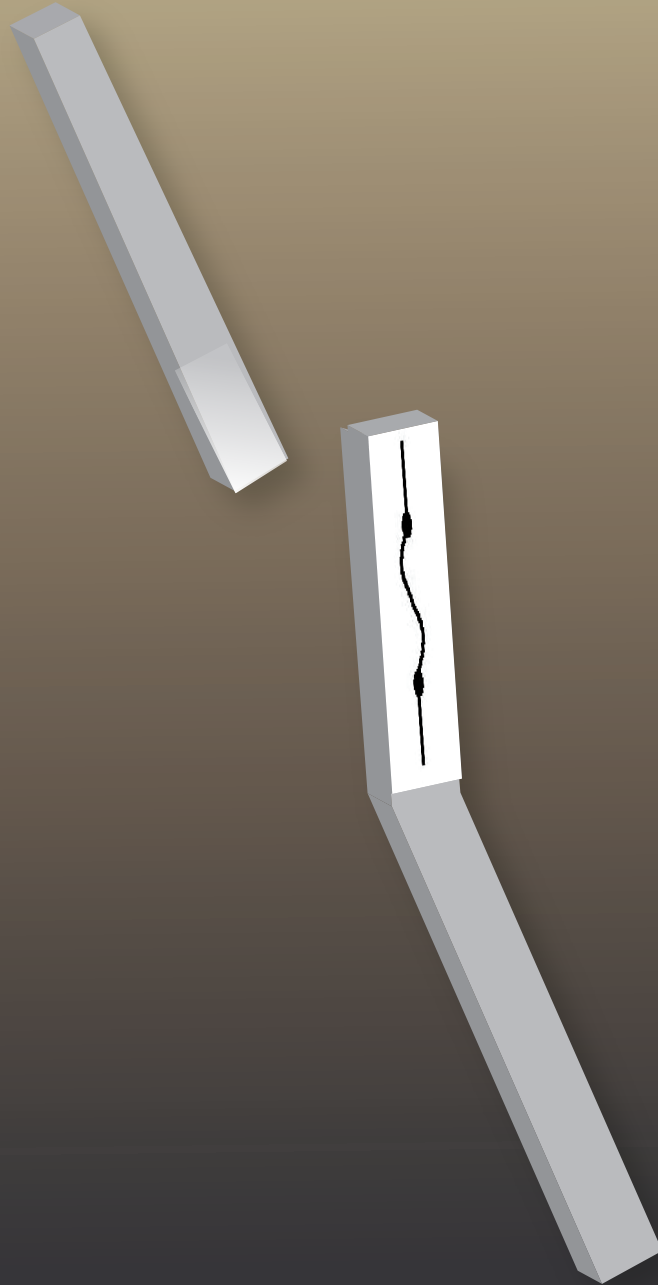


FUSE COMBINATION SWITCHES

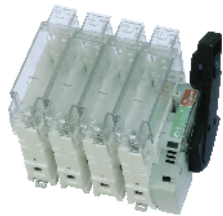
ON LOAD 60~1250A

According to IEC 60947-3





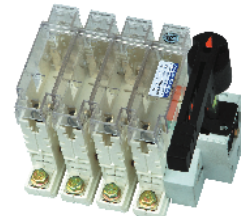
GGLR 63~1250A DIN NH00-NH4 Fuse-Combination Switches



GGLRC-63A-3



GGLR-160A-3



GGLR-160A-4



GGLR-250A-3



GGLR-250A-4



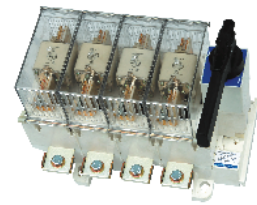
GGLR-400A-3



GGLR-400A-4



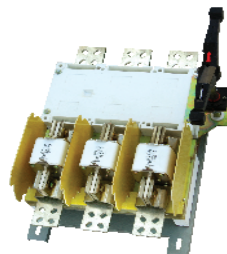
GGLR-630A-3



GGLR-630A-4



GGLRC-630A-3



GGLR-1250A-3

GGLR 63~1250A DIN NH00-NH4 Fuse-Combination Switches



^{GQR1}
^{GGLR} Series fuse group of isolation switch (hereinafter short for switch) is multipole and manually oprated. Its housing is made of glass fiber reinforced unsaturation polyester which has merits of high dielectric property, guard capacity and reliable operation.

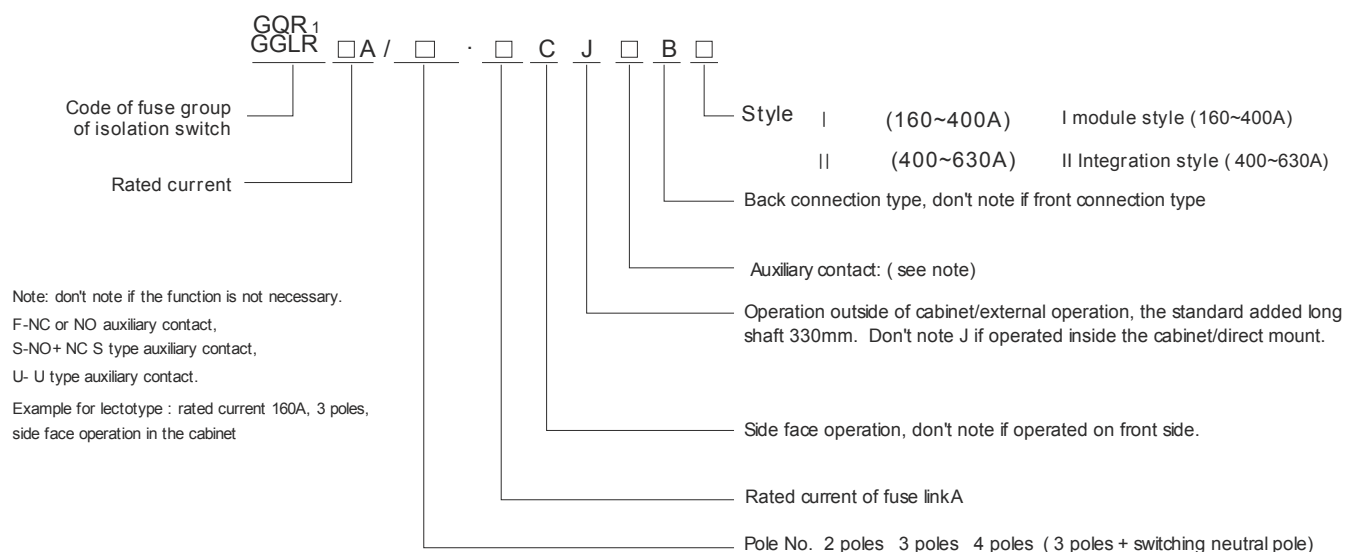
The operation mechanism, an accelerated mechanism of spring energy storage providing instantaneous release of the energy for actuating. Resulting in instantaneous making and breaking multi-breakpoint contact. It is not related with the speed of operating the handle. Thus, it vastly improves each electric performance and mechanical performance.

Fuse group of isolation switch can be use for making and breaking circuit with load, and it has reliable circuit breaking protection when use with appropriate fuse.

With strong heat and humidity proofing.

Because of graceful appearance, novel, simple, small volume and complete function, it offers the best solution.

Model description



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
250	160	0
	200、250	1
400	300、315、400	2
630	400、500、630	3



GGLR 63~1250A DIN NH00-NH4 Fuse-Combination Switches

ELECTRICAL AND MECHANICAL CHARACTERISTICS

According to IEC 947-3, BS EN60947-3 On load switch disconnecter Fuses

Thermal current I _{th} (40°C)	160A	250A	400A	630A	1250A
NH/DIN Fuse size	00	1	2	3	4
Rated insulation voltage U _i (V)	750	800	1000	1000	1000
Rated impulse withstand voltage U _{imp} (KV)	8	8	12	12	12
Dielectric strength (V) 50Hz 1min	5000	5000	8000	8000	10000
Rated working current I _e (A)					
415V AC21B	160	250	400	630	1250
AC22B	160	250	400	630	1250
AC23B	160	250	340	500	1000
750V AC21B	160	200	400	500	1000
AC22B	160	160	315	315	800
AC23B	80	125	125	125	400
220V DC21	160	250	400	630	
DC22	160	250	400	500	
DC23	125	160	200	400	
440V DC21	100	160	200	400	
DC22	100	160	200	400	
DC23	100	160	200	400	
Making and breaking capacity					
Rated making capacity I _{cn} ((A Rms)AC23B 415V	1250	2000	4000	4000	10000
Rated breaking capacity I _{cM} ((A Rms)AC23B 415V	1000	1600	3200	3200	8000
Conditional short-circuit current					
Short circuit current(KA rms presumed) DIN	50	80	50/80	100/80	100/80
Fuse switch cut-off current(KA peak)	19	32.5	40	58	109
Mechanical life (no. of operations)	10000	10000	5500	5500	4000
Operating Force (Nm) Direct/Front	6.5	10	10	14.5	27
Weight (Kg) 3P/4P	1.7/2.2	3.1/4.3	4.8/6.0	15/18	28/33

GGLR 63~1250A DIN NH00-NH4 Fuse-Combination Switches



^{GQR1}
GGLR The Fuse switches are designed to ensure reliable making and breaking circuit with load. Together with appropriate sized fuses, reliable overcurrent and short-circuit protection are achieved.

It come in two poles, three poles or four poles(all poles including neutral are switched). Two poles type can be used in DC circuits and 1 phase AC circuits.

The fuse combination switches are broadly divided into 18 specs, from 63A to 1250A.

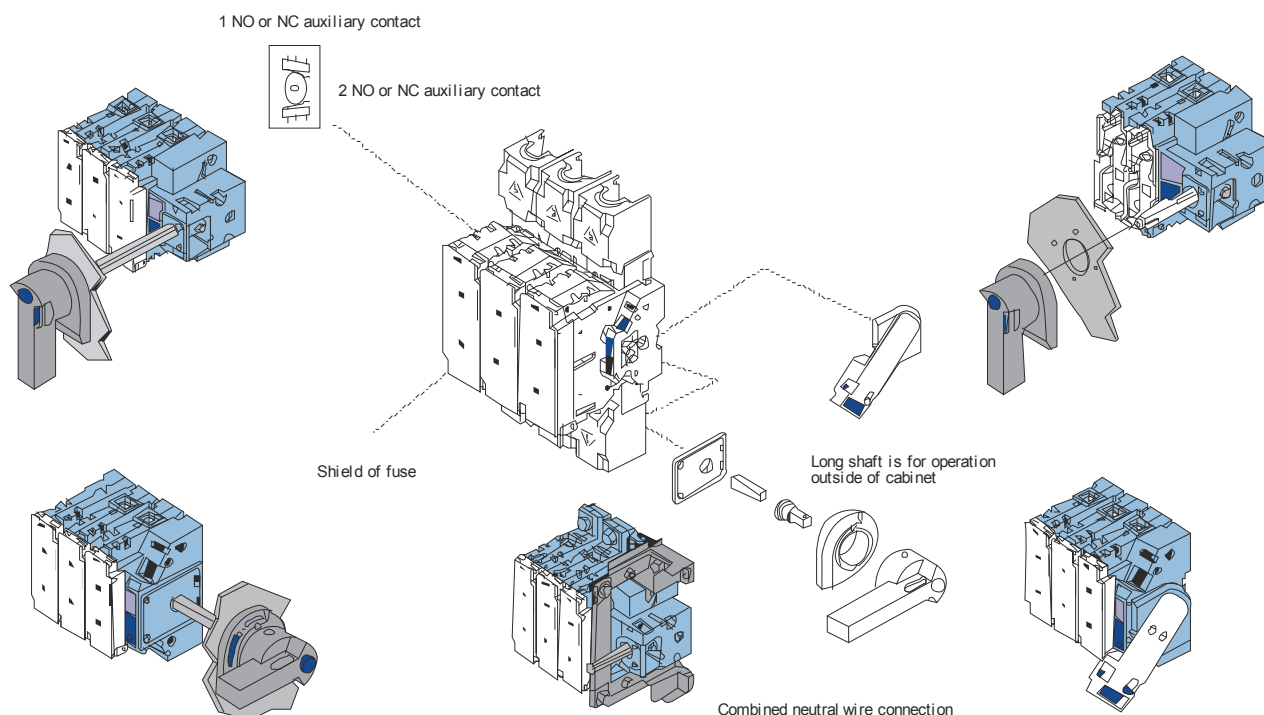
■ Structure and operation mode

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. The handle can be of door interlocking type.

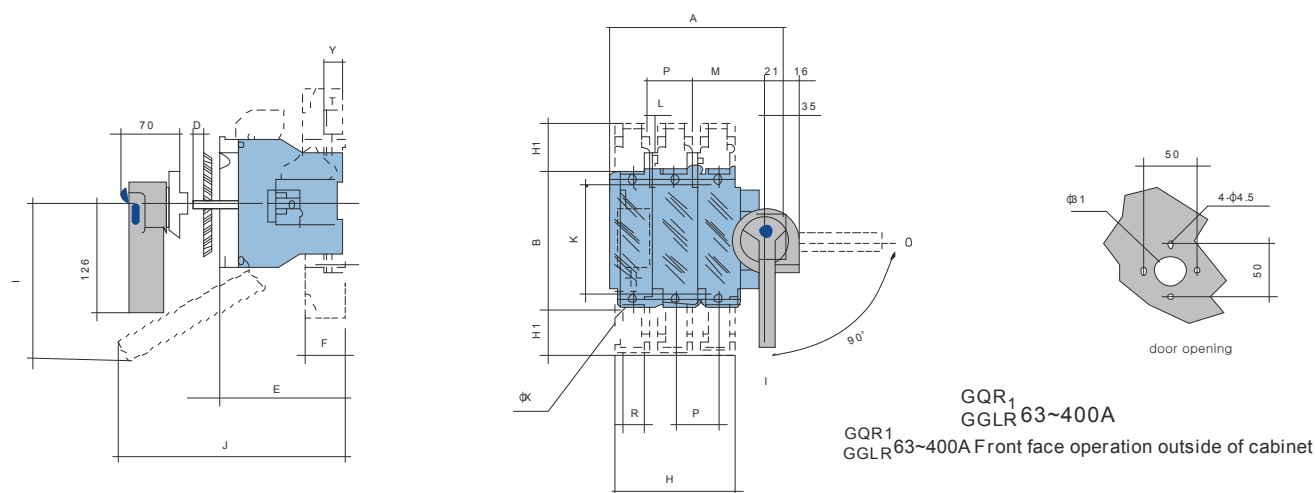
Side face operation outside of cabinet: the handle is installed on the right of distribution cabinet. The handle can be of door interlocking type.



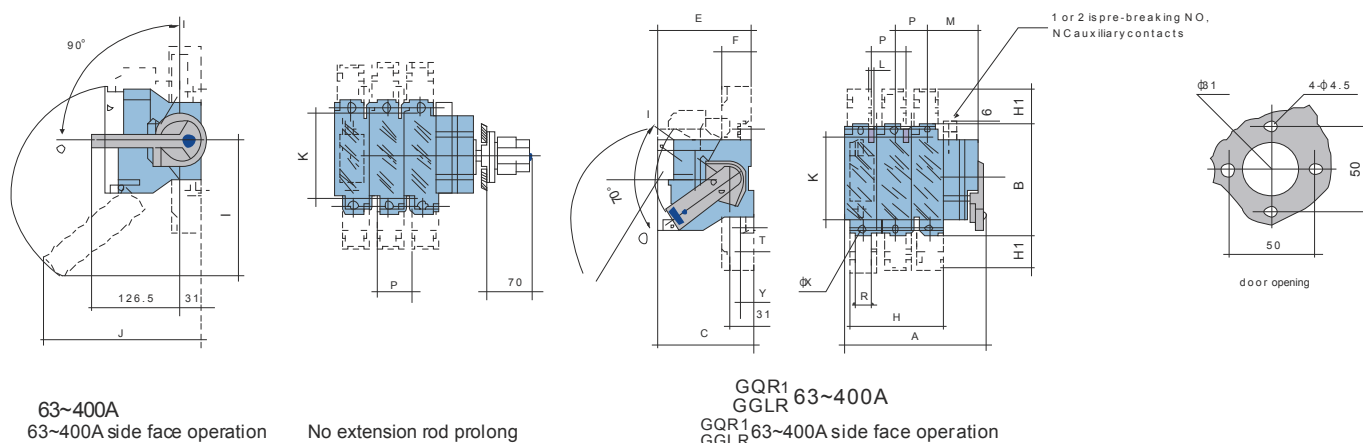


GGLR 63~400A DIMENSIONS

Fuse-Combination Switches



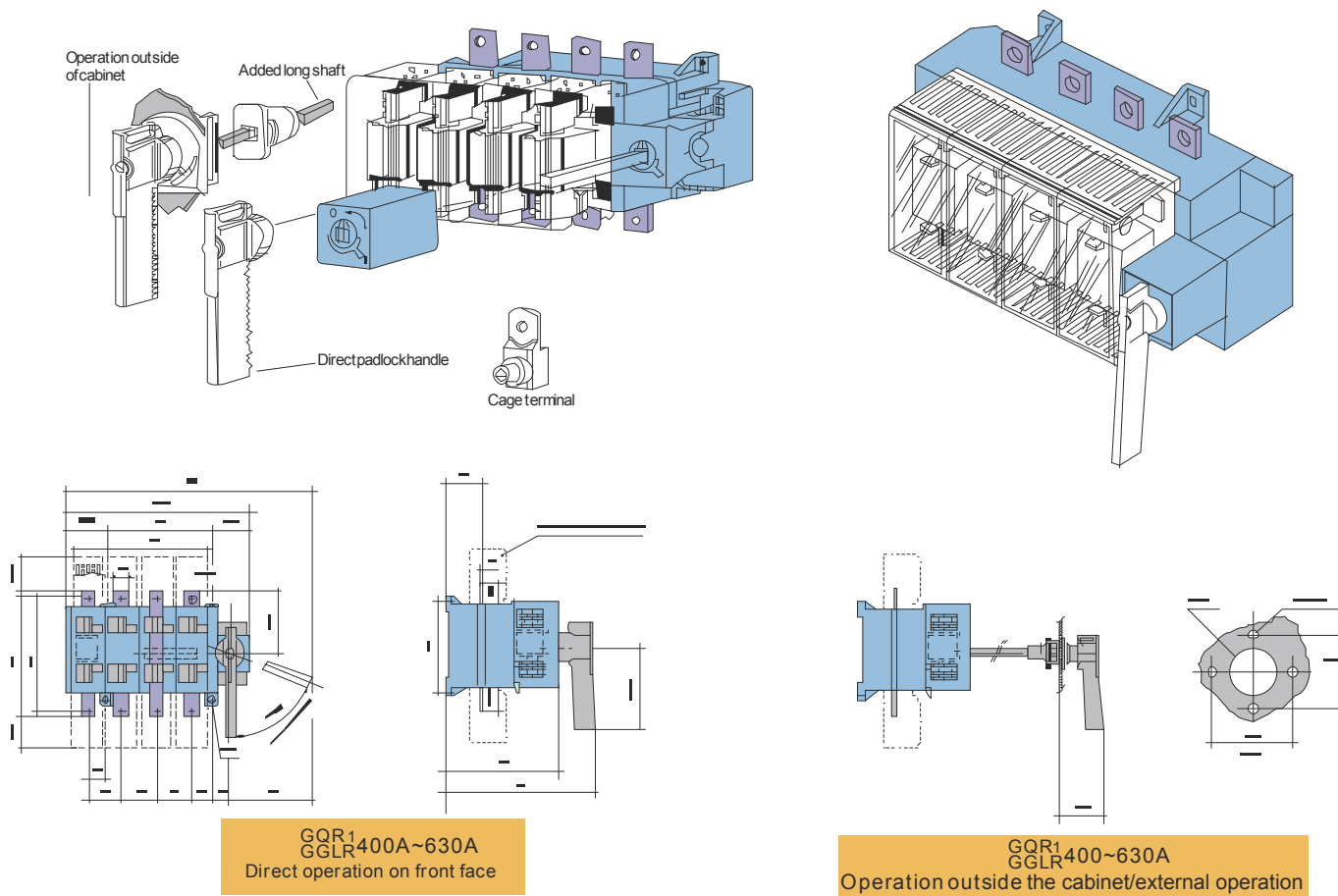
Specification	Size of fuse	External Dimension and Installation Dimension																
GQR-63~400A GGLR		A	B	D	E	F	H	H1	I	J	K	L	M	P	R	T	φX	Y
63A/3	0~00C	152	118	20~30	117				159	145	106	5.4	62.5	32				
63A/4	0~00C	184	118	20~30	117				159	145	106	5.4	62.5	32				
160/3	0~00	164	162	28~30	126	44	108	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



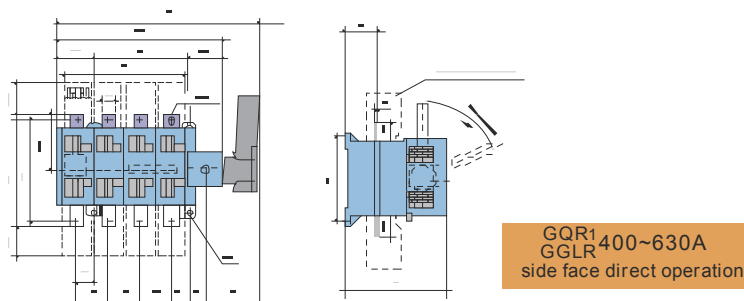
Specification	Size of fuse	External Dimension and Installation Dimension																
GQR-63~400A GGLR		A	B	C	E	F	H	H1	I	J	K	L	M	P	R	T	φX	Y
63A/3	0~00C	133	118	134	126.5		116.5		159	145	106	5.4	36	32				
63A/4	0~00C	164	118	117	126.5		116.5		159	145	106	5.4	36	32				
160/3	0~00	150	162	173	126.5	44	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

GGLR 400~630A DIMENSIONS

Fuse-Combination Switches



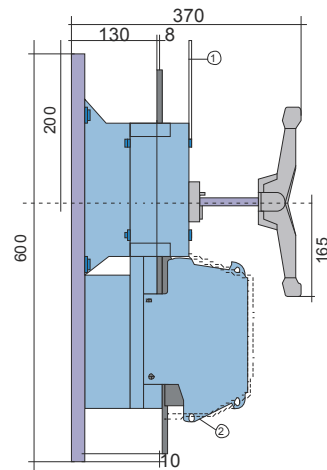
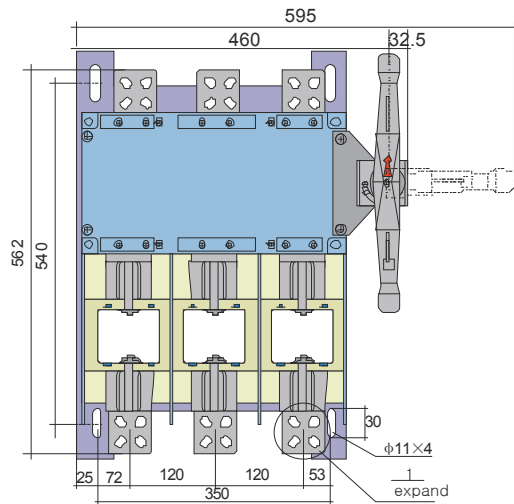
Specification	Size of fuse	External Dimension and Installation Dimension																											
GQR1 GGLR 400~630A		A	A1	B	B1	C	E	H	H1	H2	J	J2	J1	K	M	N	P	R	S	S1	T	V	U	W	φL	Y			
400A/3	NH2	414	285	238	115	307	221	190	71	79	210	70	65	180	32.5	162	65	32	35	43	5	40.5	208	39.5	7	69			
400A/4	NH2	474	345	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	NH3	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	NH3	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			



Specification	Size of fuse	External Dimension and Installation Dimension																											
GQR1 GGLR 400~630A		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	NH2	500	285	238	115	221	190	71	79	210	70	65	180	32.5	119	65	32	30	43	5	40.5	208	39.5	7	69				
400A/4	NH2	560	345	238	115	221	255	71	79	210	70	65	180	32.5	119	65	32	30	43	5	24.5	208	39.5	7	69				
630A/3	NH3	550	345	300	150	268	235	85	85	250	100	76	250	38.5	119	80	50	50	50	7	45.5	260	44.5	9	72				
630A/4	NH3	630	425	300	150	268	315	85	85	250	100	76	250	38.5	119	80	50	50	50	7	34.5	260	44.5	9	72				

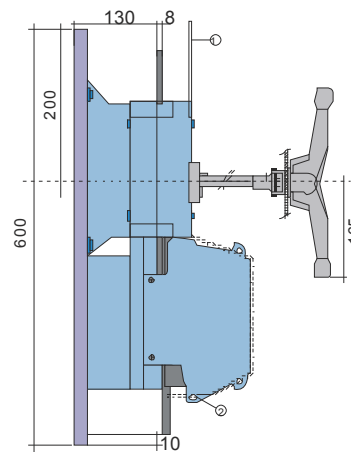
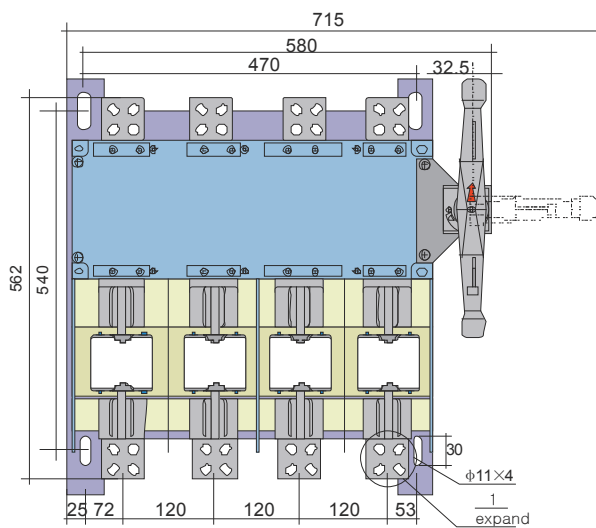
GGLR 1250A DIMENSIONS

Fuse-Combination Switches

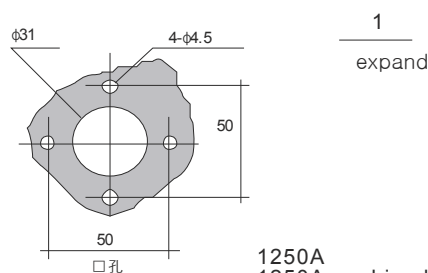


- 1 Top terminal shield
- 2 Bottom terminal shield

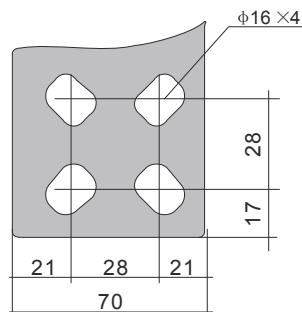
1250A/3
1250A/3 combined type cabinet inside operation



1250A/4
1250A/4 combined type cabinet inside operation



1250A
1250A combined switch



- 1 Top terminal shield
- 2 Bottom terminal shield



Singapore Representative

GTAC Singapore PTE LTD

Block 4004, Depot Lane #01-01,
Singapore 109758

Telephone: (65) 62731363 / 62736343

Fax: 62781126

Email: gtac@starhub.net.sg