	65	210	115	11	50	25	30	3.5	140	11	70	140	76
315A-400A/3	372	240	297	150	275	236	210	77	210	180	13	65	32	40	5	206	11	83	192	94
315A-400A/4	432	240	297	180	275	236	275	77	275	180	13	65	32	40	5	206	11	83	192	94
500A-630A/3	372	240	297	150	275	236	210	77	210	180	13	65	32	40	6	206	11	83	192	94
500A-630A/4	432	240	297	180	275	236	275	77	275	180	13	65	32	40	6	206	11	83	192	94

External Dimension and Installation Dimension of Change-over Load Isolation Switch

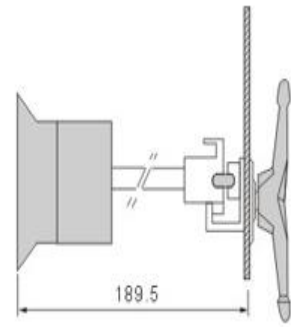
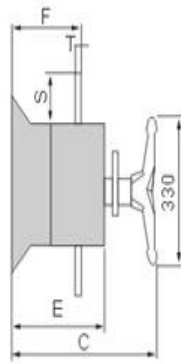


Specification	External Dimension and Installation Dimension																		
1000A~4000A	A	B	C	D	D1	E	J	J1	J2	K	P	R	S	T	φX	Y	Y1	Y2	Y3
1000A/3	638	312	374	229	340	302	355	108.5	355	220	120	60	56	8	12.5	99	243.5		
1000A/4	758	312	374	289	340	302	473	108.5	473	220	120	60	56	8	12.5	99	243.5		
1250A/3	638	338	374	229	340	302	355	108.5	355	220	120	80	69	8	12.5	99	243.5		
1250A/4	758	338	374	289	340	302	473	108.5	473	220	120	80	69	8	12.5	99	243.5		
1600A/3	638	338	374	229	340	302	355	108.5	355	220	120	80	69	10	12.5	99.5	244		
1600A/4	758	338	374	289	340	302	473	108.5	473	220	120	80	69	10	12.5	99.5	244		
2000A/3	576	455	603	603	700	495	347	88	347	220	120	80	127.5	10	12.5	78.5	225.5	309.5	456.5
2000A/4	696	455	603	603	700	495	467	88	467	220	120	80	127.5	10	12.5	78.5	225.5	309.5	456.5
2500A/3	576	455	603	603	700	495	347	88	347	220	120	80	127.5	10	12.5	78.5	227.5	309.5	456.5
2500A/4	696	455	603	603	700	495	467	88	467	220	120	80	127.5	10	12.5	78.5	227.5	309.5	456.5
3150A/3	576	505	603	603	700	495	347	88	347	220	120	120	152.5	12	12.5	78.5	227.5	309.5	458
3150/4	696	505	603	603	700	495	467	88	467	220	120	120	152.5	12	12.5	78.5	227.5	309.5	458
4000A/3	576	505	603	603	700	495	347	88	347	220	120	120	152.5		12.5	78.5			
4000A/4	696	505	603	603	700	495	467	88	467	220	120	120	152.5		12.5	78.5			

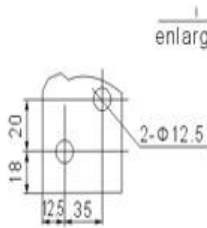
External Dimension and Installation Dimension of 125A~1600A Side Operation Load Isolation Switch



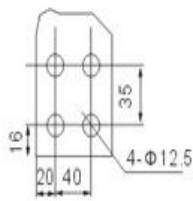
Direct operation on front face 125 ~ 1600A



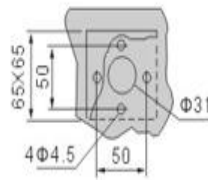
Operation outside 125 ~ 1600A



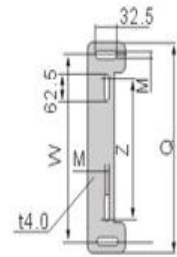
1000A



1250~1600A



Installation size of handle seat outside board



Installation bottom plate for operation outside the board

Specifacaton	External Dimension and Installtion Dimension																
	A	B	C	E	F	J	J1	K	M	N	P	Q	R	S	T	W	Z
125A~1600A																	
125A-160A/3	319	85	141	89	24	299	120	65	6.5	59	36	244	20	25	3.5	216	95
125A-163A/4	379	85	141	89	24	359	150	65	6.5	59	36	244	20	25	3.5	216	95
200A-250A/3	405	110	146	101	25	385	160	90	6.5	65	50	244	25	30	3.5	216	116
200A-250A/4	505	110	146	101	25	485	210	90	6.5	65	50	244	25	30	3.5	216	116
315A-400A/3	535	160	191	126	37	515	210	140	8.5	95	65	311	32	40	5	280	180
315A-400A/4	655	160	191	126	37	515	210	140	8.5	95	65	311	32	40	5	280	180
500A-630A/3	535	160	191	126	37.5	515	210	140	8.5	95	65	311	40	50	6	280	180
500-63A/4	655	160	191	126	37.5	515	210	140	8.5	95	65	311	40	50	6	280	180
1000A/3	863	200	272	163	48.5	811	355	220	8.5	105	120	311	60	56	8	280	180
1000A/4	1072	200	272	163	48.5	1051	473	220	8.5	105	120	311	60	56	8	280	180
1250A/3	863	200	272	163	48.5	811	355	220	8.5	105	120	311	80	69	8	280	180
1250A/4	1072	200	272	163	48.5	1051	473	220	8.5	105	120	311	80	69	8	280	180
1600A/3	863	200	272	163	49.5	811	355	220	8.5	105	120	311	80	69	10	280	180
1600A/4	1072	200	272	163	49.5	1051	473	220	8.5	105	120	311	80	69	10	280	180

Accessory

Handle lock accessory

Application

May in frontage position 0 or I,0,II Position locking

Use padlock(no supply)(Fig.1)this position have fix at the operate handle of cabinet accoring to the lock position Directoperate with padlock exclude(Fig.2). 800 to 3150A lock tray(Fog.3)

May removable outer operate lock(exclude)(Fig 4)

The device may mount in cabinet 800 to 3150A lock tray 800 to 3150A undervoltage coil May do operation when wire coil power on.

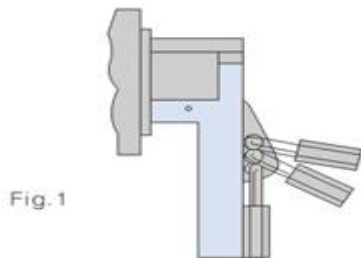


Fig.1

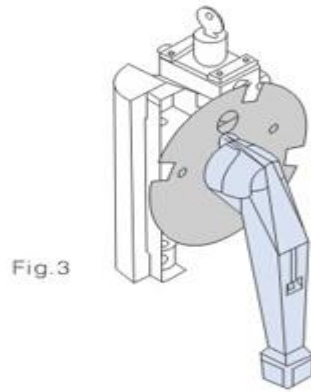


Fig.3

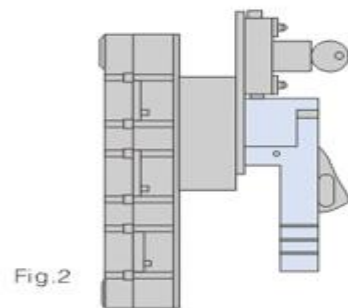


Fig.2

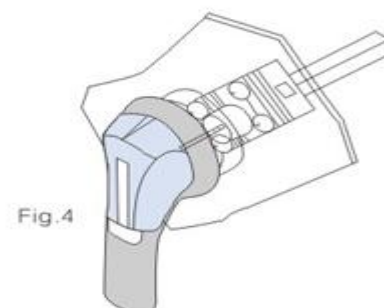


Fig.4

Other special accessory.

Special protection screen(make special size or endure high temperature products)

Isolation screen between terminal

Junction accessory

Low level auxiliary contact

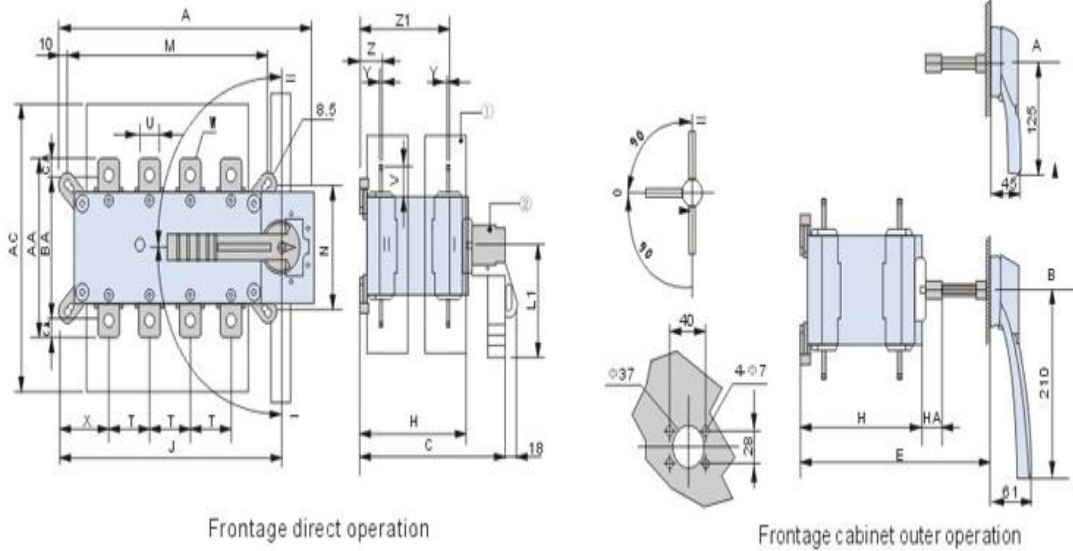
The characteristic (conforms to the GB14048.3-2002/IEC60947-3 standard)

Conventional thermal current Ith A(40℃)		125A	160A	200A	250A	400A	630A
Rated impulse withstand voltage Ui(V)		800	800	800	800	800	1000
Rated striling voltage Uimp(KV)		8	8	8	8	8	12
Rated operation currentel(A)							
Rated voltage	overload type	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
400VAC	AC-21A/AC-21B	125/125	160/160	200/200	250/250	400/400	630/630
	AC-22A/AC-22B	125/125	160/160	200/200	250/250	400/400	630/630
	AC-23A/AC-23B	125/125	160/160	160/160	250/250	250/250	500/600
690VAC ⁽²⁾	AC-20A/AC-20B	125/125	160/160	200/200	250/250	400/400	630/630
	AC-21A/AC-21B	125/125	160/160	160/160	200/250	200/250	500/500
	AC-22A/AC-22B	125/125	125/125	125/125	125/160	125/160	315/315
220VDC	AC-23A/AC-23B	63/80	63/80	63/80	100/125	100/125	160/200
	DC-20A/DC-20B	125/125	125/125	200/200	250/250	400/400	630/630
	DC-21A/DC-21B	125/125	125/125	160/160	250/250	250/250	630/630
	DC-22A/DC-22B	125/125	125/125	160/160	250/250	250/250	500/500
440VDC	DC-23A/DC-23B	125/125	125/125	125/125	200/200	200/200	500/500
	DC-20A/DC-20B	125/125	125/125	200/200	250/250	400/400	630/630
	DC-21A/DC-21B	125/125	125/125	125/125	200/200	200/200	500/500
	DC-22A/DC-22B	125/125	125/125	125/125	200/200	200/200	500/500
operation power	DC-23A/DC-23B	125 ⁽³⁾ /80	125 ⁽³⁾ /80	125 ⁽³⁾ /125 ⁽³⁾	200 ⁽³⁾ /200 ⁽³⁾	200 ⁽³⁾ /200 ⁽³⁾	500 ⁽³⁾ /500 ⁽³⁾
	No break down under 400VAC	63/63	80/80	80/80	132/132	132/132	280/280
	No break down under 690VAC	55/75	55/75	55/75	90/110	90/110	150/185
	Reactive power	400VAC (kvar)	55	75	90	115	185
Uses the fuse short-circuit current condition(the Karms required value)	required short-circuit current value	100	100	50	50	8	70
	Fuse Capacity	125	160	200	250	400	630
Short-circuit capability	Icw(KARms)Allowed short time endure current	7	7	7	9	9	13
	Short-circuit dynamic intensity	20	20	20	30	30	45
Connection	Minimal copper cable section	35	50	50	95	185	2×150
	Minimal copper row width						2×30×5
	Maximal copper cable section	50	95	95	150	240	2×300
	Maximal copper row width	25	25	25	32	32	50
	Minimal tighten wrest distance	9	9	9	20	20	20
Machanism Characteristic	Life(operation cycle times)	10000	10000	10000	10000	10000	5000
	3pole switch weight(kg)	1.5	1.6	1.8	2	3	3.5
	4pole switch weight(kg)	1.6	1.7	1.9	2.1	3.5	4

Conventional thermal current Ith A(40℃)		800A	1250A	1600A	1800A	2000A	2500A	3150A
Rated impulse withstand voltage Ui(V)		1000	1000	1000	1000	1000	1000	1000
Rated striling voltage Uimp(KV)		12	12	12	12	12	12	12
Rated operation current Ie(A)								
Rated voltage	overload type	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾	A/B ⁽¹⁾
400VAC	AC-21A/AC-21B	800/800	1250/1250	1600/1600	1800/1800	2000/2000	2500/2500	3150/3150
	AC-22A/AC-22B	800/800	1250/1250	1600/1600	1800/1800	2000/2000	2000/2500	2500/2500
	AC-23A/AC-23B	800/800	1250/1250	1250/1250	1250/1250	1250/1250	1250/1250	1250/1250
690VAC ⁽²⁾	AC-20A/AC-20B	800/800	1250/1250	1600/1600	1800/1800	2000/2000	2500/2500	3150/3150
	AC-21A/AC-21B	800/800	800/800	1000/1000	1000/1000	2000/2000	2000/2500	2000/2500
	AC-22A/AC-22B	800/800	200/500	1000/1000	1000/1000	1000/1000	1000/1000	1000/1000
220VDC	AC-23A/AC-23B	200/250	1250/1250	500/500	500/500	800/800	800/800	800/800
	DC-20A/DC-20B	800/800	1250/1250	1600/1600	1800/1800	2000/2000	2500/2500	3150/3150
	DC-21A/DC-21B	800/800	1250/1250	1250/1250	1250/1250	2000/2000	2000/2500	2000/2500
440VDC	DC-22A/DC-22B	800/800	1250/1250	1250/1250	1250/1250	1250/1600	1250/1600	1250/1600
	DC-23A/DC-23B	800/800	1250/1250	1250/1250	1250/1250	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾
	DC-20A/DC-20B	800/800	1250 ⁽³⁾ /1250 ⁽³⁾	1600/1600	1600/1600	2000/2000	2000/2000	3150/3150
	DC-21A/DC-21B	800/800	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250/1250	1250/1250	1250/1250
operation power	DC-22A/DC-22B	800/800	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾
	DC-23A/DC-23B	800 ⁽³⁾ /800 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1250 ⁽³⁾ /1250 ⁽³⁾	1000 ⁽³⁾ /1000 ⁽³⁾	1000 ⁽³⁾ /1000 ⁽³⁾	1000 ⁽³⁾ /1000 ⁽³⁾
	No break down under 400VAC	450/450	710/710	710/710	710/710	710/710	710/710	710/710
	No break down under 690VAC	185/220	185/220	475/475	475/475	750/750	750/750	750/750
Reactive power	400VAC (kvar)	365	575	-	-	-	-	-
Uses the fuse short-circuit current condition(the Karms required value)	required short-circuit current value	50	100	100	100	100	100	100
	Fuse Capacity	800	1250	2×800	2×800	2×1000	2×1000	
Short-circuit capability	Allowed short time endure current	26	35	50	50,	50	50	55
	Short-circuit dynamic intensity	55	80	110	110	110	110	120
Connection	Minimal copper cable section	2×185						
	Minimal copper row width	2×40×5	2×60×5	2×80×5	2×80×5	3×100×5	4×100×5	4×100×5
	Maximal copper cable section	2×300	4×185	6×185	6×185			
	Maximal copper row width	63	63	100	100	125	125	125
	Minimal tighten wrest distance			40	40	40	40	40
Machanism Characteristic	Life(operation cycle times)	3000	3000	4000	4000	3000	3500	2500
	3pole switch weight(kg)	17.5	22.5	34	34	70	72	98
	4pole switch weight(kg)	21	27.5	42	42	85	88	110

- (1) A type=frequency operation. B type=unfrequency operation
- (2) With terminal shield screen or terminal isolate screen
- (3) May use polarity 2pole under 4pole switch
- (4) Power value for reference only, current value According to different manufacturer
- (5) Suitable for rated voltage $U_e=400VAC$
- (6) Long life: contact with us.

125-1800A



125-630A:L1=140mm

800-1800A:L1=210mm

1.Terminal guard shield

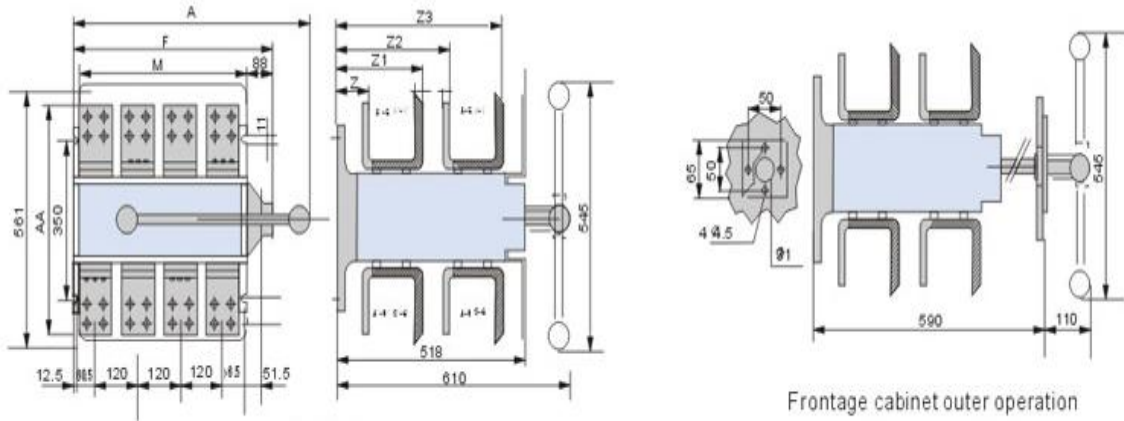
2.Direct handle operation

A.125-630A Cabinet outer handle operate.

B.800-1800A Cabinet outer handle operate.

Specification	General Size				Switch	switch main body				Fixation				Connection										
	A3p.	A4p.	C	E		AC	H	HA	J3p.	J4p.	M3p.	M4p.	N	T	U	V	W	X3p.	Y	X4p.	Z	Z1	AA	BA
125	221	251	218	208-436	235	148	25	182	212	156	186	101	36	20	25	8.5	56	50	3.5	28	124	135	115	10
160	221	251	218	208-436	235	148	25	182	212	156	186	101	36	20	25	8.5	56	50	3.5	28	124	135	115	10
200	221	251	218	208-436	235	148	25	182	212	156	186	101	36	20	25	8.5	56	50	3.5	28	124	135	115	10
250	262	312	218	208-436	280	148	25	223	273	196	246	116	50	25	30	11	61	61	3.5	30	124	160	130	10
400	262	312	218	208-436	280	148	25	223	273	196	246	116	50	35	35	11	61	61	3.5	30	124	170	140	15
500	319	379	295	285-513	401	225	25	272	332	246	306	176	65	32	37	13	70.5	65.5	5	43	180	235	205	15
630	319	379	295	285-513	400	225	25	272	332	246	306	176	65	45	50	13	70.5	65.5	5	43	180	260	220	20
800	386	466	375	425-577	459	298	29	306.5	386.5	336	336	250	80	50	60.5	15	48	48	7	66.5	253.5	321		26.5
1250	386	466	375	425-577	459	298	29	306.5	386.5	336	336	250	80	60	65	16x11	48	48	7	66.5	253.5	330		29.5
1600	478	598	375	425-577	461	298	29	306.5	518.5	467	467	250	120	90	43.5	12.5x5	54	54	8	66.5	253.5	288		15
1800	478	598	375	425-577	461	298	29	306.5	518.5	467	467	250	120	90	43.5	12.5x5	54	54	8	66.5	253.5	288		15

2000-3150A



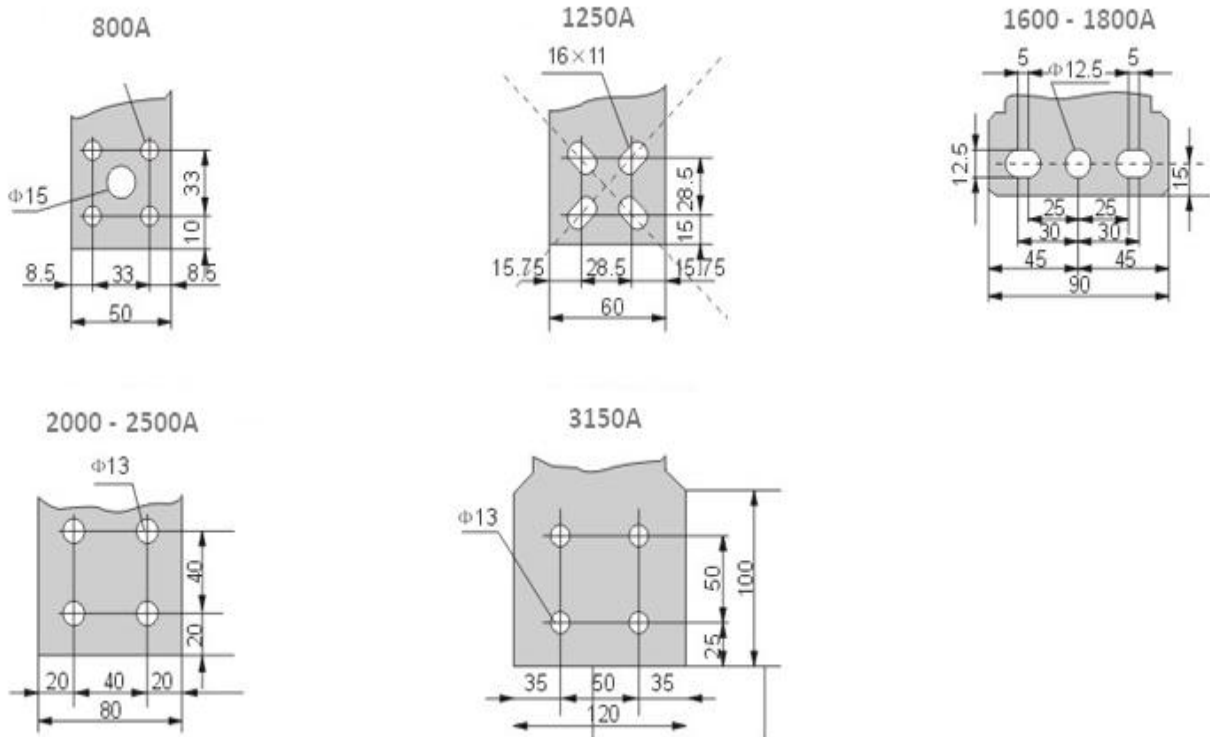
Frontage direct operation

Frontage cabinet outer operation

1. Terminal screen shield
2. with Lengthens the connecting rod smallest length:638

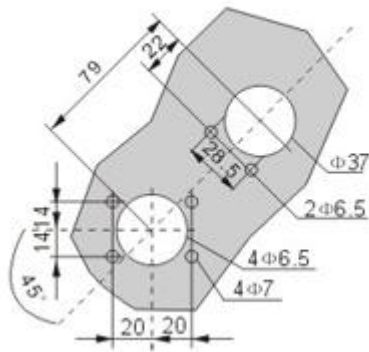
Specification	Whole size		switch main body		Fixation		connection terminal					
	A3p.	A4p.	F3p.	F4p.	M3p.	M4p.	Y	Z	Z1	Z2	Z3	AA
2000	576	696	447.5	576.5	347	467	10	78.5	225.5	309.5	456.5	455
2500	576	696	447.5	576.5	347	467	10	78.5	225.5	309.5	456.5	455
3150	576	696	447.5	576.5	347	467	15	78.5	225.5	309.5	456.5	505

Connection

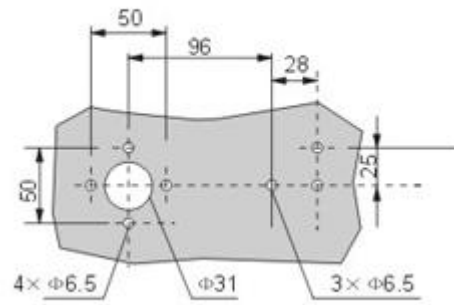


locking device cabinet door open hole

125-1800A

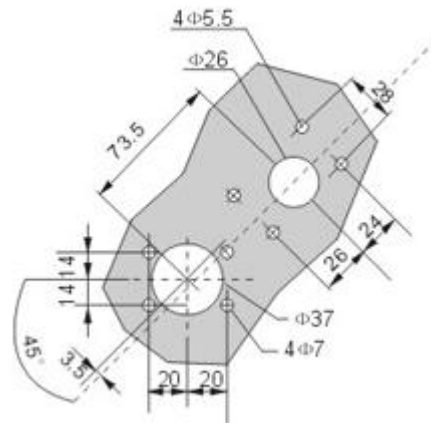


2000-3150A



locking device cabinet door open hole

125 - 1800A



Cutoff function

1. Power supply changeover:

Main power supply changeover to standby power.

2. Changeover, reverse:

Changeover between two load equipment. (Emergency standby motor) Reversion by two phases changeover.

3. Bypass circuit:

Full bypassing isolates the equipment From upstream and downstream currents, (With one operation)

4. Cutoff+the grounding:

One operation of grounding and short circuit realizes the isolation(*) ($U_e > A_c$)

General cutoff function meets with the standards of IEC947 and GB/T14048.

