

ISOLATION SWITCH / FUSES

PRODUCTS CATALOG



DONGHUA ELECTRIC STOCK CO.,LTD. OF ZHEJIANG

Donghua Electric Stock Co.,Ltd. of Zhejiang established in 1985; A professional manufacturer in designing, producing and selling high and low voltage electrical products; Located in Dongfeng Industrial zone, Liushi, Wenzhou-a beautiful and affluent coast of the East China Sea. Our factory space is about 50,000 square meters, with a superior geographical position and a convenient traffic. We own Switching Power Supply manufacturing company; Electronic manufacturing company and Current Transformer manufacturing company, separately producing switching power supply; LED light; isolator switch; fuse-switch; current transformer; high voltage metering box, etc. We have more than 1,300 sets equipments for designing, manufacturing and inspection; possessing an independent product design, manufacturing, inspection, marketing ability and an advanced modern enterprise management.

We always insist on a quality policy through "creating an international brand, building a professional quality, showing the staff ability, considering needs for customers" and a management concept through "creating value for customers, striving development for enterprise and bearing responsibility for society" to guide company's operation and production. We passed ISO9001 in 1998, succeeded in achieving CCC, UL, CE, CSA and KC, complied with ROHS and possessing self-managerial import & export authority. DHECN as a specified manufacturing brand, is popular in Asia, Africa, Europe and America, obtained a good reputation, and becoming important combining products for large, medium-sized enterprise and major projects. We have distributors in domestic and abroad, can provide a professional technical support and a prompt after-service, would become your most trusted partner.

Forecast the future, all of our staff will follow the enterprise culture "harmony, modesty and creative", create a beautiful and bright future with customer's support.



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DGL Series Isolation Switch



DGL-40A



DGL-63A



DGL-100A



DGL-125A



DGL-160A/3



DGL-160A/4



DGL-250A/3



DGL-250A/4



DGL-400A/3

DGL Series Isolation Switch



DGL-400A/4



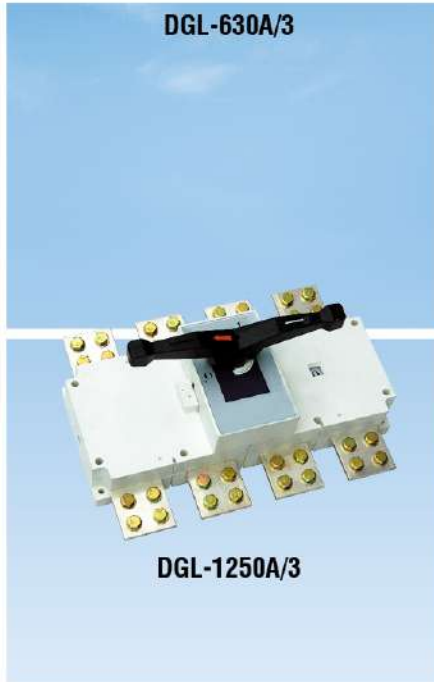
DGL-630A/3



DGL-630A/4



DGL-1000A/3



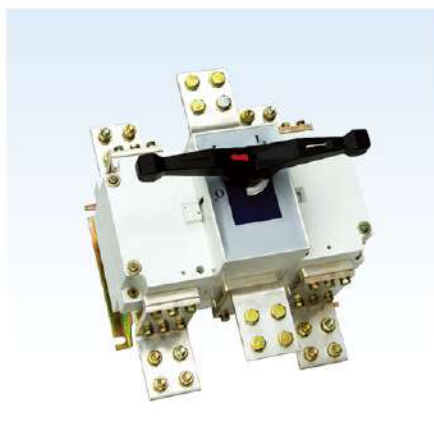
DGL-1250A/3



DGL-1250A/4



DGL-1600A/3



DGL-2500A/3

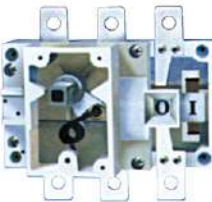
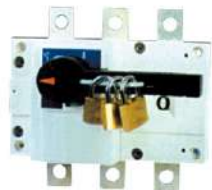
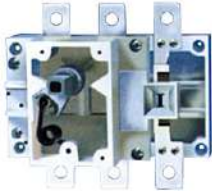


DGL-4000A/3

DGL Series Isolation Switch

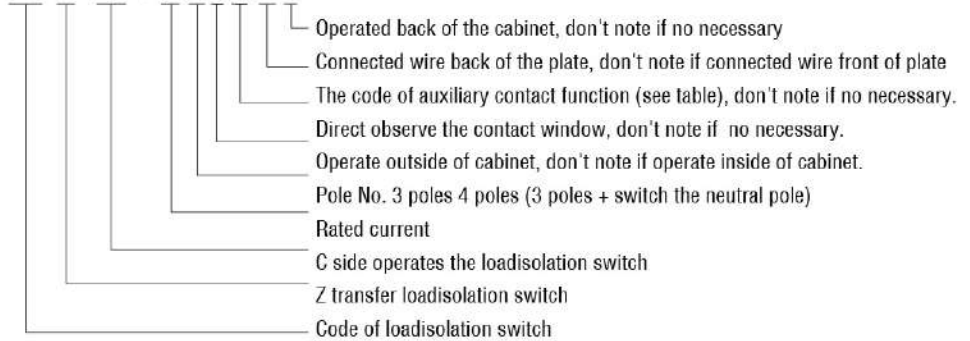
Application

AC 50Hz, rated voltage 660V, DC rated voltage 440V, rated current 1600A. It is used for making and breaking circuit infrequently.



Type Designation

DGL □ - □A / □ J K □ B H



(Table)

One NO and one NC	11	NO+NC
Two NO and Two NC	22	2NO+2NC

Example for lectotype: Rated current 630A, include neutral pole transferring loadisolation switch, DGL Z-630A/4J for operating outside of cabinet.

Service environment

- DGL load-isolation switch can operate under the following conditions;
- Altitude not more than 2000m;
- The range of ambient temperature is from 5℃ to 40℃;
- Relative humidity not more than 95%;
- The environment without any explosive medium;
- The environment without any rain or snow attacking.

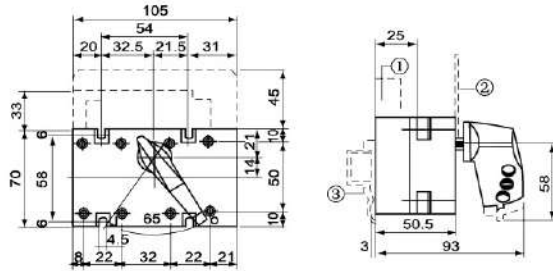
Note: If the product is expected to be used in the environment where temperature is over +40℃ or below -5℃ - -45℃, users shall tell it to the manufacturer.

DGL-40~100A Series Load-isolation Switch Model

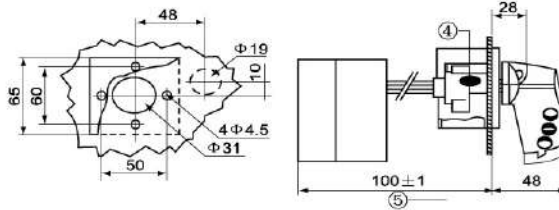
■ Front direct operation



DGL-40-63A



■ Front operation outside the cabinet

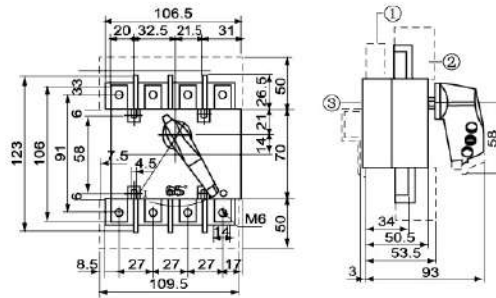


1. NO/NC pre-breaking auxiliary contact
2. Terminal barrier
3. Clamp for fixing DIN rail
4. The width of sliding dead bolt of handle lock is 30mm.
5. The min length of extension shaft is 125 ± 1

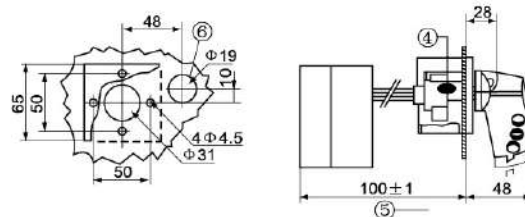
■ Front direct operation



DGL-80-100A



■ Front operation outside the cabinet



1. Pre-breaking auxiliary contact
2. Terminal barrier
3. Clamp for fixing DIN rail
4. The width of sliding dead bolt of handle lock is 30mm.
5. The min length of extension shaft is 125 ± 1
6. Hole of handle lock

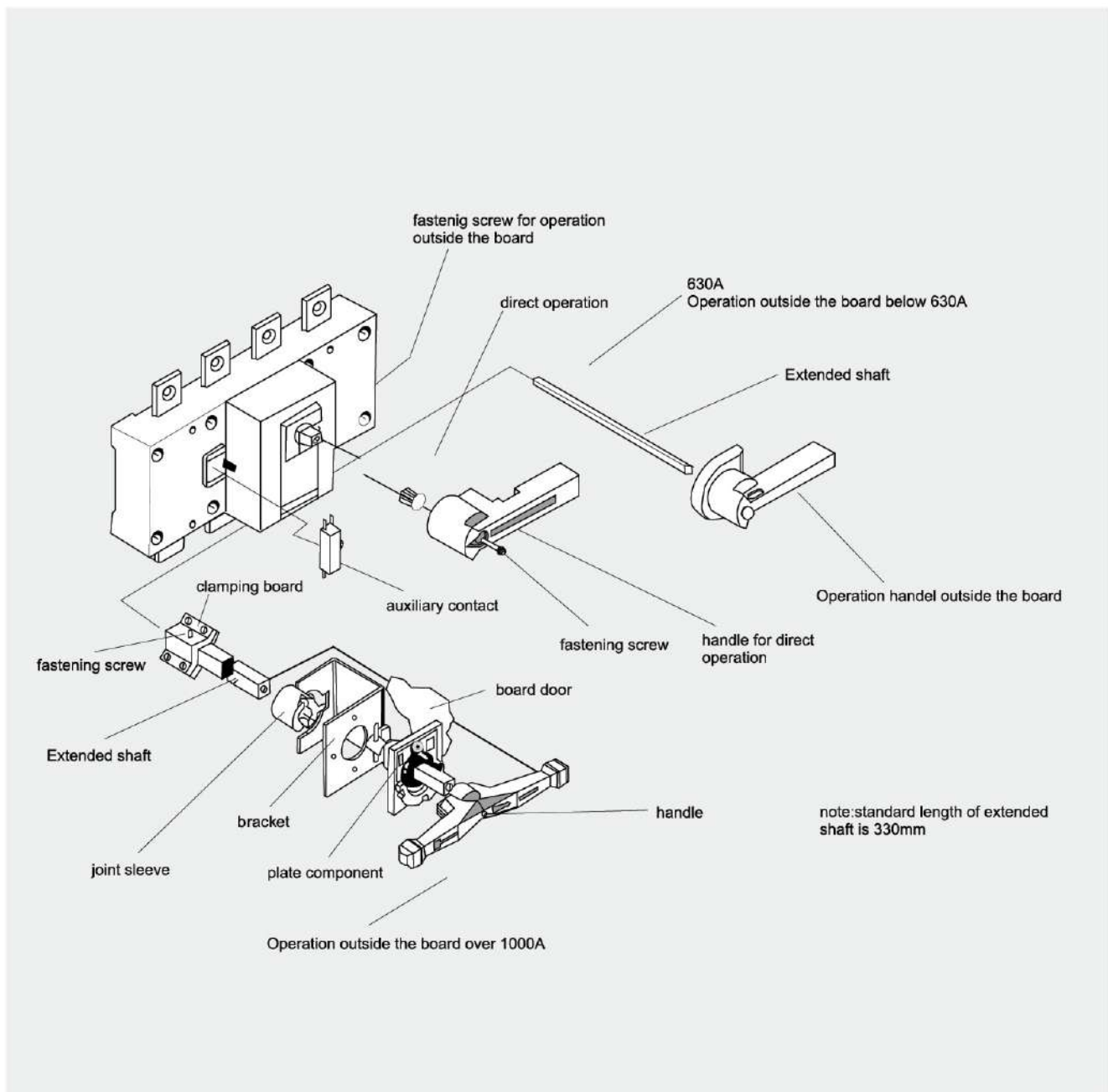
DGL-125~4000A Series Load Isolation Switch

DGL loadisolation switch can be divided into 18 specs from 125A to 4000A, it is the basic type of module design, it has three poles and four poles (three poles+switch neutral pole), applied to make and break circuit or electric isolate, over 1000A is only for electric isolation.

Symbol window on front face indicates the contact on-off state.

Operation mode

- Direct operation: The handle is installed in the middle of switch directly.
- Operate outside of cabinet: The handle is installed outside of distribution cabinet.
- It can be assembled two groups auxiliary contacts.



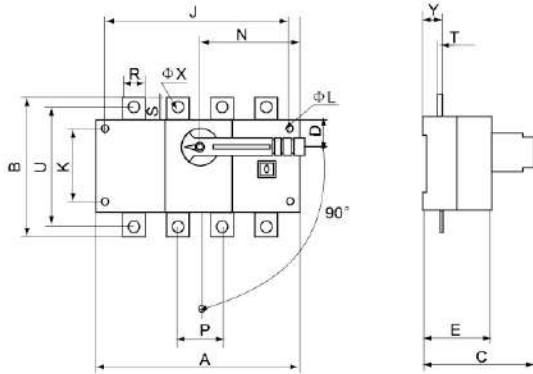
DGL-125~4000A Series Load Isolation Switch

Electrical Properties and Mechanical Properties

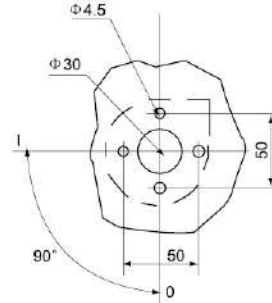
	125A	160A	200A	250A	315A	400A	500A	630A	1000A	1250A	1600A	2000A	2500A	3150A	4000A
Conventional heating current															
Rated insulation voltage $U_i(V)$	750	750	750	750	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Dielectric strength	5000	5000	5000	5000	8000	8000	8000	8000	10000	10000	10000	10000	10000	10000	10000
Rated impaction withstand voltage $U_{imp} KV$ (Installation sort IV)	8	8	8	8	12	12	12	12	12	12	12	12	12	12	12
Rated working current $I_e(A)$															
400V AC21B	125	160	200	250	315	400	500	630	1000	1250	1600	2000	2500	3150	4000
AC22B	125	160	200	250	315	400	500	630	1000	1250	1600	2000	2500	2500	2500
AC23B	125	160	200	250	315	340	425	500	800	1000	1250	1250	1250	1250	1250
750V AC21B	125	160	160	200	315	400	400	500	1000	1000	1600	2000	2500	3150	4000
AC22B	125	160	160	160	315	315	315	315	800	800	800	2000	2000	2000	2000
AC23B	80	80	100	125	125	125	125	125	400	400	500	1000	1000	1000	1000
220V DC21	125	160	200	250	315	400	500	630							
DC22	125	160	200	250	315	400	400	500							
DC23	125	125	160	200											
440V DC21	100	125	160	200	315	400	400	500							
DC22	100	125	160	200	315	400	400	500							
DC23	100	125	160	200											
Motor power $P(KW)$															
400V	63	80	100	132	160	220	280	315	560	560	560	710	710	710	710
750V	75	75	90	110	185	185	185	185	475	475	475	750	750	750	750
Overload capacity															
Rated short-time withstand current $I_{cw}(KA Rms)0.1S/1.0S$	20/10	20/10	30/12	30/12	45/20	45/20	50/25	50/25	90/50	90/50	90/50	90/50	90/50	90/50	90/50
Making and breaking capacity															
Rated making capacity $I_{cn}(A Rms)AC23B 400V$	1250	1250	2000	2000	3150	4000	4000	4000	10000	10000	10000	10000	10000	10000	10000
Rated breaking capacity $I_{cm}(A Rms)AC23B 400V$	1000	1000	1600	1600	2500	3200	3200	3200	8000	8000	8000	8000	8000	8000	8000
Rated short-circuit making capacity $I_{cm} (KA peak value)$	12	12	17	17	30	30	40	40	70	70	70	70	70	70	70
Mechanical life (rotation operation time)	10000	10000	10000	10000	5500	5500	5500	5500	4000	4000	3000	2500	2500	2500	2500
Electrical life (rotation operation time)															
Rated voltage $U_e=660V$ Rated current I_e															
COS $\phi=0.95$ AC21B	1500	1500	1500	1500	750	750	750	750	600	600	450	400	400	350	350
COS $\phi=0.65$ AC22B	1000	1000	1000	1000	500	500	500	500	400	400	300	200	200	200	200
COS $\phi=0.35$ AC23B	500	500	500	500	250	250	250	250	200	200	150	100	100	100	100
Operation moment (Nm)	6.5	6.5	10	10	14.5	14.5	14.5	14.5	27	27	27	60	60	60	110
Weight (Kg)															
3 poles	1	1	2	2	3.5	3.5	4	4	10.5	10.5	16	31	31	42	90
4 poles	1.5	1.5	2.5	2.5	4	4	4.5	4.5	13	13	20	40	40	49	102

DGL-125~630A Series Load Isolation Switch

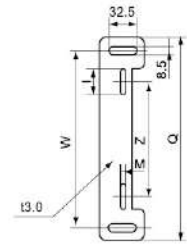
Outline and Installation Size



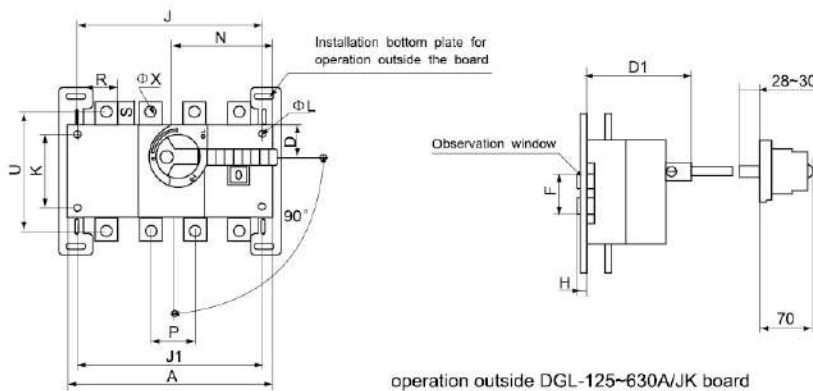
Direct operation of DGL-125~630A



Installation size of handle seat outside board



Installation bottom plate for operation outside the board



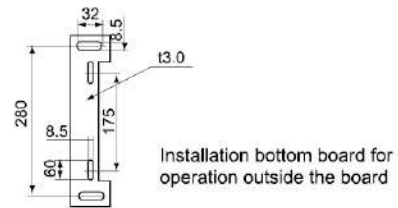
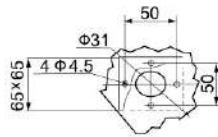
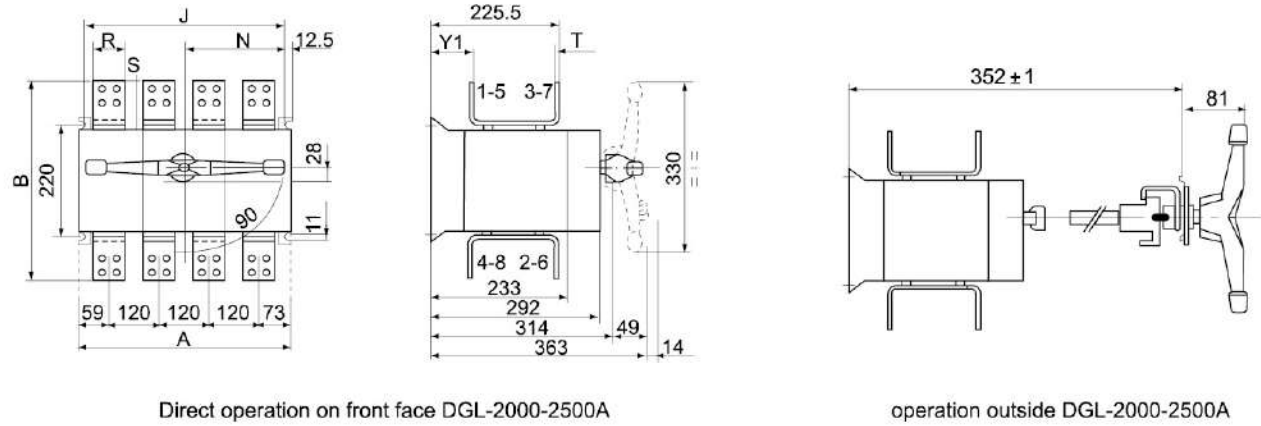
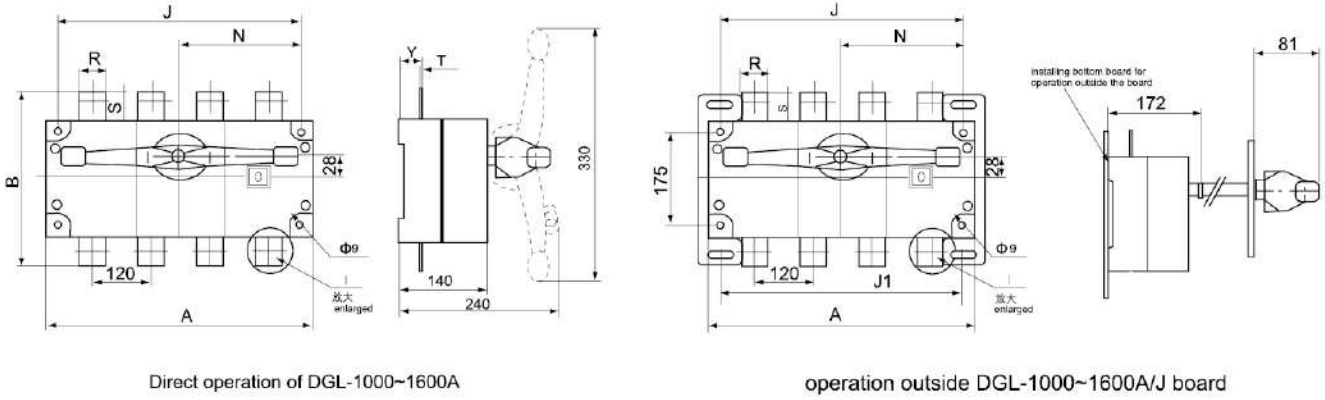
operation outside DGL-125~630A/JK board

Type Specification	Floor Size				
	I	M	Z	W	Q
DGL-125A	55	5.5	85	190	218
DGL-160A	55	5.5	85	190	218
DGL-200A	55	5.5	85	190	218
DGL-250A	55	5.5	85	190	218
DGL-315A	60	6.5	130	240	270
DGL-400A	60	6.5	130	240	270
DGL-500A	60	6.5	130	240	270
DGL-630A	60	6.5	130	240	270

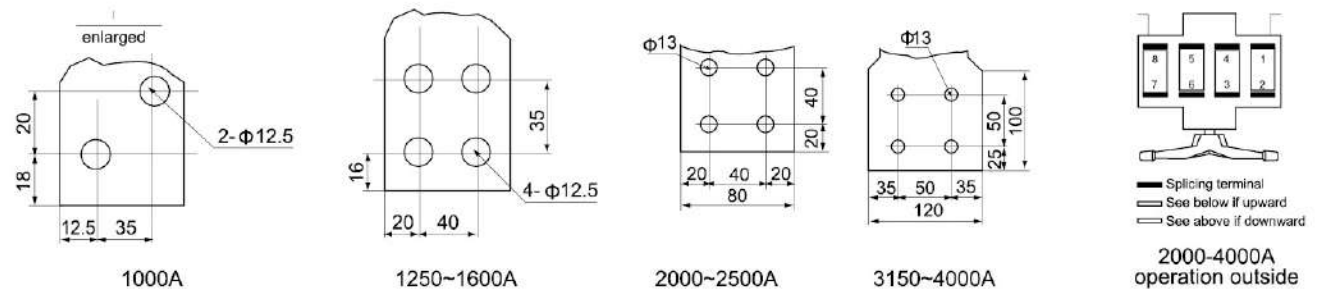
Type Specification	External Dimension and Installation Dimension																			
	A	B	C	D	D1	E	ΦL	J	J1	K	N	P	R	S	T	U	ΦX	Y	F	H
125A/3	140	135	125	27	92	73	5.5	120	120	65	85	36	20	25	3.5	115	9	25	59	10
125A/4	170	135	125	27	92	73	5.5	150	150	65	85	36	20	25	3.5	115	9	25	59	10
160A/3	140	135	125	27	92	73	5.5	120	120	65	85	36	20	25	3.5	115	9	25	59	10
160A/4	170	135	125	27	92	73	5.5	150	150	65	85	36	20	25	3.5	115	9	25	59	10
200A/3	180	170	138	35	98	86	5.5	160	160	90	115	50	25	30	3.5	140	11	25	76	15
200A/4	230	170	138	35	98	86	5.5	210	210	90	115	50	25	30	3.5	140	11	25	76	15
250A/3	180	170	138	35	98	86	5.5	160	160	90	115	50	25	30	3.5	140	11	25	76	15
250A/4	230	170	138	35	98	86	5.5	210	210	90	115	50	25	30	3.5	140	11	25	76	15
315A/3	230	240	165	50	135	110	7	210	210	140	145	65	32	40	5	206	11	37	94	20
315A/4	290	240	165	50	135	110	7	275	275	140	145	65	32	40	5	206	11	37	94	20
400A/3	230	240	165	50	135	110	7	210	210	140	145	65	32	40	5	206	11	37	94	20
400A/4	290	240	165	50	135	110	7	275	275	140	145	65	32	40	5	206	11	37	94	20
500A/3	230	260	165	50	135	110	7	210	210	140	145	65	40	50	6	220	13	37	94	20
500A/4	290	260	165	50	135	110	7	275	275	140	145	65	40	50	6	220	13	37	94	20
630A/3	230	260	165	50	135	110	7	210	210	140	145	65	40	50	6	220	13	37	94	20
630A/4	290	260	165	50	135	110	7	275	275	140	145	65	40	50	6	220	13	37	94	20

DGL-1000~4000A Series Load Isolation Switch

Outline and Installation Size

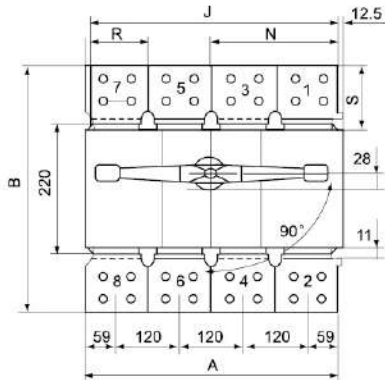


Connecting terminal

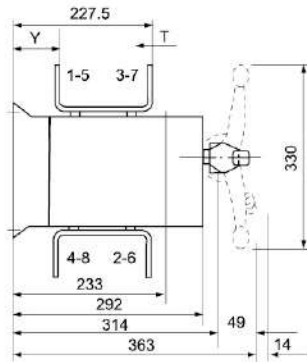


DGL-1000~4000A Series Load Isolation Switch

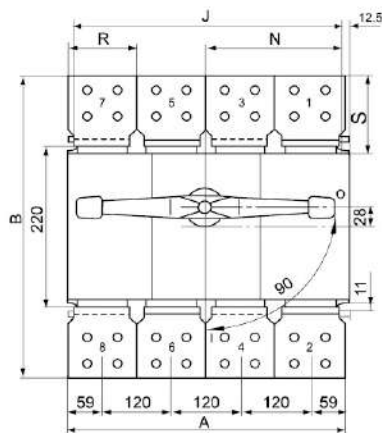
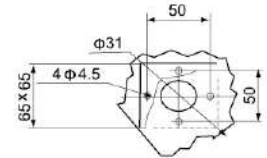
Outline and Installation Size



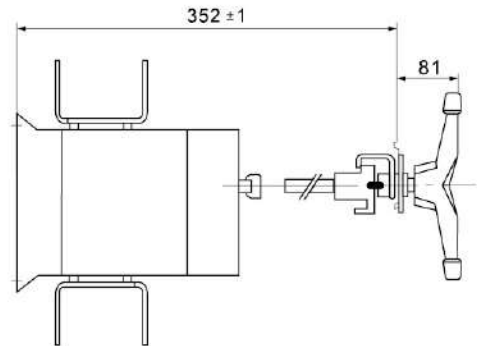
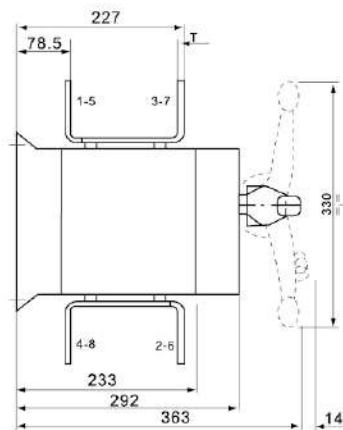
Direct operation on front face DGL3150A



Installation size of front face cabinet outside DGL-2000~4000A



Direct operation on front face DGL4000A



Operation outside DGL-3150~4000A

Type Specification	External Dimension and Installation Dimension								
	A	B	J	J1	N	R	S	T	Y
DGL-1000~1600A									
1000A/3	378	312	355	355	186	60	56	8	48
1000A/4	492	312	470	370	248	60	56	8	48
1250A/3	378	338	355	355	186	80	69	8	48
1250A/4	492	338	470	470	248	80	69	8	48
1600A/3	378	338	355	355	186	80	69	8	49
1600A/4	492	338	470	470	248	80	69	10	49
2000A/3	378	455	355	355	186	80	127	10	78.5
2000A/4	492	455	470	470	248	80	127	10	78.5
2500A/3	378	455	355	355	186	80	127	10	78.5
2500A/4	492	455	470	470	248	80	127	10	78.5
3150A/3	378	514	355	355	186	120	157	12	78.5
3150A/4	492	514	470	470	248	120	157	12	78.5
4000A/3	378	514	355	355	186	120	157		78.5
4000A/4	492	514	470	470	248	120	157		78.5

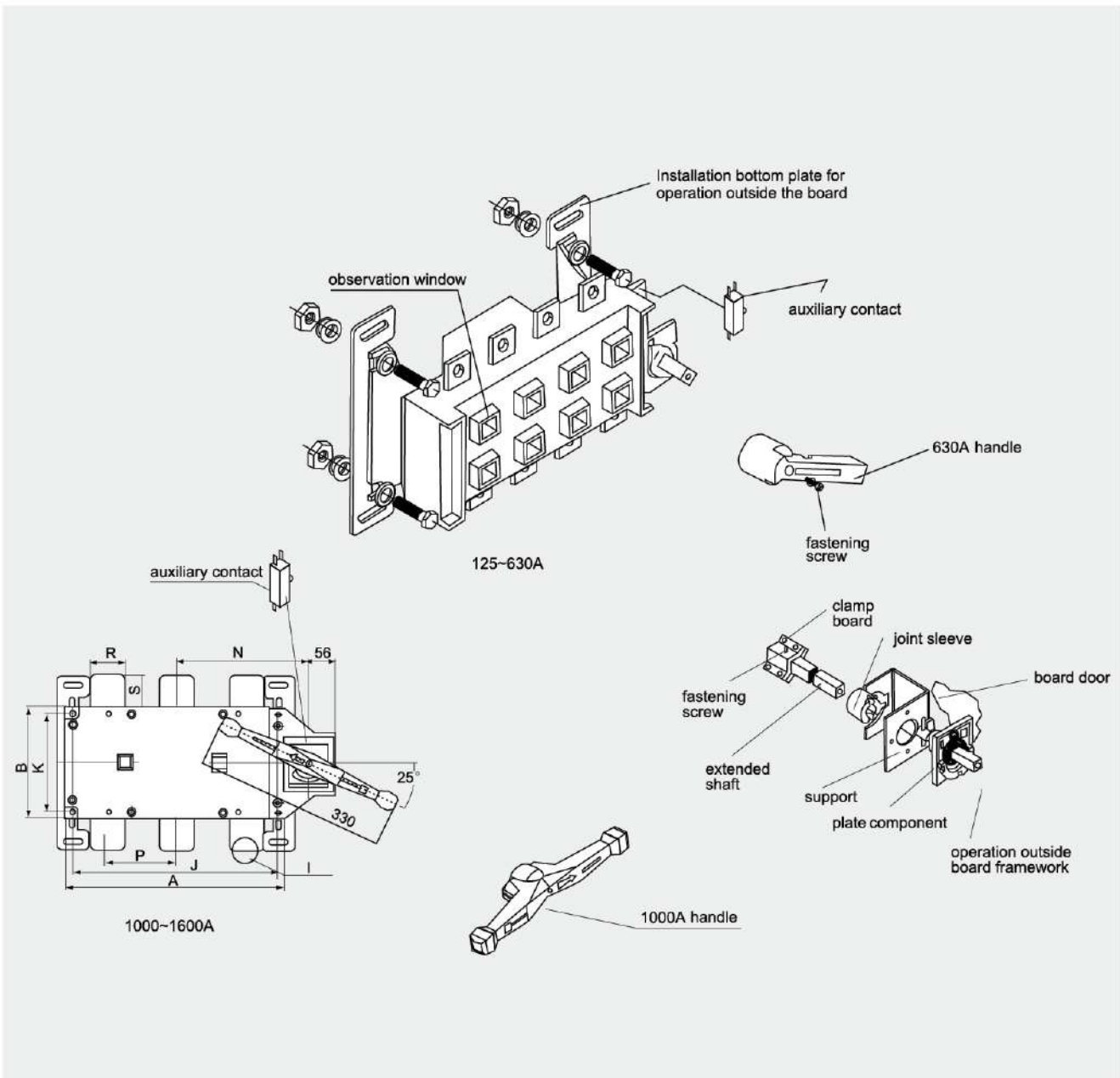
DGLCK Series Isolation Switch



Note: C, K-side operation observation window

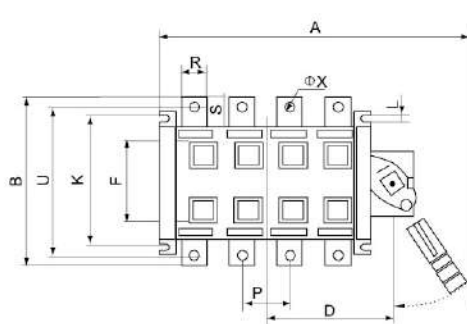
DGLCK-125~3150A Series of Lateral Operation Isolation Switch

- DGLCK-125-1600A. The load isolation switch is suitable for the on and off of circuit or electric insulation.
The products have three poles, four poles, and (three poles+on and off neural pole).
- Products with observation windows can be provided according to the demand to observe directly the on and off state of contact.
Direct operation: handle is installed on the right side of switch.
Operation outside the board: handle is installed outside the door of distributing board.
- Two sets of auxiliary contact can be assembled according to the demand.
- Extended shaft is used for the operation outside the board.
- Mechanical property and electric property correspond to the mechanical property and electric property of DGL-125-3150A.

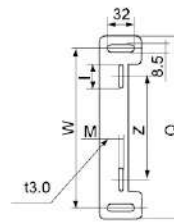
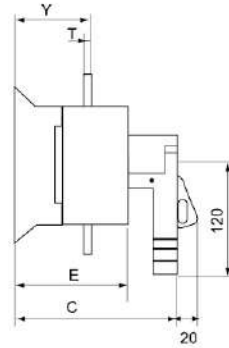


DGLCK-125~630A Series of Lateral Operation Isolation Switch

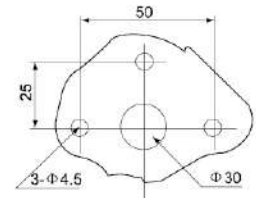
Outline and Installation Size



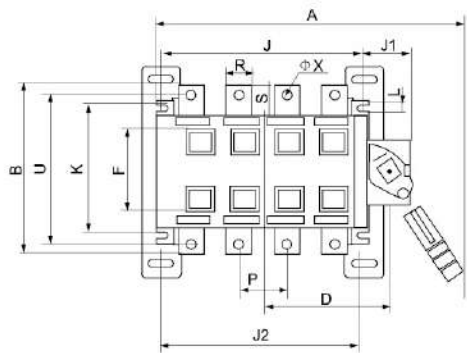
DGLCK-125~630A Direct operation



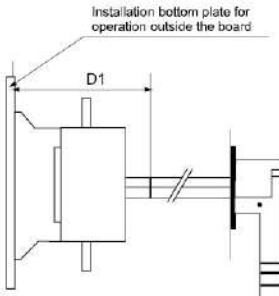
Installation bottom plate for operation outside the board



Installation size of handle seat outside board



DGLCK-125~630A/JK Operation outside board

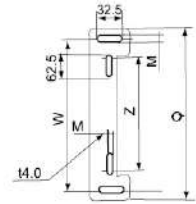
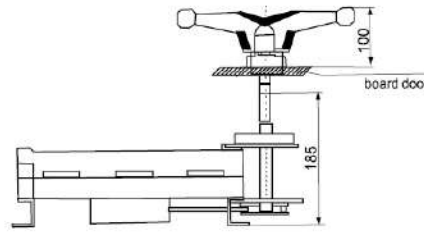
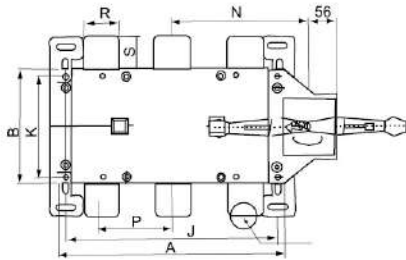


Type Specification	Floor Size				
	I	M	Z	W	Q
DGCK-125A	55	6.5	110	216	244
DGCK-160A	55	6.5	110	216	244
DGCK-200A	55	6.5	110	216	244
DGCK-250A	55	6.5	110	216	244
DGCK-315A	60	8.5	170	280	311
DGCK-400A	60	8.5	170	280	311
DGCK-500A	60	8.5	170	280	311
DGCK-630A	60	8.5	170	280	311

Type Specification	External Dimension and Installation Dimension																		
	A	B	C	D	D1	E	J	J1	J2	K	P	R	S	T	U	ΦX	Y	L	F
125A/3	267	135	146	89	110	89	120	65	120	95	36	20	25	3.5	115	9	55	7	59
125A/4	297	135	146	104	110	89	150	65	150	95	36	20	25	3.5	115	9	55	7	59
160A/3	267	135	146	89	110	89	120	65	120	95	36	20	25	3.5	115	9	55	7	59
160A/4	297	135	146	104	110	89	150	65	150	95	36	20	25	3.5	115	9	55	7	59
200A/3	330	170	156	110	120	101	160	65	160	115	50	25	30	3.5	140	11	65	11	76
200A/4	380	170	156	135	120	101	210	65	210	115	50	25	30	3.5	140	11	65	11	76
250A/3	330	170	156	110	120	101	160	65	160	115	50	25	30	3.5	140	11	65	11	76
250A/4	380	170	156	135	120	101	210	65	210	180	50	25	30	3.5	140	11	65	11	76
315A/3	400	240	195	150	150	126	210	77	160	180	65	32	40	5	206	11	85	13	94
315A/4	465	240	195	180	150	126	275	77	210	180	65	32	40	5	206	11	85	13	94
400A/3	400	240	195	150	150	126	210	77	210	180	65	32	40	5	206	11	85	13	94
400A/4	465	240	195	180	150	126	275	77	275	180	65	32	40	5	206	11	85	13	94
500A/3	400	260	195	150	150	126	210	77	210	180	65	40	50	6	220	13	85	13	94
500A/4	465	260	195	180	150	126	275	77	275	180	65	40	50	6	220	13	85	13	94
630A/3	400	260	195	150	150	126	210	77	210	180	65	40	50	6	220	13	85	13	94
630A/4	465	260	195	180	150	126	275	77	275	180	65	40	50	6	220	13	85	13	94

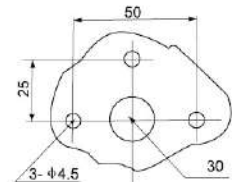
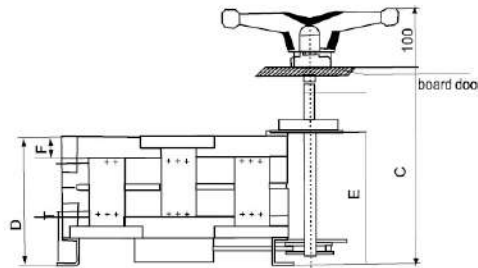
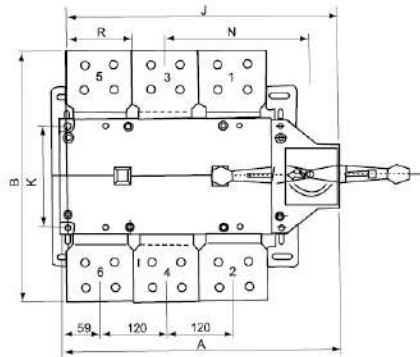
DGLCK-1000~3150A Series of Lateral Operation Isolation Switch

Outline and Installation Size



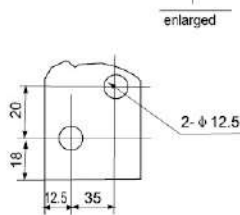
Installation bottom plate for operation outside the board

DGLCK-1000~3150A/3J

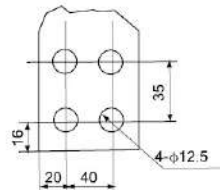


Installation size of handle seat outside board

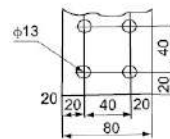
DGLCK-2000~3150A/3



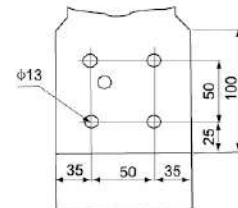
1000A



1250~1600A



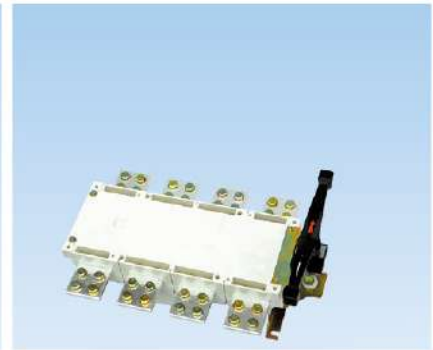
2000~2500A



3150A

Type Specification	External Dimension and Installation Dimension																
	A	B	C	D	E	F	J	K	M	N	P	Q	R	S	T	W	Z
1000A/3	378	200	242	152	170	47.5	355	175	8.5	229	120	311	60	56	8	280	224
1000A/4	492	200	242	152	170	47.5	470	175	8.5	289	120	311	60	56	8	280	224
1250A/3	378	200	242	152	170	47.5	355	175	8.5	229	120	311	80	69	8	280	224
1250A/4	492	200	242	152	170	47.5	470	175	8.5	289	120	311	80	69	8	280	224
1600A/3	378	200	242	152	170	47.5	355	175	8.5	229	120	311	80	69	10	280	224
1600A/4	492	200	242	152	170	47.5	470	175	8.5	289	120	311	80	69	10	280	224
2000A/3	378	200	335	240	260	47.5	355	175	8.5	229	120	311	80	127	10	280	224
2000A/4	492	200	335	240	260	47.5	470	175	8.5	289	120	311	80	127	10	280	224
2500A/3	378	200	335	240	260	47.5	355	175	8.5	229	120	311	80	127	10	280	224
2500A/4	492	200	335	240	260	47.5	470	175	8.5	289	120	311	80	127	10	280	224
3150A/3	378	200	335	240	260	47.5	355	175	8.5	229	120	311	120	157	12	280	224
3150A/4	492	200	335	240	260	47.5	470	175	8.5	289	120	311	120	157	12	280	224

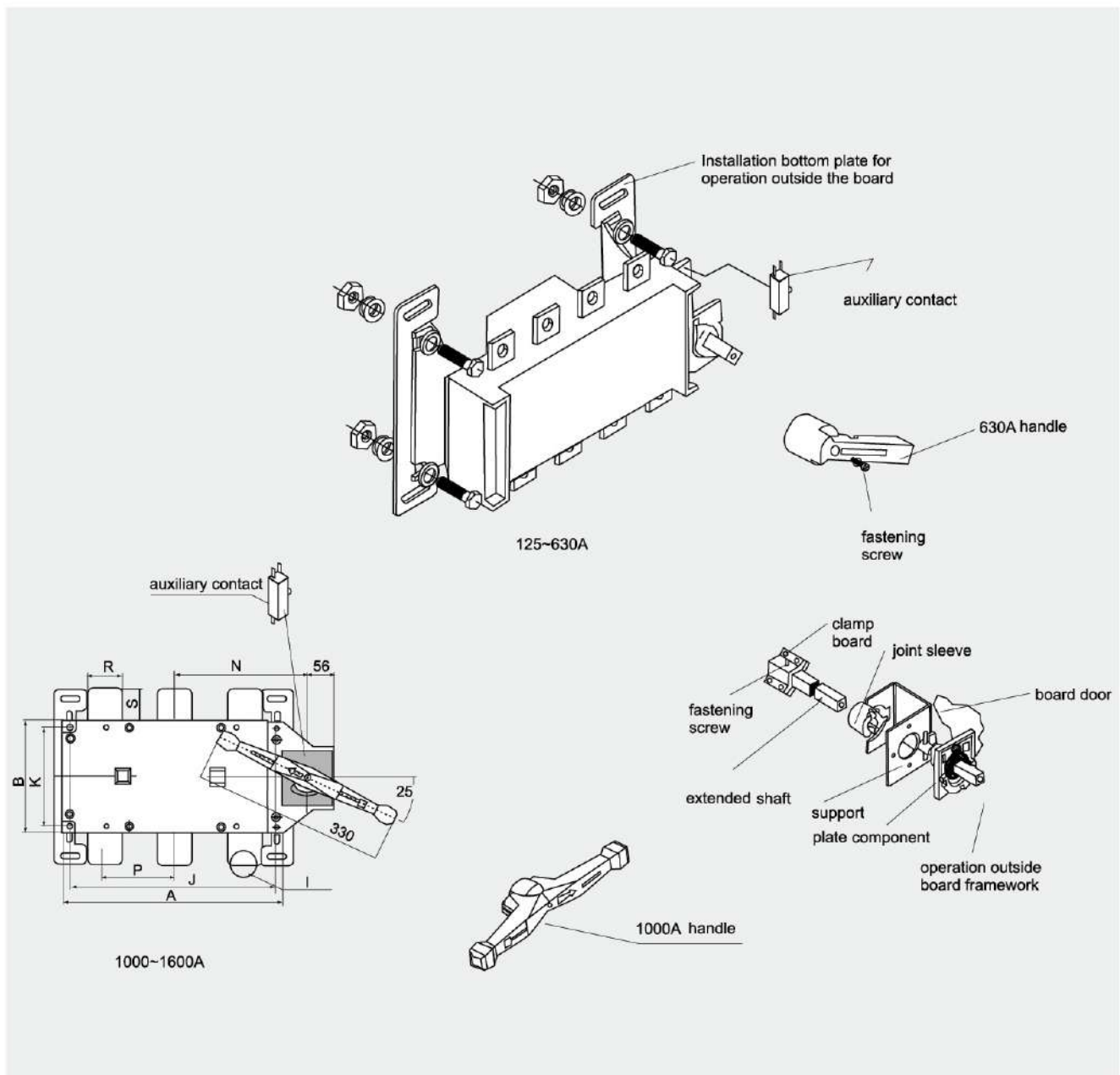
DGLC Series Isolation Switch



Note: C-side operation

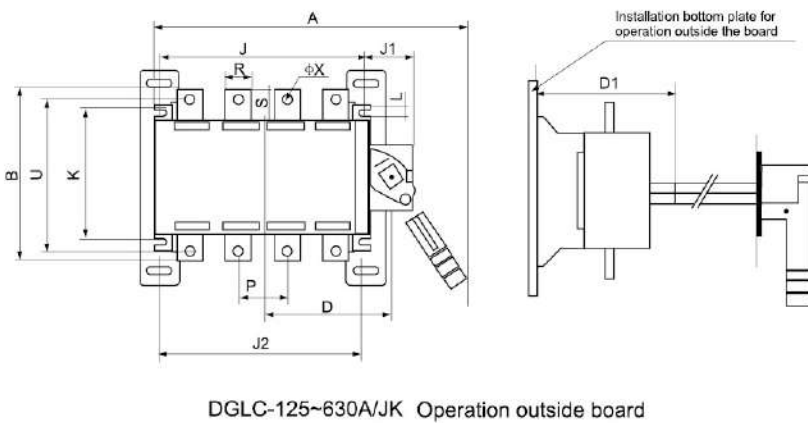
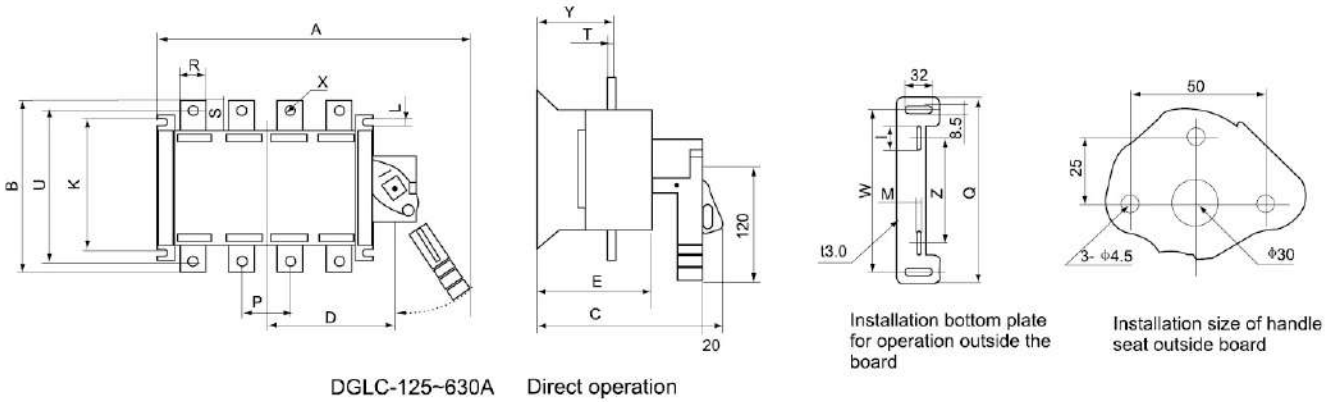
DGLC-125~3150A Side Operation Load Isolation Switch

- DGLC-125~3150A. The load isolation switch is suitable for the on and off of circuit or electric insulation. The products have three poles, four poles, and (three poles+on and off neural pole).
- Products with observation windows can be provided according to the demand to observe directly the on and off state of contact.
Direct operation: handle is installed on the right side of switch.
Operation outside the board: handle is installed outside the door of distributing board.
- Two sets of auxiliary contacts can be assembled according to the demand.
- Extended shaft is used for the operation outside the board.
- Mechanical property and electric property correspond to the mechanical property and electric property of DGL-125-3150A.



DGLC-125~630A Side operation Load Isolation Switch

Outline and Installation Size

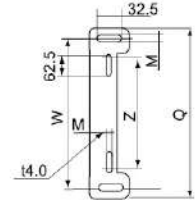
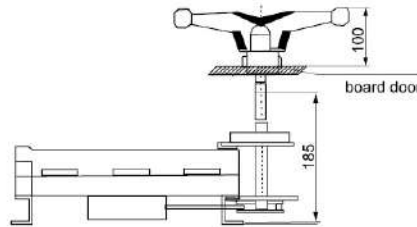
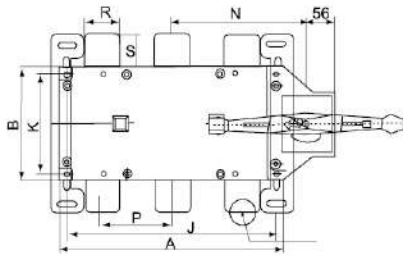


Type Specification	Floor Size				
	I	M	Z	W	Q
DGLC-125A	55	6.5	110	216	244
DGLC-160A	55	6.5	110	216	244
DGLC-200A	55	6.5	110	216	244
DGLC-250A	55	6.5	110	216	244
DGLC-315A	60	8.5	170	280	311
DGLC-400A	60	8.5	170	280	311
DGLC-500A	60	8.5	170	280	311
DGLC-630A	60	8.5	170	280	311

Type Specification	External Dimension and Installation Dimension																	
	A	B	C	D	D1	E	J	J1	J2	K	P	R	S	T	U	ΦX	Y	L
125A/3	267	135	146	89	110	89	120	65	120	95	36	20	25	3.5	115	9	55	7
125A/4	297	135	146	104	110	89	150	65	150	95	36	20	25	3.5	115	9	56	7
160A/3	267	135	146	89	110	89	120	65	120	95	36	20	25	3.5	115	9	56	7
160A/4	297	135	146	104	110	89	150	65	150	95	36	20	25	3.5	115	9	56	7
200A/3	308	170	156	110	120	101	160	65	160	115	50	25	30	3.5	140	11	66	11
200A/4	358	170	156	135	120	101	210	65	210	115	50	25	30	3.5	140	11	66	11
250A/3	308	170	156	110	120	101	160	65	160	115	50	25	30	3.5	140	11	66	11
250A/4	358	170	156	135	120	101	210	65	210	180	50	25	30	3.5	140	11	66	11
315A/3	400	240	195	150	150	126	210	77	160	180	65	32	40	5	206	11	85	13
315A/4	465	240	195	180	150	126	275	77	210	180	65	32	40	5	206	11	85	13
400A/3	400	240	195	150	150	126	210	77	210	180	65	32	40	5	206	11	85	13
400A/4	465	240	195	180	150	126	275	77	275	180	65	32	40	5	206	11	85	13
500A/3	400	260	195	150	150	126	210	77	210	180	65	40	50	6	220	13	85	13
500A/4	465	260	195	180	150	126	275	77	275	180	65	40	50	6	220	13	85	13
630A/3	400	260	195	150	150	126	210	77	210	180	65	40	50	6	220	13	85	13
630A/4	465	260	195	180	150	126	275	77	275	180	65	40	50	6	220	13	85	13

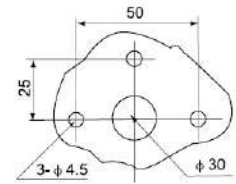
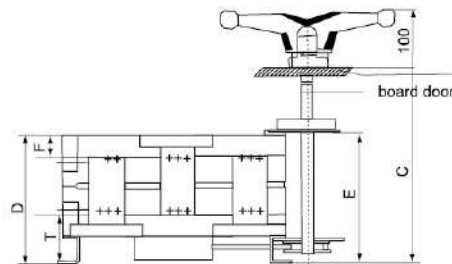
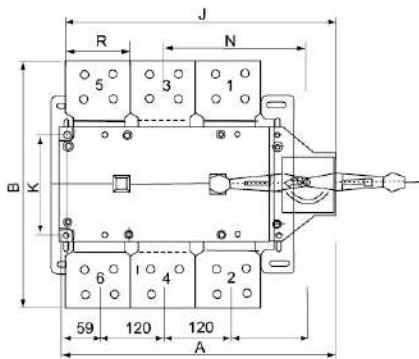
DGLC-1000~3150A Side Operation Load Isolation Switch

Outline and Installation Size



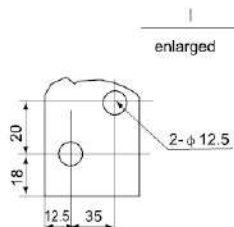
DGLC-1000~1600A/3J

Installation bottom plate for operation outside the board

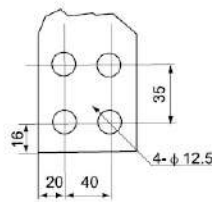


DGLC-2000~3150A/3

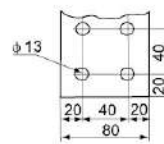
Installation size of handle seat outside board



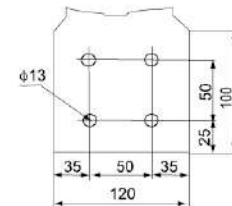
1000A



1250-1600A



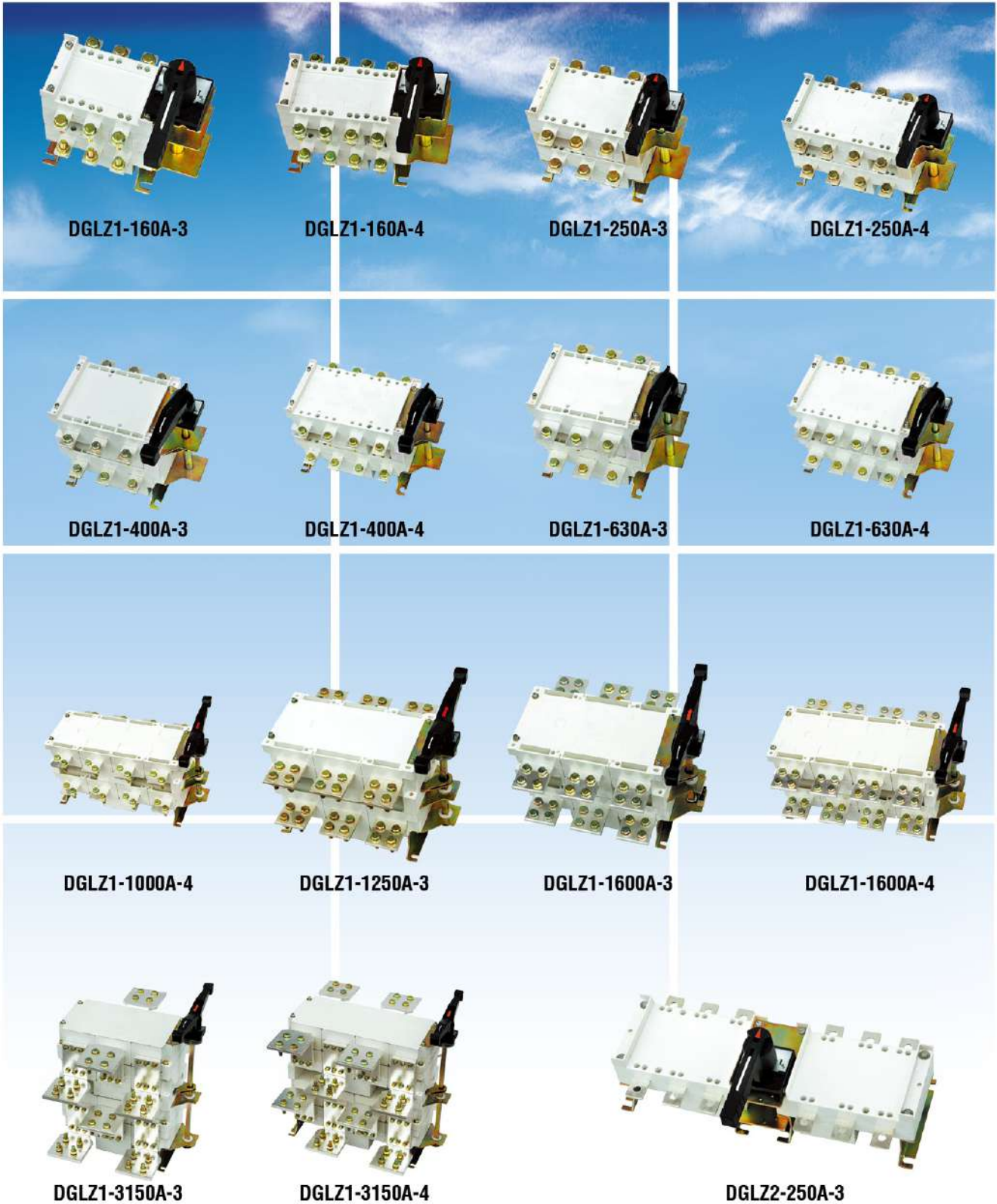
2000~2500A



3150A

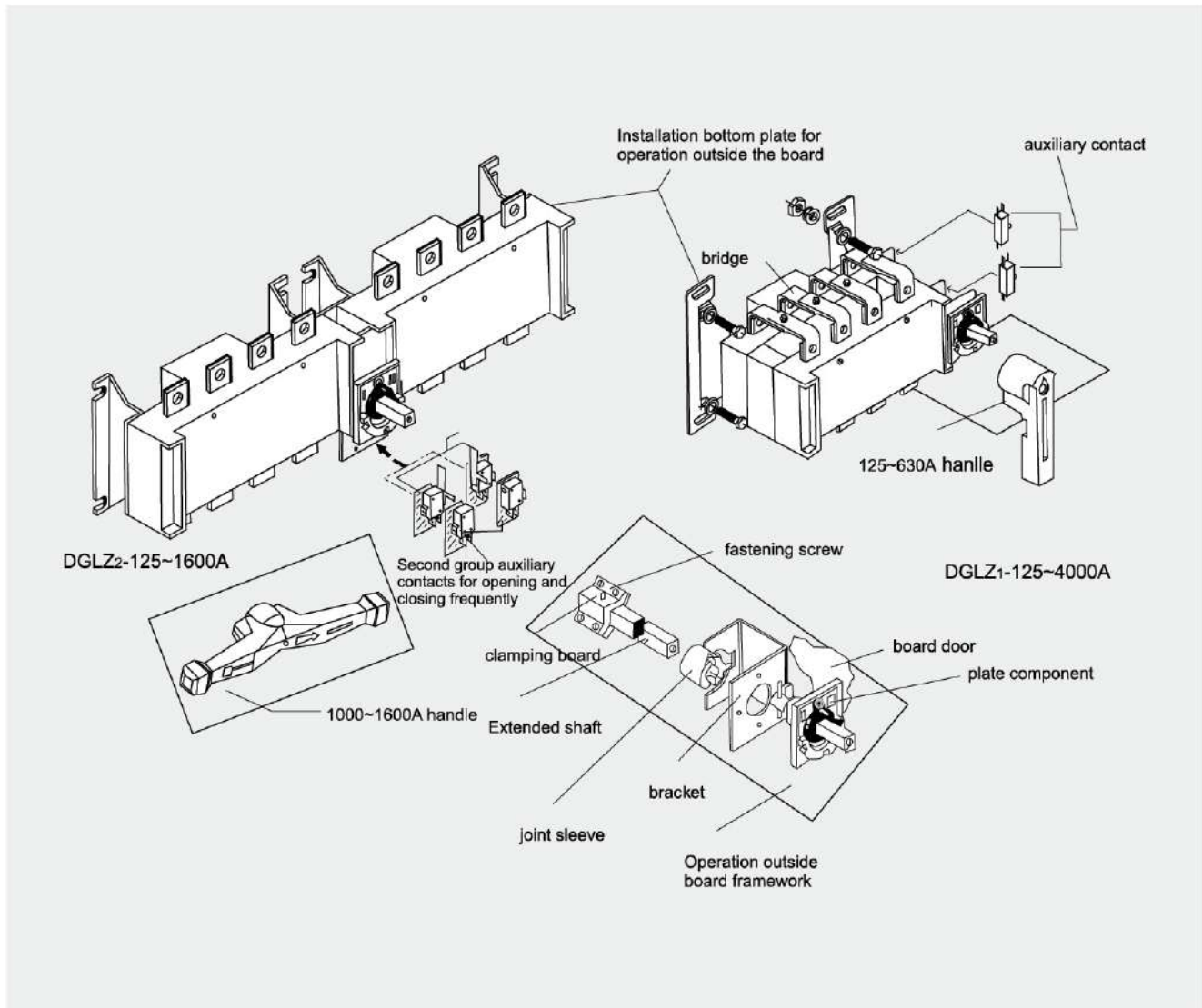
Type Specification	External Dimension and Installation Dimension																
	A	B	C	D	E	F	J	K	M	N	P	Q	R	S	T	W	Z
1000A/3	378	200	242	152	170	47.5	355	175	8.5	229	120	311	60	56	8	280	224
1000A/4	492	200	242	152	170	47.5	470	175	8.5	289	120	311	60	56	8	280	224
1250A/3	378	200	242	152	170	47.5	355	175	8.5	229	120	311	80	69	8	280	224
1250A/4	492	200	242	152	170	47.5	470	175	8.5	289	120	311	80	69	8	280	224
1600A/3	378	200	242	152	170	47.5	355	175	8.5	229	120	311	80	69	10	280	224
1600A/4	492	200	242	152	170	47.5	470	175	8.5	289	120	311	80	69	10	280	224
2000A/3	378	200	335	240	260	47.5	355	175	8.5	229	120	311	80	127	10	280	224
2000A/4	492	200	335	240	260	47.5	470	175	8.5	289	120	311	80	127	10	280	224
2500A/3	378	200	335	240	260	47.5	355	175	8.5	229	120	311	80	127	10	280	224
2500A/4	492	200	335	240	260	47.5	470	175	8.5	289	120	311	80	127	10	280	224
3150A/3	378	200	335	240	260	47.5	355	175	8.5	229	120	311	120	157	12	280	224
3150A/4	492	200	335	240	260	47.5	470	175	8.5	289	120	311	120	157	12	280	224

DGLZ1 Series Transfer Isolation Switch



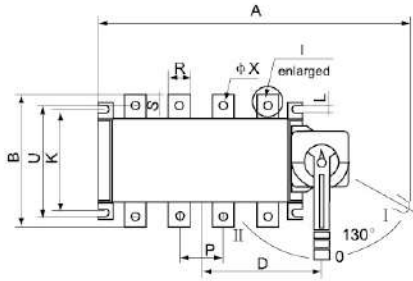
DGLZ1-125~4000A Change-over Load Isolation Switch

- DGLZ1-125~4000A. The load isolation switch is suitable for the changeover of two sets of low voltage electric circuit or the changeover of 2 sets of on-load devices or safety insulation.
- 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 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 property and electric property correspond to the mechanical property and electric property of DGL-125~4000A.
- A bridge can 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 is connected with it.

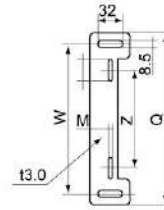
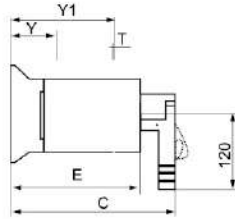


DGLZ1-125~630A Change-over Load Isolation Switch

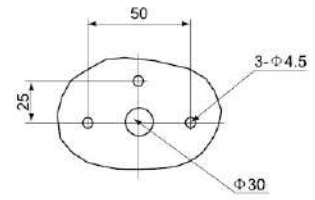
Outline and Installation Size



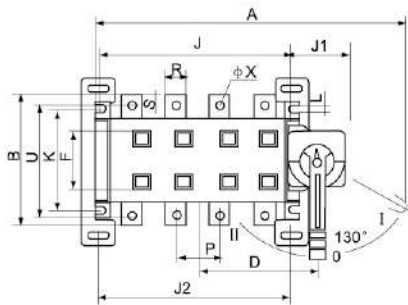
DGLZ1-125~1600A Direct operation



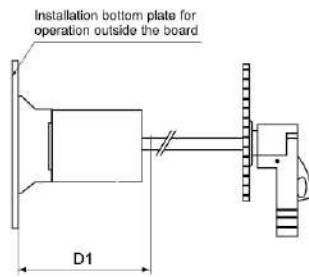
Installation bottom plate for operation outside the board



Installation size of handle seat outside board

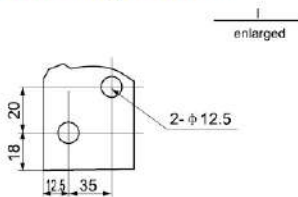


DGLZ1K-125~1600A Operation outside board

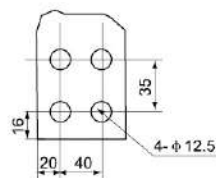


Type Specification	Floor Size				
	I	M	Z	W	Q
DGLZ1-125A	55	6.5	95	216	244
DGLZ1-160A	55	6.5	95	216	244
DGLZ1-200A	55	6.5	116	216	244
DGLZ1-250A	55	6.5	116	216	244
DGLZ1-315-400A	60	8.5	180	280	311
DGLZ1-500-630A	60	8.5	180	280	311
DGLZ1-1000-1600A	60	8.5	180	280	311

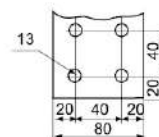
Connecting terminal



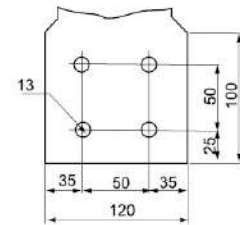
1000A



1250~1600A



2000~2500A

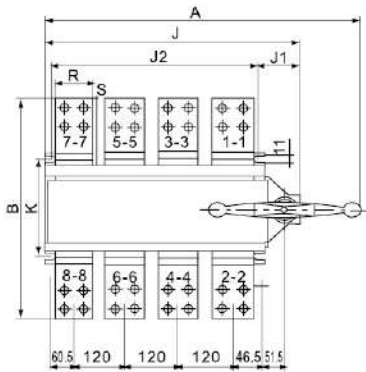


3150~4000A

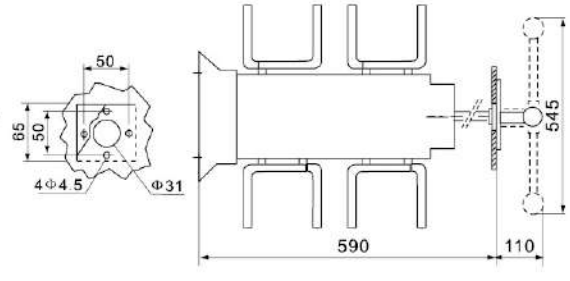
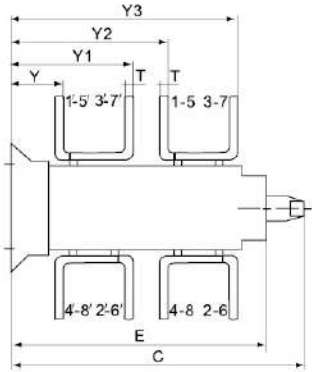
Type Specification	External Dimension and Installation Dimension																			
	A	B	C	D	D1	E	J	J1	J2	K	L	P	R	S	T	U	ΦX	Y	Y1	F
125A-160A/3	270	135	218	89	195	150	120	65	120	95	7	36	20	25	3.5	115	9	55	121	59
125A-160A/4	300	135	218	104	195	150	150	65	150	95	7	36	20	25	3.5	115	9	55	121	59
200A-250A/3	307	170	260	110	215	172	160	65	160	115	11	50	25	30	3.5	140	11	65	140	76
200A-250A/4	357	170	260	135	215	172	210	65	210	115	11	50	25	30	3.5	140	11	65	140	76
315A-400A/3	372	240	297	150	275	236	210	77	210	180	13	65	32	40	5	206	11	85	192	94
315A-400A/4	432	240	297	180	275	236	275	77	275	180	13	65	32	40	5	206	11	85	192	94
500A-630A/3	372	260	297	150	275	236	210	77	210	180	13	65	32	40	6	220	11	85	192	94
500A-630A/4	432	260	297	180	275	236	275	77	275	180	13	65	32	40	6	220	11	85	192	94

DGLZ1-1000~4000A Change-over Load Isolation Switch

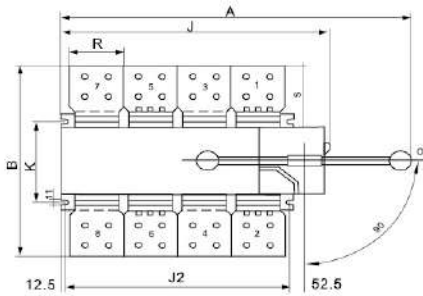
Outline and Installation Size



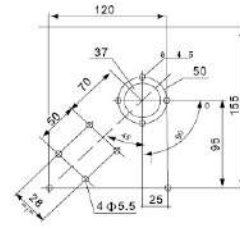
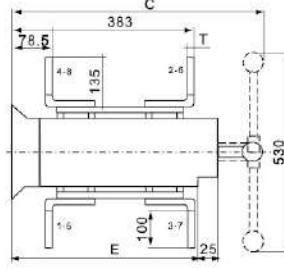
Direct operation on front face DGLZ1-2000~2500A



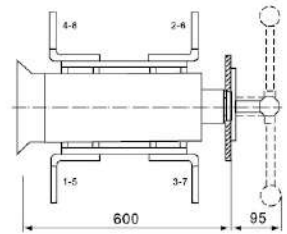
Operation outside DGLZ1-2000~2500A



Direct operation on front face DGLZ1-3150~4000A



Locking the cabinet face with the lock

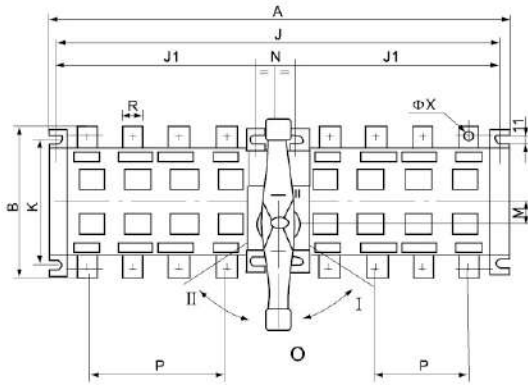


Operation outside DGLZ1-3150~4000A

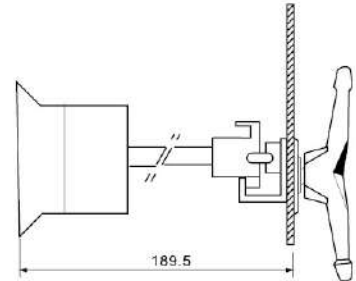
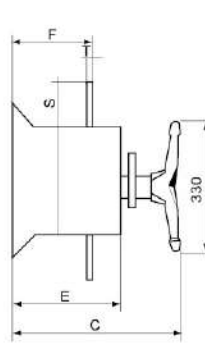
Type Specification	External Dimension and Installation Dimension																		
	A	B	C	D	D1	E	J	J1	J2	K	P	R	S	T	ΦX	Y	Y1	Y2	Y3
DGLZ1-1000~4000A																			
1000A/3	638	312	374	229	340	315	450	85	355	220	120	60	56	8	12.5	99	243.5		
1000A/4	758	312	374	289	340	315	565	85	470	220	120	60	56	8	12.5	99	243.5		
1250A/3	638	338	374	229	340	315	450	85	355	220	120	80	69	8	12.5	99	243.5		
1250A/4	758	338	374	289	340	315	565	85	470	220	120	80	69	8	12.5	99	243.5		
1600A/3	638	338	374	229	340	315	450	85	355	220	120	80	69	10	12.5	99.5	244		
1600A/4	758	338	374	289	340	315	565	85	470	220	120	80	69	10	12.5	99.5	244		
2000A/3	576	455	603	603	700	495	450	85	355	220	120	80	127	10	12.5	78.5	225.5	309.5	456.5
2000A/4	696	455	603	603	700	495	565	85	470	220	120	80	127	10	12.5	78.5	225.5	309.5	456.5
2500A/3	576	455	603	603	700	495	450	85	355	220	120	80	127	10	12.5	78.5	227.5	309.5	456.5
2500A/4	696	455	603	603	700	495	565	85	470	220	120	80	127	10	12.5	78.5	227.5	309.5	456.5
3150A/3	576	514	603	603	700	495	450	85	355	220	120	120	157	12	12.5	78.5	227.5	309.5	458
3150A/4	696	514	603	603	700	495	565	85	470	220	120	120	157	12	12.5	78.5	227.5	309.5	458
4000A/3	576	514	603	603	700	495	450	85	355	220	120	120	157		12.5	78.5			
4000A/4	696	514	603	603	700	495	565	85	470	220	120	120	157		12.5	78.5			

DGLZ2-125~1600A Change-over Load Isolation Switch

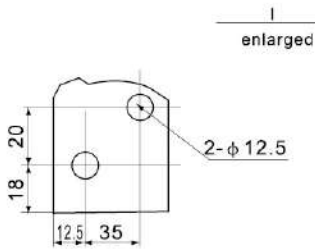
Outline and Installation Size



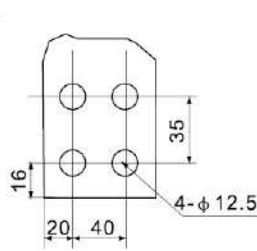
Direct operation on front face DGLZ₂-125~1600A



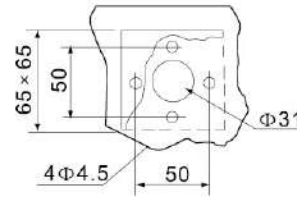
Operation outside DGLZ₂-125~1600A



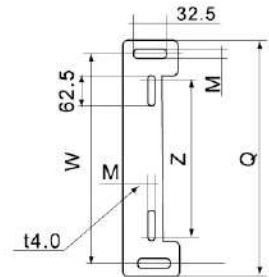
1000A



1250~1600A



Installation size of handle seat outside board



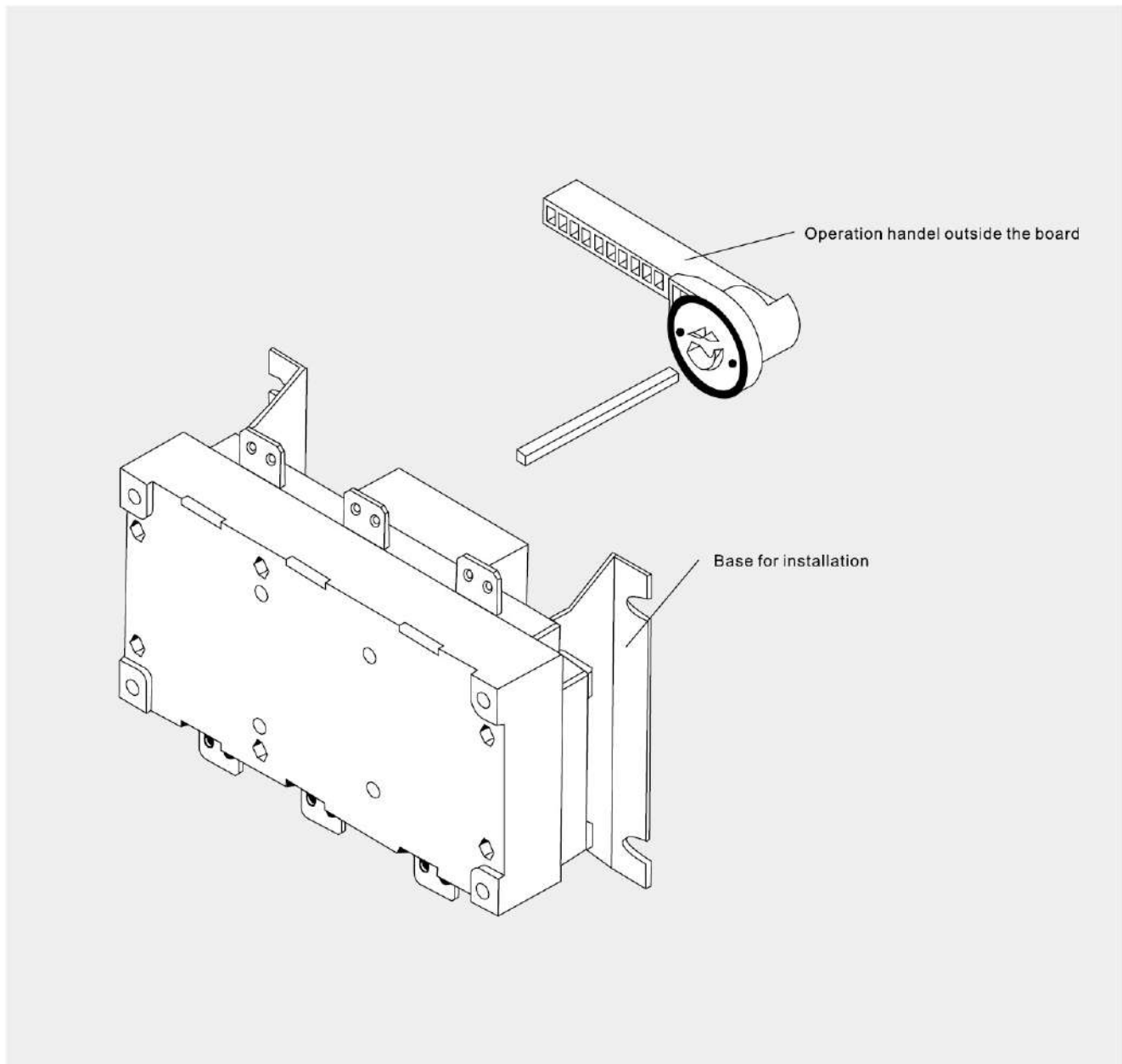
Installation bottom plate for operation outside the board

Type Specification	External Dimension and Installation Dimension																	
	A	B	C	E	F	J	J1	K	M	N	P	Q	R	S	T	W	Z	
DGLZ2-125~1600A																		
125-160A/3	319	85	141	89	24	299	120	65	6.5	59	36	244	20	25	3.5	216	95	
125-160A/4	379	85	141	89	24	359	150	65	6.5	59	36	244	20	25	3.5	216	95	
200-250A/3	405	110	146	101	25	385	160	90	6.5	65	50	244	25	30	3.5	216	116	
200-250A/4	505	110	146	101	25	485	210	90	6.5	65	50	244	25	30	3.5	216	116	
315-400A/3	535	160	191	126	37	515	210	140	8.5	95	65	311	32	40	5	280	180	
315-400A/4	655	160	191	126	37	515	210	140	8.5	95	65	311	32	40	5	280	180	
500-630A/3	535	160	191	126	37.5	515	210	140	8.5	95	65	311	40	50	6	280	180	
500-630A/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	110	811	355	220	8.5	105	120	311	60	56	8	280	180	
1000A/4	1072	200	272	163	110	1051	473	220	8.5	105	120	311	60	56	8	280	180	
1250A/3	836	200	272	163	110	811	355	220	8.5	105	120	311	80	69	8	280	180	
1250A/4	1072	200	272	163	110	1051	473	220	8.5	105	120	311	80	69	8	280	180	
1600A/3	836	200	272	163	112	811	355	220	8.5	105	120	311	80	69	10	280	180	
1600A/4	1072	200	272	163	112	1051	473	220	8.5	105	120	311	80	69	10	280	180	

DGLH-125~1600A Change-over Load Isolation Switch

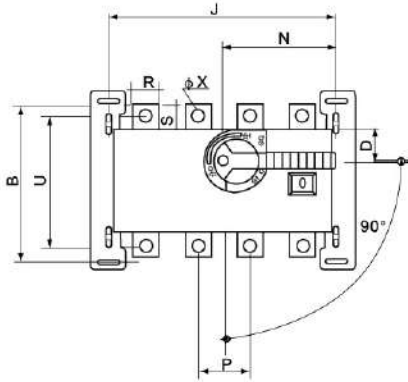
- 125-630A possesses three poles, and four poles (three poles+on/off neutral pole).
- Observation window can be provided for products below 630A can be provided according to the demand to observe directly the on and off state of the contact.
- Two sets of auxiliary contacts can be assembled according to demand.
- Mechanical property and electric property correspond to the mechanical property and electric property of DGL-125~1600A.

Notes: only offer products for operation outside board.

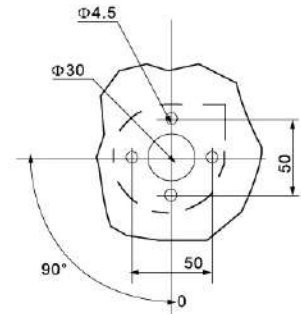
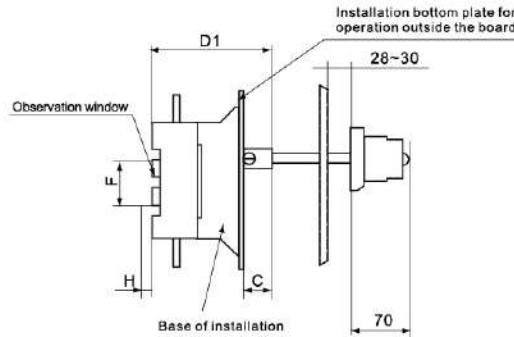


DGLH-125~630A Change-over Load Isolation Switch

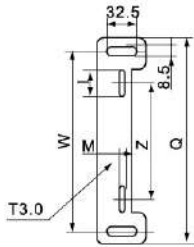
Outline and Installation Size



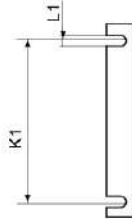
operation outside DGLH-125~630A/JK board



Installation size of handle seat outside board



Installation bottom plate for operation outside the board



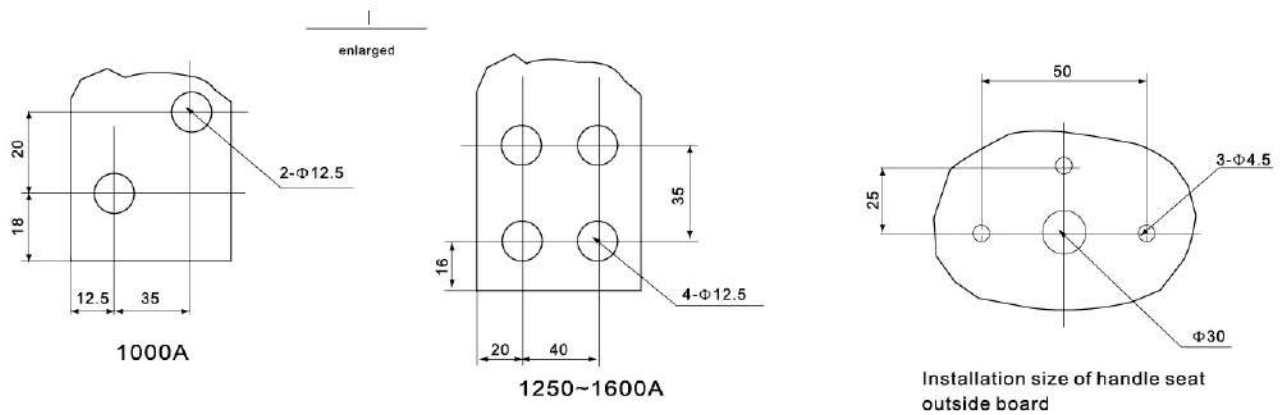
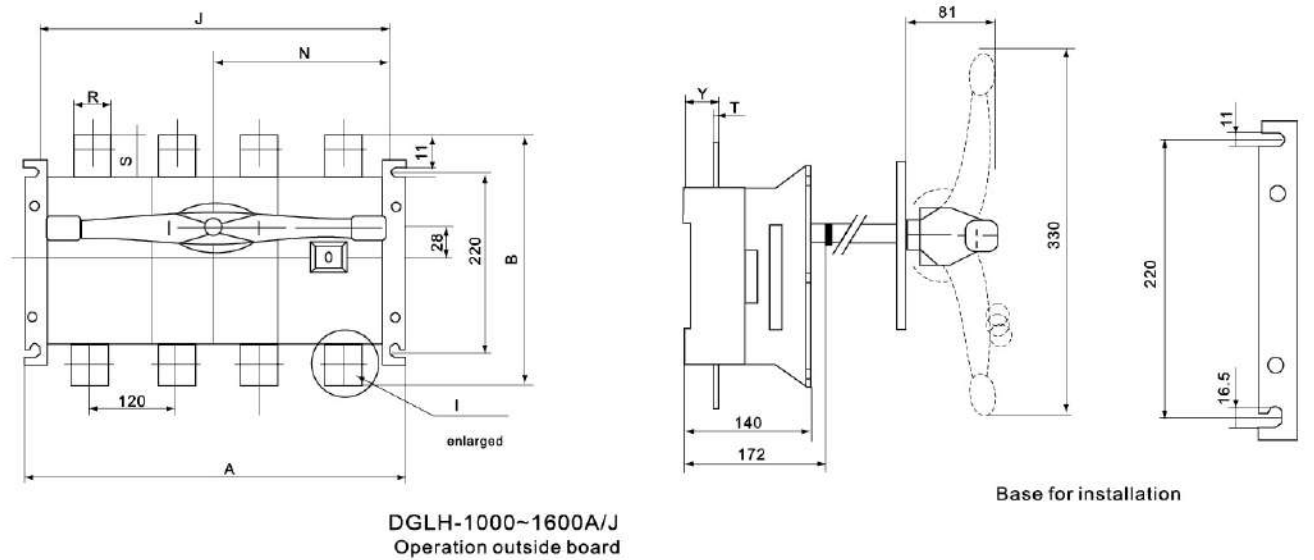
Base for installation

Type Specification	Floor Size						
	I	M	Z	W	Q	K1	L1
DGLH-125A	55	6.5	110	216	244	95	7
DGLH-160A	55	6.5	110	216	244	95	7
DGLH-200A	55	6.5	110	216	244	116	9
DGLH-250A	55	6.5	110	216	244	116	9
DGLH-315A	60	8.5	170	280	311	180	11
DGLH-400A	60	8.5	170	280	311	180	11
DGLH-500A	60	8.5	170	280	311	180	11
DGLH-630A	60	8.5	170	280	311	180	11

Type Specification	External Dimension and Installation Dimension												
	B	C	D	D1	J	N	P	R	S	U	ΦX	F	H
DGLH-125-630A													
125A/3	135	17	27	92	120	85	36	20	25	115	9	59	10
125A/4	135	17	27	92	150	85	36	20	25	115	9	59	10
160A/3	135	17	27	92	120	85	36	20	25	115	9	59	10
160A/4	135	17	27	92	150	85	36	20	25	115	9	59	10
200A/3	170	18	35	98	160	115	50	25	30	140	11	76	15
200A/4	170	18	35	98	210	115	50	25	30	140	11	76	15
250A/3	170	18	35	98	160	115	50	25	30	140	11	76	15
250A/4	170	18	35	98	210	115	50	25	30	140	11	76	15
315A/3	240	20	50	135	210	145	65	32	40	206	11	94	20
315A/4	240	20	50	135	275	145	65	32	40	206	11	94	20
400A/3	240	20	50	135	210	145	65	32	40	206	11	94	20
400A/4	240	20	50	135	275	145	65	32	40	206	11	94	20
500A/3	260	20	50	135	210	145	65	40	50	220	13	94	20
500A/4	260	20	50	135	275	145	65	40	50	220	13	94	20
630A/3	260	20	50	135	210	145	65	40	50	220	13	94	20
630A/4	260	20	50	135	275	145	65	40	50	220	13	94	20

DGLH-1000~1600A Change-over Load Isolation Switch

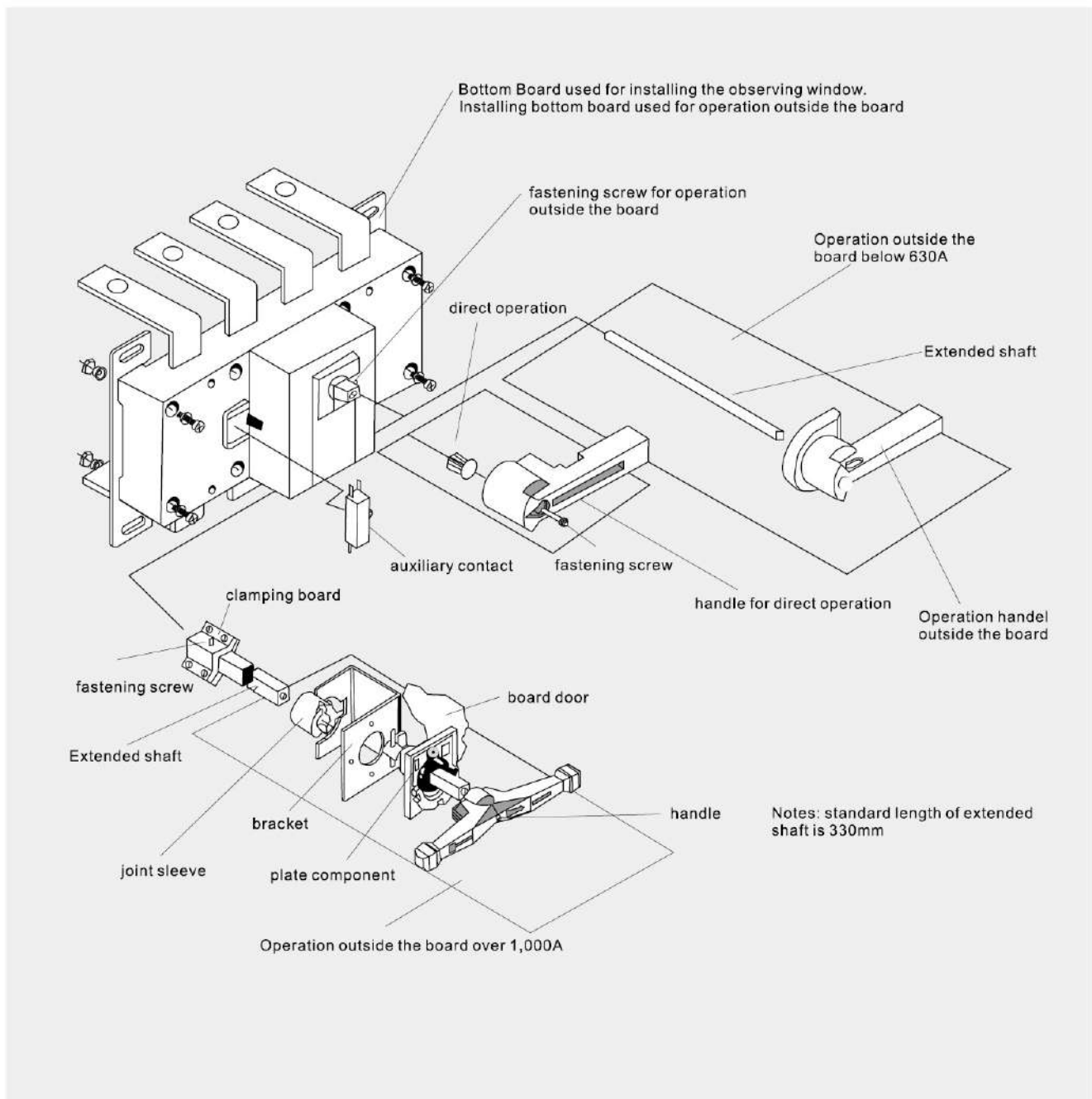
Outline and Installation Size



Type Specification	External Dimension and Installation Dimension							
	A	B	J	N	R	S	T	Y
DGLH-1000~1600A								
1000A/3	378	312	355	174	60	56	8	48
1000A/4	492	312	470	234	60	56	8	48
1250A/3	378	338	355	174	80	69	8	48
1250A/4	492	338	470	234	80	69	8	48
1600A/3	378	338	355	174	80	69	10	49
1600A/4	492	338	470	234	80	69	10	49

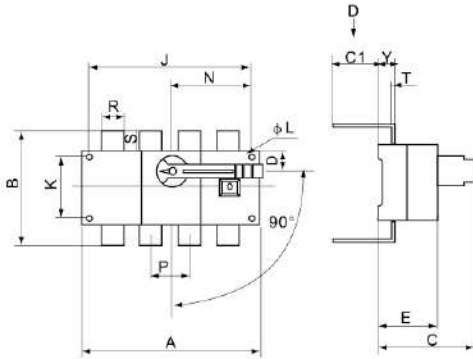
DGLB-125~1600A After Wiring Board Load-Isolation Switch

- 125-630A is suitable for the on and off of electric circuit or electric insulation. Over 1,000A is only suitable for electric insulation.
- 125-630A was three poles, and four poles (three poles+on/off neutral pole).
- Products below 630A with observation window can be provided according to the demand to observe the on and off state of contact.
- Two sets of auxiliary contacts are assembled according to demand.
- Mechanical property and electric property correspond to the mechanical property and electric property of DGL-125~1600A.

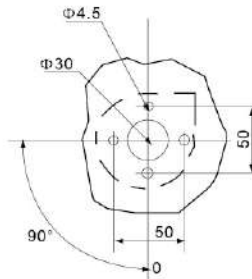


DGLB-125~630A After Wiring Board Load-Isolation Switch

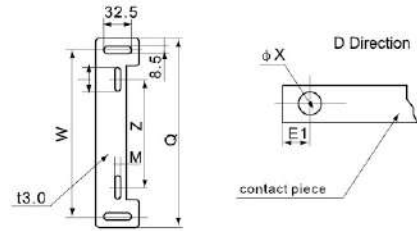
Outline and Installation Size



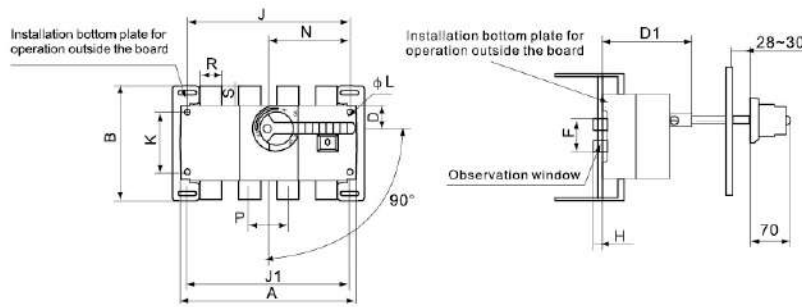
direct operation of DGLB -125-630A



Installation size of handle seat outside board



Installation bottom plate for operation outside the board



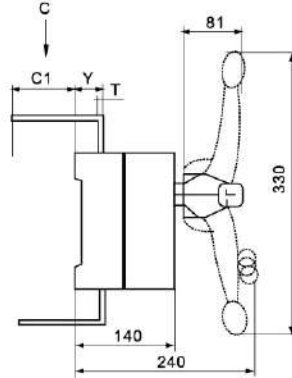
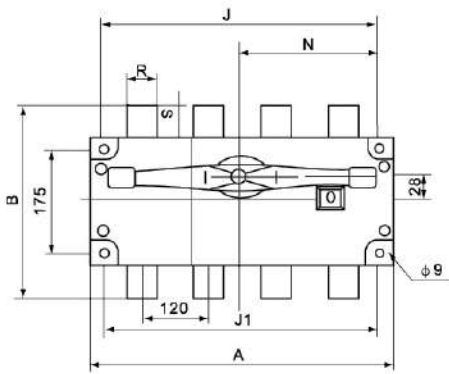
Operation outside the DGLB-125-630A/JK board

Type Specification	Floor Size				
	I	M	Z	W	Q
DGLB-125A	55	5.5	85	190	218
DGLB-160A	55	5.5	85	190	218
DGLB-200A	55	5.5	85	190	218
DGLB-250A	55	5.5	85	190	218
DGLB-315A	60	6.5	130	240	270
DGLB-400A	60	6.5	130	240	270
DGLB-500A	60	6.5	130	240	270
DGLB-630A	60	6.5	130	240	270

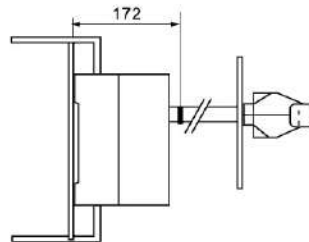
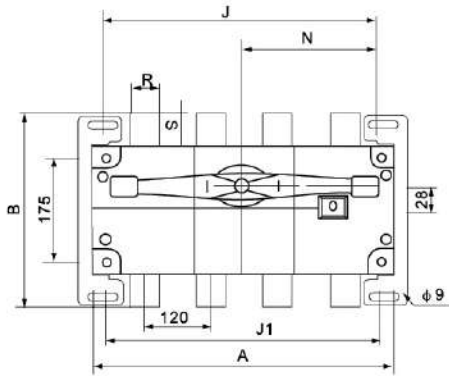
Type Specification	External Dimension and Installation Dimension																				
	A	B	C	C1	D	D1	E	E1	ϕL	J	J1	K	N	P	R	S	T	ϕX	Y	F	H
125A/3	140	189	125	5	27	92	73	10	5.5	120	120	65	85	36	20	25	3.5	9	25	59	10
125A/4	170	189	125	5	27	92	73	10	5.5	150	150	65	85	36	20	25	3.5	9	25	59	10
160A/3	140	189	125	5	27	92	73	10	5.5	120	120	65	85	36	20	25	3.5	9	25	59	10
160A/4	170	189	125	5	27	92	73	10	5.5	150	150	65	85	36	20	25	3.5	9	25	59	10
200A/3	180	222	138	10	35	98	86	15	5.5	160	160	90	115	50	25	30	3.5	11	25	76	15
200A/4	230	222	138	10	35	98	86	15	5.5	210	210	90	115	50	25	30	3.5	11	25	76	15
250A/3	180	222	138	10	35	98	86	15	5.5	160	160	90	115	50	25	30	3.5	11	25	76	15
250A/4	230	222	138	10	35	98	86	15	5.5	210	210	90	115	50	25	30	3.5	11	25	76	15
315A/3	230	284	165	3	50	135	110	17	7	210	210	140	145	65	32	40	5	11	37	94	20
315A/4	290	284	165	3	50	135	110	17	7	275	275	140	145	65	32	40	5	11	37	94	20
400A/3	230	284	165	3	50	135	110	17	7	210	210	140	145	65	32	40	5	11	37	94	20
400A/4	290	284	165	3	50	135	110	17	7	275	275	140	145	65	32	40	5	11	37	94	20
500A/3	230	294	165	13	50	135	110	20	7	210	210	140	145	65	40	50	6	13	37	94	20
500A/4	290	294	165	13	50	135	110	20	7	275	275	140	145	65	40	50	6	13	37	94	20
630A/3	230	294	165	13	50	135	110	20	7	210	210	140	145	65	40	50	6	13	37	94	20
630A/4	290	294	165	13	50	135	110	20	7	275	275	140	145	65	40	50	6	13	37	94	20

DGLB-1000~1600A After Wiring Board Load-Isolation Switch

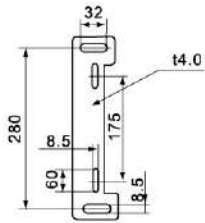
Outline and Installation Size



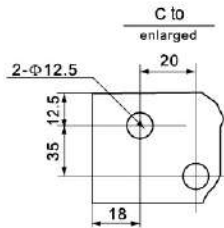
DGLB-1000~1600A
Direct operation



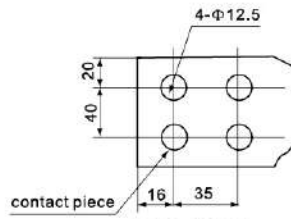
DGLB-1000~1600A/J
operation outside board



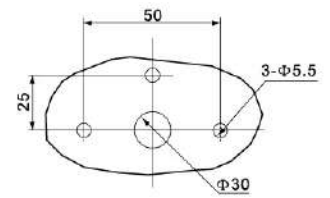
Installation bottom plate for
operation outside the board



1000A



1250~1600A



Installation size of handle
seat outside board

Type Specification	External Dimension and Installation Dimension									
	A	B	C1	J	J1	N	R	S	T	Y
DGLB-1000-1600A										
1000A/3	378	344	22.5	355	355	186	60	56	8	48
1000A/4	492	344	22.5	470	470	248	60	56	8	48
1250A/3	378	344	32.5	355	355	186	80	69	8	48
1250A/4	492	344	32.5	470	470	248	80	69	8	48
1600A/3	378	348	32.5	355	355	186	80	69	10	49
1600A/4	492	348	32.5	470	470	248	80	69	10	49

DGLR Series Fuse Group Of Isolation Switch



DGLRC-63A-3



DGLR-160A-3



DGLR-160A-4



DGLR-250A-3



DGLR-250A-4



DGLR-400A-3



DGLR-400A-4



DGLRC-630A-3



DGLR-630A-4



DGLR-630A-3

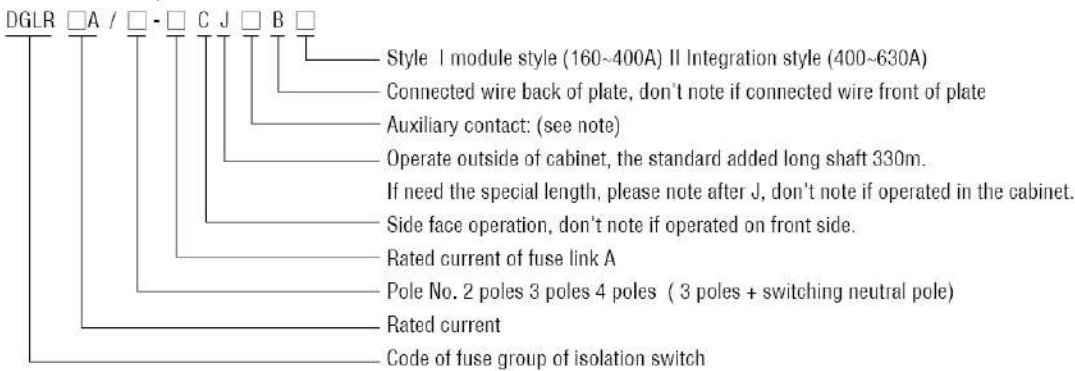


DGLR-1250A-3

DGLR Series Fuse Group of Isolation Switch

- DGLR Series fuse group of isolation switch (hereinafter short for switch) is multi-pole and manual operation switch, whose housing is made of glass fiber reinforced unsaturation polyester, it has merits of high dielectric property, guard capacity and reliable operation.
- The operation mechanism, it is accelerate mechanism of spring energy storage, instantaneous release, it is also a mechanism that is instantaneous making and breaking multi-breakpoint contact. It is no related with the speed of operation handle, thus, it extremely improves each electric performance and mechanical performance.
- Fuse group of isolation switch can make sure making and breaking circuit with load, and it has reliable over current or short-circuit breaking protection.
- Obviously saw the breaking state.
- With strong hot and humidity proofing.
- Because the switch owns the merits of graceful appearance, novel, simple, small volume and complete function, it is best selection among the same products.

Model description



Note: don't note if the function in the box is not necessary.

F-NC or NO auxiliary contact,

S-NO+ NC S type auxiliary contact,

U- U type auxiliary contact.

Example for lectotype : rated current 160A, 3 poles,

side face operation in the cabinet

Mated with the spec of fuse link

Rated current of fuse group of isolation switch (A)	Rated current of fuse link(A)	Size of fuse link
63	10, 20, 30, 40, 50, 63	00C
160	63, 80, 100, 125, 160	00
	160	0
250	200, 250	1
	300, 315, 400	2
400	400, 500, 630	3

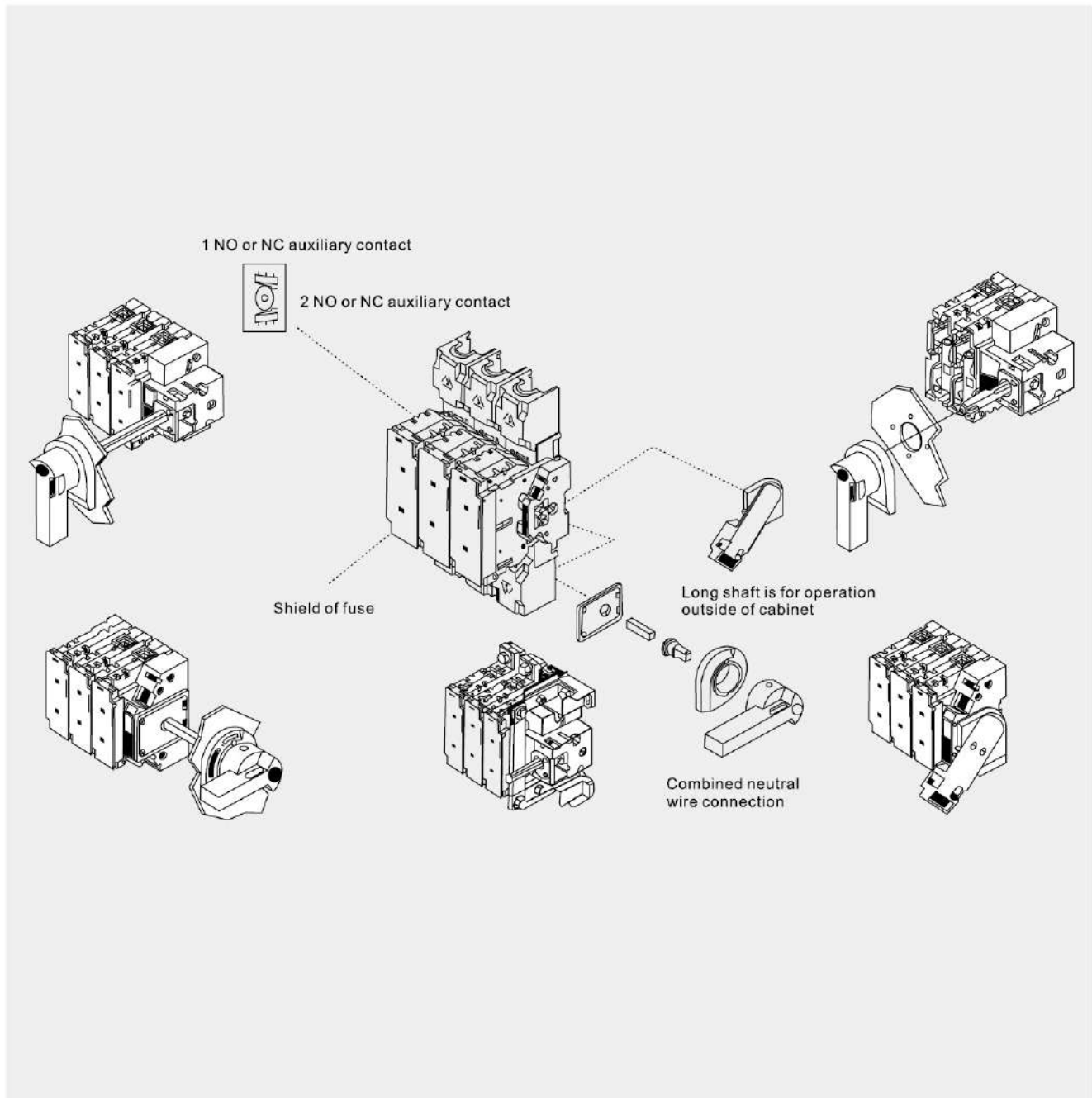
DGLR-63~630A/I Series Fuse Group of Isolation Switch

It makes sure making and breaking circuit with load, with reliable over-current and short-circuit breaking protection, also obviously saw the

breaking state. Own two poles, three poles, four poles (three poles+switch neutral pole). The fuser can be divided into 18 specs from 63A to 630A.

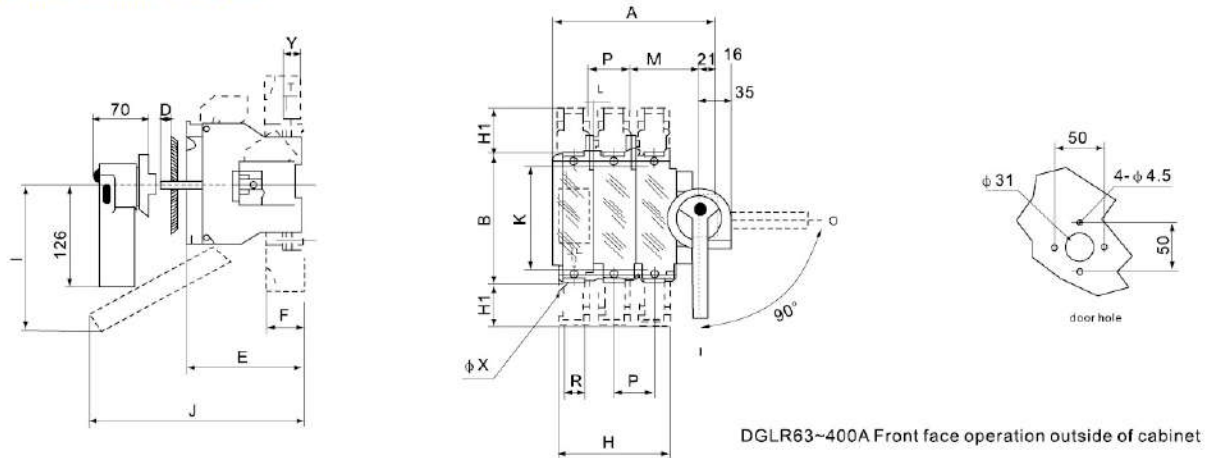
Structure and peration mode

- Direct operation on front face: the handle is installed on the front face of switch.
- Direct operation on side face: the handle is installed on the right of switch (it is noted separately if the handle is installed on the left of switch).
- Front face operation outside of cabinet: the handle is installed on the front face outside of the distribution cabinet door.
- Side face operation outside of cabinet: the handle is installed on the right of distribution cabinet outside. (it is noted separately if the handle is installed on the left)

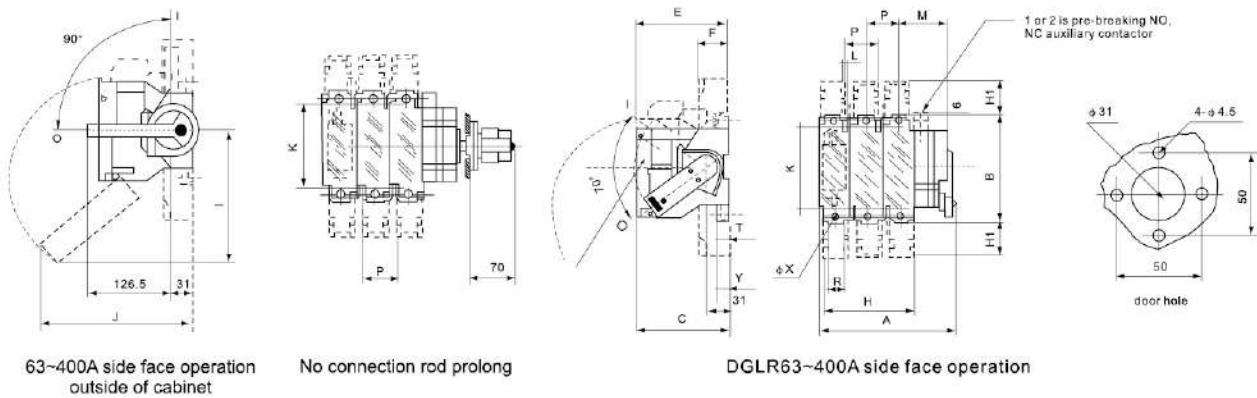


DGLR-63~400A/I Series Fuse Group of Isolation Switch

Outline and Installation Size



Type Specification	Size of fuse	External Dimension and Installation Dimension																
		A	B	D	E	F	H	H1	I	J	K	L	M	P	R	T	φX	Y
DGLR-63-400A																		
63A/3	0-00C	152	118	20-30	117				159	145	106	5.4	62.5	32				
63A/4	0-00C	184	118	20-30	117				159	145	106	5.4	62.5	32				
160/3	0-00	164	162	28-30	126	44	108	53	141	189	127	5.4	65	36	20	2.5	8.5	19.5
160/4	0-00	200	162	28-30	126	44	144	53	141	189	127	5.4	65	36	20	2.5	8.5	19.5
250/3	1	236	195	28-30	146	65	180	75	185	251	162	6.4	90.5	60	32	2.5	11	19.5
250/4	1	296	195	28-30	146	65	240	75	185	251	162	6.4	90.5	60	32	2.5	11	19.5
400/3	2	278	205	28-30	149	65	192	75	200	260	172	6.4	121	66	50	3	11	20
400/4	2	344	205	28-30	149	65	258	75	200	260	172	6.4	121	66	50	3	11	20



63~400A side face operation outside of cabinet

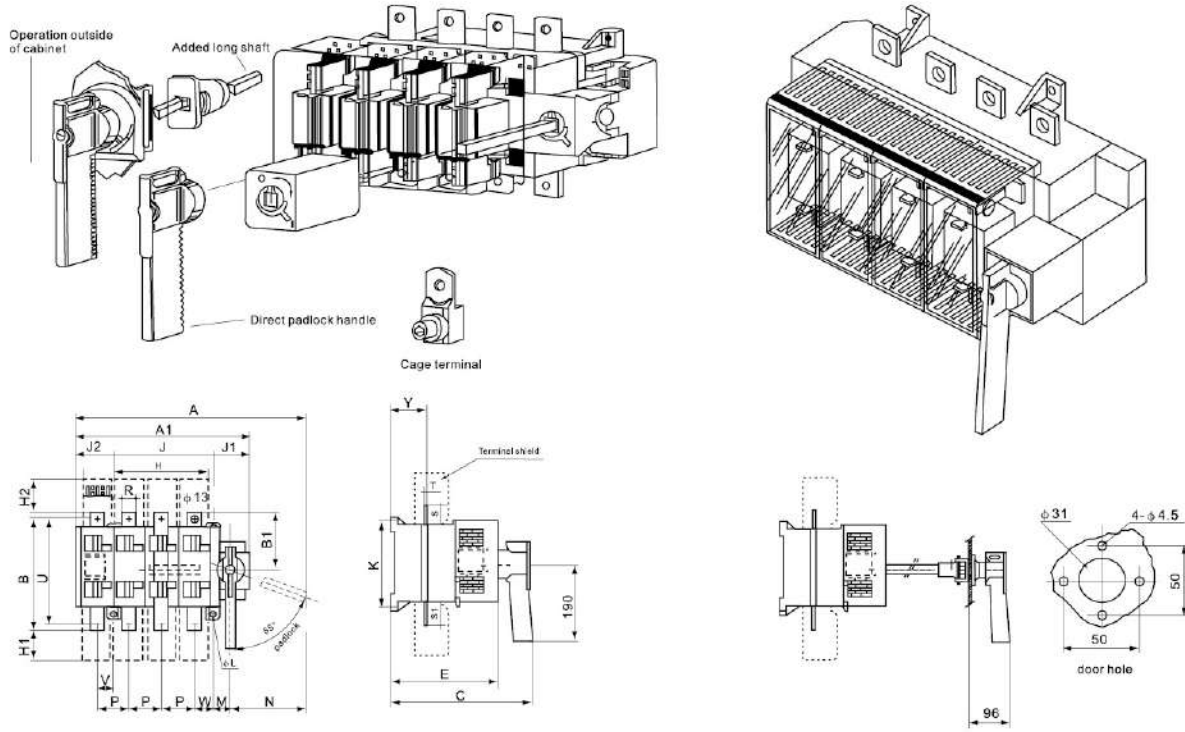
No connection rod prolong

DGLR63~400A side face operation

Type Specification	Size of fuse	External Dimension and Installation Dimension																
		A	B	C	E	F	H	H1	I	J	K	L	M	P	R	T	φX	Y
DGLR-63-400A																		
63A/3	0-00C	133	118	134	126.5		116.5		159	145	106	5.4	36	32				
63A/4	0-00C	164	118	117	126.5		116.5		159	145	106	5.4	36	32				
160/3	0-00	150	162	173	126.5	44	108	53	141	189	127	5.4	38	36	20	2.5	8.5	19.5
160/4	0-00	186	162	173	126.5	44	144	53	141	189	127	5.4	38	36	20	2.5	8.5	19.5
250/3	1	253	195	173	146	65	180	75	185	251	162	6.4	81	60	32	2.5	11	19.5
250/4	1	313	195	173	146	65	240	75	185	251	162	6.4	81	60	32	2.5	11	19.5
400/3	2	271	205	173	149	65	192	75	200	260	172	6.4	86	66	50	3	11	20
400/4	2	337	205	173	149	65	250	75	200	260	172	6.4	86	66	50	3	11	20

DGLR-400~630A/I Series Fuse Group of Isolation Switch

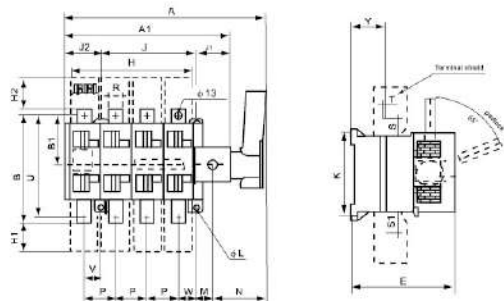
Outline and Installation Size



Direct operation on front face DGLR400A~630A

Operation outside DGLR400~630A

Type Specification	Size of fuse	External Dimension and Installation Dimension																								
		A	A1	B	B1	C	E	H	H1	H2	J	J2	J1	K	M	N	P	R	S	S1	T	V	U	W	φL	Y
400A/3	2	414	285	238	115	307	221	190	71	79	210	70	65	180	32.5	162	65	32	35	43	5	40.5	208	39.5	7	69
400A/4	2	474	345	238	115	307	221	255	71	79	210	70	65	180	32.5	162	65	32	35	43	5	24.5	208	39.5	7	69
630A/3	3	470	345	300	150	348	268	235	85	85	250	100	76	250	38.5	162	80	50	50	50	7	45.5	260	44.5	9	72
630A/4	3	550	425	300	150	348	268	315	85	85	250	100	76	250	38.5	162	80	50	50	50	7	34.5	260	44.5	9	72



DGLR400~630A side face direct operation

Type Specification	Size of fuse	External Dimension and Installation Dimension																							
		A	A1	B	B1	E	H	H1	H2	J	J2	J1	K	M	N	P	R	S	S1	T	V	U	W	φL	Y
400A/3	2	500	285	238	115	221	190	70	79	210	70	65	180	32.5	119	65	32	30	43	5	40.5	208	39.5	7	69
400A/4	2	560	345	238	115	221	255	70	79	210	70	65	180	32.5	119	65	32	30	43	5	24.5	208	39.5	7	69
630A/3	3	550	345	300	150	268	235	100	85	250	100	76	250	38.5	119	80	50	50	50	7	45.5	260	44.5	9	72
630A/4	3	630	425	300	150	268	315	100	85	250	100	76	250	38.5	119	80	50	50	50	7	34.5	260	44.5	9	72

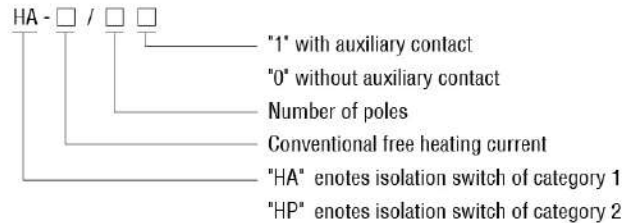
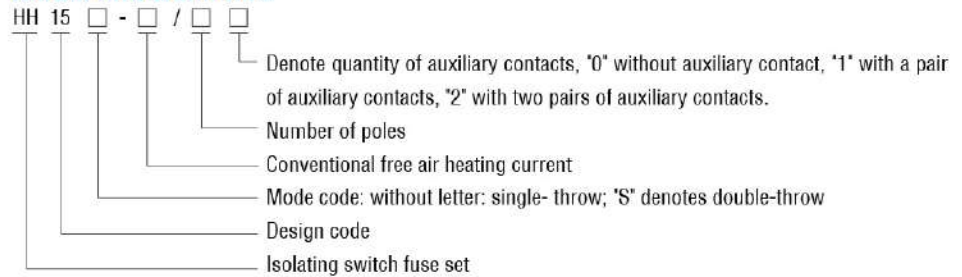
HH15 Series Isolation Switch Fuse Set HA and HP Series Isolation Switch



Application

HA series isolation switch fuse set, HA and HP series isolation switches (hereinafter referred to as switch) are mainly used in the circuit of AC 50Hz(or 60Hz) and rated working voltage up to 660V. In the power supply and distribution circuit of large short-circuit current and low power factor, it can serve for master switch for manual infrequent operation, especially for mounting in the drawer type low-voltage complete equipment.

Model and Definition



The contact of HA switch is connected with fuse body, work category AC-23, and conventional closed heating current 63-800A. Total 7 basic specifications are available. Two sets of breakpoints on HA Isolation Switch are connected with copper conductor in series (without fuse body), main work category AC-23, and conventional free air heating current 150A-1000A. 6 basic specifications are available.

Two sets of breakpoints on HA isolating switch are connected with copper conductor in parallel. The circuit becomes a set of contacts, main work category AC-21, and conventional free air heating current 250A-3150A. Total 7 basic specifications are available.

Normal Working Conditions

- The ambient air temperature shall not exceed +40℃. The average value shall not exceed +35℃ within 24 hours. The lowest-limit of ambient air temperature is -5℃.
- The height above sea level for installing the switch shall not exceed 2000m.
- When at max. temperature of +40℃, relative air humidity shall not exceed 50%. Higher relative humidity such as 90% at the temperature of 20℃, is allowed under lower temperature. Special measure shall be taken against occasional condensation caused by temp. change.
- The pollution grade of environment for installing switch is 3.
- The switch shall be vertically installed in the place without vibration or shock.



HH15 Series Isolation Switch Fuse Set HA and HP Series Isolation Switch

Structural Features

■ Fully closed structure

HH15 series switch full closed structure ensures stable performance and improvement of work reliability. Both moving and static contacts, which cannot be seen exteriorly, are mounted in a pressed housing made of new type electric engineering plastics. There are connecting terminals, fuse body socket (HH15) or visible copper conductor HA of series connection and HP of parallel connection, operation axle sleeve, and auxiliary contact socket, etc. mounted outside the housing. Dismantle or assembly is not allowed without permission for strict technique control for assembly.

■ Unique contact system

HH15 series switch owns a unique contact system of rolling insert type, composed of two sets of double-breakpoint each phase. In structure, rollers of different length and diameters and quantity will compose different contact systems and two sets of contacts in series or parallel connection will meet the circuit of different electrical amperage and work categories.

Applying this contact system, the current will pass through four rollers and greatly reduce the electric repulsion when the contact closes. (theoretically, current is 1/4, repulsion is 1/6). When the switch is in the state of closing and meanwhile large short-circuit current is passing through (under the limit condition, the current may be larger than 100KA), the roller will clamp the static contact tighter as per the reversal parallel law.

During the movement, the touching between roller and static contacts belongs to rolling and slide friction so as to effectively avoid the occurrence of fusion welding.

■ Independent of manpower operation

The operation mechanism of HA series switch is designed with energy-storage spring. In spite of switch-on/off is operated with force manually, the moving speed of moving contact is independent of operational force and operation speed, ensuring stable switching performance.

■ Advanced actuator

The actuator is a complete set of device transmitting the operation torque to the operation mechanism axle sleeve of switch, and the handle is the part for operator to hold.

① The actuator is composed of handle mounted on the panel and the driving shaft joggled with handle. The extension shaft and the couple can only be used when the driving shaft is not long enough. In fact, it shall take consideration of inbuilt installation of switch in the complete equipment and never mind of inaptitude between the depth of switchgear and handle mounted on the panel.

② The handle is mounted on the panel

③ The handle mechanism shall be in conformity with the requirement that the door cannot open when the switch is closed, the switch shall be in breaking position if you want to open the door, the switch cannot be closed if the door is unclosed.

④ The handle has a padlock pulling buckle. Lock the handle with the padlock after being pulled out. The handle cannot turn while in breaking or closing position to avoid error operation of non-operator.

⑤ The driving couple shall keep 5mm free distance to the surface in parallel with the handle mounting plane so as to avoid affecting normal work. Therefore, it is easy in installation and adjustment, and that will not cause any difficulty in operation due to imprecise adjustment.

■ Independent auxiliary contact

The switch may be attached with one or two auxiliary contact boxes. Each auxiliary contact box has pair of NO and a pair of NC contacts. Auxiliary contact box is insert type assembly. It is unnecessary to use screw and is easy to dismantle and assemble.

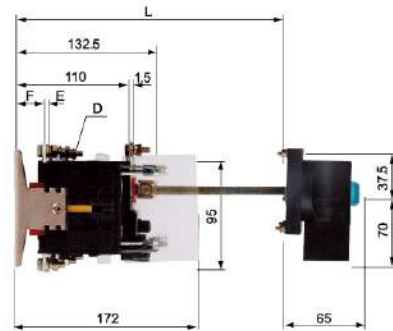
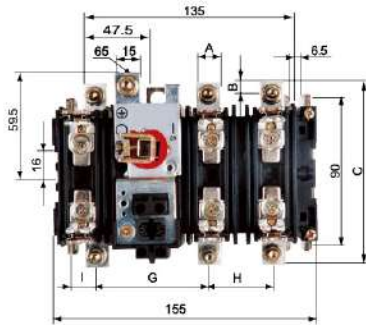
The breaking and making of both auxiliary contact and switch are synchronous. Working principle of HH15 series switch: switching-in while rotating the operation handle clockwise; switching-off while anticlockwise

Technical Data Conform to: IEC947-3、GB14048.3

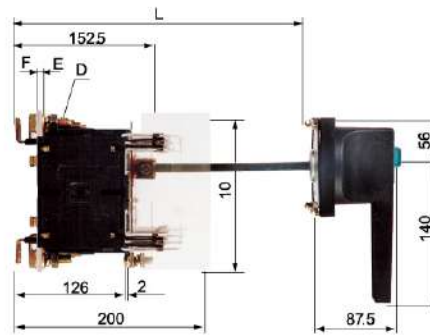
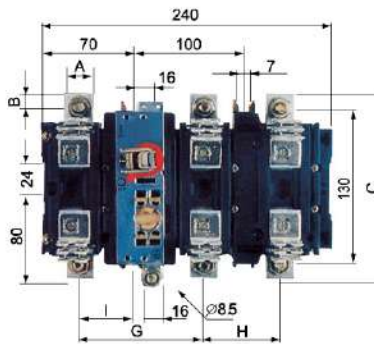
Spec HH15	63	125	160	250	400	630	
Number of main poles	3						
Rated insulation voltage(V)	Ue=380, Uj=660; Ue=660, Uj=1000						
Rated working voltage(V)	AC 380.660						
Conventional free air heating current(A)	63	125	160	250	400	630	
Rated working current/power(IC)	380V AC-23B(A)	63	125	160	250	400	630
	660V AC-23B(A)	63	100	160	250	315	425
Rated blowout short-circuit current 380V(kA)	50/100						
Rated blowout short-circuit current 660V(kA)	50						
Mechanical life(cycle)	1700	1400	1400	1400	800	800	
Electric life(cycle)	300	200	200	200	200	200	
Max.fuse body current(A)380V/660V	63/63	125/100	160/160	250/250	400/315	630/425	
Knife contact fuse tube Model	00			1-2		3	
(N.m)Operation moment	7.5		16			30	
Auxiliary contact 380VAC-11	5						

HH15 Series Isolation Switch Fuse Set

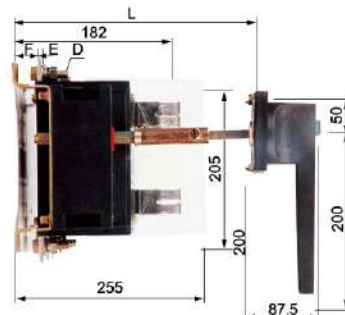
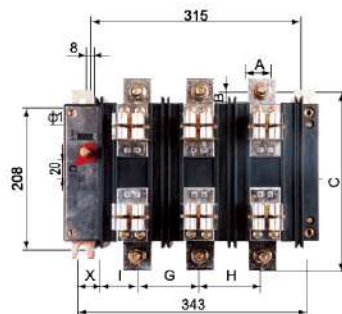
Outline and Installation Size



Model	A	B	C	D	E	F	G	H	I	L	L1	L2	L3
HH15-63	12	6	100	M5	2	39.5	72	38.5	9	199-250	250-301	301-385	180-199
HH15-125	15	7.5	116	M6	3	38.5	70	40.5	10	199-250	250-301	301-385	180-199



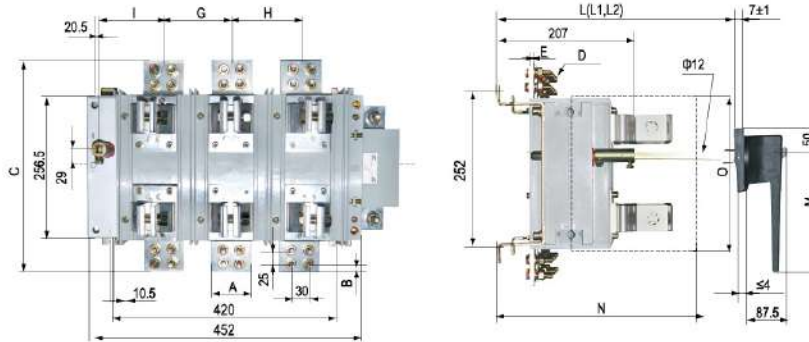
Model	A	B	C	D	E	F	G	H	I	L	L1	L2	O
HH15-160	20	10	146	M8	4	44	107	65	46	226-284	284-342	342-400	120
HH15-250	25	12.5	160	M10	4	40	107	65	43.5	226-284	284-342	342-400	160
HH15-400	25	12.5	160	M10	6	38	107	65	43.5	226-284	284-342	342-400	160



Model	A	B	C	D	E	F	G	H	I	L	L1	L2	L3
HH15-630	40	20	270	M12	6	33	87	87	60	300-355	295-330	330-400	400-500
HH15-800	40	20	270	M12	6	33	87	87	60	300-355	295-330	330-400	400-500

HH15 Series Isolation Switch Fuse Set

Outline and Installation Size



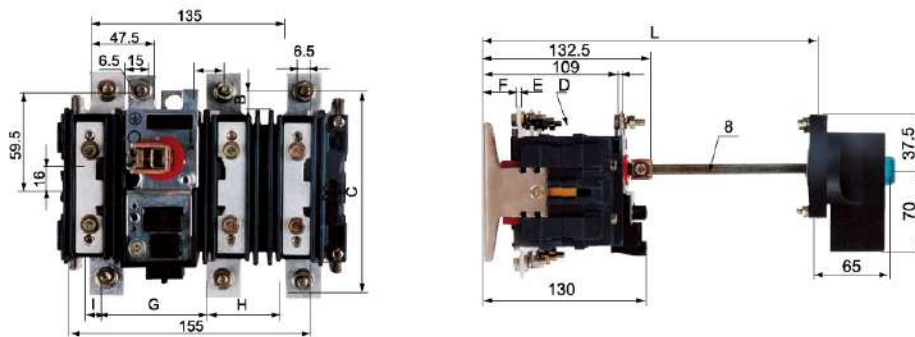
Model	A	B	C	D	E	F	G	H	I	L	L1	L2	M	N	O
HH15-1000	70	17	370	M10	8	50	120	80	8	395-430	495-530	560-595	200	330	253
HH15-1250	70	17	370	M10	8	50	120	80	8	395-430	495-530	560-595	200	330	253

HA Series Isolation Switch

Main Technical Data

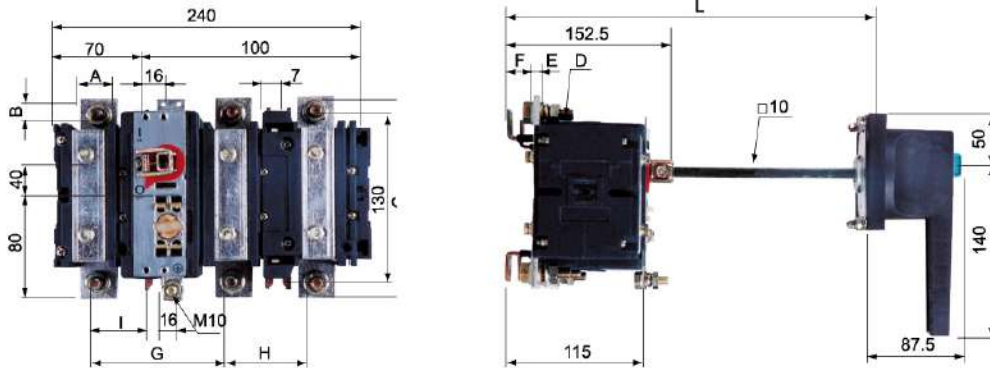
Technical Data Conform to: IEC947-3, GB14048.3

Model	125	160	200	400	630	1000
Number of main poles	3					
Rated insulation voltage(V)	Ue=380, Uj=660; Ue=660, Uj=1000					
Rated working voltage(V)	AC 380, 660					
Conventional closed heating current(A)	125	160	200	400	630	1000
Rated working current/power(A)	380V AC-21B(A)	125	160	200	400	630
	660V AC-22B(A)	125	160	160	315	425
	660V AC-21B(A)	125	160	200	400	630
Rated short-circuit making capability(kA)	20	20	20	50	50	50
Rated short-time withstand current(kA)	4	4	4	15	15	15
Mechanical life(cycle)	1400	1400	1400	800	800	500
Electric life(cycle)	200	200	200	200	200	100
(N.m)Operation moment				75	16	30
Auxiliary contact 380VAC-11						5

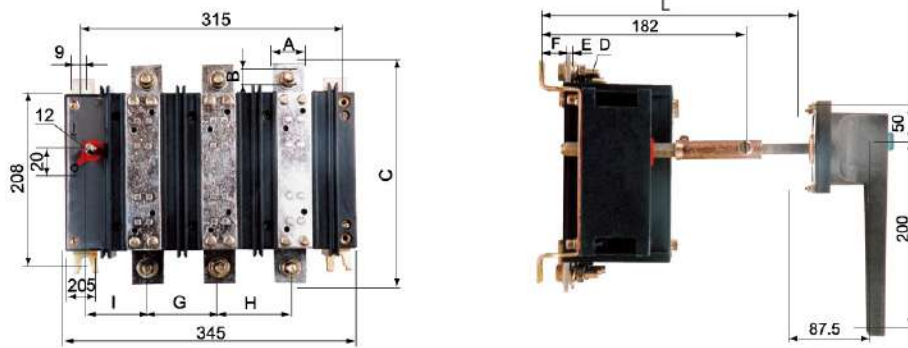


Model	A	B	C	D	E	F	G	H	I	L	L1	L2	L3
HA-125	15	7.5	116	M6	3	38.5	70	40.5	10	199-250	250-301	301-385	148-199
HA-160	20	10	127	M8	3	38.5	65	45.5	13	199-250	250-301	301-385	148-199
HA-200	20	10	127	M8	3	38.5	65	45.5	13	199-250	250-301	301-385	148-199

HA Series Isolation Switch



Model	A	B	C	D	E	F	G	H	I	L	L1	L2	L3
HA-400	25	12.5	160	M10	4	40	107	65	43.5	226-284	284-342	342-400	188-238
HA-630	30	15	180	M10	6	38	107	65	43.5	226-284	284-342	342-400	188-238



Model	A	B	C	D	E	F	G	H	I	L	L1	L2	L3	L4
HA-1000	40	20	270	M12	6	33	87	87	60	300-355	295-330	330-400	400-500	225-260

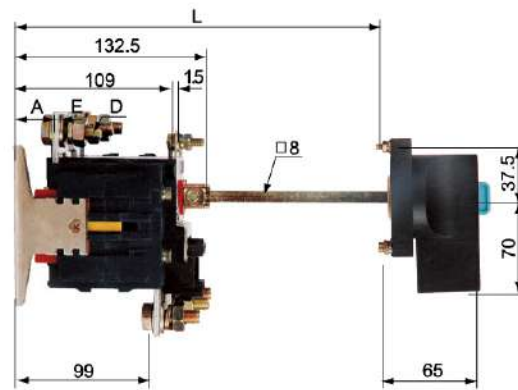
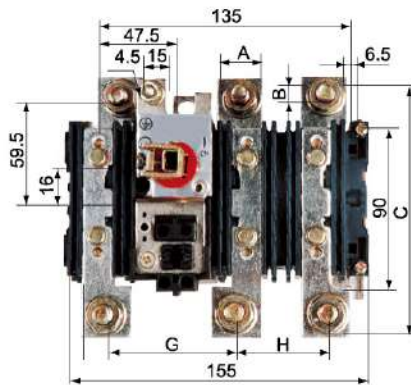
HP Series Isolation Switch

Main Technical Data

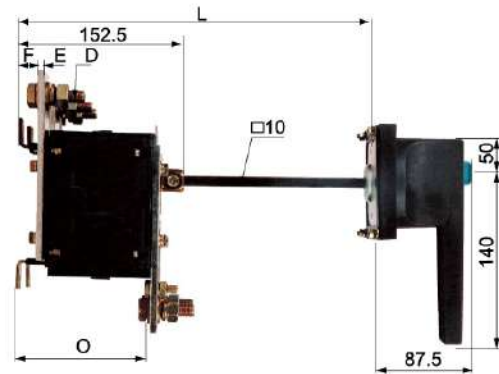
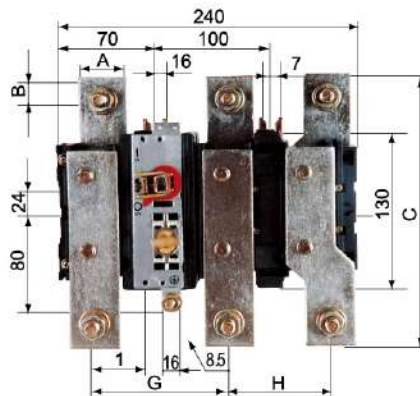
Technical Data Conform to: IEC947-3, GB14048.3

Model	250	630	1000	1250	1600	2500	3150	
Number of main poles	3							
Rated insulation voltage(V)	Ue=380, Uj=660; Ue=660, Uj=1000							
Rated working voltage(V)	AC 380, 660							
Conventional closed heating current(A)	250	630	1000	1250	1600	2500	3150	
Rated working current/power(A)	380V AC-21B	250	630	1000	1250	1600	2500	3150
	660V AC-22B	250	630	630	630	800		
	660V AC-23b	250	630	1000	1250	1470	2500	2500
Rated short-circuit making capability(kA)	39	60	60	85	85	130	130	
Rated short-time withstand current(kA)	8	32	32	50	50	80	80	
Mechanical life(cycle)	1400	800	500	500	500	500	500	
Electric life(cycle)	200	200	100	100	100	100	100	
(N.m)Operation moment	7.5	16	16	30	30	70	70	
Auxiliary contact 380VAC-11	5		5			5		

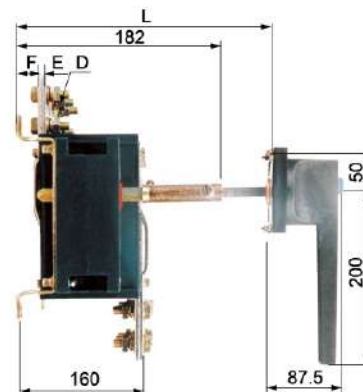
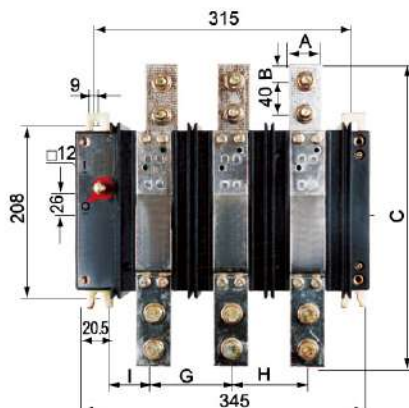
HP Series Isolation Switch



Model	A	B	C	D	E	F	G	H	I	L	L1	L2	L3
HP-250	25	125	143	M10	4	37.5	66	44.5	12.5	199-250	250-301	301-385	148-199

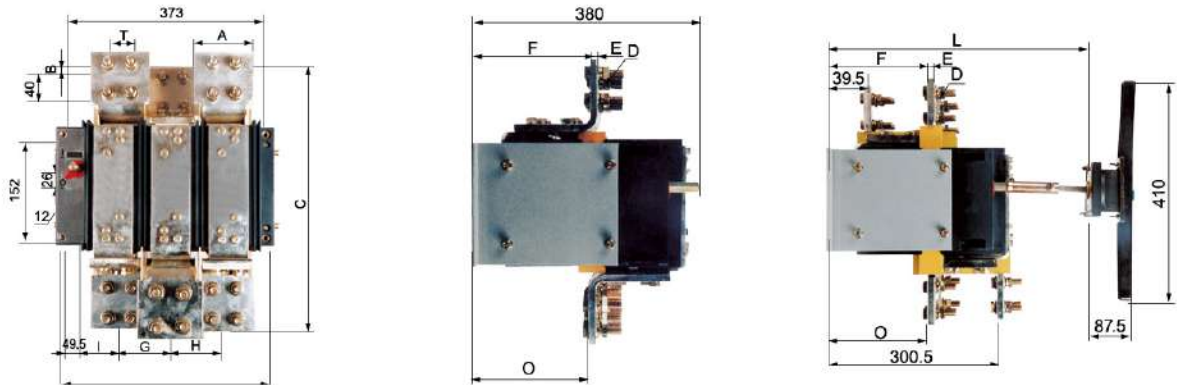


Model	A	B	C	D	E	F	G	H	I	L	L1	L2	L3	M	O
HP-630	30	15	170	M10	5	39	107	65	43.5	226-284	284-342	342-400	180-238	140	119
HP-1000	40	20	218	M12	6	32	117	80	51	226-284	284-342	342-400	180-238	140	125



Model	A	B	C	D	E	F	G	H	I	L	L1	L2	L3	L4
HP-1250	40	20	350	2 × M12	10	29	87	87	60	300-355	295-330	330-400	400-500	225-260
HP-1600	50	20	350	2 × M12	10	29	87	87	60	300-355	295-330	330-400	400-500	225-260

HP Series Isolation Switch

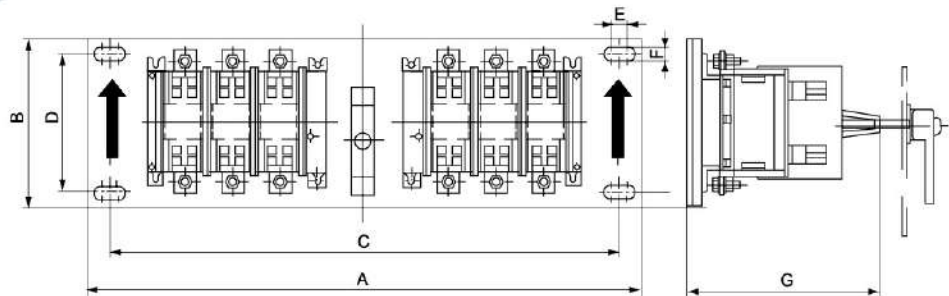


Model	A	B	C	D	E	F	G	H	I	L	L1	L2	L3	L4	M	O	T
HP-2500	80	20	446	M12	12.5	171.5	100	100	47	480-510	455-490	490-560	560-600	385-420	400	170	40
HP-3150	100	20	462	M12	14	172.5	87	87	60	480-510	455-490	490-560	560-600	385-420	400	167.5	50

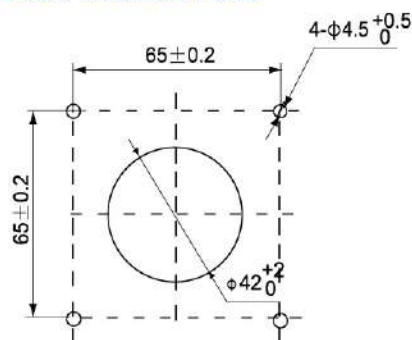
HH15S(QSS) , HAS , HPS Series Chang-Over Isolation Switch



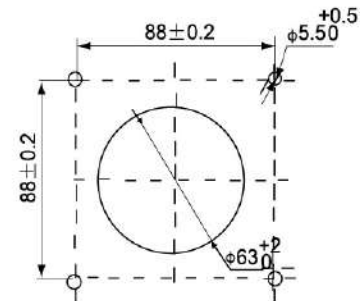
Model	A	B	C	D	E	F	G
HH15S-63, 125; HAS-125, 160, 200; HPS-250	426	170	383	120	19	9	200
HH15S-160, 250, 400; HAS-400, 630; HPS-630, 1000	630	190	595	120	19	9	265
HH15S-630; HAS-1000; HPS-1250, 1600	910	264	850	180	19	9	300
HPS-2500, 3150	910	264	850	180	19	9	300



Board Installation Size



HH15-63 125A HA-125 160 200A HP-250



HH15-160 250 400 630 800 1000 1250A HA-400 630A
HP-630 1000 1250 1600 2500 3150A
HH15S, HAS, HPS series

HR5 Series Fuse Type Isolation Switch



Application

HR5 series fuse type isolation switch (hereinafter referred to as switch) is applicable for the circuit of AC 50 Hz (or 60Hz) rated voltage up to 690V, and conventional free air heating current up to 630A. It can be mainly used in the distribution circuit of high short-circuit current and the motor circuit, serving for power switch, isolating switch and emergency switch as well as circuit protector. Generally, it cannot be directly used for switching of single motor and shall be used indoors.

Model and Definition

HR 5 - □ / □ □

"0": without fuse signal device (attached with fuse with blowout indicator)

"1": with blowout signal device (attached with fuse with blowout striker)

Number of poles, "2": denotes 2-pole and "3": denotes 3-pole

Rated working current

Design code

Fuse type isolation switch number

Normal Working Conditions

■ Ambient air temperature

A. The upper limit of ambient air temperature in the installation place shall not exceed +40 and the lower limit not less than -5°C.

B. The average temp. value shall not exceed +35°C within 24 hours.

Note: Referring to the working condition that lower limit of ambient air temp. is -10°C or -25°C, the user shall indicate that in the order.

■ The height above sea level for installing the switch shall not exceed 2000m.

Note: If installation place for switch is above 2000m, the user shall indicate that in the order.

■ When at max. temperature of +40°C, relative humidity of air shall not exceed 50%. Higher relative humidity such as 90% at the temperature of 20°C is allowed under lower temperature. Special measure shall be taken against occasional condensation caused by temp. change.

■ The pollution grade: grade 3 for surrounding environment of switch.

■ The switch shall be vertically installed in the place without vibration or shock.

Structural Features

The switch is composed of two parts: steel base and plastic cover board. 3 pairs of clamp contacts and arc-extinguishing chamber are mounted on the base with insulating spacer. The fuse body is mounted on the cover board, directly serving for moving contact blade. The cover board can turn around the hinge pin and open in sector shape so that the fuse body can be completely pulled out from the socket. The upper cover can be removed from the base easily so as to facilitate the installation of switch, and safely change the fuse body. The arc-extinguishing chamber of switch is made of plastic through pressing. For its simple structure, it can be easily dismantled or assembled. Each arc-extinguishing chamber is composed of inner and exterior compartments and mounted with arc metal corner. That can increase arc-extinguishing ability, eliminate the danger of flashover, and prolong the service life of contact. The switch is also designed with a spring energy-storage mechanism for quick switching, enabling it to quickly and safely actuate under extremely heavy condition. In addition, the switch is mounted with LX19K travel switch. If attached with a fuse body with firing pin, when the fuse body of some phase is blown, the firing pin will spring out and actuate the travel switch via a transmission shaft. Thus the signal of loss of phase is sent out to alarm for taking measurement.

Main Technical Data

■ Rated insulation voltage: 690V

■ Rated working voltage: 380V, 690V

■ Rated working current: 380V, 100A, 200A, 400A, 630A, 660A, 100A, 200A, 315A, 425A

■ Refer to table 1 for making and breaking capability of switch and rated blowout short-circuit current.

■ Mechanical service life for switch is 1700 cycles (100A), 1400cycles (200A), and 800cycles (400A and 630A) separately.

■ Electric service life of switch is 300 cycles (100A) and 200cycles (200A, 400A, and 630A) separately. Refer to table 2 for making and breaking conditions.

■ The rated working voltage of auxiliary switch (LX19K) is AC 380V, conventional free air heating current 5A, and rated control capacity 300VA.

■ Refer to table 3 for matching relation between switch and fuse body.

HR5 Series Fuse Type Isolation Switch

Table1

Rated working voltage (V)	Rated working current (A)	Using category	Rated making and breaking capability						Rated fuse short-circuit current(KA)		
			Making			Breaking			Operation cycle index	Current effective value	COS φ
			I/Ie	U/Ue	COS φ	I/Ie	U/Ue	COS φ			
380	100	AC-23B	10	1.05	0.45	8	1.05	0.45	5order	100	0.2
	200				0.35			0.35			
	400										
	630										
660	100	AC-22B	3	1.05	0.65	3	1.05	0.65	5order	50	0.25
	200										
	315										
	425										

Table 2

Rated working voltage(V)	Using category	Making			Breaking		
		I/Ie	U/Ue	COS/φ	Ic/Ie	U/Ue	COS/φ
380	AC-23B	1	1	0.65	1	1	0.65
660	AC-22B	1	1	0.8	1	1	0.8

Application Between Switch and Fuse

Table 3

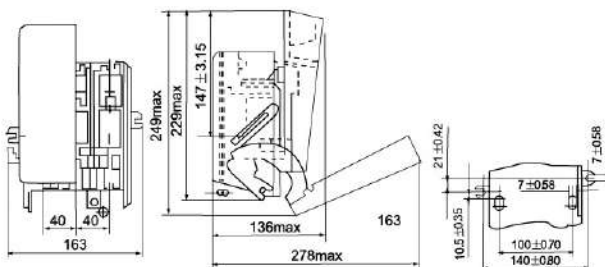
Conventional free air heating current(A)	Fuse size	Rated current of fuse body (A)
100	00	4, 6, 10, 16, 20, 25, 32, 35
		40, 50, 63, 80, 100, 125, 160
200	1	80, 100, 125, 160, 200, 224, 250
400	2	125, 160, 200, 224, 250, 300, 315, 355, 400
630	3	425, 500, 630

Note :When the switch is used in the motor circuit, the rated current of fuse is allowed to be larger than the rated working current of switch.

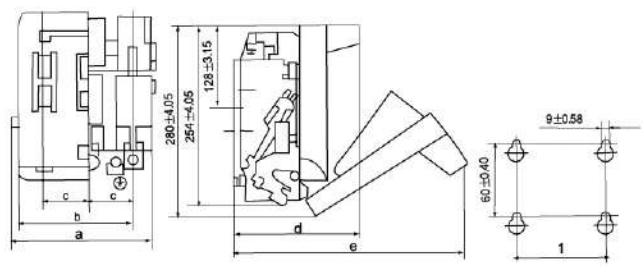
Outline and Installation Size

Table 4

Mode	Conventional free air heating current (A)	Size (mm)				
		a	b	d	e	f(Installation holes)
HR5-100/31	100	163 ± 3.00	80 ± 1.10	136 ± 3.00	278 ± 4.00	100 ± 0.80
HR5-100/30	100	163 ± 3.00	80 ± 1.10	136 ± 3.00	278 ± 4.00	100 ± 0.80
HR5-200/31	200	220 ± 3.60	203 ± 1.45	193 ± 3.60	342 ± 4.45	130 ± 0.80
HR5-200/30	200	220 ± 3.60	203 ± 1.45	193 ± 3.60	342 ± 4.45	130 ± 0.80
HR5-400/31	400	220 ± 3.60	203 ± 1.45	209 ± 3.60	358 ± 4.45	130 ± 0.80
HR5-400/30	400	220 ± 3.60	203 ± 1.45	209 ± 3.60	358 ± 4.45	130 ± 0.80
HR5-630/31	630	220 ± 4.05	227 ± 1.60	224 ± 3.60	378 ± 4.45	200 ± 0.925
HR5-630/30	630	220 ± 4.05	227 ± 1.60	224 ± 3.60	378 ± 4.45	200 ± 0.925



HR5-100/30, 31



HR5-200-400-630/30, 31

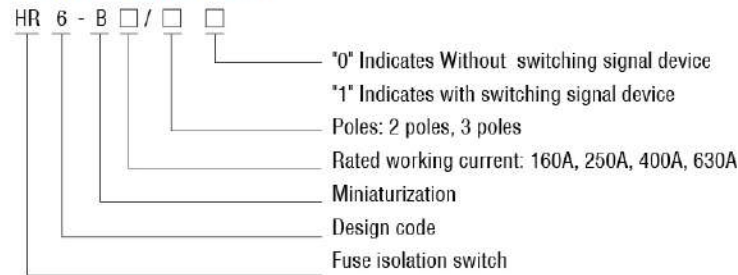
HR6B Series Fuse Type Isolation Switch



Application

HR6B series fuse type isolation switch are mainly used in rated voltage AC 380V and 660V (45-62Hz), conventional free air heating current to 630A power distribution and motor circuit, which possess high short circuit, used as power supply switch, isolation switch, emergency switch and for circuit protection. Usually not used as open/close every single motor.

Model and Definition



Structural Features

The switch is composed of base, cover and interrupter, made from arc resistance plastic, all plastics structure. The static contact is install on the base, the interrupter is easy to remove and mount, each interrupter has inside & outside room, adopts multi-chip metal are extinguishing grating, increased the ability, also improved the lifetime for contact.

The fuse-link of NT mode is installed inside the cover, the cover can rotate as a fan along with the holder, a big isolating distance to satisfy the demand of isolator switch, the cover can be removed from the base easily, so it's easy to install and change the fuse-link. 2 mounting holes on the base, to satisfy the demand of all kinds of switchgear and panels. Two sides of the switch, can install assistant contact, and dispatch the pilot switch close and open state signal.

Main Technical Data

The adapting relation between switch & fuse-link

Conventional free air heating current of switch	Fuse body size	Rated working voltage (V)	Rated current of fuse body(A)
160	NT00	380	4, 6, 10, 16, 20, 25, 32, 35, 40, 50, 63, 80, 100, 125, 160
		660	4, 6, 10, 16, 20, 25, 32, 35, 40, 50, 63, 80, 100
250	NT1	380	80, 100, 125, 160, 200, 224, 250
		660	80, 100, 125, 160, 200
400	NT2	380	125, 160, 200, 224, 250, 300, 315, 355, 400
		660	125, 160, 200, 224, 250, 300, 315
630	NT3	380	315, 355, 400, 425, 500, 630
		660	315, 355, 400, 425

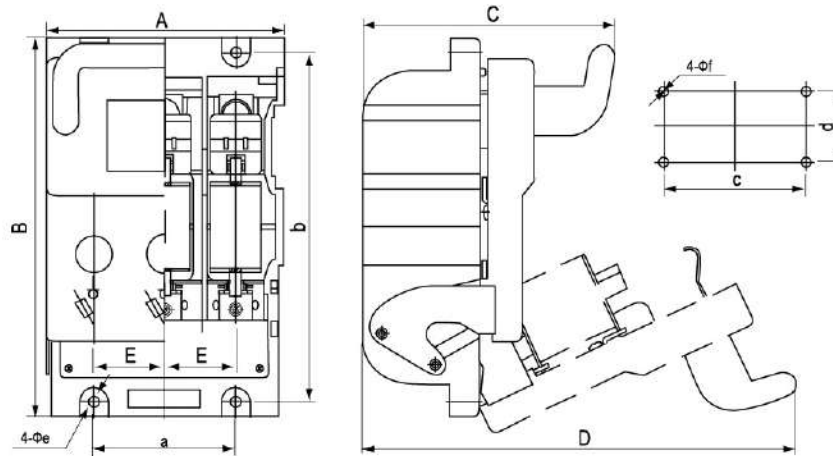
HR6B Series Fuse Type Isolation Switch

Main Technical Data

Model		HR6B-160	HR6B-250	HR6B-400	HR6B-630	
Rated isolating voltage(V)		660	660	660	660	
Conventional free air heating current(A)		160	250	400	630	
Rated working current(A)	380V	160	250	400	630	
	660V	100	200	315	425	
Rated connecting & breaking ability(A) (1.05Uetime)	380V, COS $\phi = 0.35$ AC23B	Connect	1280	2000	3200	5040
		Break	960	1500	2400	3780
	660V, COS $\phi = 0.65$ AC22B	Connect	480	750	1200	1890
		Break	480	750	1200	1890
Rated fuse short circuit current kA		50	50	50	50	
Max expectating peak current kA		100	100	100	100	
Pollution Class		3	3	3	3	
Mounting classes		III	III	III	III	

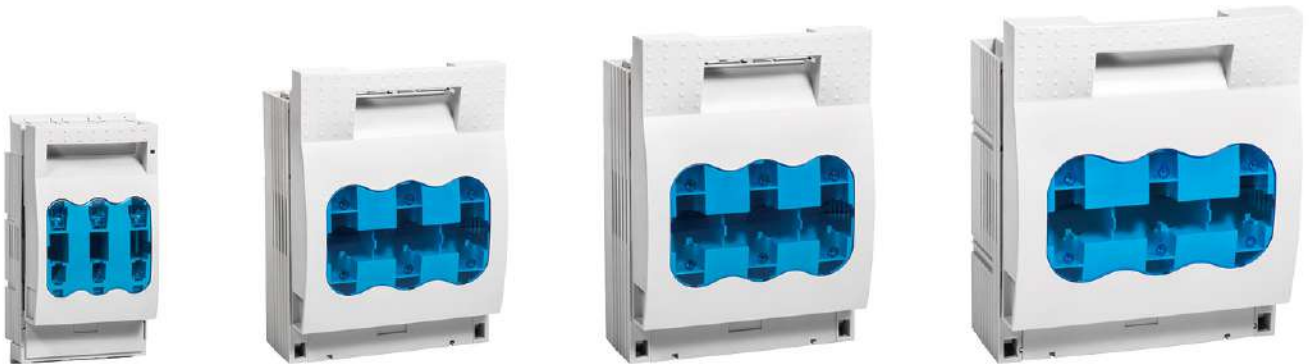
Assistant switch rated voltage AC 380V.

Outline and Installation Size



Type	Dimensions (mm)					Installation dimensions(mm)					
	A	B	C	D	E	a	b	c	d	ϕe	ϕf
HR6B-160/30	134	215	142	245	40	80	198	80	40	$\phi 6.5$	$\phi 6.5$
HR6B-250/30	184	280	162	320	60	120	260	120	60	$\phi 8.5$	$\phi 8.5$
HR6B-400/30	244	300	194	360	80	160	280	160	60	$\phi 8.5$	$\phi 8.5$
HR6B-630/30	244	300	194	360	80	160	280	160	60	$\phi 8.5$	$\phi 8.5$

HR17 Fuse-Switch-disconnector

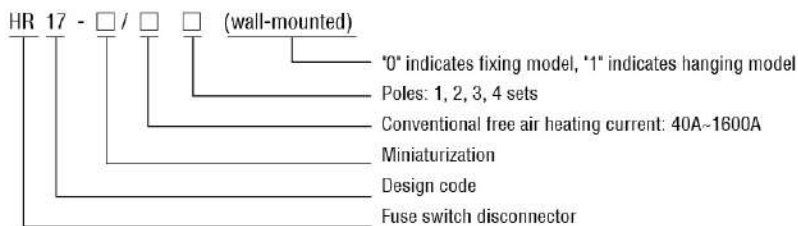


Application

HR17 fuse-switch-disconnect can operate with load, rated current from 40A-1600A, divided into 1, 2, 3, 4 set. Not only hanging on the bus, but also install on a fixed plate; and provide a up-down input & output structure, knife taplead in arc extinguishing device, switch cover has a closed test hold aperiodically, with signal switch and inspection switch inside. Fuse monitor is optional, also can be used as a knife switch.

This model is elegant in design, novelty and simple, apply to IEC60947-3, GB14048.3 standard.

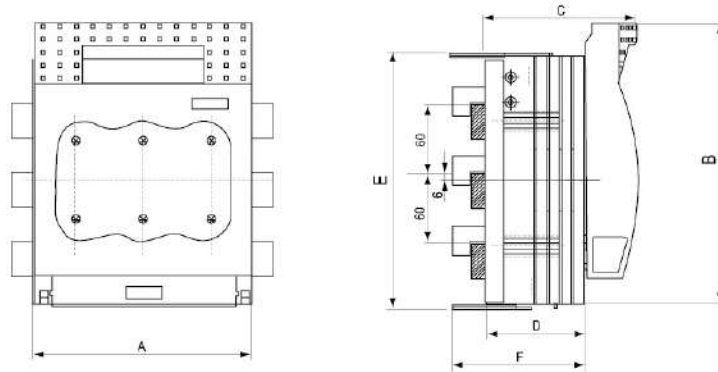
Model and Definition



Main Technical Data

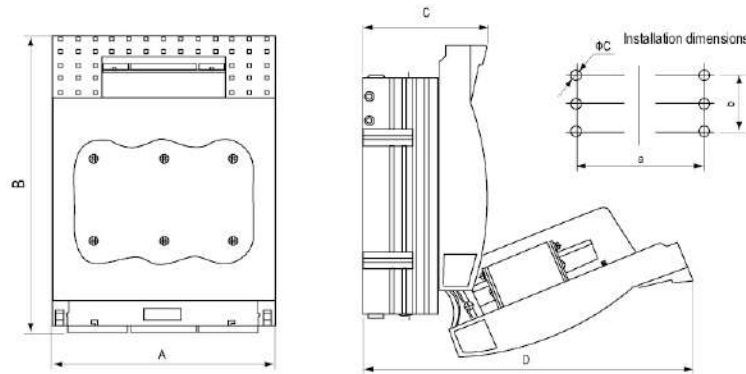
Model	HR17-40	HR17-63	HR17-160	HR17-250	HR17-400	HR17-630
Rated isolating voltage U_i	690V	690V	690V	690V	690V	690V
Rated working voltage U_e	400V	400V	400V	400V	400V	400V
Rated working current I_e	40A	63A	160A	250A	400A	630A
Rated limiting short circuit current I_{nc}	400A	630A	1600A	2500A	4000A	6300A
Rated short circuit connection ability I_{cm}	50kA	50kA	50kA	50kA	50kA	50kA
Usage category	AC-23B	AC-23B	AC-23B	AC-23B	AC-23B	AC-23B
Fuse-link	RT14-40	RT14-63	NT00-160	NT1-250	NT2-400	NT3-630

HR17-160~630A Hanging model outline



Model	A	B	C	D	E	F
HR17-160/32	106	200	97	60	200	87
HR17-250/32	185	247	128	88	221	110
HR17-400/32	210	290	145	97	268	125
HR17-630/32	256	300	160	112	285	139

HR17-40~630A Fixing model Outline and Installation Size



Model		Dimensions (mm)				Installation dimensions(mm)		
		A	B	C	D	a	b	Φc
HR17-40	2 Poles	55	116	76	150	25	-	Φ6
	3 Poles	76	116	76	150	42	-	Φ6
HR17-63	2 Poles	74	116	76	150	32	-	Φ6
	3 Poles	105	116	76	150	62	-	Φ6
HR17-160	2 Poles	76	200	83	205	43	25	Φ7
	3 Poles	106	200	83	205	66	25	Φ7
	4 Poles	138	200	83	205	100	25	Φ7
HR17-250	2 Poles	128	247	110	295	72	50	Φ11
	3 Poles	185	247	110	295	114	50	Φ11
	4 Poles	242	247	110	295	172	50	Φ11
HR17-400	2 Poles	145	290	125	340	80	50	Φ11
	3 Poles	210	290	125	340	130	50	Φ11
	4 Poles	276	290	125	340	195	50	Φ11
HR17-630	2 Poles	175	300	145	360	90	50	Φ11
	3 Poles	256	300	145	360	162	50	Φ11
	4 Poles	340	300	145	360	243	50	Φ11

Terminal accessories

Terminal shape	Terminal model	Torque N*n	Cable square mm ²	Available switch model
M8 bolt (with terminal lug)		12-15	16-70	HR17-160
M10 bolt (with wiring lug)		30-35	25-150	HR17-250-400
M12 bolt (with terminal lug)		35-40	25-240	HR17-630
	XYDZ001	3	16-70 s(r) 16-70 s(s) 16-70 I,+AE	HR17-160
	XYDZ002	6	75-150 s(r) 75-150 s(s) 75-150 I,+AE	HR17-250
	XYDZ003	8	50-240 s(r) 50-240 s(s) 50-240 I,+AE	HR17-400-630
	XYDZ004	8	50-300 s(r) 50-300 s(s) 50-300 I,+AE	HR17-630

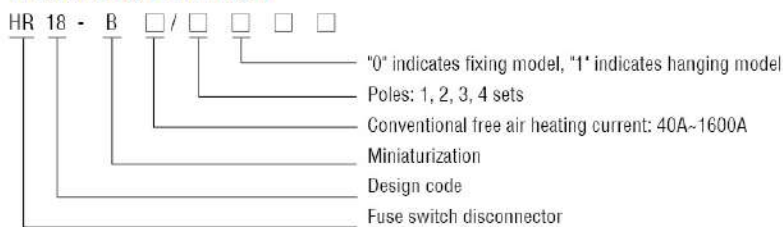
HR18 Fuse-Switch-disconnector



Application

HR18 series fuse switch disconnectors are beautiful in appearance, novel and simple, simple in structure and easy to operate. Its rated insulation voltage is 1000V, rated working voltage to 690V, rated working current to 800A, rated frequency is 50Hz, and high short circuit current distribution. In the motor circuit, it is used as a power switch, isolation switch, emergency switch, and for circuit protection, but it is generally not used for directly opening and closing a single motor. The switch complies with IEC60947-3, GB/T14048.3 standards.

Model and Definition



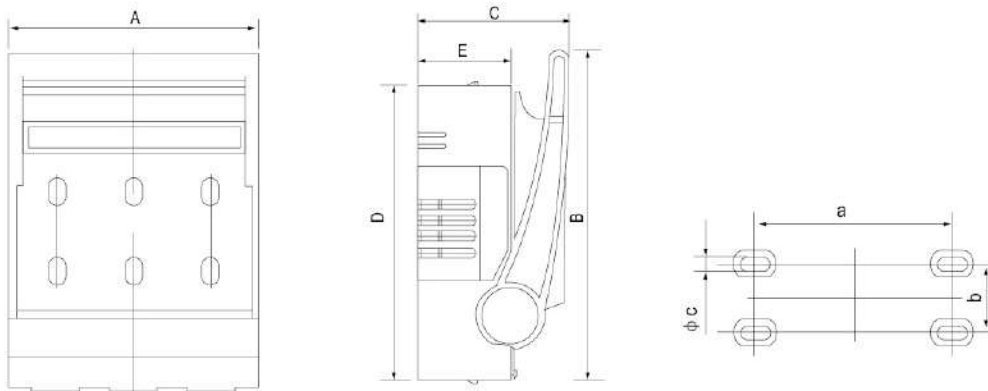
Normal working condition

- The ambient air temperature is not higher than +40° C and not lower than -5° C, and the average temperature within 24 hours is not more than +35° C.
- The altitude of the work place does not exceed 2000m.
- The ambient air temperature is +40° C and the relative humidity is not higher than 50%, and the monthly average maximum relative humidity of the wettest month is not higher than 90%. At the same time, the average minimum temperature of the month is not higher than +25° C.
- The pollution level of the surrounding environment is level 3.
- The installation category is category III.
- The switch is installed in a place free from vibration and shock.
- Switch protection class IP30

Matching relationship between switch and fuse link

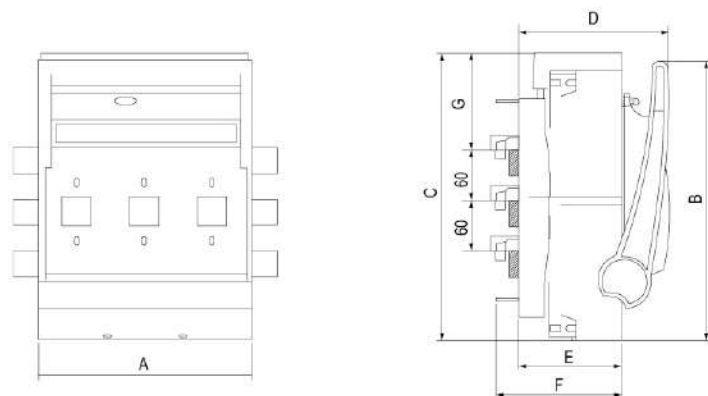
Conventional heating current Ith	Equipped with fuse link code	Rated current of fuse link (A)
160A	NT00	10, 16, 25, 32, 40, 50, 63, 80, 100, 125, 160
250A	NT1	80, 100, 125, 160, 200, 225, 250
400A	NT2	125, 160, 200, 225, 250, 300, 315, 355, 400
630A	NT3	315, 355, 400, 425, 500, 630

HR18 fixed



Switch model	Dimensions (mm)					Installation size		
	A	B	C	D	E	a	b	φc
HR18-160	105	184	88	160	43	73	25	Ø7
HR18-250	184	268	116	230	66	115	50	Ø11
HR18-400	210	285	129	256	81	140	50	Ø11
HR18-630	250	328	138	315	86	150	50	Ø9

HR18 wall-mounted


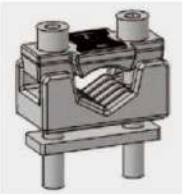



Switch model	Dimensions (mm)						Installation size
	A	B	C	D	E	F	G
HR18-160/31	105	184	168	101	60	84	16
HR18-250/31	184	268	234	131	86	111	45
HR18-400/31	210	287	273	165	117	142	68
HR18-630/31	250	329	338	177	122	147	112

The main technical parameters

			HR18-160		HR18-250		HR18-400		HR18-630		HR18-800	
Electrical parameters	Rated working voltage	Ue	V	AC400	AC690	AC400	AC690	AC400	AC690	AC400	AC690	AC400
	Rated working current	Ie	A	160	100	250	200	400	315	630	425	800
	Conventional heating current	Ith	A	160	100	250	200	400	315	630	425	80
	Rated limit short circuit current		KA	100	50	100	50	100	50	100	50	50
	Rated insulation voltage	Ui	V	1000		1000		1000		1000		1000
	Rated impulse withstand voltage	Uimp	KV	12		12		12		12		12
	Use level			AC-23B	AC-21B	AC-23B	AC-21B	AC-23B	AC-21B	AC-23B	AC-21B	AC-23B
	Rated frequency		Hz	50/60		50/60		50/60		50/60		50/60
	Pole number			3		3		3		3		3
	Electrical life times		Times	200		200		200		200		100
Fuse	Size(RT16/NT/NH) IEC80629-2 GB 13539.2			00	1		2		3		3	
	Working current	In	A	160	125	250	200	400	315	630	425	800
	Power consumption	P	W	12	12	18	32	28	45	40	50	-
mechanism	Mechanical life		Times	1400		1400		800	1400	800		800
	Busbar spacing		mm	60		60		60		60		60
Protection	positive	open		IP20		IP20		IP20		IP20		IP20
		off		IP30		IP30		IP30		IP30		IP30
other	Switch fault, closing signal feedback (micro switch)			Can be added		Can be added		Can be added		Can be added		Can be added
Working condition	Ambient temperature		°C	-5~+55								
	Way of working			continuously working								
	operating			handle								
	Installation form			vertical								
	height		m	≤2000								
	Pollution level			3								
	Overpressure level			III								

Terminal block accessories

Terminal shape	Terminal model	Torque N·m	Cable square mm ²	Available switch models
M8 bolt (with wiring nose)		12-15	16-70	HR18-160
M10 bolt (with wiring nose)		30-35	25-150	HR18-250-400
M12 bolt (with wiring nose)		35-40	25-240	HR18-630
	XYDZ001	3	16-70 s(t) 16-70 s(s) 16-70 t, f+AE	HR18-160
	XYDZ002	6	75-150 s(t) 75-150 s(s) 75-150 t, f+AE	HR18-250
	XYDZ004	8	50-240 s(t) 50-240 s(s) 50-240 t, f+AE	HR18-630

HHT10 Series Strip fuse-switch-disconnector



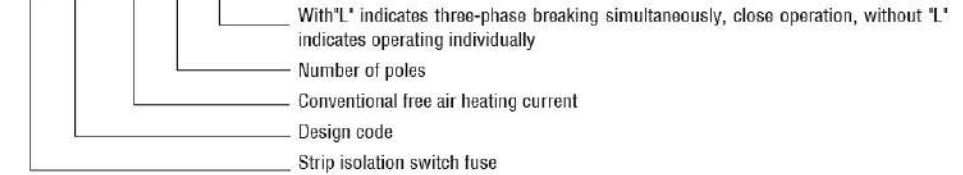
Application

HHT10 series strip fuse-switch-disconnector can operate with load, up-down inlet-outlet line exchange conveniently. Rated current from 160A-630A, pioneer in integration of current transformer and strip switch, can install fuse, monitor. Strip switch can not only breaking individually, also three-phase breaking at the same time. This set of switch can save a mass of space and popular in import box substation.

This model apply to GB14018-3-2002 IEC947-3(1999) standard.

Model and Definition

HHT 10 - □ / □ □

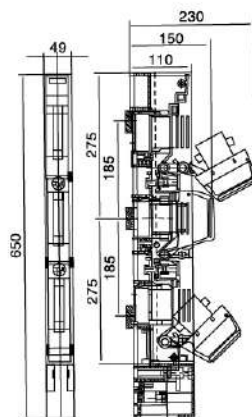


Main Technical Data

	Model	A	B	C	D	E	F
160A Three-phase breaking sperately	HHT10-160	650	49	150	230	185	100
Three-phase breaking simultaneously	HHT10-160	590	49	197.5	322	185	100
Three-phase breaking sperately	HHT10-250,400,630A	784	99	195	300	185	100
Three-phase breaking simultaneously	HHT10-250,400,630A	765	99	195	457	185	100

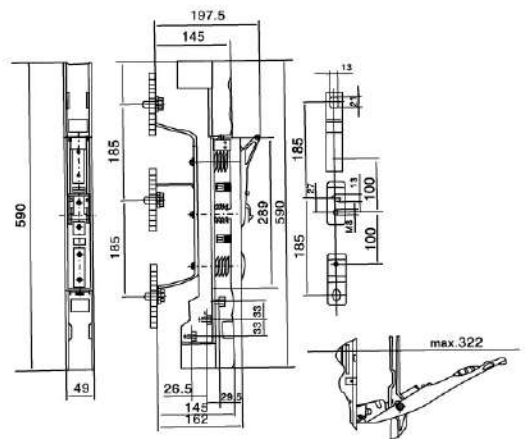
HHT10-160/3

Three-phase breaking sperately



HHT10-160L

Three-phase breaking simultaneously



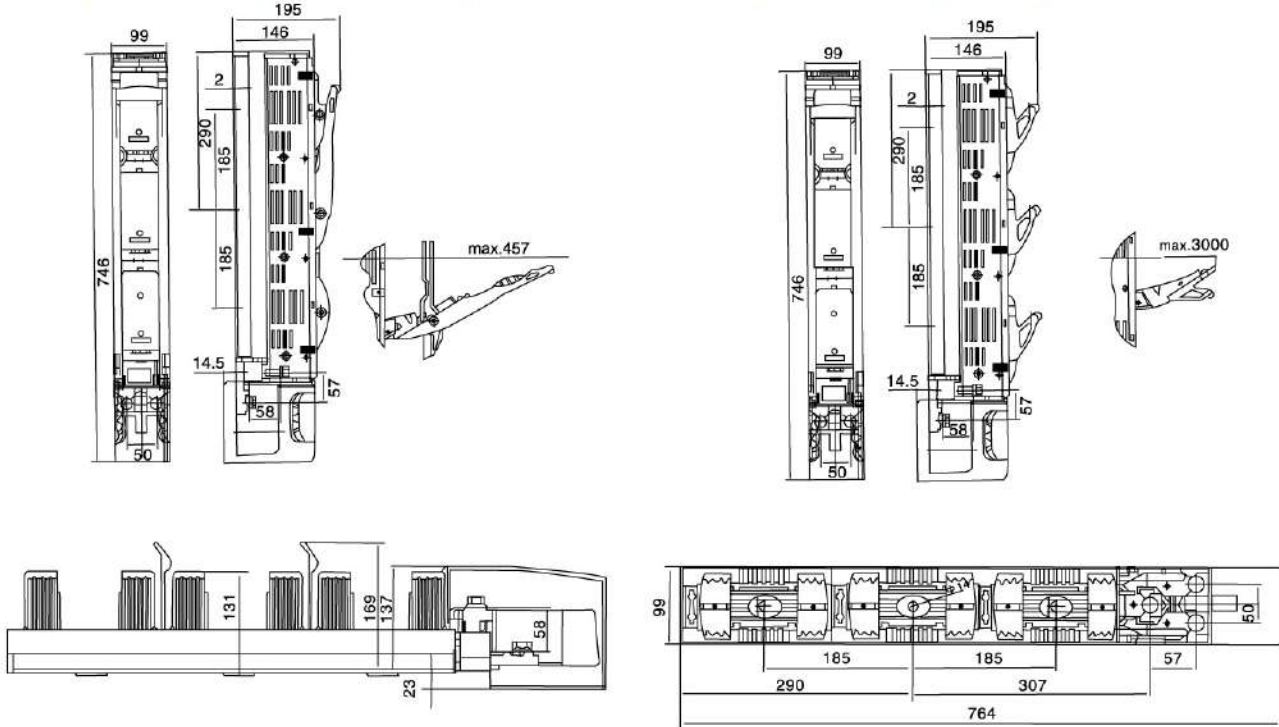
HHT10 Series Strip fuse-switch-disconnector

HHT10-250, 400, 630/3L

Three-phase breaking simultaneously







HHT10-250, 400, 630/3L

Three-phase breaking sperately



Conventional thermal current		160	250	400	630
Rated insulation voltage(V)		160	250	400	630
Rated current(A)	380V AC20	160	250	400	630
	380V AC21	160	250	400	630
	380V AC22	160	250	400	630
	660V AC20	100	200	315	425
	660V AC21	100	160	316	315
	660V AC22	00	1	2	3
Size					
Fuse	Rated current of fuse 380V (Breaking capacity)	20, 25, 32, 35, 40, 50, 63, 80, 100, 125, 160 (≥100kA)	80, 100, 125, 160, 200, 224, 250 (≥100kA)	125, 160, 200, 224, 250, 300, 315, 355, 400 (≥100kA)	315, 355, 400, 425, 500, 630 (≥100kA)
	HHT10-250,4Rated current of fuse 660V (Breaking capacity)	20, 25, 32, 35, 40, 50, 63, 80, 100 (≥50kA)	80, 100, 125, 160, 200 (≥50kA)	123, 160, 200, 224, 250, 300, 315 (≥50kA)	315, 355, 400, 425, (≥50kA)

Low-Voltage Fuses

General technical data						
Name	NH/NT	NGT/RSO	Cylindrical	D0	Screw	Switch
Standards	IEC 269 EN 60 269	IEC 269 EN 60 269	IEC 269 NF C 60 200 NF C 63 210 NF C 63 211 NBN C 63 269- 2-EN-2-1 CEI 32-4	IEC 269 EN 60 269	IEC 269 IEC 241 CEE 16 EN 60 269	DIN 0638 EN 60947-3
Dimensions	DIN VDE 43 620 DIN VDE 43 623	DIN 43 620 DIN 43 623	IEC 269-2-1	DIN VDE 49 522 DIN VDE 49 523 DIN VDE 49 524 DIN VDE 49 525	DIN VDE 49 510 DIN VDE 49 511 DIN VDE 49 514 DIN VDE 49 515 DIN VDE 49 516	DIN 43880
Operating classes	gL/gG, aM	aR, gR	gG, aM	gL/gG	gL/gG, gR slow, quick response	
Rated voltage (V)	AC 500/600 DC 250/400	AC 600/690/1000	AC 400/500	AC 400/415 DC 250	AC 500/600/750 DC 500/600/750	AC 400/415 DC 48/110
Rated current range (A)	2-1250 	16-900 	0.5-100 	2-100 	2-100 	2-63 
Rated breaking capacity (kV)	AC 120(00:50) DC 50/100	>AC 50	AC 100	AC 50 DC 8	AC 50(E16:40) DC 8(E16:1.6)	AC 50 DC 8
Mounting position	as desired but preferably vertical	as desired but preferably vertical	as desired but preferably vertical	as desired but preferably vertical	as desired but preferably vertical	as desired but preferably vertical
Resistance to climate rel.humidity	up to -30to +50 at 95% rel.humidity	up to -30to +50 at 95% rel.humidity	up to -30to +50 at 95% rel.humidity	up to 45 at 95% rel.humidity	up to 45 at 95% rel.humidity	up to 45 at 95% rel.humidity
Non-interchangeability	Not necessary	Not necessary	Not necessary	by sleeve adapters	by sleeve adapters or ring adapters	by sleeve adapters (only for MINIZED D02)
Application	cable protection motor protection	motor protection	cable protection motor protection	cable protection	cable protection/ semiconductor protection	cable protection





NT(NH) RT16 Series Fuse



NT Fuses


Features

- According to IEC60269, DIN43620, GB13539 and CE Safety, ROHS certificate.
- Rated voltage: AC500V/690V or DC440V
- Rated current: 2A-1250A
- Exception: Size 00 with DC 250V
- Operating class:
 - ①gL/gG for cable and conductor protection
 - ②aM for motor protection
 - ③aR for semiconductor protection
- Finely graduated selectivity
- Rated breaking capacity: AC 120kA (Size 00: AC 50 kA)

Product photo	Size	In A	Order No.			Fig	Weight(g)
			Operating class (gL/gG)	Operating class (aM)	Operating class (aR)		
	NT00C (RT16-00C)	2	002GNT00C	002MNT00C	002RNT00C	Fig.1.1	145
		4	004GNT00C	004MNT00C	004RNT00C		
		6	006GNT00C	006MNT00C	006RNT00C		
		10	010GNT00C	010MNT00C	010RNT00C		
		16	016GNT00C	016MNT00C	016RNT00C		
		20	020GNT00C	020MNT00C	020RNT00C		
		25	025GNT00C	025MNT00C	025RNT00C		
		32	032GNT00C	032MNT00C	032RNT00C		
		35	035GNT00C	035MNT00C	035RNT00C		
		40	040GNT00C	040MNT00C	040RNT00C		
		50	050GNT00C	050MNT00C	050RNT00C		
		63	063GNT00C	063MNT00C	063RNT00C		
		80	080GNT00C	080MNT00C	080RNT00C		
100	100GNT00C	100MNT00C	100RNT00C				
	NT00 (RT16-00)	2	002GNT00	002MNT00	002RNT00	Fig.1.1	180
		4	004GNT00	004MNT00	004RNT00		
		6	006GNT00	006MNT00	006RNT00		
		10	010GNT00	010MNT00	010RNT00		
		16	016GNT00	016MNT00	016RNT00		
		20	020GNT00	020MNT00	020RNT00		
		25	025GNT00	025MNT00	025RNT00		
		32	032GNT00	032MNT00	032RNT00		
		40	040GNT00	040MNT00	040RNT00		
		50	050GNT00	050MNT00	050RNT00		
		63	063GNT00	063MNT00	063RNT00		
		80	080GNT00	080MNT00	080RNT00		
		100	100GNT00	100MNT00	100RNT00		
125	125GNT00	125MNT00	125RNT00				
160	160GNT00	160MNT00	160RNT00				
	NT0	4	004GNT0	004MNT0	004RNT0	Fig.1.2	240
		6	006GNT0	006MNT0	006RNT0		
		10	010GNT0	010MNT0	010RNT0		
		16	016GNT0	016MNT0	016RNT0		
		20	020GNT0	020MNT0	020RNT0		
		25	025GNT0	025MNT0	025RNT0		
		32	032GNT0	032MNT0	032RNT0		
		40	040GNT0	040MNT0	040RNT0		
		50	050GNT0	050MNT0	050RNT0		
		63	063GNT0	063MNT0	063RNT0		
		80	080GNT0	080MNT0	080RNT0		
		100	100GNT0	100MNT0	100RNT0		
		125	125GNT0	125MNT0	125RNT0		
160	160GNT0	160MNT0	160RNT0				
	NT1	63	063GNT1	063MNT1	063RNT1	Fig.1.2	450
		80	080GNT1	080MNT1	080RNT1		
		100	100GNT1	100MNT1	100RNT1		
		125	125GNT1	125MNT1	125RNT1		
		160	160GNT1	160MNT1	160RNT1		
		200	200GNT1	200MNT1	200RNT1		
		224	224GNT1	224MNT1	224RNT1		
		250	250GNT1	250MNT1	250RNT1		

For dimension drawings, see page 57. For characteristic curves, see page 59


NT Fuses

Product photo	Size	In A	Order No.			Fig	Weight(g)
			Operating class (gL/gG)	Operating class (aM)	Operating class (aR)		
	NT2	80	080GNT2	080MNT2	080RNT2	Fig.1.1	145
		100	100GNT2	100MNT2	100RNT2		
		125	125GNT2	125MNT2	125RNT2		
		160	160GNT2	160MNT2	160RNT2		
		200	200GNT2	200MNT2	200RNT2		
		224	224GNT2	224MNT2	224RNT2		
		250	250GNT2	250MNT2	250RNT2		
		300	300GNT2	300MNT2	300RNT2		
		315	315GNT2	315MNT2	315RNT2		
		355	355GNT2	355MNT2	355RNT2		
		400	400GNT2	400MNT2	400RNT2		
		NT3	300	300GNT3	300MNT3		
315	315GNT3		315MNT3	315RNT3			
355	355GNT3		355MNT3	355RNT3			
400	400GNT3		400MNT3	400RNT3			
425	425GNT3		425MNT3	425RNT3			
500	500GNT3		500MNT3	500RNT3			
NT4	630	630GNT4	630MNT4	630RNT4	Fig.1.2	450	
	800	800GNT4	800MNT4	800RNT4			
	1000	1000GNT4	1000MNT4	1000RNT4			
	1250	1250GNT4	1250MNT4	1250RNT4			

For dimension drawings, see page 57. For characteristic curves, see page 59

For NT and NH fuse links

- According to IEC60269, DIN 43620, GB13539 and CE Safety, ROHS certificate.
- Rated voltage: AC500V/AC690V or for semiconductor-protecting-insert-part AC1000V

Product photo	Size	Order No.	Fig	Weight(g)	
	Rated current 160A				
	NT00 Sist101	single-pole for double busbar terminal connection	NT00FB	Fig.1.4	225
		triple-pole for double busbar terminal connection	NT00FB3P	Fig.1.8	516
	NT0 Sist160	single-pole for double busbar terminal connection	NT0FB	Fig.1.5	410
	Rated current 250A				
	NT1 Sist201	single-pole for double busbar terminal connection 1)300	NT1FB	Fig.1.6	740
	Rated current 400A				
	NT2 Sist401	single-pole for double busbar terminal connection 1)2 × 40 × 5	NT2FB	Fig.1.6	1110
	Rated current 630A				
	NT3 Sist601	single-pole with screw-type terminal connection 2 × 50 × 8	NT3FB	Fig.1.6	1310
Rated current 1250A					
NT4 Sist1001	single-pole with screw-type terminal connection 2 × 50 × 8	NT4FB	Fig.1.6	2520	

For dimension drawings, see page 57.

NH Fuse Link


Features

- According to IEC60269, DIN 43620, GB13539 and CE Safety, ROHS certificate
- Rated voltage: AC500V/AC690V or DC440V
- Rated current: 2A-1250A
- Exception: Size 00 with DC 250V
- Operating class:
 - ①gL/gG for cable and conductor protection
 - ②aM for motor protection
 - ③aR for semiconductor protection
- Finely graduated selectivity
- Rated breaking capacity: AC 120kA (Size 00: AC 50 kA)

Product photo	Size	In A	Order No.			Fig	Weight(g)
			Operating class (gL/gG)	Operating class (aM)	Operating class (aR)		
	NH00C	2	002GNH00C	002MNH00C	002RNH00C	Fig.1.1	150
		4	004GNH00C	004MNH00C	004RNH00C		
		6	006GNH00C	006MNH00C	006RNH00C		
		10	010GNH00C	010MNH00C	010RNH00C		
		16	016GNH00C	016MNH00C	016RNH00C		
		20	020GNH00C	020MNH00C	020RNH00C		
		25	025GNH00C	025MNH00C	025RNH00C		
		32	032GNH00C	032MNH00C	032RNH00C		
		35	035GNH00C	035MNH00C	035RNH00C		
		40	040GNH00C	040MNH00C	040RNH00C		
		50	050GNH00C	050MNH00C	050RNH00C		
		63	063GNH00C	063MNH00C	063RNH00C		
		80	080GNH00C	080MNH00C	080RNH00C		
100	100GNH00C	100MNH00C	100RNH00C				
	NH00	2	002GNH00	002MNH00	002RNH00	Fig.1.1	185
		4	004GNH00	004MNH00	004RNH00		
		6	006GNH00	006MNH00	006RNH00		
		10	010GNH00	010MNH00	010RNH00		
		16	016GNH00	016MNH00	016RNH00		
		20	020GNH00	020MNH00	020RNH00		
		25	025GNH00	025MNH00	025RNH00		
		32	032GNH00	032MNH00	032RNH00		
		40	040GNH00	040MNH00	040RNH00		
		50	050GNH00	050MNH00	050RNH00		
		63	063GNH00	063MNH00	063RNH00		
		80	080GNH00	080MNH00	080RNH00		
		100	100GNH00	100MNH00	100RNH00		
125	125GNH00	125MNH00	125RNH00				
160	160GNH00	160MNH00	160RNH00				
	NH0	4	004GNH0	004MNH0	004RNH0	Fig.1.2	255
		6	006GNH0	006MNH0	006RNH0		
		10	010GNH0	010MNH0	010RNH0		
		16	016GNH0	016MNH0	016RNH0		
		20	020GNH0	020MNH0	020RNH0		
		25	025GNH0	025MNH0	025RNH0		
		32	032GNH0	032MNH0	032RNH0		
		40	040GNH0	040MNH0	040RNH0		
		50	050GNH0	050MNH0	050RNH0		
		63	063GNH0	063MNH0	063RNH0		
		80	080GNH0	080MNH0	080RNH0		
		100	100GNH0	100MNH0	100RNH0		
		125	125GNH0	125MNH0	125RNH0		
160	160GNH0	160MNH0	160RNH0				
	NH1	63	063GNH1	063NH1	063RNH1	Fig.1.2	475
		80	080GNH1	080NH1	080RNH1		
		100	100GNH1	100NH1	100RNH1		
		125	125GNH1	125NH1	125RNH1		
		160	160GNH1	160NH1	160RNH1		
		200	200GNH1	200NH1	200RNH1		
		224	224GNH1	224NH1	224RNH1		
		250	250GNH1	250NH1	250RNH1		

For dimension drawings, see page 57. For characteristic curves, see page 59


NH Fuse Link

Product photo	Size	In A	Order No.			Fig	Weight(g)
			Operating class (gL/gG)	Operating class (aM)	Operating class (aR)		
	NH2	80	080GNH2	080MNH2	080RNH2	Fig.1.2	700
		100	100GNH2	100MNH2	100RNH2		
		125	125GNH2	125MNH2	125RNH2		
		160	160GNH2	160MNH2	160RNH2		
		200	200GNH2	200MNH2	200RNH2		
		224	224GNH2	224MNH2	224RNH2		
	NH3	250	250GNH2	250MNH2	250RNH2	Fig.1.2	935
		300	300GNH2	300MNH2	300RNH2		
		315	315GNH2	315MNH2	315RNH2		
		355	355GNH2	355MNH2	355RNH2		
		400	400GNH2	400MNH2	400RNH2		
		300	300GNH3	300MNH3	300RNH3		
315	315GNH3	315MNH3	315RNH3				
355	355GNH3	355MNH3	355RNH3				
400	400GNH3	400MNH3	400RNH3				
425	425GNH3	425MNH3	425RNH3				
500	500GNH3	500MNH3	500RNH3				
NH4	630	630GNH3	630MNH3	630RNH3	Fig.1.3	2260	
	630	630GNH4	630MNH4	630RNH4			
	800	800GNH4	800MNH4	800RNH4			
		1000	1000GNH4	1000MNH4	1000RNH4		
		1250	1250GNH4	1250MNH4	1250RNH4		

For dimension drawings, see page 57. For characteristic curves, see page 59

For NT and NH fuse links

- According to IEC60269, DIN 43620, GB13539 and CE Safety, ROHS certificate.
- Rated voltage: AC500V/AC690V or for semiconductor-protecting-insert-part AC1000V

Product photo	Size	Order No.	Fig	Weight(g)	
	Rated current 160A				
	NH00 Sist101	single-pole for double busbar terminal connection	NH00FB	Fig.1.7	170
	Rated current 250A				
	NH1 Sist201	single-pole for double busbar terminal connection	NH1FB	Fig.1.9	500
	Rated current 400A				
	NH2 Sist401	single-pole for double busbar terminal connection	NH2FB	Fig.1.10	520
	Rated current 630A				
	NH3 Sist601	single-pole for double busbar terminal connection	NH3FB	Fig.1.11	760
	Rated current 1250A				
	NH4 Sist1001	single-pole with screw-type terminal connection 2 × 50 × 8	NH4FB	Fig.1.6	2500
	Rated current 400A				
	NT2 Sist401	three-pole for double busbar terminal connection	NT2FB3P	Fig.1.12	3600
Rated insulation voltage 1000V					
NH Handle	for NH000-NH4	NH-H	Fig.1.13	250	

For dimension drawings, see page 58.

NT(NH) Fuse Link

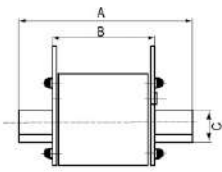


Fig 1.1

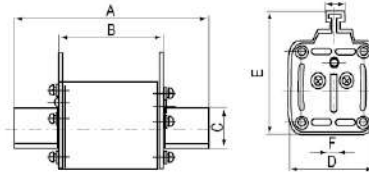


Fig 1.2

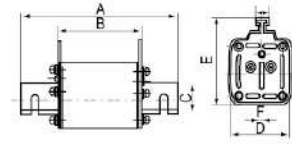


Fig 1.3

No.	Size	Fig	Class rating(A)	Dimensions(mm)					
				A	B	C	D	E	F
001	NT00C(NH00C)	Fig.1.1	2~100	78	49	15	21	52.5	6
002	NT00(NH00)	Fig.1.1	2~160	78	49	15	28.5	55.5	6
003	NT0(NH0)	Fig.1.2	4~160	122	65	15	29	55.5	6
004	NT1(NH1)	Fig.1.2	63~250	135	68	20	48	60	6
005	NT2(NH2)	Fig.1.2	80~400	150	68	26	60	70.3	6
006	NT3(NH3)	Fig.1.2	300~630	150	68	32	67	82	6
007	NT4(NH4)	Fig.1.3	630~1250	200	80	51	85	112	8

NT Fuse Base

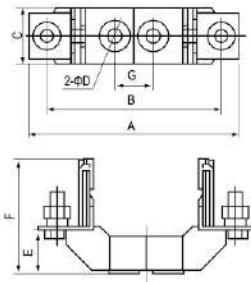


Fig.1.4

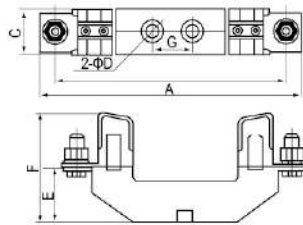


Fig.1.5

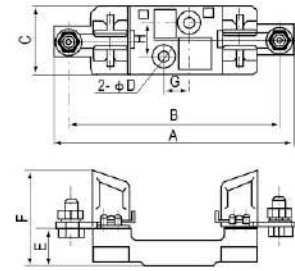


Fig.1.6

No.	Size	Fig	Class rating(A)	Dimensions(mm)							
				A	B	C	ΦD	E	F	G	H
008	NT00(Sist101)	Fig.1.4	160	120	100	30	7	23	60	25	-
009	NT0(Sist160)	Fig.1.5	160	170	150	30	7	35	73	25	-
010	NT1(Sist201)	Fig.1.6	250	200	175	58	9.5	38	82	25	30
011	NT2(Sist401)	Fig.1.6	400	225	200	64	9.5	40	100	25	30
012	NT3(Sist601)	Fig.1.6	630	240	216	64	9.5	40.5	105	25	30
013	NT4(Sist1001)	Fig.1.6	1250	304	260	96	13	44	145	25	45

NH Fuse Base

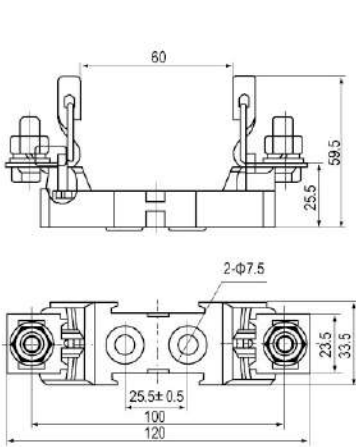


Fig 1.7

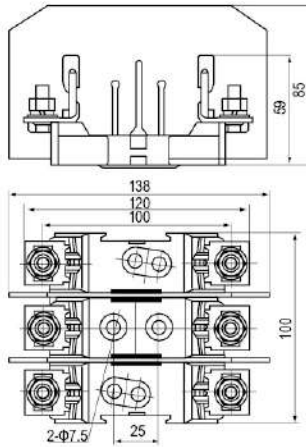


Fig 1.8

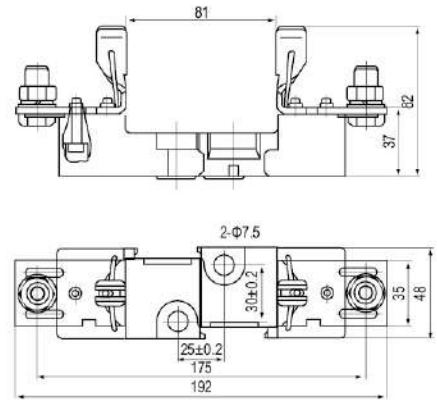


Fig 1.9

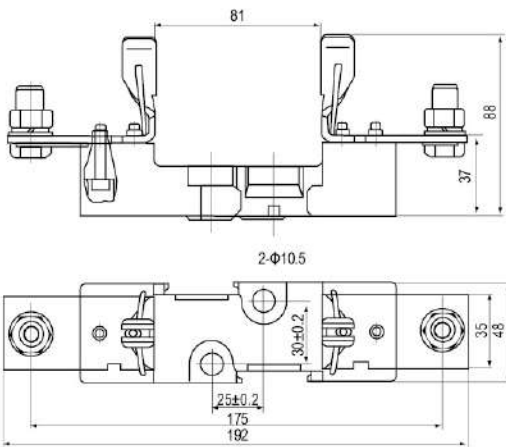


Fig 1.10

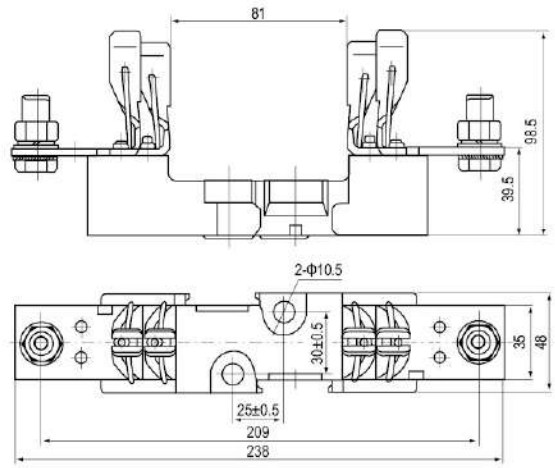


Fig 1.11

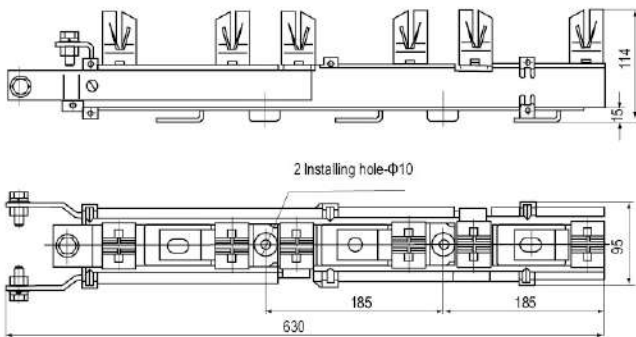


Fig 1.12

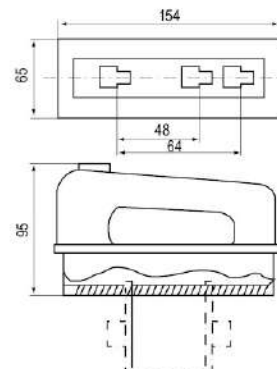
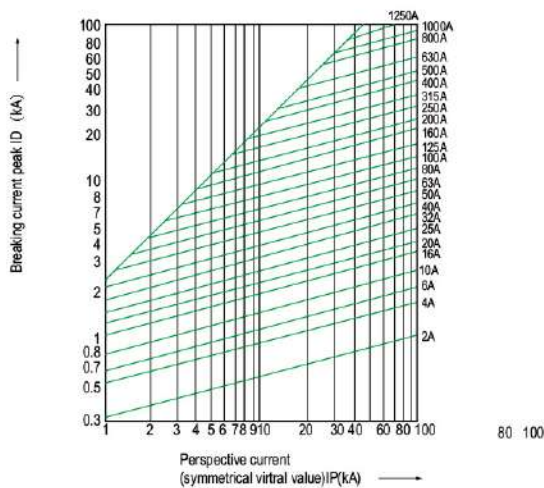
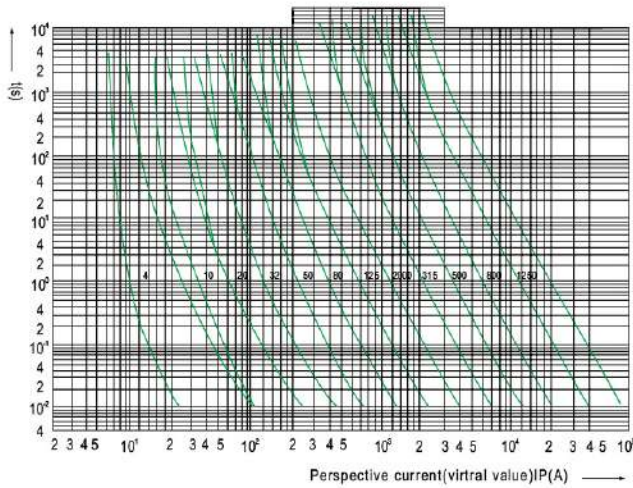
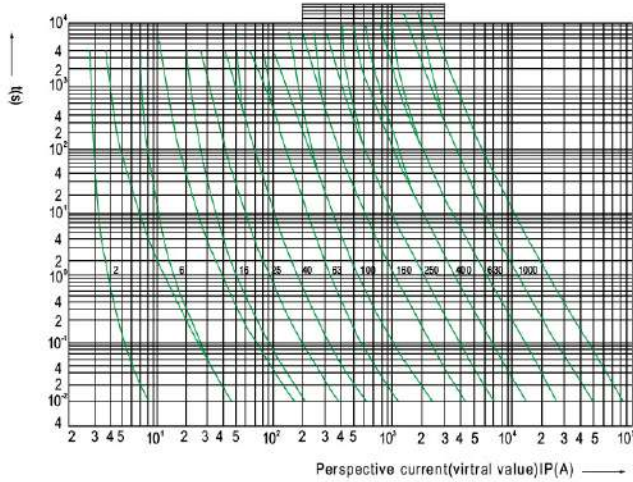


Fig 1.13

NT(NH) Fuses Link

Characteristic Curves



Cylindrical Contact Cap Fuses/Screw Type Fuse



Cylindrical Fuse Links

Features

- According to IEC 269-2, NF C 63 210-63 211-60 200, NBNC 63 269-2 en-2-1 and CEI32-4
- Rated voltage: AC 440V, AC 500V

Operating class:

① gL/gG for cable and conductor protection

② aM for motor protection

③ aR for semiconductor protection

Rated breaking capacity: AC 100kA

Product photo	Size	In A	Order No.			Fig	Weight(g)
			Operating class (gL/gG)	Operating class (aM)	Operating class (aR)		
	8.5 × 31.5	0.5	00G0831	00M0831	00R0831	Fig.4.1	4
		1	01G0831	01M0831	01R0831		
		2	02G0831	02M0831	02R0831		
		4	04G0831	04M0831	04R0831		
		6	06G0831	06M0831	06R0831		
		10	10G0831	10M0831	10R0831		
		16	16G0831	16M0831	16R0831		
		20	20G0831	20M0831	20R0831		
	10 × 38	0.5	00G1038	00M1038	00R1038	Fig.4.1	8
		1	01G1038	01M1038	01R1038		
		2	02G1038	02M1038	02R1038		
		4	04G1038	04M1038	04R1038		
		6	06G1038	06M1038	06R1038		
		8	08G1038	08M1038	08R1038		
		10	10G1038	10M1038	10R1038		
		12	12G1038	12M1038	12R1038		
		16	16G1038	16M1038	16R1038		
		20	20G1038	20M1038	20R1038		
		25	25G1038	25M1038	25R1038		
		32	32G1038	32M1038	32R1038		
	14 × 51	4	04G1451	04M1451	04R1451	Fig.4.1	21
		6	06G1451	06M1451	06R1451		
		8	08G1451	08M1451	08R1451		
		10	10G1451	10M1451	10R1451		
		12	12G1451	12M1451	12R1451		
		16	16G1451	16M1451	16R1451		
		20	20G1451	20M1451	20R1451		
		25	25G1451	25M1451	25R1451		
		32	32G1451	32M1451	32R1451		
		40	40G1451	40M1451	40R1451		
		50	50G1451	50M1451	50R1451		
		63	63G1451	63M1451	63R1451		
			22 × 58	8	08G2258		
10	10G2258			10M2258	10R2258		
12	12G2258			12M2258	12R2258		
16	16G2258			16M2258	16R2258		
20	20G2258			20M2258	20R2258		
25	25G2258			25M2258	25R2258		
32	32G2258			32M2258	32R2258		
40	40G2258			40M2258	40R2258		
50	50G2258			50M2258	50R2258		
63	63G2258			63M2258	63R2258		
80	80G2258			80M2258	80R2258		
100	100G2258			100M2258	100R2258		
125	125G2258			125M2258	125R2258		

For dimension drawings, see page 63. For characteristic curves, see page 65

Mounting Fuse Bases For Cylindrical Fuse Links

- According to IEC 269-2, NF C 63 210-63 211-60 200, NBNC 63 269-2 en-2-1
- Rated current: 32A, 63A, 125A
- Rated voltage: AC 500V
- Utilization category AC-20B, DC-20B

Product photo	Size	Fuse Link Size	No. of poles	Order No.	Fig	Weight(g)
	32A/Rated current 32A					
	RT18-32	10 × 38	1	1PRT1832	Fig.4.6	59
			1+N	1NRT1832		118
			2	2PRT1832		118
			3	3PRT1832		177
			3+N	3NRT1832		236
	32A/Rated current 32A					
	RT18-32X with LED	10 × 38	1	1PRT1832X	Fig.4.6	59
			1+N	1NRT1832X		118
			2	2PRT1832X		118
			3	3PRT1832X		177
	63A/Rated current 63A					
RT18-63	14 × 51	1	1PRT1863	Fig.4.6	192	
		1+N	1NRT1863		384	
		2	2PRT1863		384	
		3	3PRT1863		576	
63A/Rated current 63A						
RT18-63X with LED	14 × 51	1	1PRT1863X	Fig.4.6	192	
		1+N	1NRT1863X		384	
		2	2PRT1863X		384	
		3	3PRT1863X		576	
125A/Rated current 125A						
RT18-125X with LED	22 × 58	1	1PRT18125X	Fig.4.6	280	
		1+N	1NRT18125X		560	
		2	2PRT18125X		560	
		3	3PRT18125X		840	
		3+N	3NRT18125X		1120	
	32A/Rated current 32A					
	ZT18-32	10 × 38	1	1PZT1832	Fig.4.8	59
			1+N	1NZT1832		118
			2	2PZT1832		118
			3	3PZT1832		177
			3+N	3NZT1832		236
	32A/Rated current 32A					
	ZT18-32X with LED	10 × 38	1	1PZT1832X	Fig.4.8	59
			1+N	1NZT1832X		118
			2	2PZT1832X		118
			3	3PZT1832X		177
	63A/Rated current 63A					
ZT18-63	14 × 51	1	1PRT1863	Fig.4.8	192	
		1+N	1NRT1863		384	
		2	2PRT1863		384	
		3	3PRT1863		576	
63A/Rated current 63A						
ZT18-63X with LED	14 × 51	1	1PZT1863X	Fig.4.8	192	
		1+N	1NZT1863X		384	
		2	2PZT1863X		384	
		3	3PZT1863X		576	
125A/Rated current 125A						
ZT18-125	22 × 58	1	1PZT18125	Fig.4.8	280	
		1+N	1NZT18125		560	
		2	2PZT18125		560	
		3	3PZT18125		840	
		3+N	3NZT18125		1120	
125A/Rated current 125A						
ZT18-125X with LED	22 × 58	1	1PZT18125X	Fig.4.8	280	
		1+N	1NZT18125X		560	
		2	2PZT18125X		560	
		3	3PZT18125X		840	
		3+N	3NZT18125X		1120	

For dimension drawings, see page 64.

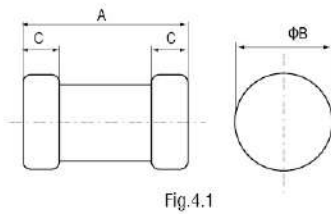
Cylindrical Fuse Base

- According to IEC 269-2, NF C 63 210-63 211-60 200, GB13539 Standards
- Rated voltage: AC 500V
- Utilization category AC-20B, DC-20B

Product photo	Size	Fuse Link Size	Order No.	Fig	Weight(g)
	20A/Rated current 20A				
	RT14-20	10 × 38	RT1420FB	Fig.4.2	37
	32A/Rated current 32A				
	RT14-32	14 × 51	RT1432FB	Fig.4.3	150
	63A/Rated current 63A				
	RT14-63	22 × 58	RT1463FB	Fig.4.3	255
	16A/Rated current 16A				
	RT19-16D	8.5 × 31.5(aM)	RT1916FB	Fig.4.4	34
	25A/Rated current 25A				
	RT19-32	10 × 38(aM)	RT1932FB	Fig.4.4	57
40A/Rated current 40A					
RT19-63	14 × 51(aM)	RT1963FB	Fig.4.5	78	
100A/Rated current 100A					
RT19-125	22 × 58(aM)	RT19125FB	Fig.4.5	157	

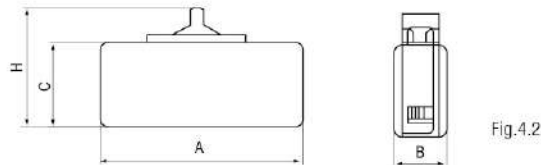
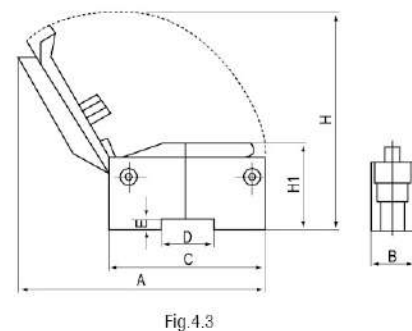
For dimension drawings, see page 64.

Cylindrical Fuse Links



No.	Size	Fig	Class rating(A)	Dimensions(mm)		
				A	φ B	C
026	8.5 × 31.5	Fig.4.1	2~16	31.5	8.5	6.3
027	10 × 38	Fig.4.1	2~25	38	10.3	10
028	14 × 51	Fig.4.1	10~40	51	14.3	12
029	22 × 58	Fig.4.1	25~125	58	22.2	14

RT14 Fuse Base



No.	Size	Fig	Class rating(A)	Dimensions(mm)						
				A	B	C	D	E	H	H1
030	RT14-20	Fig.4.2	20	70	20	29	-	-	48	-
031	RT14-32	Fig.4.3	32	163	26	106	27	3.5	135	56
032	RT14-63	Fig.4.3	63	200	35	124	26	3.5	160	64

RT19 Fuse Base

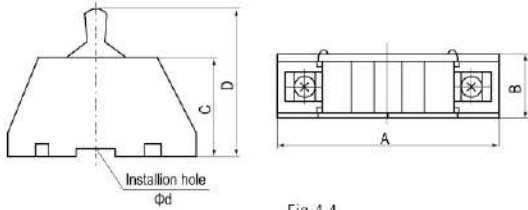


Fig.4.4

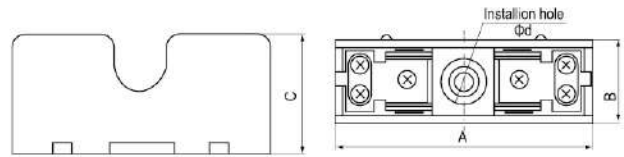


Fig.4.5

No.	Size	Fig	Class rating(A)	Dimensions(mm)			
				A	B	C	D
033	RT19-16D	Fig.4.4	16	69	18.5	41.5	5
034	RT19-32	Fig.4.4	25	80	23	53	6.5
035	RT19-63	Fig.4.5	40	91	28.5	40	5.5
036	RT19-125	Fig.4.5	100	108	36	50	6.5

Mounting Fuse Bases for Cylindrical Fuse Links

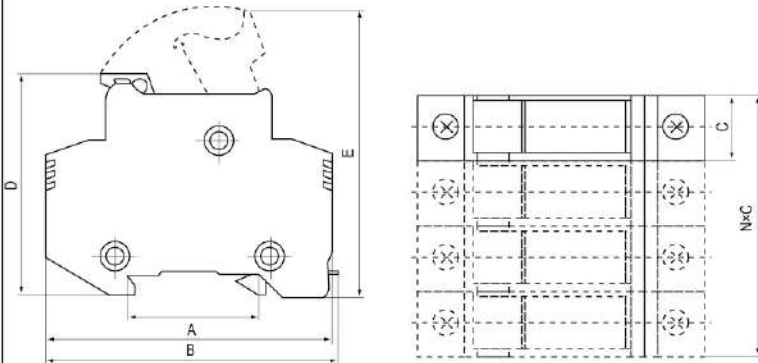


Fig.4.6

No.	Size	Fig	Class rating(A)	Dimensions(mm)				
				A	B	C	D	E
037	RT18-32(X)	Fig.4.6	32	80	82	18	60	78
038	RT18-63(X)RT18-125(X)	Fig.4.6	63	103	105	27	80	110
039	RT19-125	Fig.4.6	125	116	120	36	85	122

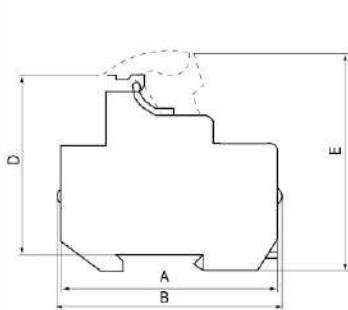


Fig.4.7

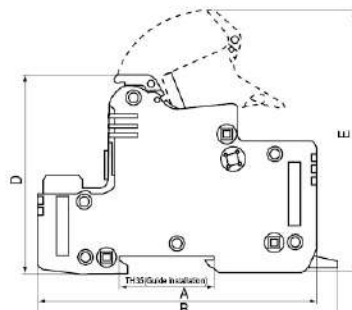
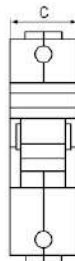
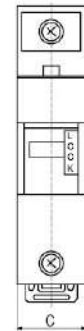
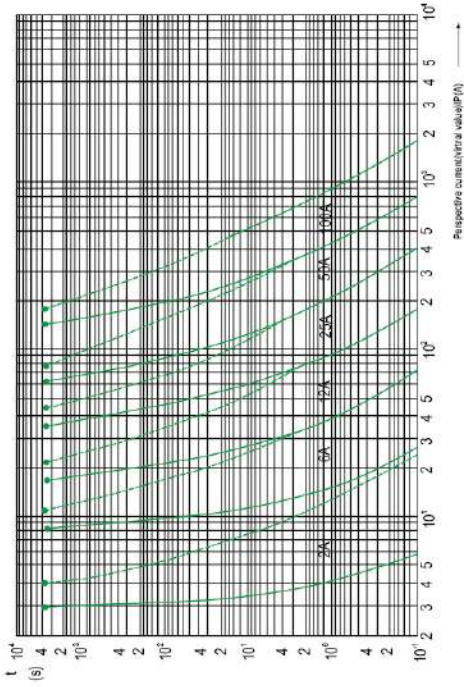


Fig.4.8

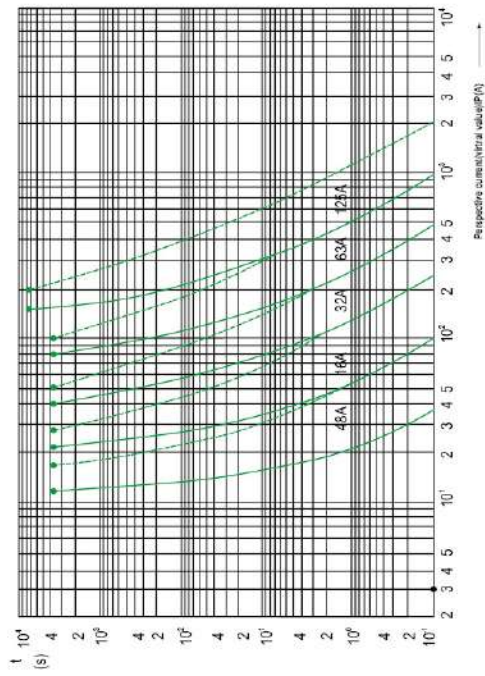


No.	Size	Fig	Class rating(A)	Dimensions(mm)				
				A	B	C	D	E
040	ZT18-32(X)	Fig.4.7	32	78	78	18	60	80
041	ZT18-63(X)ZT18-125(X)	Fig.4.8	63	108	115	27	78	100
042		Fig.4.8	125	126	134	36	78	104

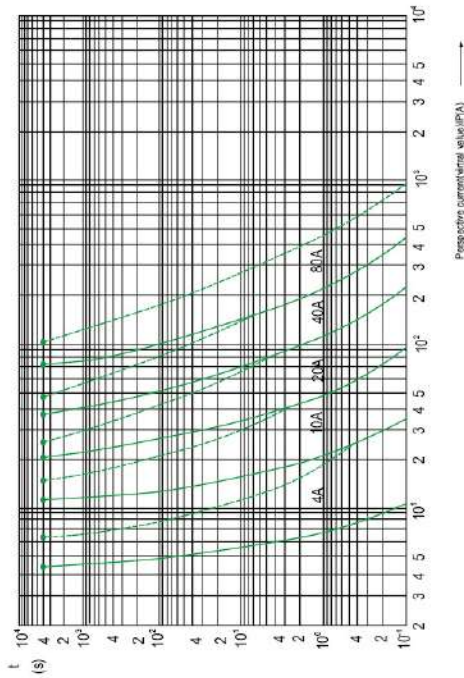
Characteristic Curves



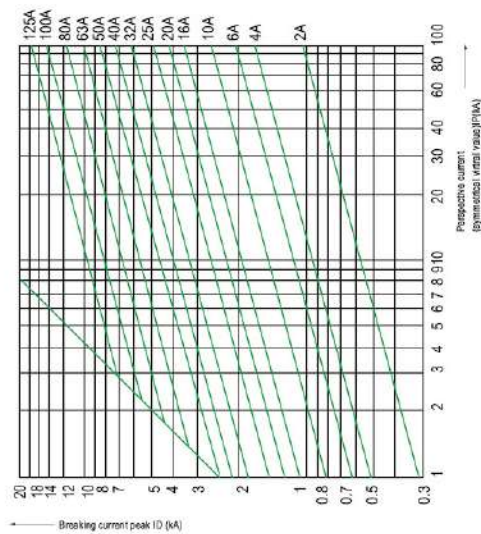
Time-current rang of "gG" fuse links



Time-current rang of "gG" fuse links



Time-current rang of "gG" fuse links




Breaking current characteristics curve of "gG" fuse links

Screw Type Fuses


D0-Fuse Links

- According to DIN VDE 0636, IEC 269
- Rated voltage: AC 400V, DC 250V
- Operating class gL/gG
- For cable and conductor protection
- Finely graduated selectivity
- High rated short-circuit breaking capacity


Product photo	Size	In A	Colour mark RAL 840 HR	Order No.	Fig	Weight(g)
	D01	2	Rosy	02GD01	Fig.5.2	6
		4	Bronzy	04GD01		
		6	Green	06GD01		
		10	Red	10GD01		
		16	Gray	16GD01		
	D02	20	Blue	20GD02	Fig.5.2	12
		25	Yellow	25GD02		
		35	Black	35GD02		
		50	White	80GD02		
		63	Coppey	63GD02		
D03	80	Silver	080GD03	Fig.5.2	40	
	100	Red	100GD03			

D0-Flush mounting fuse bases D01/D02/D03, single-pole

- According to DIN VDE 0636, IEC 269
- D01, D02: device mounting depth 70 mm; D03: device mounting depth app .75 mm
- Ceramic bases
- 1 and 3 pole Models for snap-on and screw fixing
- Universal applications
- Two cable connection outgoing terminal for D01 flush mounting fuse bases for conductor 2 leads up to 4mm²
- Terminal screw Pozidriv(D01:M4, D02:M5)

Product photo	Size	In A	Conductor size up to mm ²	Terminal design 1)	Order No.	Fig	Weight(g)
	with protective cover, with snap-on fitting						
	D01	16	4	B	FBD01	Fig.5.3	77
	D02	63	25	S	FBD02S		97
	D02	63	25	KS	FBD02K		87
	without protective cover, with snap-on fitting						
	D03	100	50	KS	FBD03		176

D0-Flush mounting fuse bases D01/D02, triple-pole

Product photo	Size	In A	Conductor size up to mm ²	Terminal design 1)	Order No.	Fig	Weight(g)
	with protective cover, with snap-on fitting						
	D01	16	4	B	FB3D01	Fig.5.8	263
	D02	63	25	S	FB3D02S		293
	D02	63	25	KS	FB3D02K		290





Type of termination for the D0 flush mounting fuse bases
 B=Clamp-type terminal S=saddle-terminal
 KS=Inc.screw head-contact out. Saddle-terminal

DI DII Fuse Links

Features

- According to DIN VDE 0636, IEC 269
- Rated voltage:
E 16/DIV 500V AC/DC,
DIII 500/690V AC,
500/600V DC,
DIV 500V AC/DC

For snap-on and screw mounting
Device mounting depth approx 85mm

Product photo	Size	In A	Colour mark	For thread	Order No.	Fig	Weight(g)
E16/Fuse links TN DZ/NDZ/E16							
According to DIN VDE 0635 Rated voltage: AC500V/DC500V Rated breaking capacity: 40kA at AC415V, 1.6kA at DC500V For cable and line protection Operating class gL/gG							
Characteristic:slow							
	DI	2	Rosy	E16	02GE16	Fig.5.1	13
		4	Bronzy		04GE16		
		6	Green		06GE16		
		10	Red	E16	10GE16		13
		16	Gray	16GE16	15		
		20	Blue	20GE16	16		
25	Yellow	25GE16					
Characteristic:quick							
	D01	16	4	B	FB3D01	Fig.5.8	263
	D02	63	25	S	FB3D02S		293
	D02	63	25	KS	FB3D02K		290
Fuse links TDz(slow)							
According to DIN VDE 0636, IEC 269 Rated voltage: AC500V/DC500V Rated breaking capacity: 50kA at AC500V, 8kA at DC500V For cable and line protection Operating class gL/gG							
Packed in 5packs of 5							
	D II	2	Rosy	E27	02GE27	Fig.5.1	26
		4	Bronzy		04GE27		
		6	Blue		06GE27		
		10	Red		10GE27		27
		16	Gray		16GE27		28
D II	20	Blue	E27	20GE27	29		
	25	Yellow	E33	25GE27	31		
D III	35	Black	E33	35GE33	Fig.5.1	50	
	50	White		50GE33		51	
	63	Coppery		63GE33		54	
Packed in 5packs of 5							
	DIV	80	Silver		080GDIV	Fig.5.1	11
		100	Red		100GDIV		

For dimension drawings, see page 69.

Screw Type Fuses Base

- According to DIN VDE 0836, IEC 269
- Rated voltage: E16/DII AC 500V, DIII AC 660V/DC 660V
- 1 and 3 pole Models for snap-on and screw fixing
- Device mounting depth approx 85mm

Product photo	Size	Fuse Link Size	Order No.	Fig	Weight(g)
	25A/Rated current 25A				
	D I /25	E16	FBE16	Fig.5.4	145
	25A/Rated current 25A				
	D II /25	E27	FBE27	Fig.5.5	160
	63A/Rated current 63A				
	D II /63	E33	FBE33	Fig.5.6	240
	25A/Rated current 25A				
	D II /25	E27	FBE27-3T	Fig.5.9	393
	63A/Rated current 63A				
	D II /63	E33	FBE33-3T	Fig.5.10	538
25A/Rated current 25A					
D II /25	E27	FBE27-3V	Fig.5.7	500	
63A/Rated current 63A					
D II /63	E33	FBE33-3V	Fig.5.7	400	

For dimension drawings, see page 69.

For thread	Size	Class rating(A)	Dimensions(mm)					
			Fig	φ A	φ B	φ C	φ D	L
E16	D I	2-6	5.1	6	-	12.5	11.3	50
		10	5.1	8	-	12.5	11.3	50
		16	5.1	10	-	12.5	11.3	50
		20-25	5.1	12	-	12.5	11.3	50
E27	D II	2-6	5.1	6	-	21	13	50
		8-10	5.1	8	-	21	13	50
		16	5.1	10	-	21	13	50
		20	5.1	12	-	21	13	50
		25	5.1	14	-	21	13	50
E33	D III	30-40	5.1	16	-	27	20	50
		50	5.1	18	-	27	20	50
		63	5.1	20	-	27	20	50
D0	D01	2-6	5.2	5	7	12	10	36
		10	5.2	5	8	12	10	36
		16	5.2	5	9	12	10	36
		20	5.2	8.5	11	15	13.5	36
		25	5.2	8.5	12	15	13.5	36
	D02	35	5.2	8.5	13	15	13.5	36
		50	5.2	8.5	14	15	13.5	36
		63	5.2	8.5	16	15	13.5	36
	D03	80	5.2	17	21	22	21	43
		100	5.2	17	25	22	21	43

Screw Type Fuses Base

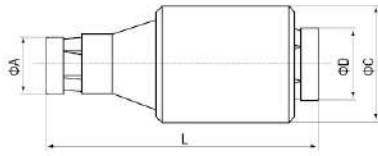


Fig.5.1

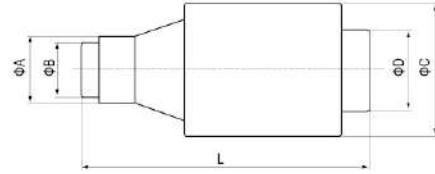


Fig.5.2

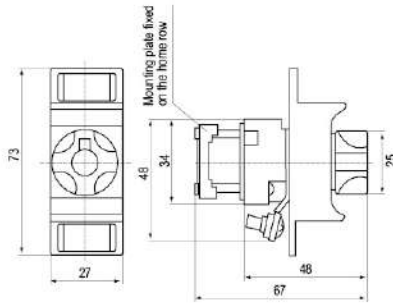


Fig.5.3

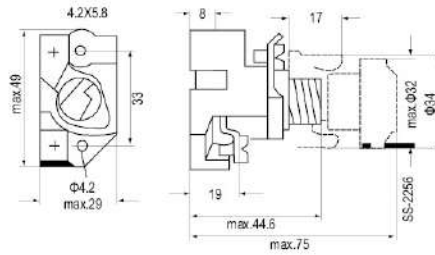


Fig.5.4

Dimension drawing

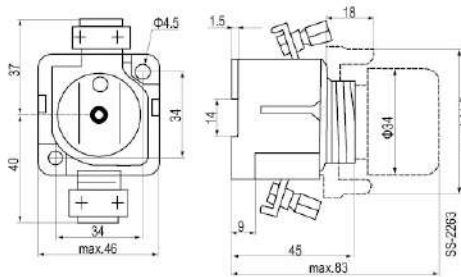


Fig.5.5

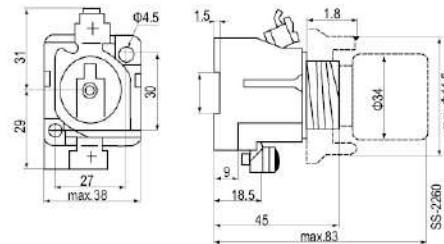


Fig.5.6

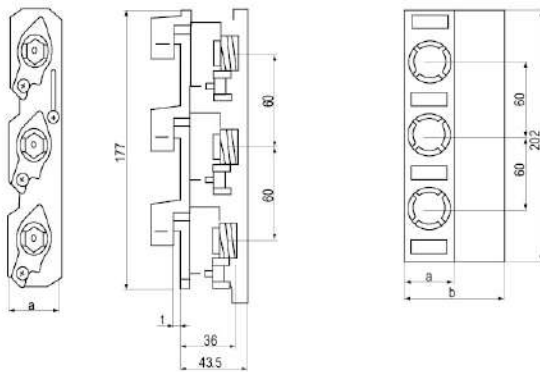


Fig.5.7

Size	a(1 ×)	b(2 ×)	Fig
E27(D II)	42	84	5.7
E33(D III)	57	114	

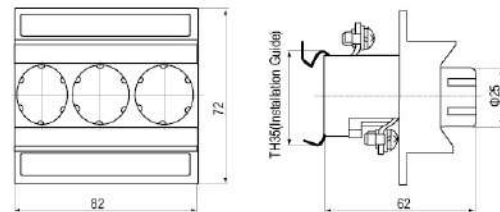


Fig.5.8

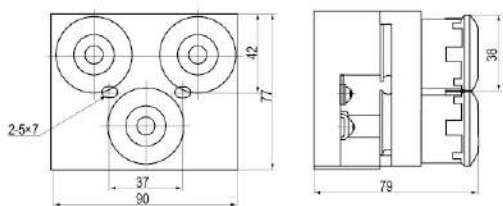


Fig.5.9

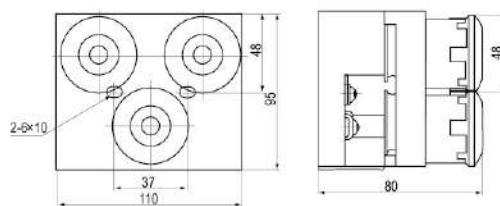


Fig.5.10

NGT, RSO & RS3 Series Fuse Links/NT(NH) RT16 Series Fuse





NGT/RSO Fuse Links

Feature

- According to GB13539 and IEC 269
- Dimensions according to DIN 43 620, DIN 43 653
- Rated voltage: AC 500V, AC 690V, AC 1000V
- Operating class gR(aR)
- For semiconductor protection

Product photo	Size	In A	Order No.	Fig	Weight(g)
	With bolt-on lugs AC 690V/Rated voltage: AC 690V				
	NGT00	25	025RNGT00	Fig.6.1	185
		32	032RNGT00		
		40	040RNGT00		
		50	050RNGT00		
		63	063RNGT00		
		80	080RNGT00		
		100	100RNGT00		
		125	125RNGT00		
	160	160RNGT00			
With bolt-on lugs AC 690V/Rated voltage: AC 690V					
NGT1	80	080RNGT1	Fig.6.2	465	
	100	100RNGT1			
	125	125RNGT1			
	160	160RNGT1			
	200	200RNGT1			
	250	250RNGT1			
With bolt-on lugs AC 690V/Rated voltage: AC 690V					
NGT2	200	200RNGT2	Fig.6.2	668	
	250	250RNGT2			
	280	280RNGT2			
	315	315RNGT2			
	355	355RNGT2			
	400	400RNGT2			
With bolt-on lugs AC 690V/Rated voltage: AC 690V					
NGT3	315	315RNGT3	Fig.6.2	910	
	400	400RNGT3			
	450	450RNGT3			
	500	500RNGT3			
	630	630RNGT3			
With bolt-on lugs AC 690V/Rated voltage: AC 690V					
RSO-50 (RS3-50)	10	010RS0050	Fig.6.3	275	
	15	015RS0050			
	20	020RS0050			
	30	030RS0050			
	40	040RS0050			
	50	050RS0050			
With bolt-on lugs AC 690V/Rated voltage: AC 690V					
RSO-100 (RS3-100)	60	060RS0100	Fig.6.3	330	
	80	080RS0100			
	100	100RS0100			
With bolt-on lugs AC 690V/Rated voltage: AC 690V					
RSO-200 (RS3-150)	100	100RS0200	Fig.6.3	480	
	120	120RS0200			
	150	150RS0200			
	200	200RS0200			

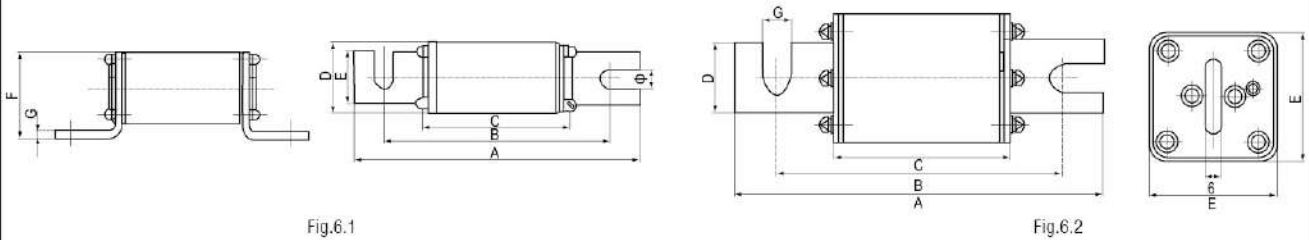
For dimension drawings, see page 72.

Product photo	Size	In A	Order No.	Fig	Weight(g)
	RSO-350 (RS3-200)	200	200RS0350 250RS0350 300RS0350 320RS0350 350RS0350	Fig.6.3	680
		250			
300					
320					
350					
With bolt-on lugs AC 690V/Rated voltage: AC 690V					
	RSO-480 (RS3-300)	250	250RS0480 300RS0480 320RS0480 350RS0480 400RS0480 480RS0480	Fig.6.3	1080
		300			
		320			
		350			
		400			
		480			

For dimension drawings, see page 72.

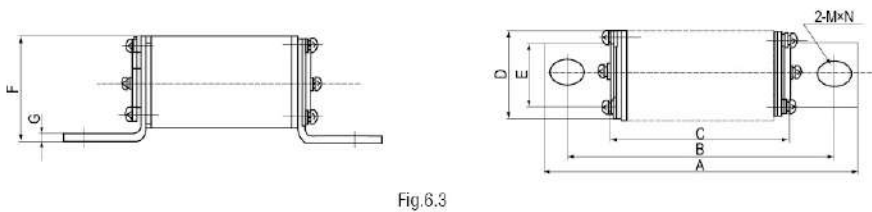
Dimension drawing

■ NGT Fuse



No.	Size	Fig	Class rating(A)	Dimensions(mm)								
				A	B	C	D	E	F	G	φ	
043	NGT00	Fig.6.1	25-160	100	80	50	28.5	20	47	2	9	
044	NGT1	Fig.6.2	80-250	140	110	68	25	48	-	10.5	-	
045	NGT2	Fig.6.2	200-400	140	110	68	32	59	-	10.5	-	
046	NGT3	Fig.6.2	315-630	140	110	68	38	67	-	10.5	-	

■ RSO(RS3) Fuse



Bolting Type Fuses

■ According to IEC 269,BS88,GB13539

■ Rated voltage: AC 440V,AC 500V




■ Operating class:

① gL/gG for cable and conductor protection


② aM for motor protection

③ aR for semiconductor protection



■ Rated breaking capacity:AC 100kA

Product photo	Size	In A	Operating class	Order No.	Fig	Weight(g)
	SSD	2 4 6 10 16 20 32	gG	ZSSD02 ZSSD04 ZSSD06 ZSSD10 ZSSD16 ZSSD20 ZSSD32	Fig.7.1	16
		2 4 6 10 16 20 32 36 40 50 63	gR gM	ZNSD02 ZNSD04 ZNSD06 ZNSD10 ZNSD16 ZNSD20 ZNSD32 ZNSD36 ZNSD40 ZNSD50 ZNSD63		
	ESD	2 4 6 10 16 20 32 40 50 63 80 100	gG gM	ZESD02 ZESD04 ZESD06 ZESD10 ZESD16 ZESD20 ZESD32 ZNSD40 ZESD50 ZESD63 ZESD80 ZESD100	Fig.7.1	85
		2 4 6 10 16 20 25 32 40 50 63	gG gM	ZN1TD02 ZN1TD04 ZN1TD06 ZN1TD10 ZN1TD16 ZN1TD20 ZN1TD25 ZN1TD32 ZN1TD40 ZN1TD50 ZN1TD63		
	AAO	2 4 6 10 16 20 25 32 40 50 63	gG gM	ZAA002 ZAA004 ZAA006 ZAA010 ZAA016 ZAA020 ZAA025 ZAA032 ZAA040 ZAA050 ZAA063	Fig.7.3	
		35 40 50 63 80 100	gG gM	ZBA0035 ZBA0040 ZBA0050 ZBA0063 ZBA0080 ZBA0100		

For dimension drawings, see page 75.

Product photo	Size	In A	Operating class	Order No.	Fig	Weight(g)
	CEO	32	gG	ZCE0032	Fig.7.3	
		40		ZCE0040		
		50		ZCE0050		
		63		ZCE0063		
		80		ZCE0080		
		100		ZCE0100		
	OSD	125	gM	ZCE0125	Fig.7.3	
		160		ZCE0160		
		200		ZCE0200		
		250		ZCE0250		
	DEO	315	gM	ZCE0315	Fig.7.3	
		80		ZOSD080		
100		ZOSD100				
125		ZOSD125				
160		ZOSD160				
200		ZOSD200				

For dimension drawings, see page 75.

Product photo	Size	In A	Order No.		Fig	Weight(g)
			Operating class (gL/gG)	Operating class (aR)		
	J-82	20	020GJ82	020RJ82	Fig.7.3	230
		25	025GJ82	025RJ82		
		32	032GJ82	032RJ82		
		40	040GJ82	040RJ82		
		50	050GJ82	050RJ82		
		63	063GJ82	063RJ82		
		80	080GJ82	080RJ82		
		100	100GJ82	100RJ82		
		125	125GJ82	125RJ82		
		160	160GJ82	160RJ82		
		200	200GJ82	200RJ82		
		250	250GJ82	250RJ82		
		300	300GJ82	300RJ82		
			J-92	315		
355	355GJ82			355RJ82		
400	400GJ82			400RJ82		
20	020GJ92			020RJ92		
25	025GJ92			025RJ92		
32	032GJ92			032RJ92		
40	040GJ92			040RJ92		
50	050GJ92			050RJ92		
63	063GJ92			063RJ92		
80	080GJ92			080RJ92		
100	100GJ92			100RJ92		
125	125GJ92			125RJ92		
160	160GJ92			160RJ92		
200	200GJ92			200RJ92		
250	250GJ92	250RJ92				
300	300GJ92	300RJ92				
315	315GJ92	315RJ92	Fig.7.4	450		
355	355GJ92	355RJ92				
400	400GJ92	400RJ92				

For dimension drawings, see page 75.

Bolting Type Fuses

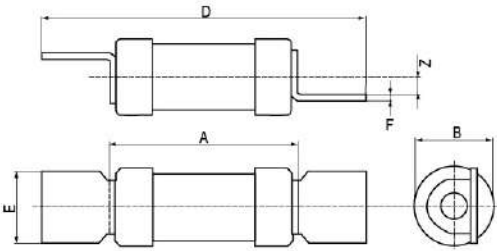


Fig.7.1

Size	Dimensions(mm) Fig.7.1					
	A	B	D	E	F	N
SSD	23.0	12.0	47.0	13.0	0.8	3.2
NSD& NSD20M	34.5	13.8	58.5	12.7	0.8	3.5
NSD20M36& NSD32M	34.5	17.5	58.5	12.7	0.8	3.5
ESD-32A	35.5	13.8	68.0	15.0	12	3.5
ESD40-63A	35.5	17.5	68.0	15.0	12	3.5
ESD63M	35.5	21.0	68.0	15.0	12	3.5

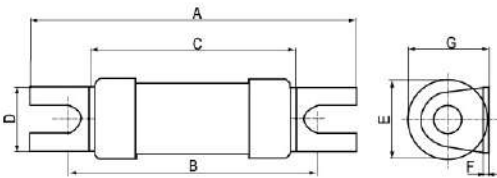


Fig.7.2

Size	Dimensions(mm) Fig.7.2						
	A	B	C	D	E	F	G
NITD	55.0	44.0	34.6	11.2	13.8	0.8	14.0
NITD32M	55.0	44.0	35.6	11.2	17.5	1.2	18.5

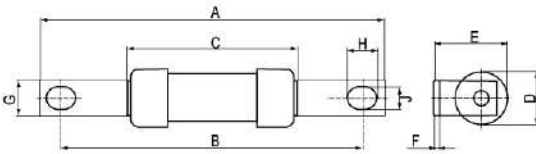


Fig.7.3

Size	Dimensions(mm) Fig.7.3								
	A	B	C	D	E	F	G	H	J
AAO	85	73	35.5	13.7	14.0	1.2	8.7	8.0	5.5
AAO32M	85	73	54.5	21.0	22.3	1.2	8.7	8.0	5.5
BAO	87	73	54.5	21.0	22.5	1.2	12.7	8.0	5.5
BAO63M	87	73	54.5	21.0	22.5	1.2	12.7	8.0	5.5
CEO	110	94	58.5	21.0	24.5	3.2	14.3	11.0	8.7
CEO100M 125&160	110	94	58.5	25.8	26.8	3.2	14.3	11.0	8.7
CEO100M200	110	94	47.0	31.0	29.5	3.2	19.0	10.0	9.0
OSD	95.0	73	54.5	21.0	22.5	1.2	12.7	8.0	5.5
OSD100M	95.0	73	54.5	26.0	25.7	1.2	12.7	8.0	5.5
DEO	110	110	47.0	31.0	29.5	3.2	19.0	10.0	9.0
DEO200M	110	110	47.0	31.0	29.5	3.2	19.0	10.0	9.0

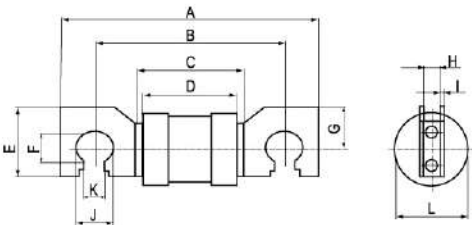


Fig.7.4

Size	Dimensions(mm) FigA.7.3											
	A	B	C	D	E	F	G	H	I	J	K	L
J-82(≤300A)	110	82	45.2	40.5	30	14.8	18	6.5	2.4	17.5	9.8	40
J-82(>300A)	110	82	44.8	40	30	14.4	18	6.5	2.4	17.5	9.8	55
J-92(≤300A)	131	92	46.8	40.5	41	17.4	-	8.7	3.2	20.7	10.9	40
J-92(>300A)	131	92	46.4	40	41	17.4	23.7	8.13	3.2	20.7	10.2	55

Pole-Mounted Fuse

Product selection table



Product serial number	Installation and arrangement
54611-18	Installed on the pole or wall 400A fuse c/w M12 square head screw
54611-06	Installed on the cross arm 400A fuse c/w M12 Bolt,nut and washer
58424-03	The standby fuse support piece(base)

Remarks:When connecting plate hole is higher than or equal to 16mm,it is recommended to use tepped gaskets



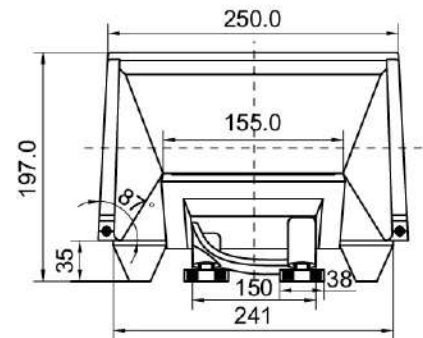
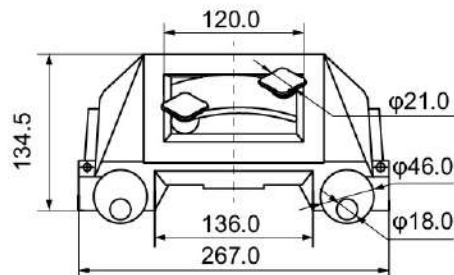
Structure Characteristics

- Solid design of damage resistance,use of independent research and development of GRP configuration.
- Slide device front cover is convenient for combination.
- "Easy to use" type bolt is suitable for cable end (joint) with diameter maximum 300m.
- Designed to be applicable to the standard "J" type fuse body.
- Fully meet BS7656:1993 requirements.
- Full compliance with IP43 design specification.

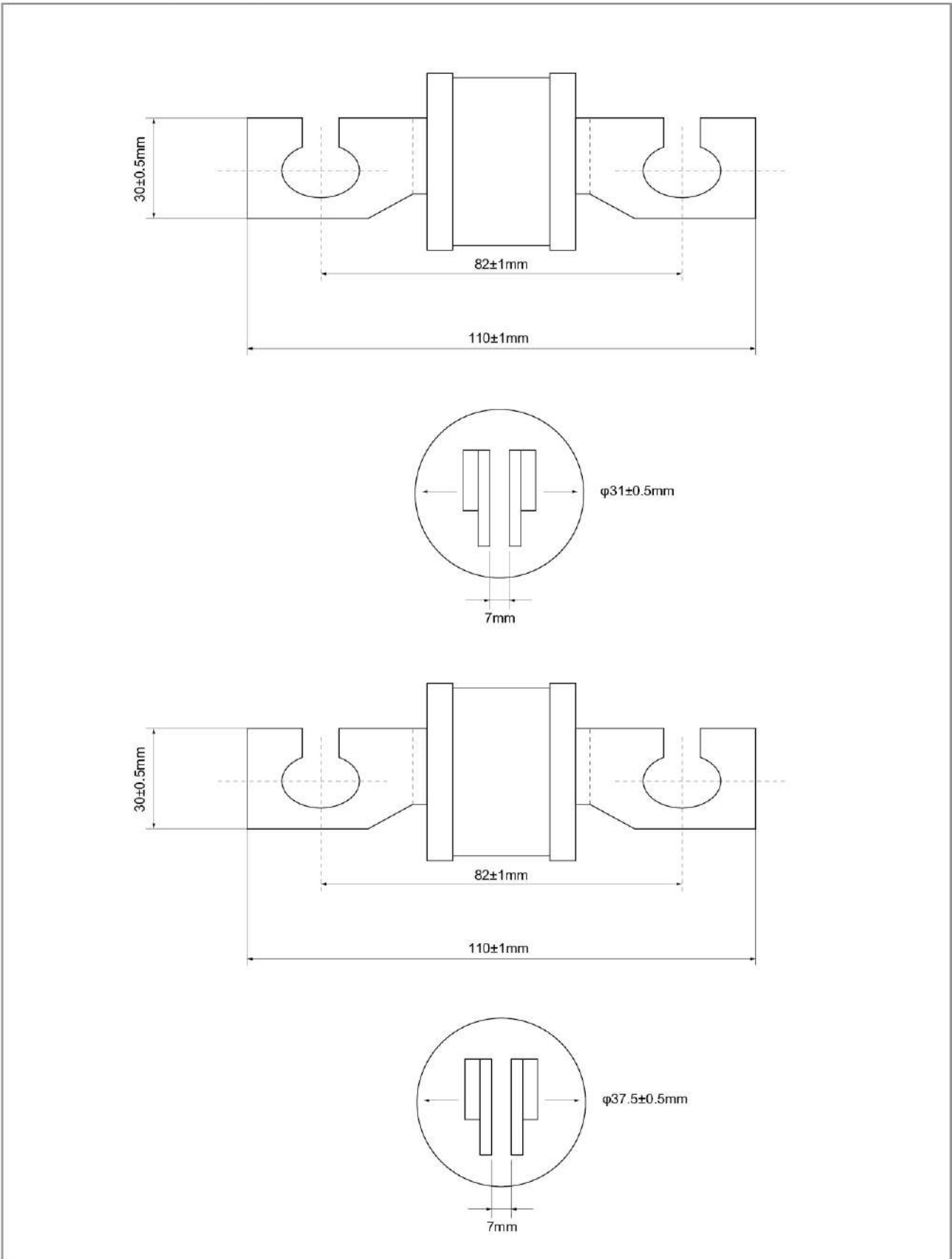


Fuse link

- The drop type fuse body design is suitable for the standard wedge fuse body,accsord with standard BS88-5:1988 requirements.Has passed the 415AC80 test standard.
- Fixed center distance requirement is 82mm.
- Standard fuse body rated current range is 20-400A.



Outline and Mounting Dimensions





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