



Key Electrical Apparatus &
Components Manufacturer
/Professional Service Provider



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Medium Voltage Switching Devices And Accessories

- Vacuum Circuit Breaker
- Disconnect Switch
- Load Break Switch
- Earthing Switch
- Vacuum Contactor
- Switch Accessories

Our Headquarters

Located in electrical city of China, Green Energy Electrical is a professional exporter, invested by five experienced factories. It has a history of more than ten years in the power and electrical industry, some of which have a history of more than 30 years. We supply power electrical products and OEM/ODM services across LV/MV switchgears and its components & accessories, switching devices, insulation products, copper machining products and EV Charging. All five factories have ISO9001, ISO14001 certificates. The company aims to make green electrical supply more safe and efficient. Meanwhile, we became Official Authorized Distributor of Eaton Electrical from year 2022.



Our Factories



1 Vacuum Circuit Breaker

P1-P30

2 Disconnect Switch

P31-P34

3 Load Break Switch

P35-P52

4 Earthing Switch

P53-P62

5 Vacuum Contactor

P63-P78

6 Switch Accessories

P79-P84

Vacuum Circuit Breaker

Environmental upper isolating circuit breaker switch

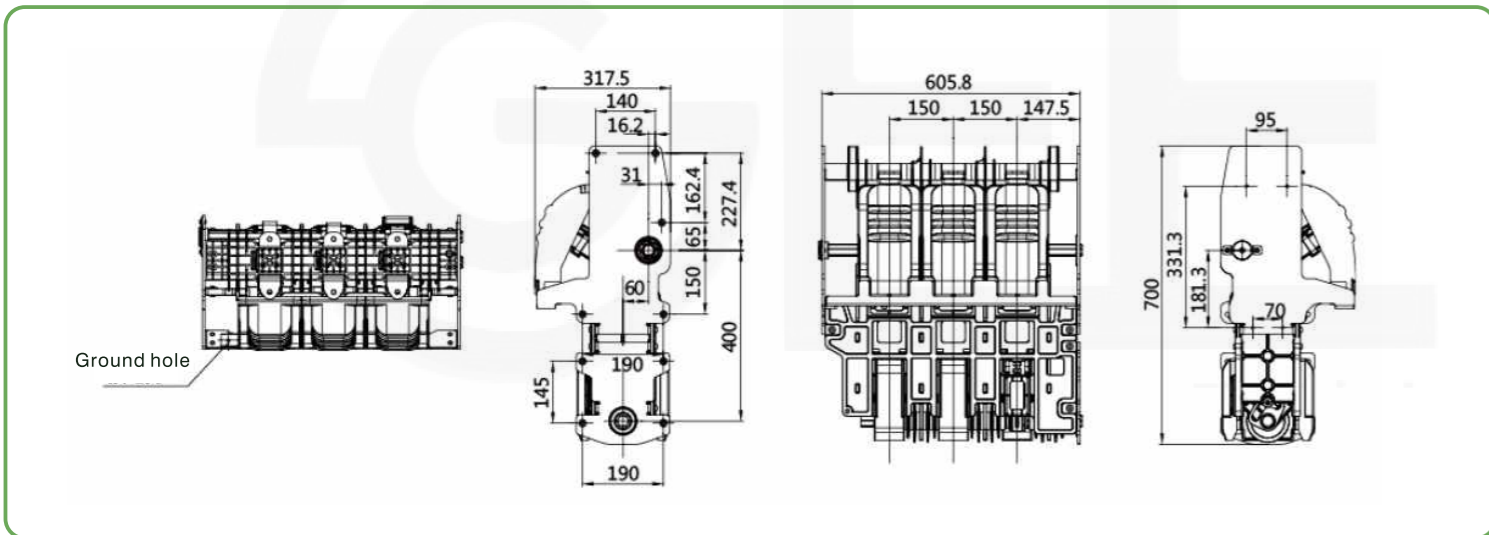
HB 1 S V-12/630/3



Main Technical Parameter

No.	Contents	Technical parameter standard		
1	Rated voltage kV	12	Closing operating voltage V	DC220.110.48.24V
2	Rated current A	630	Breakout operating voltage V	DC220.110.48.24V
3	Rated frequency Hz	50	Classification level according to mechanical life	M2
4	Rated short-circuit breaking current of circuit breaker kA	20/25	Classification level according to the ability to open and close the capacitive current	C2
5	Rated short-circuit closing current kA Peak value	50/63	Rating of auxiliary contacts	2
6	Rated short-time withstand current duration S	4/3	Rated filling pressure of dry air (gauge pressure at 20°C) Mpa	0.02
7	Rated short-time withstand current kA	20/25	Cabinet shell protection grade	IP 4X
8	Rated peak withstand current (kA) peak	50/63	Sealed case protection grade	IP 67
9	Rated short-time frequency withstand voltage (phase-to-phase, phase-to-ground) kV	42		
10	Rated lightning impulse withstand voltage (phase-to-phase, phase-to-ground) kV peak	75		
11	Rated short-time frequency withstand voltage (break) kV	48		
12	Rated Lightning Impulse Withstand Voltage (Break) kV Peak	85		
13	Rated sequence of operation	O-0.3s-CO-180s-CO		

Outline and Installation Dimensions



Environmental down isolating circuit breaker switch

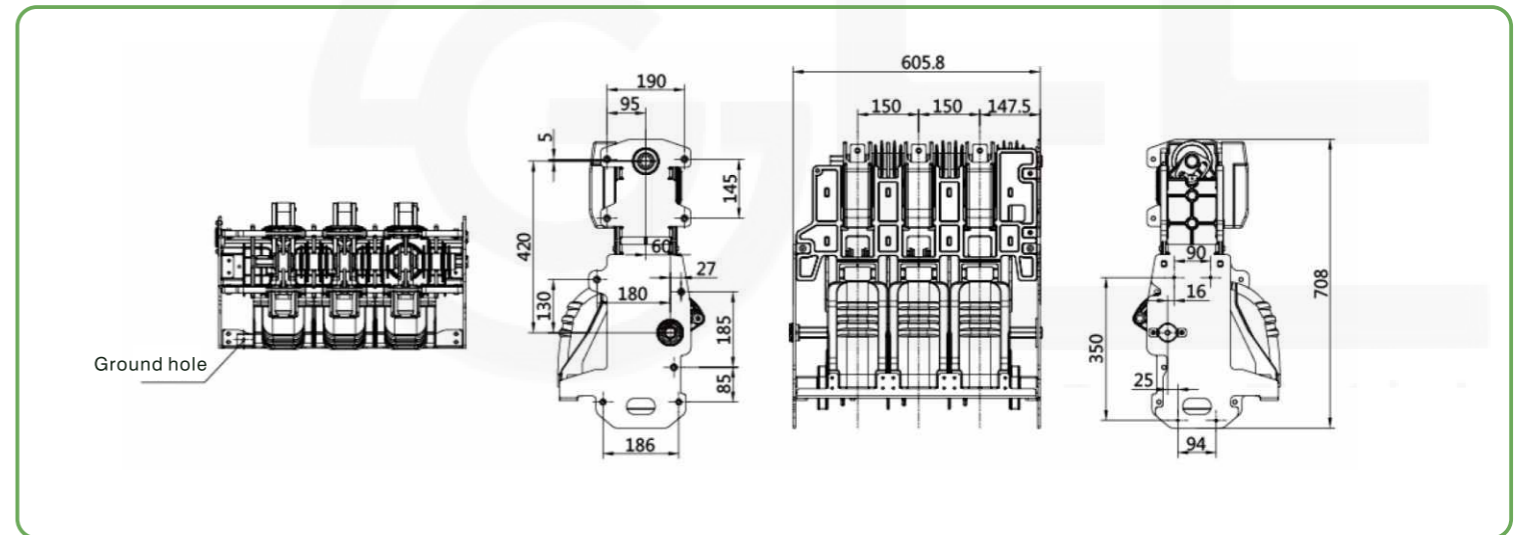
HB 1 X V-12/630/3



Main Technical Parameter

No.	Contents	Technical parameter standard		
1	Rated voltage kV	12	Closing operating voltage V	DC220.110.48.24V
2	Rated current A	630	Breakout operating voltage V	DC220.110.48.24V
3	Rated frequency Hz	50	Classification level according to mechanical life	M2
4	Rated short-circuit breaking current of circuit breaker kA	20/25	Classification level according to the ability to open and close the capacitive current	C2
5	Rated short-circuit closing current kA Peak value	50/63	Rating of auxiliary contacts	2
6	Rated short-time withstand current duration S	4/3	Rated filling pressure of dry air (gauge pressure at 20°C) Mpa	0.02
7	Rated short-time withstand current kA	20/25	Cabinet shell protection grade	IP 4X
8	Rated peak withstand current (kA) peak	50/63	Sealed case protection grade	IP 67
9	Rated short-time frequency withstand voltage (phase-to-phase, phase-to-ground) kV	42		
10	Rated lightning impulse withstand voltage (phase-to-phase, phase-to-ground) kV peak	75		
11	Rated short-time frequency withstand voltage (break) kV	48		
12	Rated Lightning Impulse Withstand Voltage (Break) kV Peak	85		
13	Rated sequence of operation	O-0.3s-CO-180s-CO		

Outline and Installation Dimensions



Vacuum Circuit Breaker

Sealed environmental protection switch

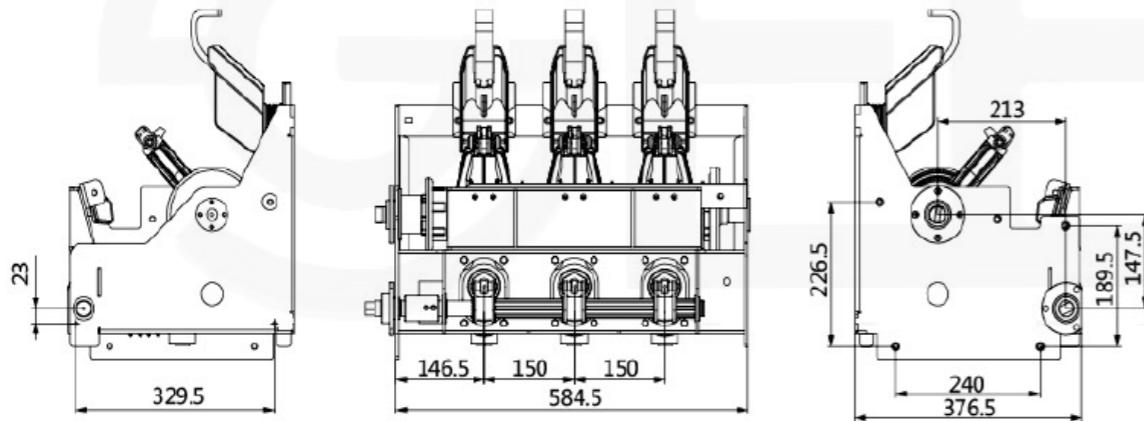
HB 2 S V-12/630/3



Main Technical Parameter

No.	Contents	Technical parameter standard	
1	Rated voltage kV	12	Closing operating voltage V DC220.110.48.24V
2	Rated current A	630	Breakout operating voltage V DC220.110.48.24V
3	Rated frequency Hz	50	Classification level according to mechanical life M2
4	Rated short-circuit breaking current of circuit breaker kA	20/25	Classification level according to the ability to open and close the capacitive current C2
5	Rated short-circuit closing current kA Peak value	50/63	Rating of auxiliary contacts 2
6	Rated short-time withstand current duration S	4/3	Rated filling pressure of dry air (gauge pressure at 20°C) Mpa 0.02
7	Rated short-time withstand current kA	20/25	Cabinet shell protection grade IP 4X
8	Rated peak withstand current (kA) peak	50/63	Sealed case protection grade IP 67
9	Rated short-time frequency withstand voltage (phase-to-phase, phase-to-ground) kV	42	
10	Rated lightning impulse withstand voltage (phase-to-phase, phase-to-ground) kV peak	75	
11	Rated short-time frequency withstand voltage (break) kV	48	
12	Rated Lightning Impulse Withstand Voltage (Break) kV Peak	85	
13	Rated sequence of operation	O-0.3s-CO-180s-CO	

Outline and Installation Dimensions



Circuit Breaker For RMU/GIS
(With down Disconnecter and Earthing Switch)

WL V 12/630/3 X

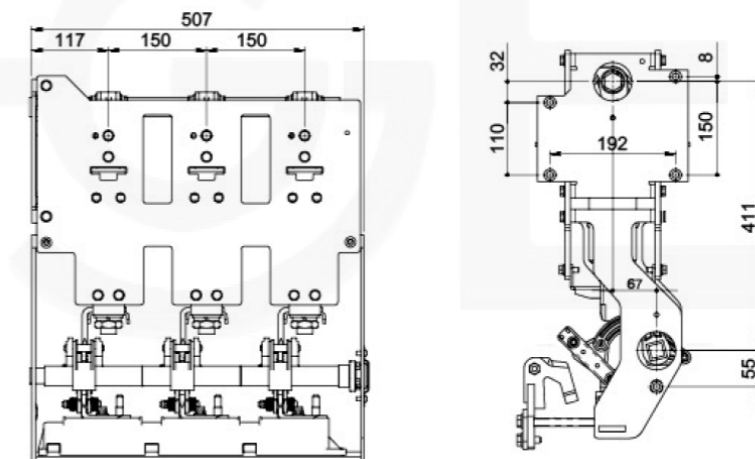


Main Technical Parameter

No.	Contents	units	Technical Parameters Standard
1	Rated frequency	Hz	50
2	Rated current	A	630
3	Rated short-time withstand current	kA	20/25
4	Rated peak withstand current	kA	50/63
5	Rated short-time duration	s	4
6	Rated short-circuit closing current	kA	50
7	Theoretical operations	O-0.3s-CO-180s-CO	

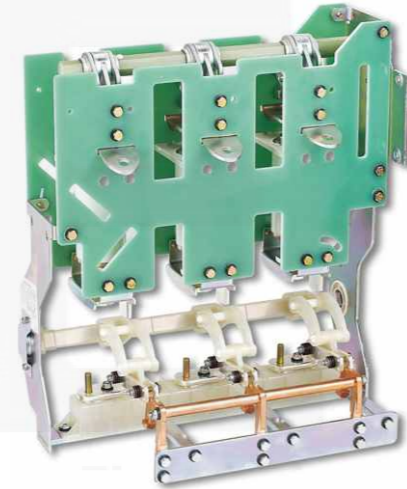
No.	Contents	units	Technical Parameters Standard
1	Main circuit breaker resistance	UΩ	45
2	Overtravel	mm	2-3
3	Opening distance	mm	8-10
4	Bounce	ms	≤2
5	Average speed of gate opening	m/s	1.0-1.4
6	Average speed of closing	m/s	0.6-1.1
7	Split three-phase non-simultaneous	ms	≤2
8	Closing three-phase non-simultaneous	ms	≤2

Outline and Installation Dimensions



Vacuum Circuit Breaker

Circuit Breaker For RMU/GIS
(With down Disconnecter
and Earthing Switch)



WL V 24/630/3 X

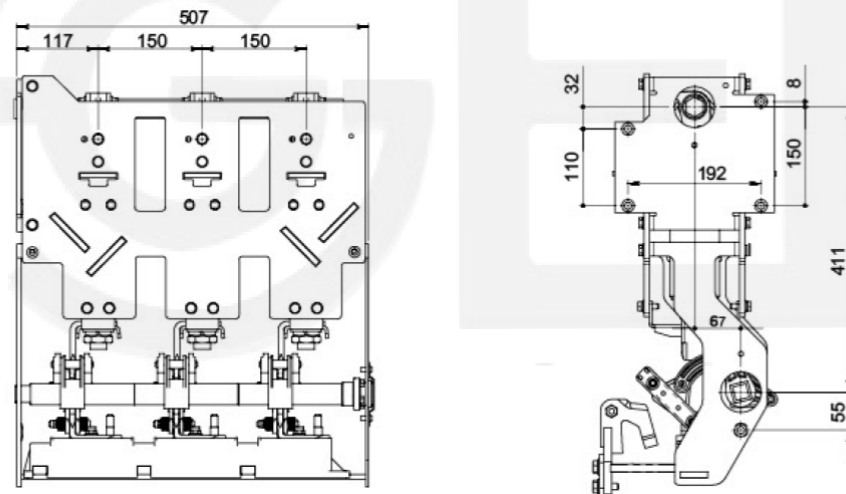
Main Technical Parameter

No.	Contents	units	Technical Parameters Standard
1	Rated frequency	Hz	50
2	Rated current	A	630
3	Rated short-time withstand current	kA	20/25
4	Rated peak withstand current	kA	50/63
5	Rated short-time duration	s	4
6	Rated short-circuit closing current	kA	50
7	Theoretical operations	O-0.3s-CO-180s-CO	

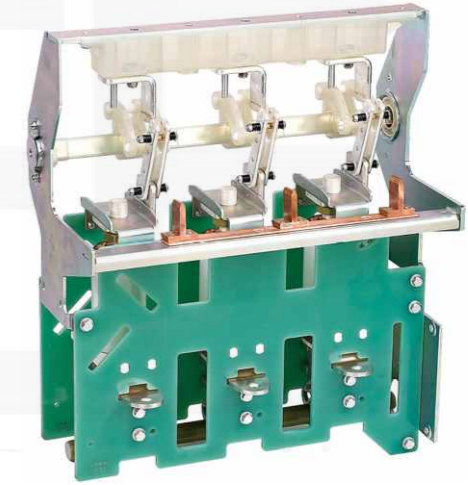
Precautions for environmental conditions of use

- Altitude not exceeding 200m, seismicity not exceeding 8 degrees.
- Ambient temperature of the product is $-40^{\circ}\text{C}\sim+140^{\circ}\text{C}$, relative humidity is not more than 90% on average per day and not more than 90% on average per month.
- Frequent severe vibration of the installation site, obviously affect the performance of the mechanism of water vapour, gas, chemical corrosion deposits, salt spray, dust and dirt and its fire, explosion hazardous installation sites are not suitable for use.

Outline and Installation Dimensions



Circuit Breaker For RMU/GIS
(With upper Disconnecter
and Earthing Switch)



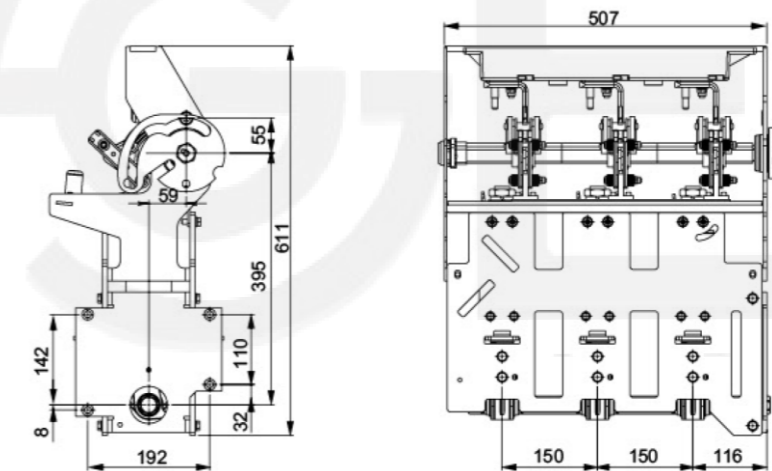
WL V 12/630/3 S

Main Technical Parameter

No.	Contents	units	Technical Parameters Standard
1	Rated frequency	Hz	50
2	Rated current	A	630
3	Rated short-time withstand current	kA	20/25
4	Rated peak withstand current	kA	50/63
5	Rated short-time duration	s	4
6	Rated short-circuit closing current	kA	50
7	Theoretical operations	O-0.3s-CO-180s-CO	

No.	Contents	units	Technical Parameters Standard
1	Main circuit breaker resistance	$\text{U}\Omega$	45
2	Overtravel	mm	2-3
3	Opening distance	mm	8-10
4	Bounce	ms	≤ 2
5	Average speed of gate opening	m/s	1.0-1.4
6	Average speed of closing	m/s	0.6-1.1
7	Split three-phase non-simultaneous	ms	≤ 2
8	Closing three-phase non-simultaneous	ms	≤ 2

Outline and Installation Dimensions



Vacuum Circuit Breaker

Circuit Breaker For GIS



WL V 12/1250/25/3 X(ABB)

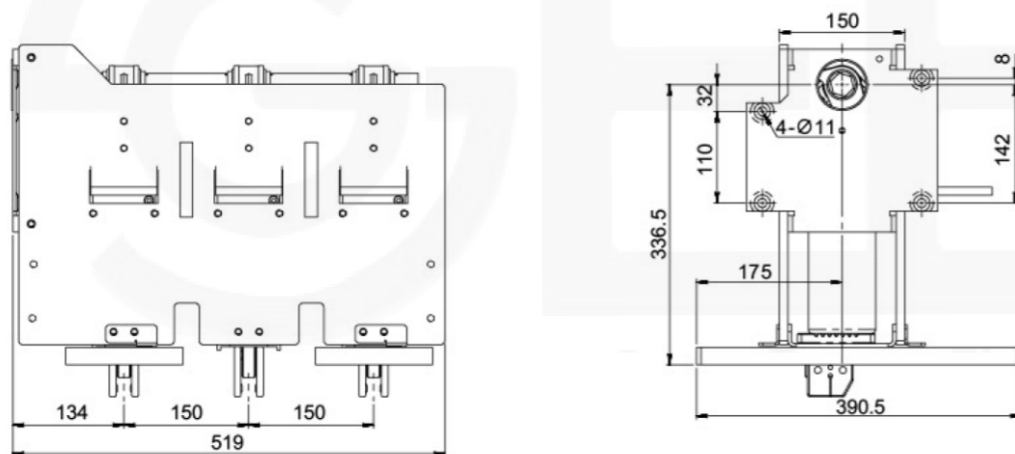
Main Technical Parameter

No.	Contents	units	Technical Parameters Standard
1	Rated frequency	Hz	50
2	Rated current	A	1250
3	Rated short-time withstand current	kA	20/25
4	Rated peak withstand current	kA	50/63
5	Rated short-time duration	s	4
6	Rated short-circuit closing current	kA	50
7	Theoretical operations	O-0.3s-CO-180s-CO	

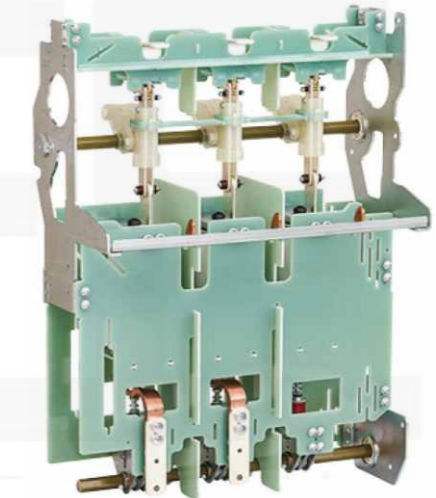
Precautions for environmental conditions of use

- Altitude not exceeding 200m, seismicity not exceeding 8 degrees.
- Ambient temperature of the product is $-40^{\circ}\text{C}\sim+140^{\circ}\text{C}$, relative humidity is not more than 90% on average per day and not more than 90% on average per month.
- Frequent severe vibration of the installation site, obviously affect the performance of the mechanism of water vapour, gas, chemical corrosion deposits, salt spray, dust and dirt and its fire, explosion hazardous installation sites are not suitable for use.

Outline and Installation Dimensions



Circuit Breaker For RMU/GIS
(With upper Disconnecter and Earthing Switch)



WL V 35/630/3 S

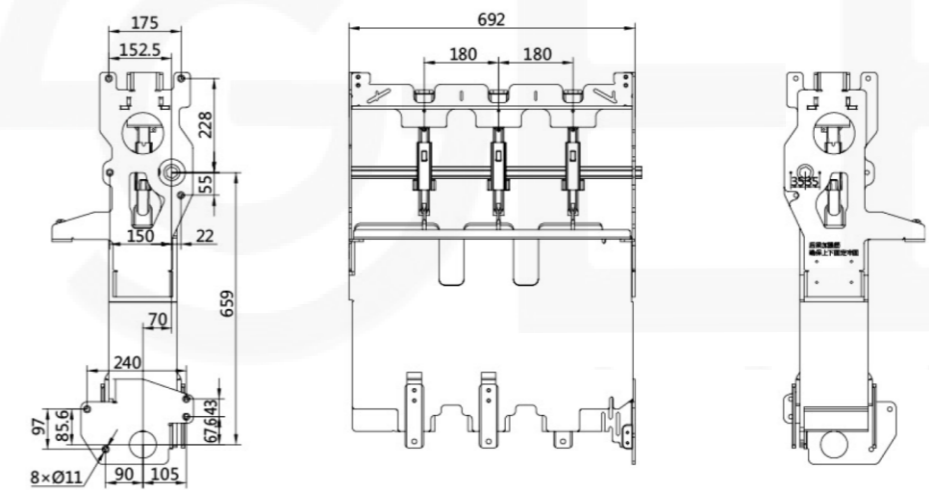
Main Technical Parameter

No.	Contents	units	Technical Parameters Standard
1	Rated voltage	kV	40.5
2	Rated current	A	630
3	Rated frequency	Hz	50
4	Industrial frequency withstand voltage (phase-to-phase to ground)	kV	95
5	Vacuum breaks/Isolation breaks	kV	118
6	Lightning Impact	kV	185/215
7	Rated short-circuit current breaking times	Timrs	30
8	Rated operating cycles	O-0.3s-CO-180s-CO	

Precautions for environmental conditions of use

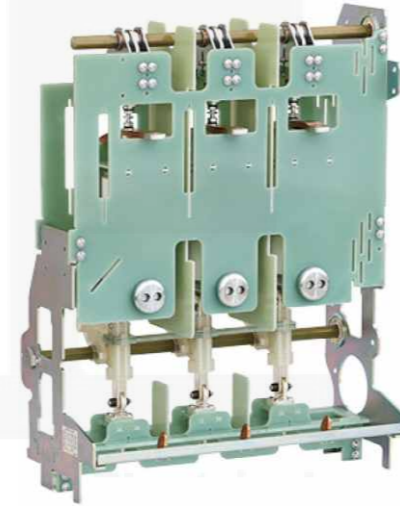
- Altitude not exceeding 200m, seismicity not exceeding 8 degrees.
- Ambient temperature of the product is $-40^{\circ}\text{C}\sim+140^{\circ}\text{C}$, relative humidity is not more than 90% on average per day and not more than 90% on average per month.
- Frequent severe vibration of the installation site, obviously affect the performance of the mechanism of water vapour, gas, chemical corrosion deposits, salt spray, dust and dirt and its fire, explosion hazardous installation sites are not suitable for use.

Outline and Installation Dimensions

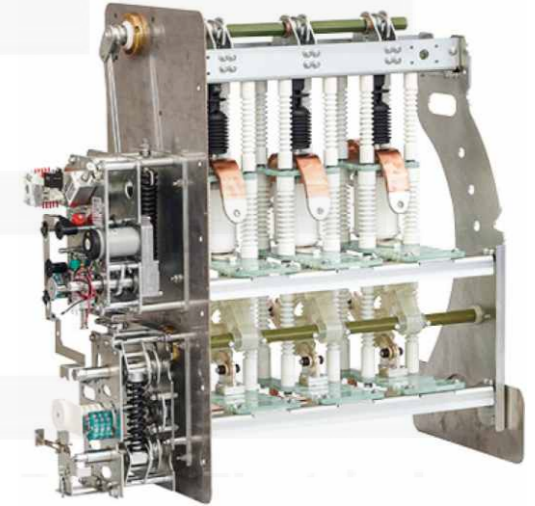


Vacuum Circuit Breaker

Circuit Breaker For RMU/GIS
(With down Disconnecter
and Earthing Switch)



Air insulated circuit breaker
with disconnecter



CK1 V 12/630/3 X

Main Technical Parameter

Main Technical Parameter

No.	Contents	units	Technical Parameters Standard
1	Rated voltage	kV	40.5
2	Rated current	A	630
3	Rated frequency	Hz	50
4	Industrial frequency withstand voltage (phase-to-phase to ground)	kV	95
5	Vacuum breaks/Isolation breaks	kV	118
6	Lightning Impact	kV	185/215
7	Rated short-circuit current breaking times	Timrs	30
8	Rated operating cycles		O-0.3s-CO-180s-CO

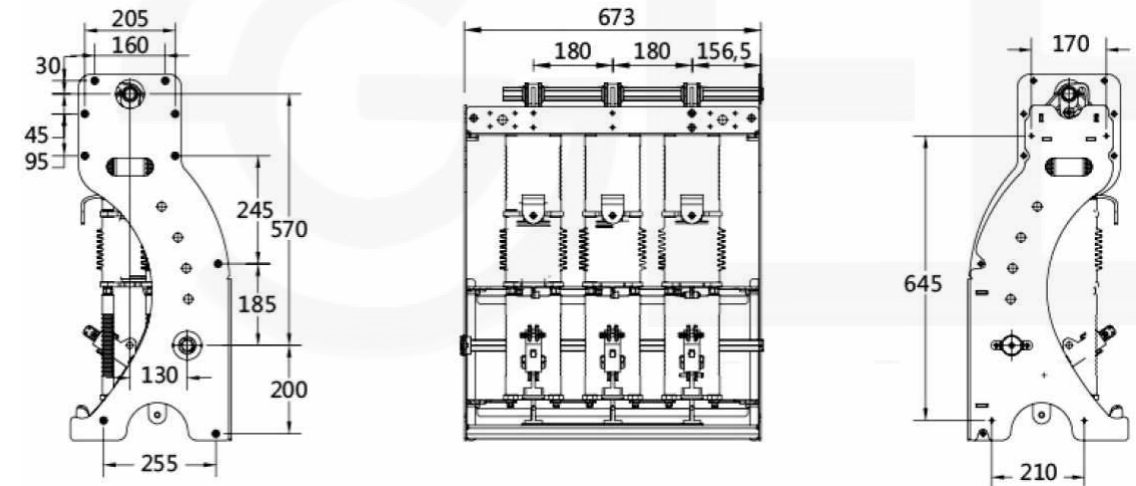
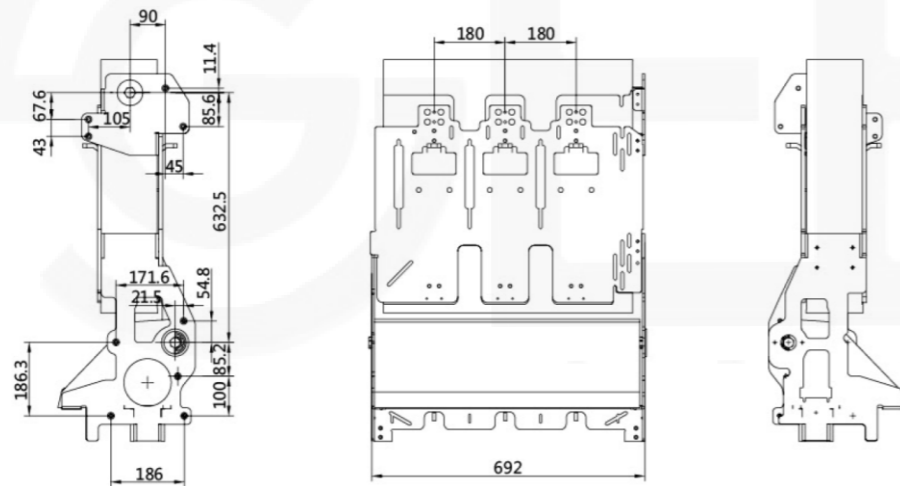
Precautions for environmental conditions of use

- Altitude not exceeding 200m, seismicity not exceeding 8 degrees.
- Ambient temperature of the product is $-40^{\circ}\text{C}\sim+140^{\circ}\text{C}$, relative humidity is not more than 90% on average per day and not more than 90% on average per month.
- Frequent severe vibration of the installation site, obviously affect the performance of the mechanism of water vapour, gas, chemical corrosion deposits, salt spray, dust and dirt and its fire, explosion hazardous installation sites are not suitable for use.

Contents	Parameter	Contents	Parameter
Rated voltage kV	12	Cabinet shell protection grade	IP 4X
Rated current A	630	Sealed case protection grade	IP 65 IP 67
Rated frequency Hz	50	Rated sequence of operation	O-0.3s-CO-180s-CO
Rated short-circuit breaking current of circuit breaker kA	20/25	Rated short-time frequency withstand voltage (phase-to-phase, phase-to-ground) kV	42
Rated short-circuit closing current kA Peak value	50/63		
Rated short-time withstand current duration S	4/3	Rated lightning impulse withstand voltage (phase-to-phase, phase-to-ground) kV peak	75
Rated short-time withstand current kA	20/25		
Rated peak withstand current (kA) peak	50/63	Rated short-time frequency withstand voltage (break) kV	48
Rated Lightning Impulse Withstand Voltage (Break) kV Peak	85		

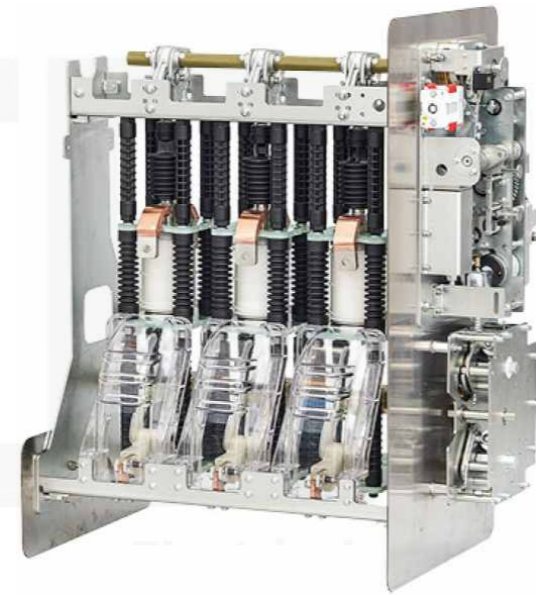
Outline and Installation Dimensions

Outline and Installation Dimensions



Vacuum Circuit Breaker

Air insulated circuit breaker with disconnector



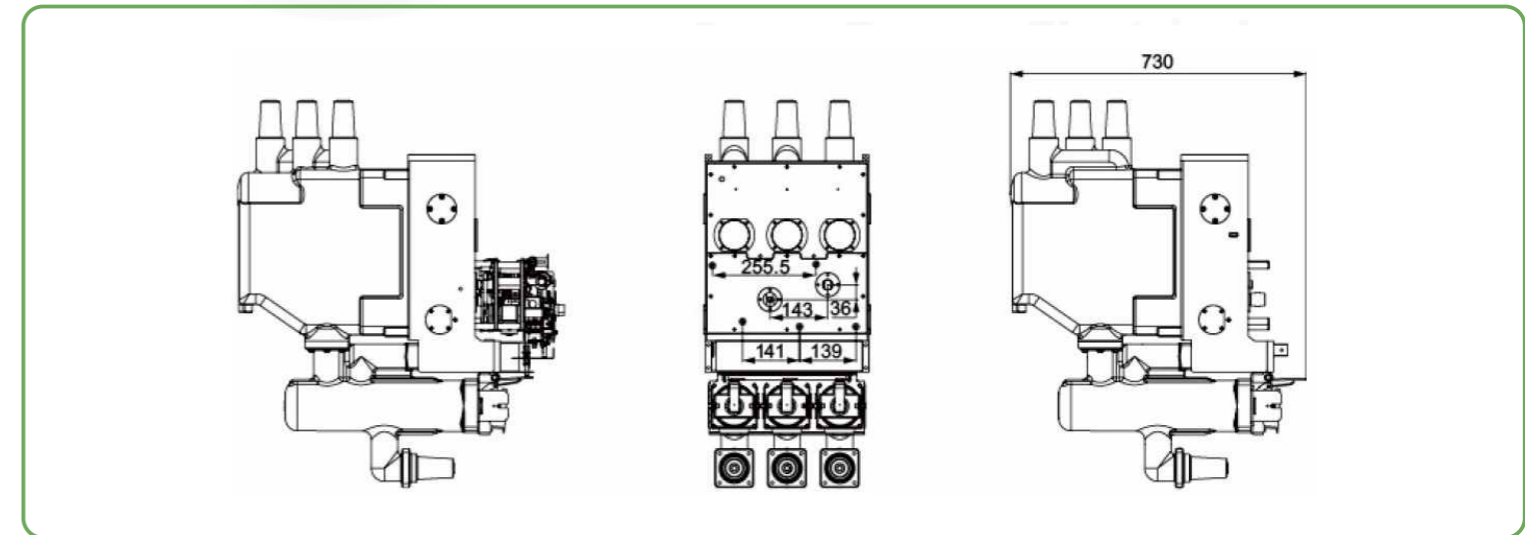
Solid-insulated circuit breaker/
Load break switch
With Operation Mechanism



CK2 V 12/630/3 X

GFT F 12/125

Outline and Installation Dimensions

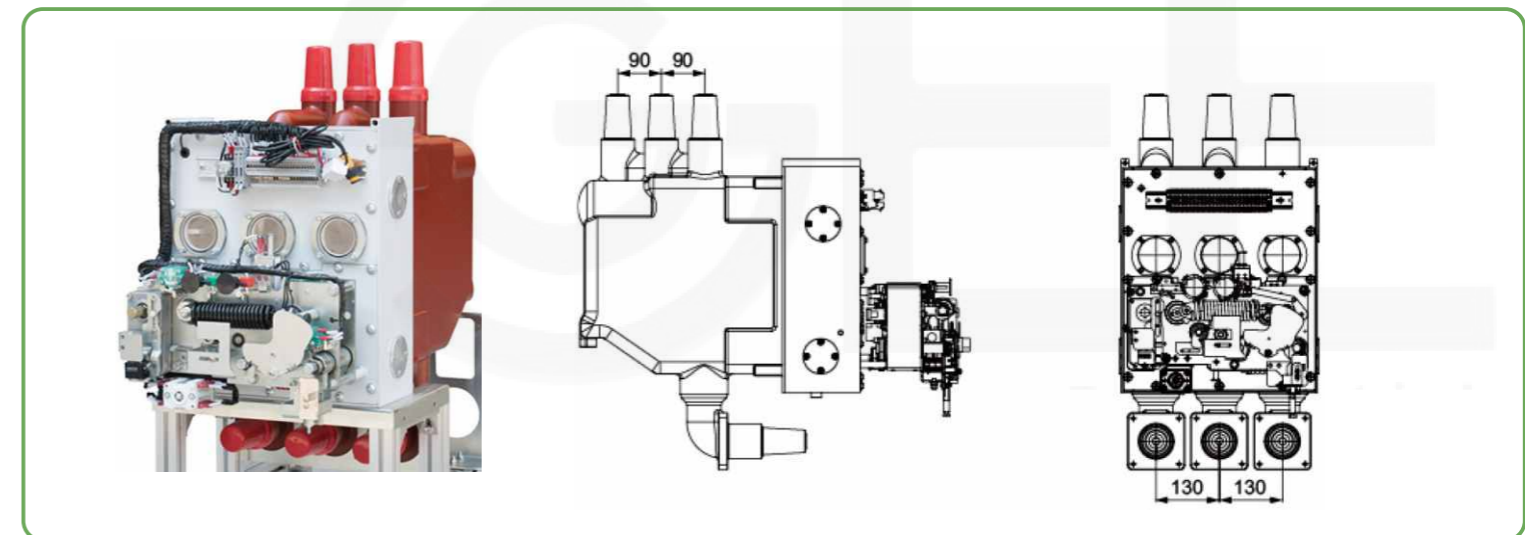


Main Technical Parameter

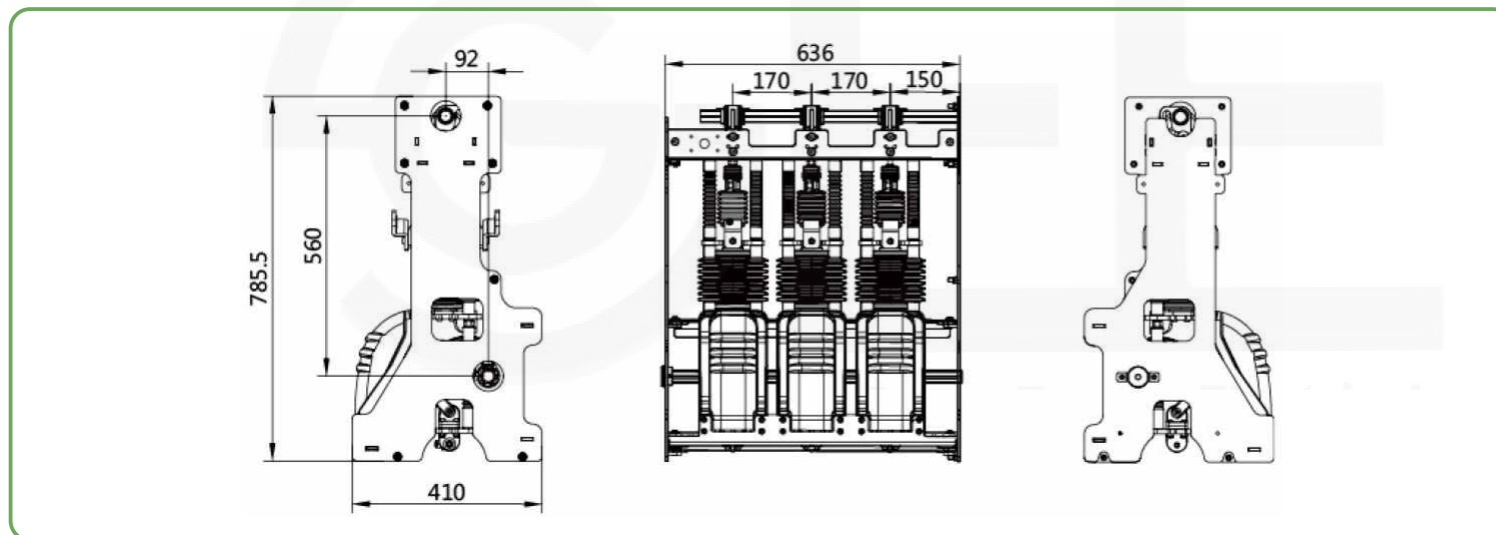
Contents	Parameter	Contents	Parameter
Rated voltage kV	12	Cabinet shell protection grade	IP 4X
Rated current A	630	Sealed case protection grade	IP 65 IP 67
Rated frequency Hz	50	Rated sequence of operation	0-0.3s-CO-180s-CO
Rated short-circuit breaking current of circuit breaker kA	20/25	Rated short-time frequency withstand voltage (phase-to-phase, phase-to-ground) kV	42
Rated short-circuit closing current kA Peak value	50/63	Rated lightning impulse withstand voltage (phase-to-phase, phase-to-ground) kV peak	75
Rated short-time withstand current duration S	4/3	Rated short-time frequency withstand voltage (break) kV	48
Rated short-time withstand current kA	20/25		
Rated peak withstand current (kA) peak	50/63		
Rated Lightning Impulse Withstand Voltage (Break) kV Peak	85		

GFT V 12/630/3

Outline and Installation Dimensions



Outline and Installation Dimensions

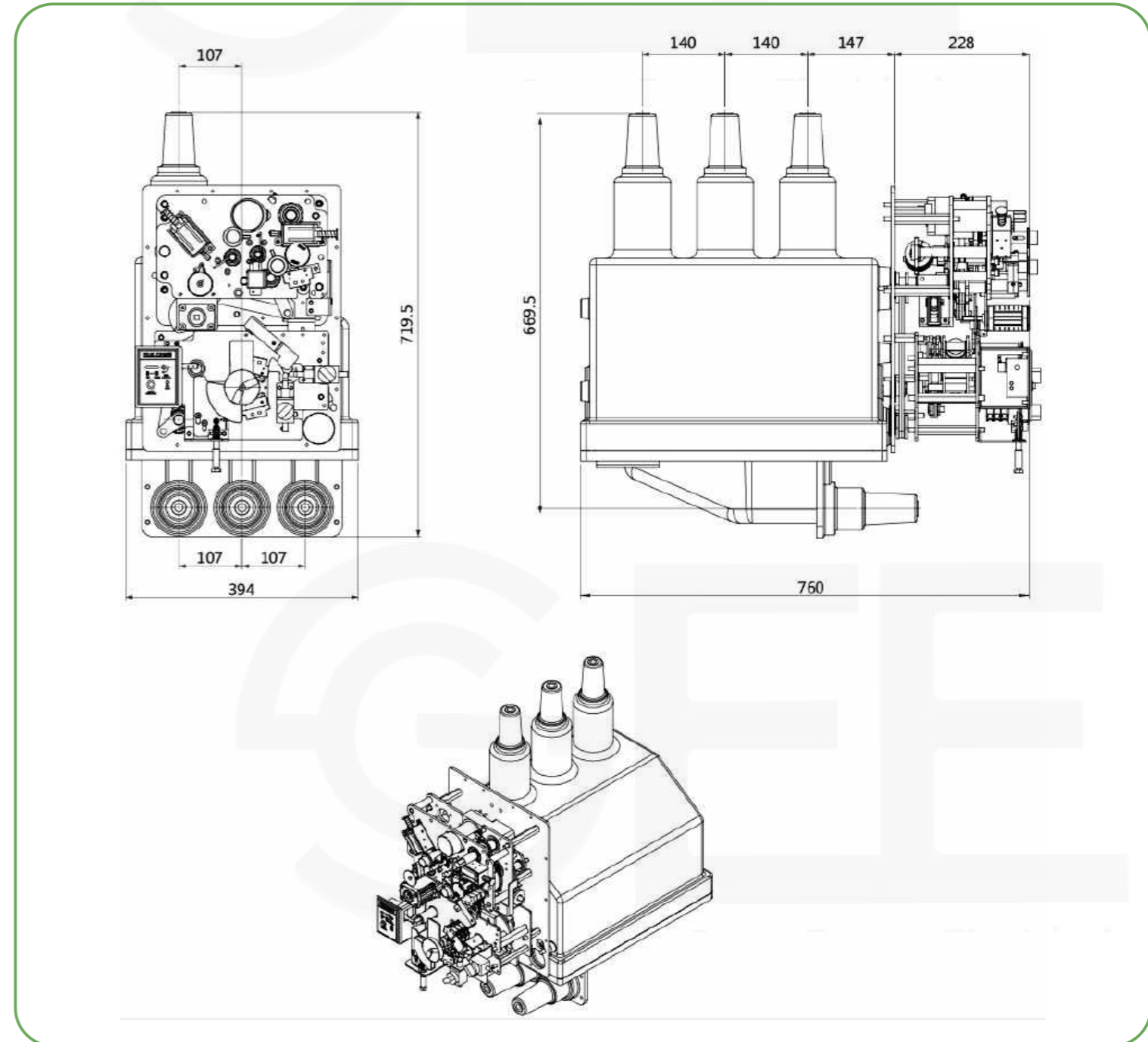


Vacuum Circuit Breaker

Solid-insulated circuit breaker/
Load break switch/
Operation Mechanism

GYT V 12/□/3

Outline and Installation Dimensions



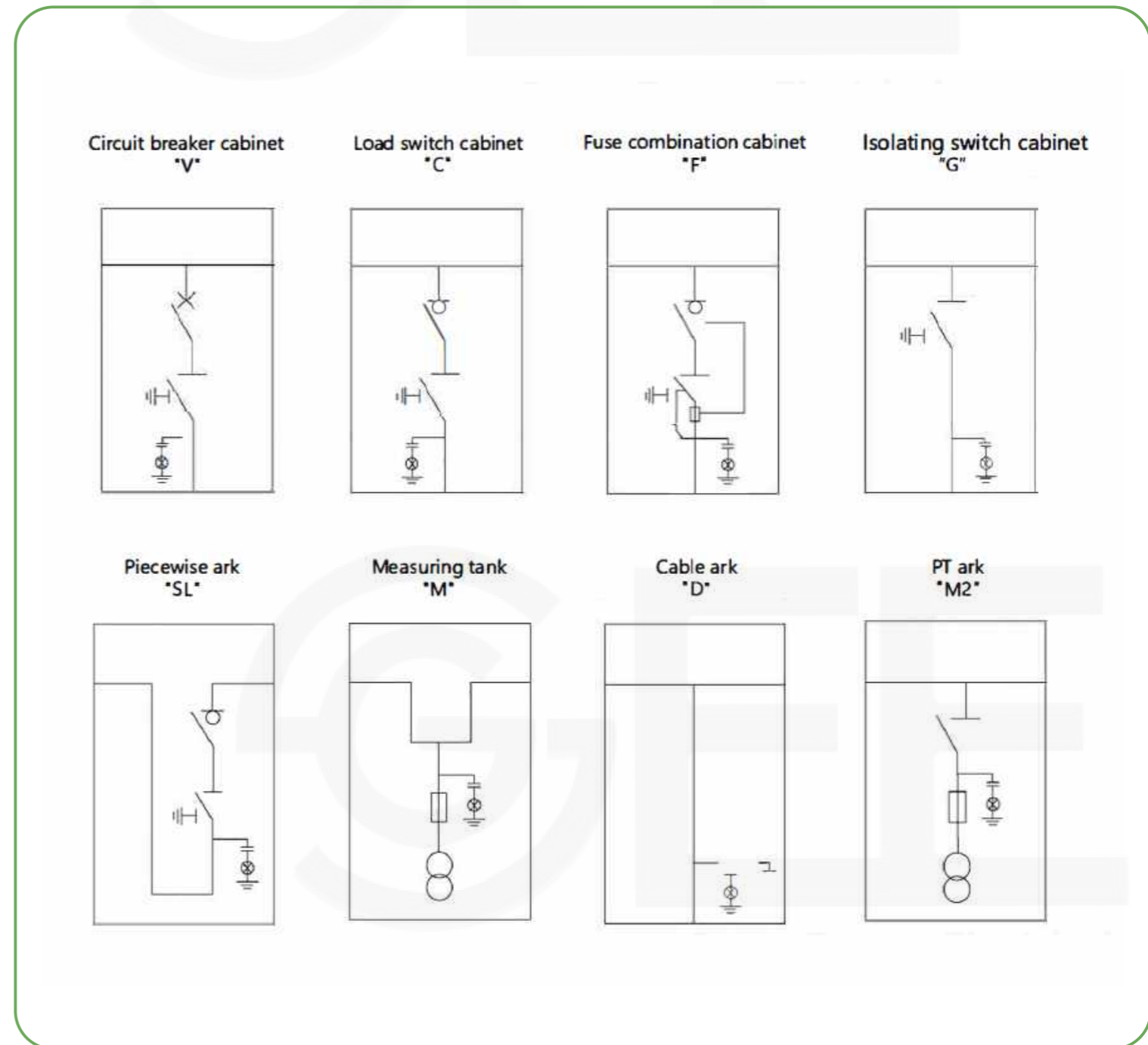
Vacuum Circuit Breaker

Solid insulation ring net cabinet movement

Main Technical Parameter

Contents		units	Circuit breaker unit	load switch unit	fuse combination electrical unit
Rated voltage		kV	12	12	12
Rated frequency		Hz	50	50	50
Rated current		A	630/1250	630/1250	
Rated insulation level	Industrial frequency withstand voltage (phase-to-phase and phase-to-ground)	kV	42	42	42
	Industrial frequency withstand voltage (vacuum disconnection, isolation disconnection)		48	48	48
	Industrial frequency withstand voltage (control and auxiliary circuits)		2	2	2
	Lightning impulse withstand voltage (phase-to-phase and phase-to-ground)		75	75	75
	Lightning impulse withstand voltage (vacuum break, isolation break)		85	85	85
Rated short-time withstand voltage current		kA	20(25)/4s	20(25)/4s	
Rated peak withstand current		kA	50(63)	50(63)	
Rated short-circuit closing current		kA	50(63)	50(63)	
Rated short-circuit opening current		kA	50(25)	50(25)	
Rated transfer current		A			1700
Rated active load opening current		A			
Rated Closed Loop Breaking Current		A	630	630	
Internal arc-firing test AFLR		kA/s	50(25)/0.5s	50(25)/0.5s	
Partial discharge (1.2Ur)		PC	≤10	≤10	
Protection rating (cabinet)			IP4X	IP4X	IP4X
Main circuit resistance		μ Ω	≤120	≤120	
Mechanical life	Circuit breaker/load switch	Time	10000	10000	10000
	Disconnecting/Earthing Switch		3000	3000	3000

Design options :



Vacuum Circuit Breaker

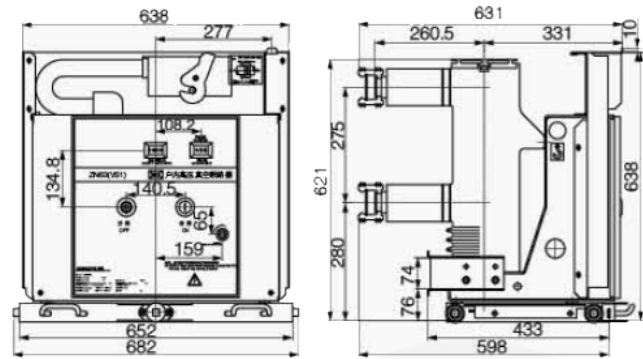
Indoor vacuum circuit breaker

ZN63-VS1-12

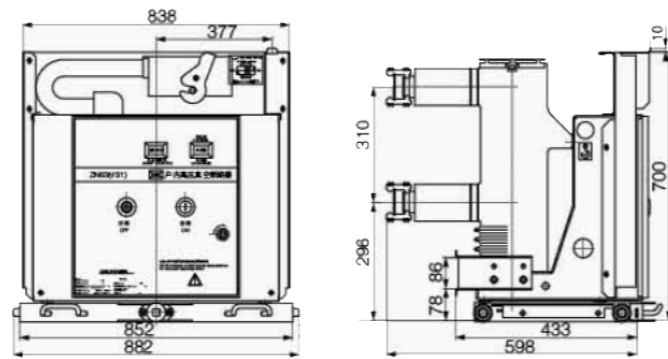


Outline and Installation Dimensions

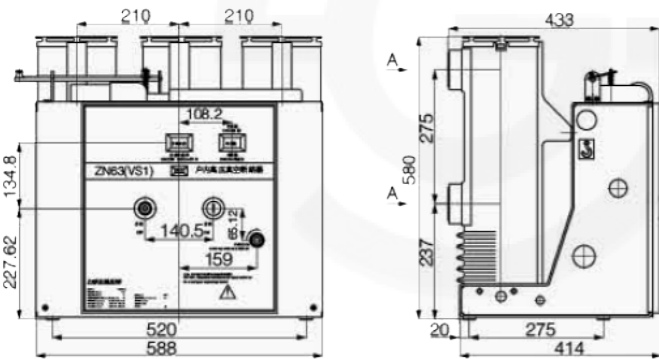
Handcart Circuit Breaker 800



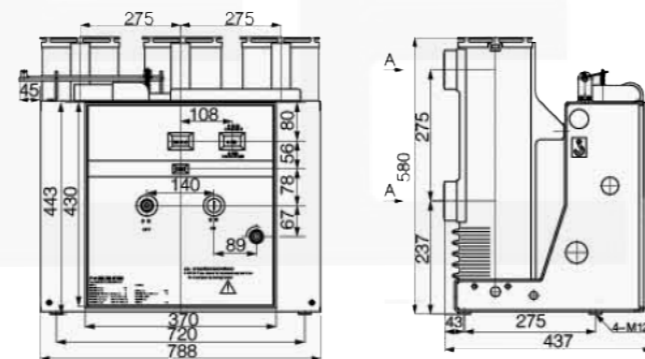
Handcart Circuit Breaker 1000



Fixed Circuit Breaker 800



Fixed Circuit Breaker 1000



Main Technical Parameter

Contents		Units	Technical Parameters Standard		
Rated voltage		kV	12		
Maximum working voltage		kV	12		
Rated current		A	630	1250	1600
Rated short-circuit breaking current		kA	20	25	31.5
Rated short-circuit closing current		kA	50	63	80
Rated peak withstand current		kA	50	63	80
4s rated short-circuit withstand current		kA	20	25	31.5
Rated insulation level	Industrial frequency withstand voltage (before and after rated opening)	kA	42(48)		
	Impulse withstand voltage (before and after rated opening)		75(85)		
Rated operating sequence			O-0.3s-CO-180s-Co		
Mechanical life		time	10000		
Rated short-circuit breaking current breaking times		time	50		
Rated closing voltage of operating mechanism (DC)		V	110 220		
Rated breaking voltage of operating mechanism (DC)		V	110 220		
Contact opening distance		mm	11±1		
Over-travelling (contact spring compression length)		mm	3.5±0.5		
Three-phase split, closing bounce time		ms	≤2		
Contact closing bounce time		ms	≤2		
Average splitting speed		m/s	0.9-1.2		
Average closing speed		m/s	0.5-0.8		
Breaking time	At maximum operating voltage	s	≤0.05		
	Minimum operating voltage	s	≤0.08		
Closing time		s	0.1		
Main circuit resistance of each phase		μ Ω	60	50	

Vacuum Circuit Breaker

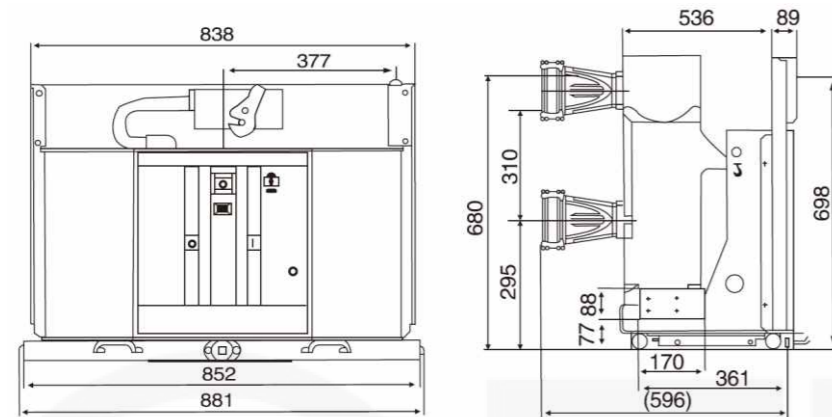
Indoor vacuum circuit breaker

ZN63A-VS1-12

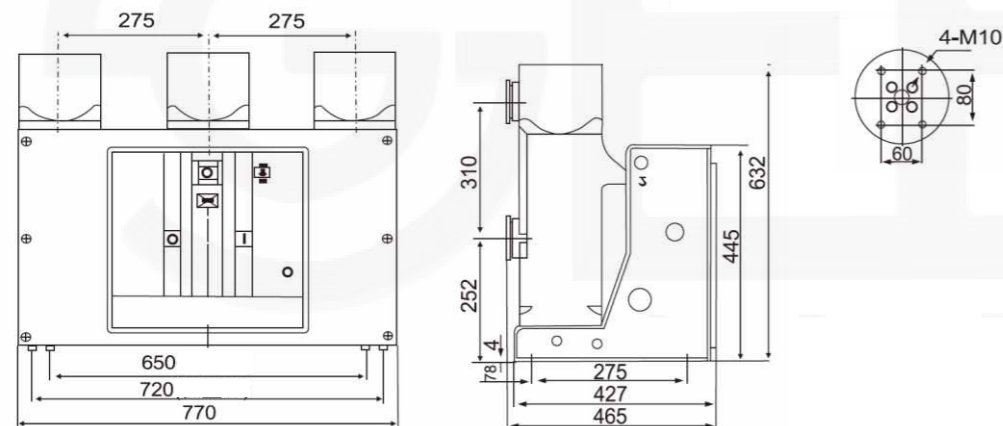


Outline and Installation Dimensions

Handcart Circuit Breaker 1000



Fixed Circuit Breaker 1000



Main Technical Parameter

Contents		Units	Parameters			
Rated Voltage		kV	12			
Rated insulation level	Lightning impulse withstand voltage (peak)	kA	75			
	1min industrial frequency withstand voltage		42			
Rated short-circuit breaking current		kA	20	25	31.5	40
Rated current		A	630 1250	630 1250 1600 2000 2500 3150	1250 1600 2000 2500 3150 4000	
Rated thermal stability current (rms)		kA	20	25	31.5	40
Rated dynamic stability current (peak value)			63	80	100	
Rated short-circuit closing current (peak)			50	63	80	100
Rated short-circuit current breaking times		time	50			
Secondary circuit frequency withstand voltage (1min)		V	2000			
Rated operation sequence			O-0.3s-CO-180s-CO O-180s-CO-180s-CO(40kA)			
Rated thermal stabilisation time		s	4			
Rated single/back-to-back capacitor bank opening current		A	630/400 800/400(40kA)			
Mechanical life		time	10000			

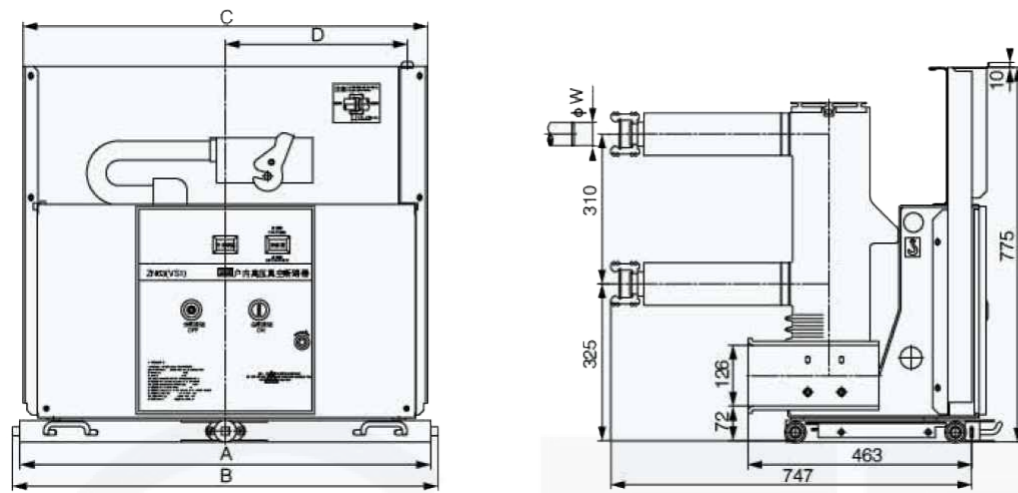
Vacuum Circuit Breaker

Indoor vacuum circuit breaker

ZN63-VS1-24



Outline and Installation Dimensions



Rated Voltage	Rated point breaking current	Phase Distance	A	B	C	D	W
630A	25kA	210	652	682	638	277	φ35
1250A	31.5kA						φ49
1600A	40kA	275	852	882	838	377	φ55

Main Technical Parameter

Contents	Units	Parameters		
Rated voltage	kV	24		
Rated short-time frequency withstand voltage (1min)		65/79		
Rated lightning impulse withstand voltage (peak)		125/145		
Rated frequency	Hz	50		
Rated current	A	630 1250	630 1250 1600 2000 2500 3150	
Rated short-circuit breaking current	kA	20/25	31.5	40
Rated short-circuit withstand time		20/25	31.5	40
Rated short-circuit duration	s	4		
Rated peak withstand current	kA	50/63	80	100
Rated short-circuit closing current		50/63	80	100
Secondary circuit frequency withstand voltage (1min)	V	2000		
Rated single/back-to-back capacitor bank opening current	A	630/400 (40kA 800/400)		
Rated capacitor bank opening and closing inrush current	kA	12.5 (Frequency ≤ 1000Hz)		
Mechanical life	time	10000		
Rated current breaking times (electrical life)		10000		
Rated short-circuit current breaking times		50 (40kA ≤ 30)		
Accumulated thickness of movable and static contacts allowed to wear	mm	2		
Energy storage time	s	≤10		
Contact opening distance	mm	13±1		
Over travelling		3.5±0.5		
Contact closing bounce time	ms	≤2		
Three-phase switching and closing non-simultaneity		≤2		
Average splitting speed (contact separation-8mm)	m/s	0.9-1.2		
Average closing speed (8mm - contact closure)		0.5-0.8		
Resistance of main electric circuit	μ Ω	≤50(630A)≤45(1250A)≤35(1600-2000A)≤25(2500A)		
Rated operation sequence		O-0.3s-CO-180s-CO		

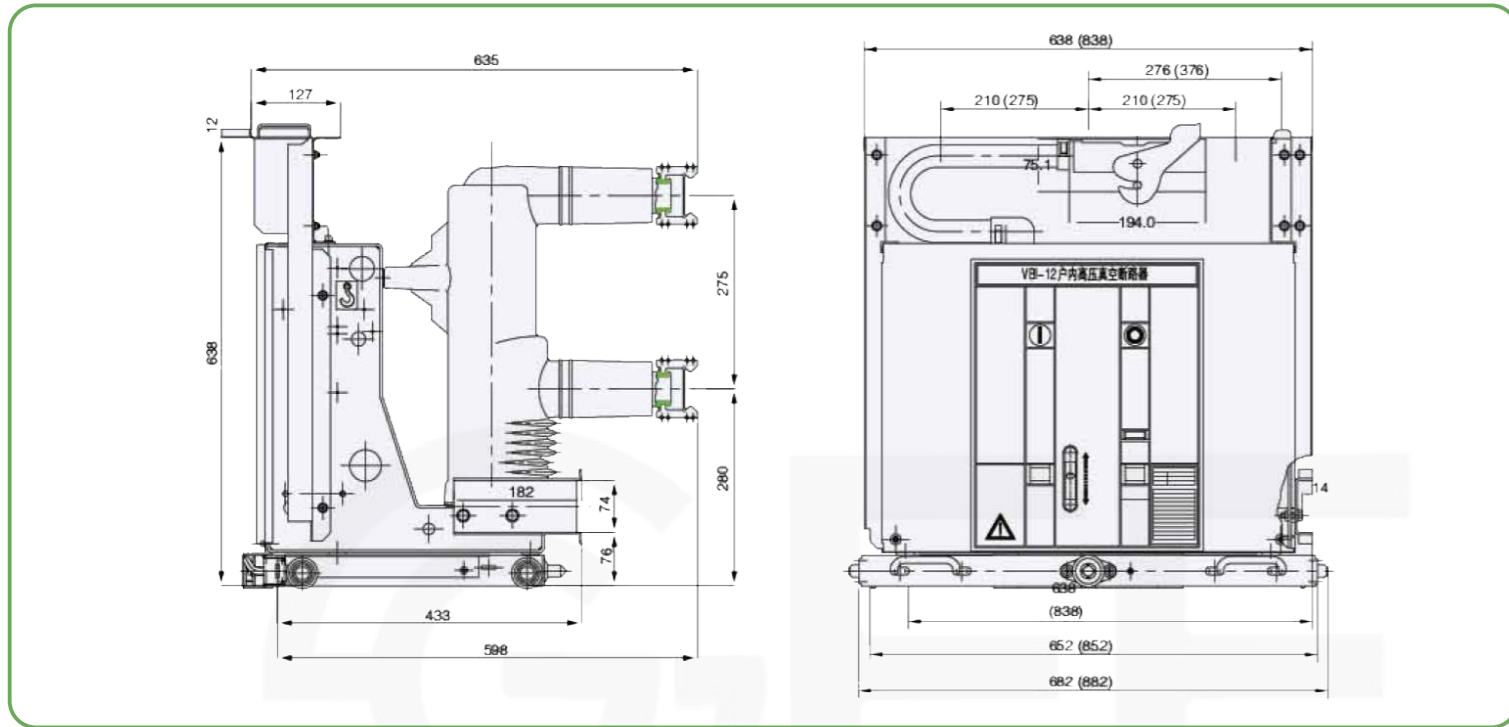
Vacuum Circuit Breaker

Indoor vacuum circuit breaker

VBI-12



Outline and Installation Dimensions



VBI-12kV series of indoor high-voltage vacuum circuit breakers meet the requirements of GB1984 "AC High-Voltage Circuit Breakers", DL/T403 "12-40.5kV Indoor AC High-Voltage Circuit Breakers Ordering Technical Conditions" and IEC60694, IEC6227-100 and other related standards.

Note: When the sealed pole of vacuum interrupter room of this model is replaced by the installation method of ordinary insulating cylinder, the model is VSI-12.

Main Technical Parameter

Contents		Units	Technical Parameters Standard		
Rated voltage		kV	12		
Maximum working voltage		kV	12		
Rated current		A	630	1250	1600
Rated short-circuit breaking current		kA	20	25	31.5
Rated short-circuit closing current		kA	50	63	80
Rated peak withstand current		kA	50	63	80
4s rated short-circuit withstand current		kA	20	25	31.5
Rated insulation level	Industrial frequency withstand voltage (before and after rated opening)	kA	42(48)		
	Impulse withstand voltage (before and after rated opening)		75(85)		
Rated operating sequence			O-0.3s-CO-180s-Co		
Mechanical life		time	10000		
Rated short-circuit breaking current breaking times		time	50		
Rated closing voltage of operating mechanism (DC)		V	110 220		
Rated breaking voltage of operating mechanism (DC)		V	110 220		
Contact opening distance		mm	11±1		
Over-travelling (contact spring compression length)		mm	3.5±0.5		
Three-phase split, closing bounce time		ms	≤2		
Contact closing bounce time		ms	≤2		
Average splitting speed		m/s	0.9-1.2		
Average closing speed		m/s	0.5-0.8		
Breaking time	At maximum operating voltage	s	≤0.05		
	Minimum operating voltage	s	≤0.08		
Closing time		s	0.1		
Main circuit resistance of each phase		μΩ	60	50	

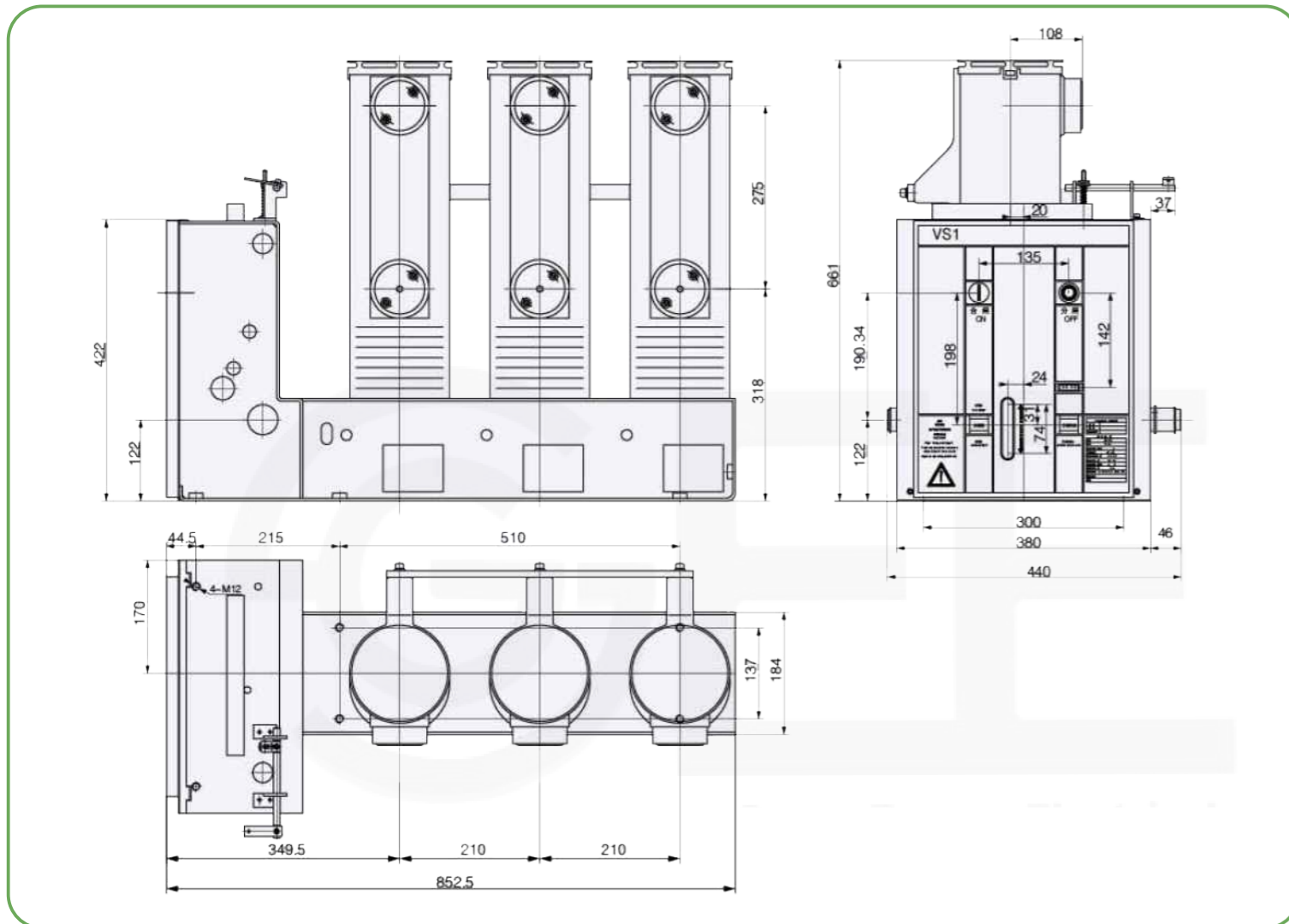
Vacuum Circuit Breaker

Side mounted indoor vacuum circuit breaker

VBI-S-12



Outline and Installation Dimensions



Main Technical Parameter

Contents		Units	Technical Parameters Standard		
Rated voltage		kV	12		
Maximum working voltage		kV	12		
Rated current		A	630	1250	1600
Rated short-circuit breaking current		kA	20	25	31.5
Rated short-circuit closing current		kA	50	63	80
Rated peak withstand current		kA	50	63	80
4s rated short-circuit withstand current		kA	20	25	31.5
Rated insulation level	Industrial frequency withstand voltage (before and after rated opening)	kA	42(48)		
	Impulse withstand voltage (before and after rated opening)		75(85)		
Rated operating sequence			O-0.3s-CO-180s-Co		
Mechanical life		time	10000		
Rated short-circuit breaking current breaking times		time	50		
Rated closing voltage of operating mechanism (DC)		V	110 220		
Rated breaking voltage of operating mechanism (DC)		V	110 220		
Contact opening distance		mm	11±1		
Over-travelling (contact spring compression length)		mm	3.5±0.5		
Three-phase split, closing bounce time		ms	≤2		
Contact closing bounce time		ms	≤2		
Average splitting speed		m/s	0.9-1.2		
Average closing speed		m/s	0.5-0.8		
Breaking time	At maximum operating voltage	s	≤0.05		
	Minimum operating voltage	s	≤0.08		
Closing time		s	0.1		
Main circuit resistance of each phase		μΩ	60	50	

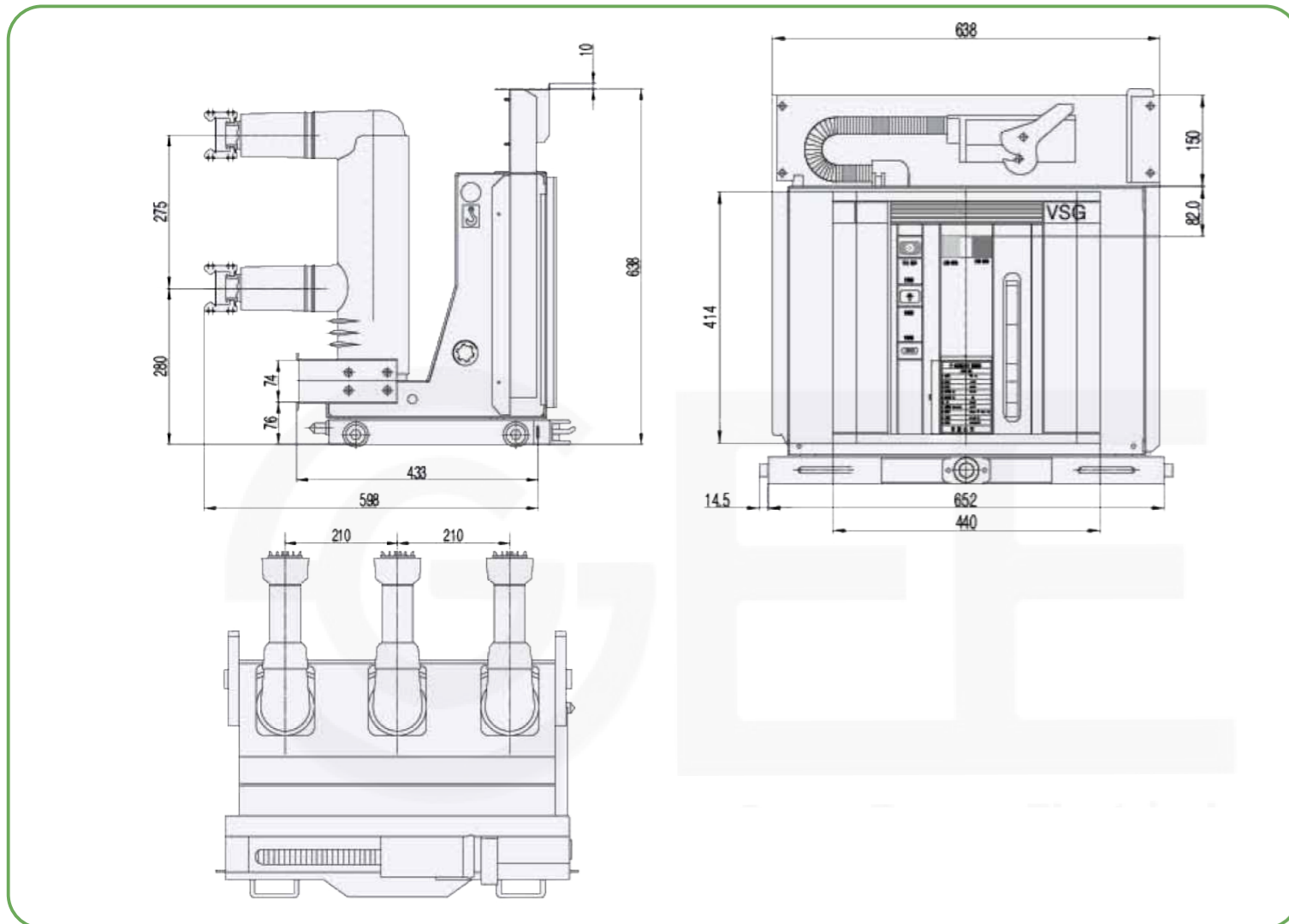
Vacuum Circuit Breaker

Indoor vacuum circuit breaker

VSG-12



Outline and Installation Dimensions



Main Technical Parameter

Contents	Units	Parameters		
Rated voltage	kV	24		
Rated short-time frequency withstand voltage (1min)		65/79		
Rated lightning impulse withstand voltage (peak)		125/145		
Rated frequency	Hz	50		
Rated current	A	630 1250	630 1250 1600 2000 2500 3150	
Rated short-circuit breaking current	kA	20/25	31.5	40
Rated short-circuit withstand time		20/25	31.5	40
Rated short-circuit duration	s	4		
Rated peak withstand current	kA	50/63	80	100
Rated short-circuit closing current		50/63	80	100
Secondary circuit frequency withstand voltage (1min)	V	2000		
Rated single/back-to-back capacitor bank opening current	A	630/400 (40kA 800/400)		
Rated capacitor bank opening and closing inrush current	kA	12.5 (Frequency ≤ 1000Hz)		
Mechanical life	time	10000		
Rated current breaking times (electrical life)		10000		
Rated short-circuit current breaking times		50 (40kA ≤ 30)		
Accumulated thickness of movable and static contacts allowed to wear	mm	2		
Energy storage time	s	≤10		
Contact opening distance	mm	13±1		
Over travelling		3.5±0.5		
Contact closing bounce time	ms	≤2		
Three-phase switching and closing non-simultaneity		≤2		
Average splitting speed (contact separation-8mm)	m/s	0.9-1.2		
Average closing speed (8mm - contact closure)		0.5-0.8		
Resistance of main electric circuit	μ Ω	≤50(630A)≤45(1250A)≤35(1600-2000A)≤25(2500A)		
Rated operation sequence		O-0.3s-CO-180s-CO		

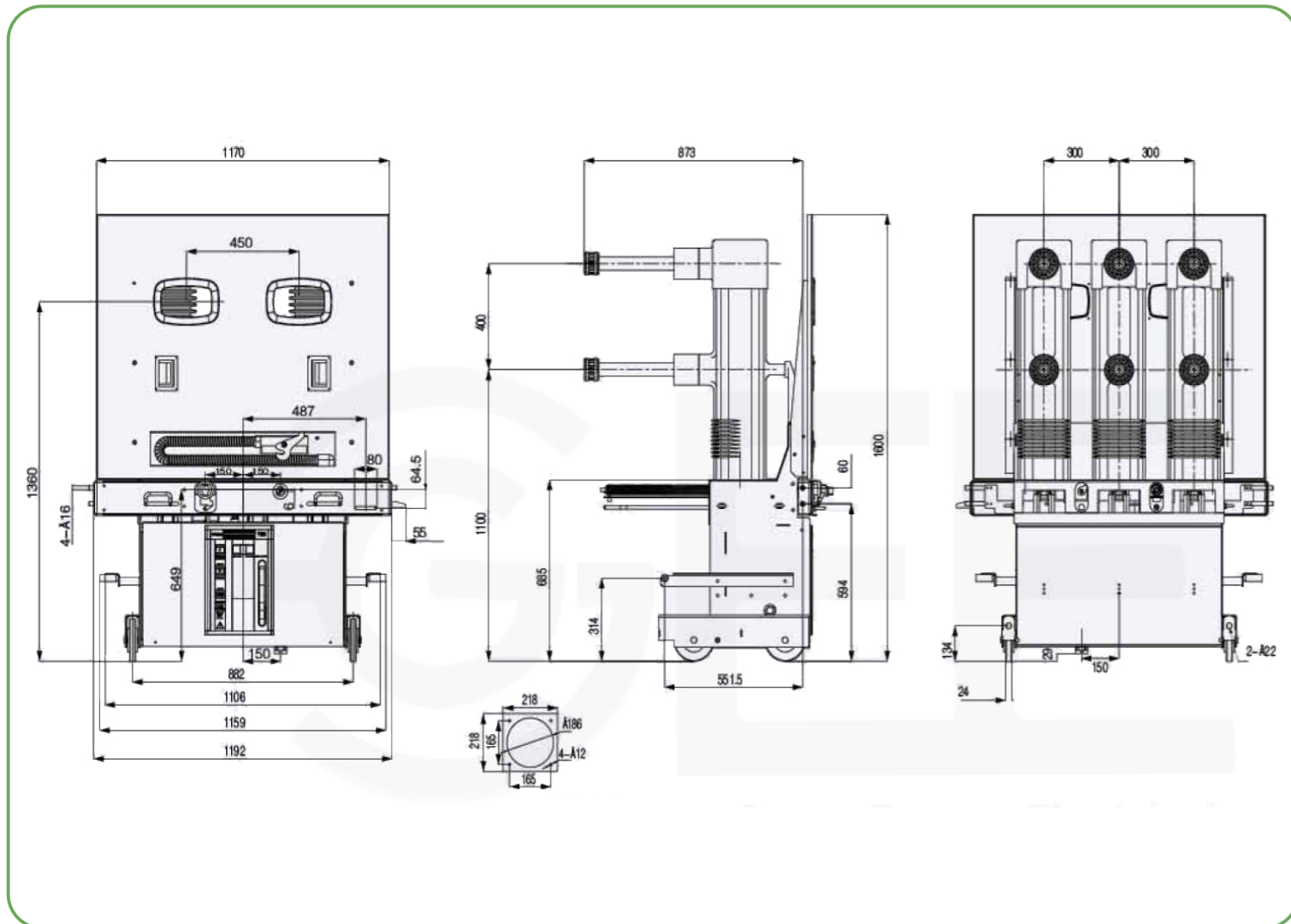
Vacuum Circuit Breaker

Indoor vacuum circuit breaker

ZN85-40.5



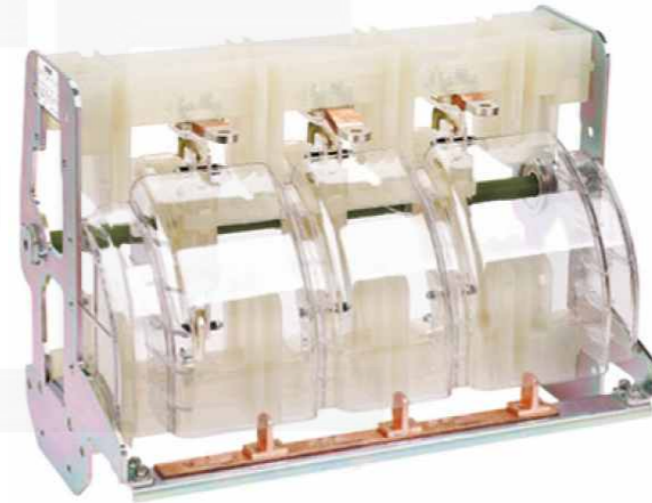
Outline and Installation Dimensions



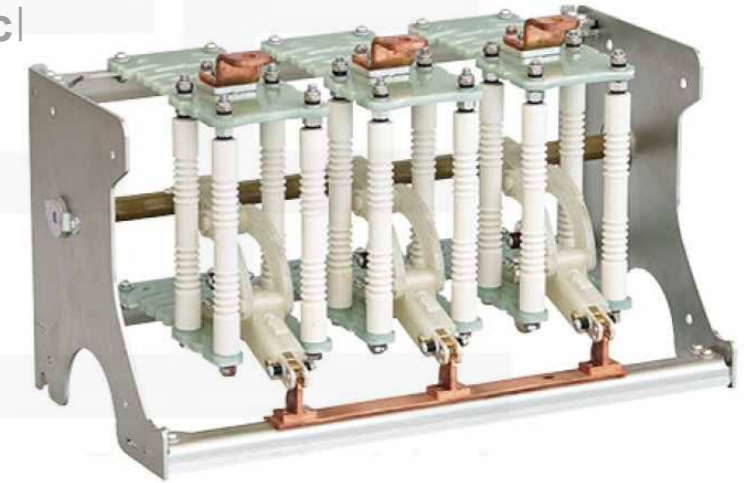
Contents		Units	Parameters			
Rated Voltage		kV	40.5			
Rated current		A	1250	1600	2000	2500
Rated short-circuit breaking current		kA	25	31.5	25	31.5
Dynamic stability current (peak)		kA	63	80	63	80
4s thermal stability current		kA	25	31.5	25	31.5
Rated short-circuit closing current (peak)		kA	63	80	63	80
Rated short-circuit current opening times		time	20			
Rated operation sequence			O-0.3s-CO-180s-CO			
Rated insulation level	1min industrial frequency withstand voltage	kV	95			
	Lightning impact withstand voltage (peak)		185			
Mechanical life		time	10000			
Rated single capacitor bank opening and closing current		A	630			
Rated back-to-back capacitor bank current		A	400			
Rated voltage of energy storage motor		V	AC DC:110 220			
Rated power of energy storage motor		W	≤230			
Energy storage time of energy storage motor		s	≤15			
Rated voltage of switching coil		V	DC:110 220			
Rated current of switching coil		A	1.05(110V)0.96(220V)			
Contact opening distance		mm	18±2			
Contact contact stroke		mm	7.5±1.5			
Three-phase synchronisation		ms	≤2			
Bounce time of contact closing		ms	≤3			
Main circuit resistance		μ Ω	≤40			

Disconnect Switch

Environmental PC disconnect switch



Air insulated disconnect switch



HB 1 G-12/630/3

CK1 G 12/630/3

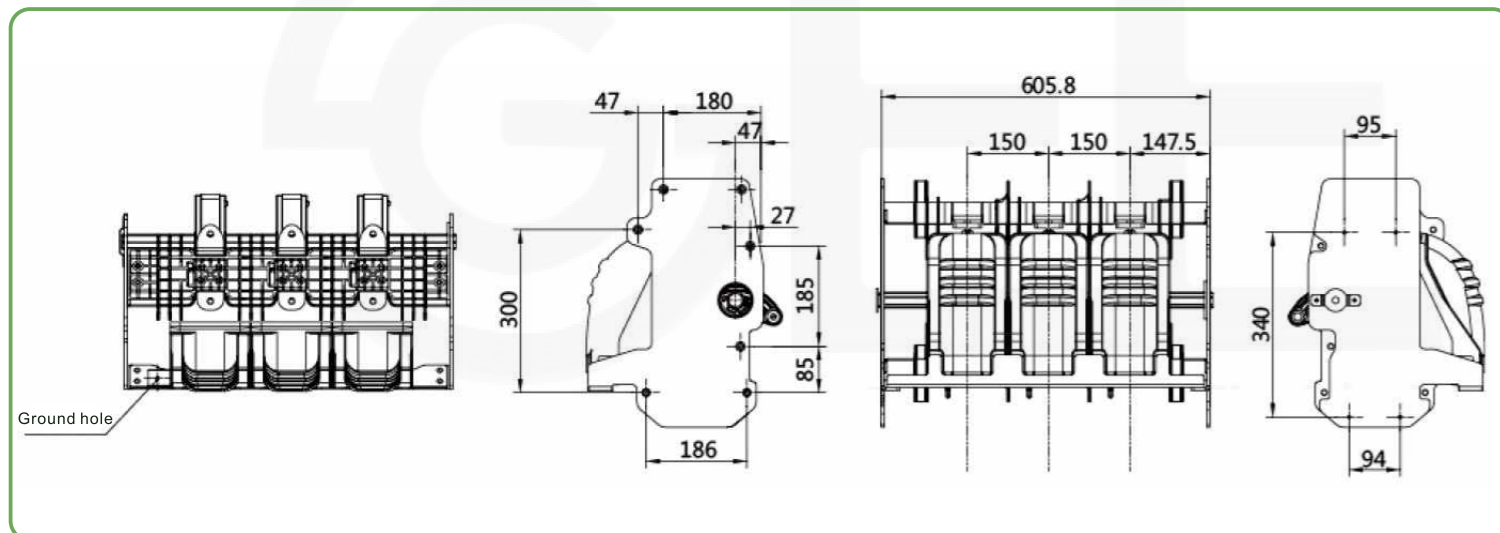
Main Technical Parameter

Contents	Parameter	Contents	Parameter
Rated voltage kV	12	Cabinet shell protection grade	IP 4X
Rated current A	630	Sealed case protection grade	IP 65 IP 67
Rated frequency Hz	50	Rated sequence of operation	0-0.3s-CO-180s-CO
Rated filling pressure of dry gas (gauge pressure at 20°C) Mpa	0.02	Rated short-time frequency withstand voltage (phase-to-phase, phase-to-ground) kV	42
Rated short-time withstand current duration S	4/3		
Rated short-time withstand current kA	20/25	Rated lightning impulse withstand voltage (phase-to-phase, phase-to-ground) kV peak	75
Rated peak withstand current (kA) peak	50/63		
Rated Lightning Impulse Withstand Voltage (Break) kV Peak	85	Rated short-time frequency withstand voltage (break) kV	48

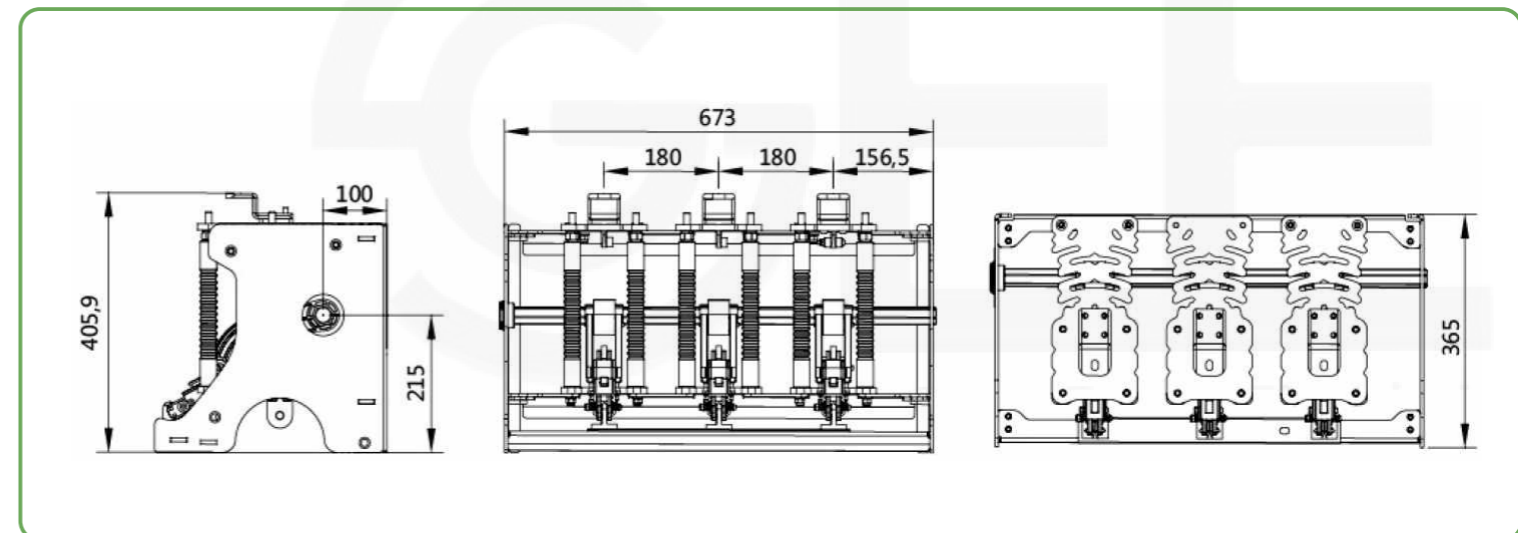
Main Technical Parameter

Contents	Parameter	Contents	Parameter
Rated voltage kV	12	Cabinet shell protection grade	IP 4X
Rated current A	630	Sealed case protection grade	IP 65 IP 67
Rated frequency Hz	50	Rated sequence of operation	0-0.3s-CO-180s-CO
Rated short-time withstand current duration S	4/3	Rated short-time frequency withstand voltage (phase-to-phase, phase-to-ground) kV	42
Rated short-time withstand current kA	20/25		
Rated peak withstand current (kA) peak	50/63	Rated lightning impulse withstand voltage (phase-to-phase, phase-to-ground) kV peak	75
Rated Lightning Impulse Withstand Voltage (Break) kV Peak	85		
		Rated short-time frequency withstand voltage (break) kV	48

Outline and Installation Dimensions



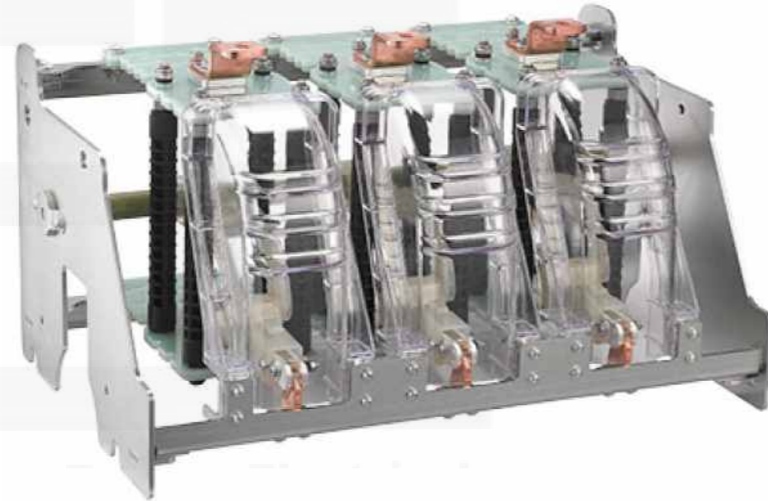
Outline and Installation Dimensions



Disconnect Switch

Atmospheric air insulated disconnect switch

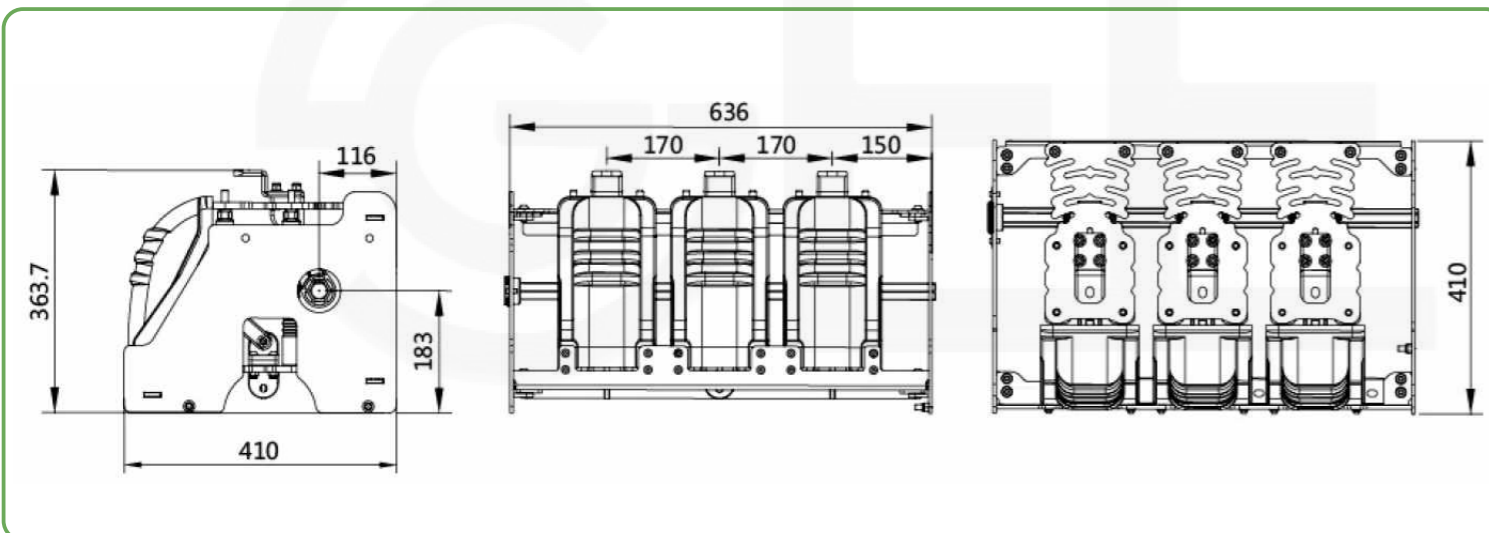
CK2 G 12/630/3



Main Technical Parameter

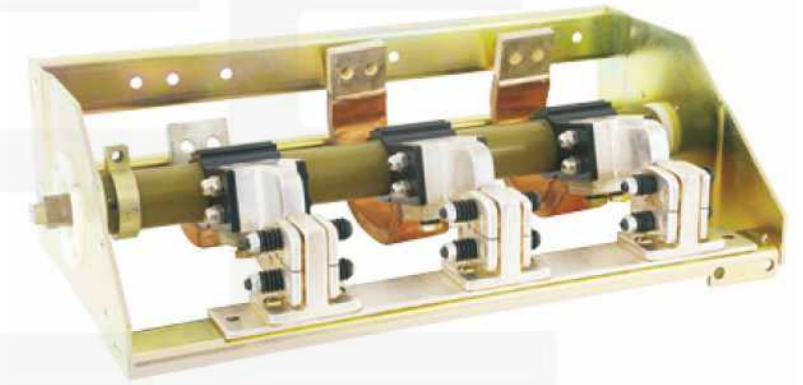
Contents	Parameter	Contents	Parameter
Rated voltage kV	12	Cabinet shell protection grade	IP 4X
Rated current A	630	Sealed case protection grade	IP 65 IP 67
Rated frequency Hz	50	Rated sequence of operation	0-0.3s-CO-180s-CO
Rated short-time withstand current duration S	4/3	Rated short-time frequency withstand voltage (phase-to-phase, phase-to-ground) kV	42
Rated short-time withstand current kA	20/25		
Rated peak withstand current (kA) peak	50/63	Rated lightning impulse withstand voltage (phase-to-phase, phase-to-ground) kV peak	75
Rated Lightning Impulse Withstand Voltage (Break) kV Peak	85		

Outline and Installation Dimensions



Disconnect switch

CK1 G 12/630/3



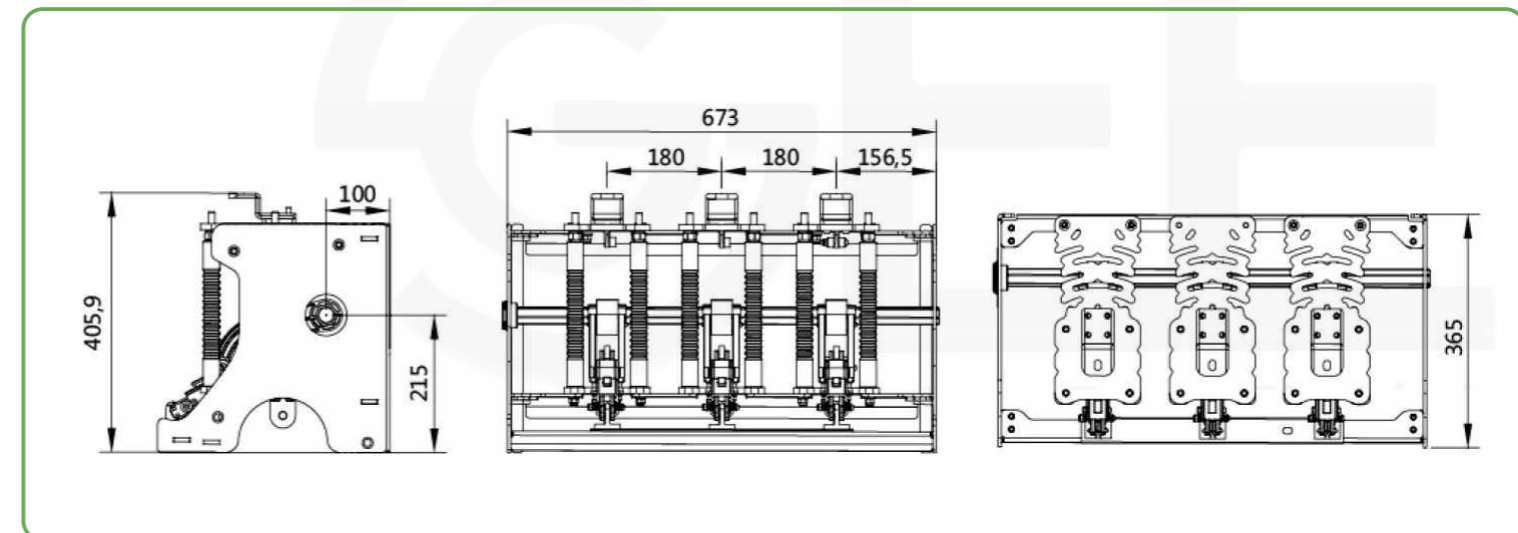
Main Technical Parameter

No.	Contents	units	Technical Parameters Standard
1	Rated voltage	kV	40.5
2	Rated current	A	630
3	Rated frequency	Hz	50
4	Industrial frequency withstand voltage (phase-to-phase to ground)	kV	95
5	Vacuum breaks/Isolation breaks	kV	118
6	Lightning Impact	kV	185/215
7	Rated short-circuit current breaking times	Timrs	30

Precautions for environmental conditions of use

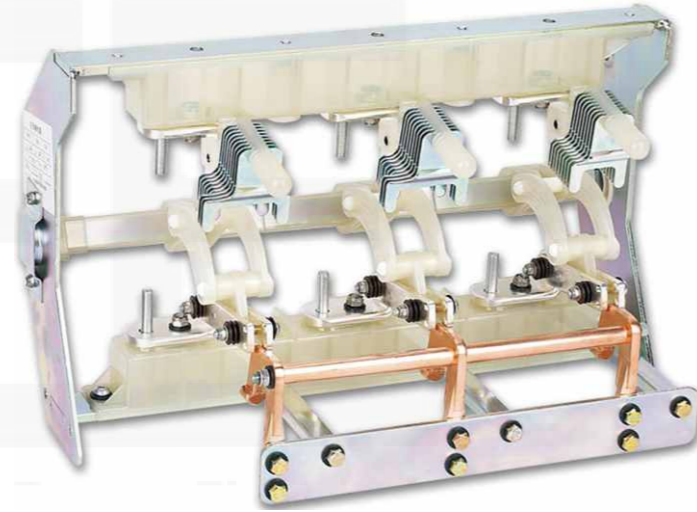
- Altitude not exceeding 200m, seismicity not exceeding 8 degrees.
- Ambient temperature of the product is -40~+140°C, relative humidity is not more than 90% on average per day and not more than 90% on average per month.
- Frequent severe vibration of the installation site, obviously affect the performance of the mechanism of water vapour, gas, chemical corrosion deposits, salt spray, dust and dirt and its fire, explosion hazardous installation sites are not suitable for use.

Outline and Installation Dimensions



Load Break Switch

Load switch series



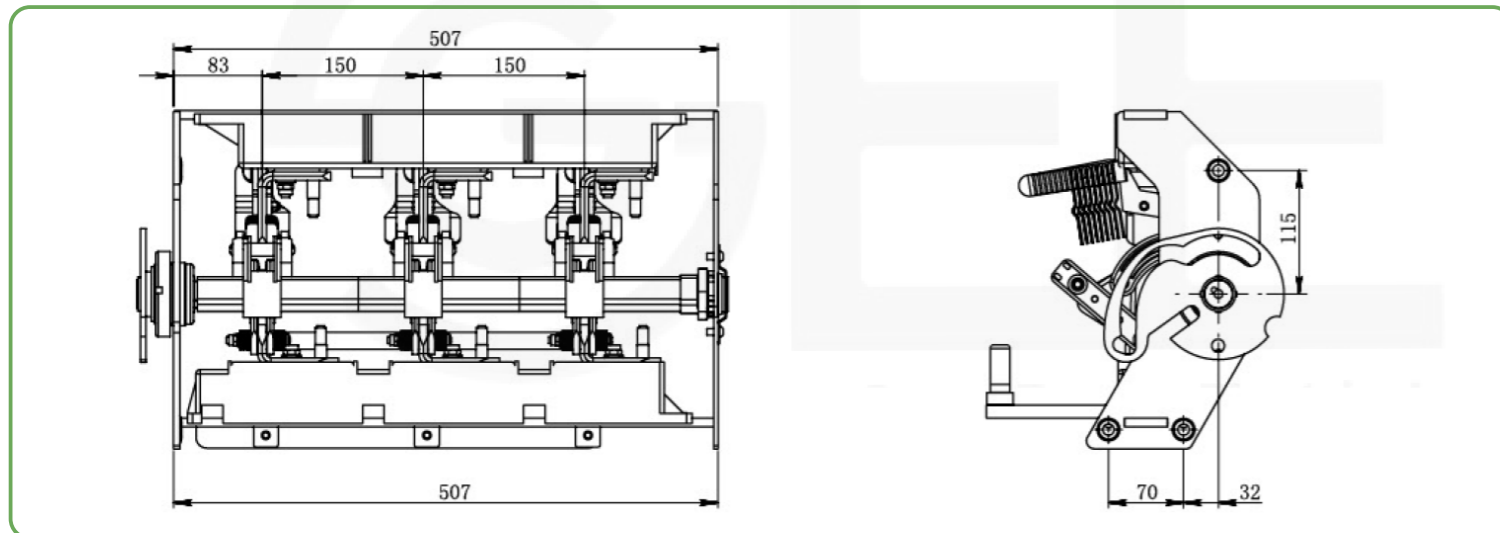
WL C-12/630/20/3

Main Technical Parameter

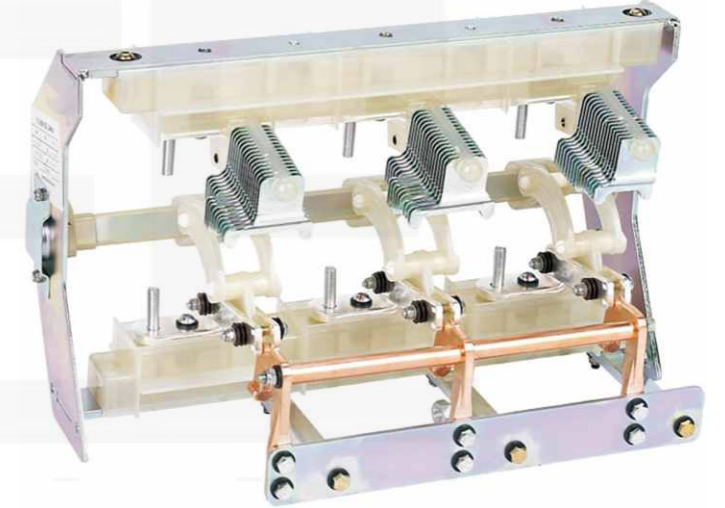
No.	Contents	units	Technical Parameters Standard
1	Rated frequency	Hz	50
2	Rated current	A	630
3	Rated short-time withstand current	kA	20/25
4	Rated peak withstand current	kA	50/63
5	Rated short-time duration	s	4
6	Rated short-circuit closing current	kA	50
7	Mechanical life	time	5000

- Altitude not exceeding 200m, seismicity not exceeding 8 degrees.
- Ambient temperature of the product is -40~+140°C, relative humidity is not more than 90% on average per day and not more than 90% on average per month.
- Frequent severe vibration of the installation site, obviously affect the performance of the mechanism of water vapour, gas, chemical corrosion deposits, salt spray, dust and dirt and its fire, explosion hazardous installation sites are not suitable for use.

Outline and Installation Dimensions



Load switch series



WL C-12/800/20/3

WL C-24/630/20/3

Main Technical Parameter

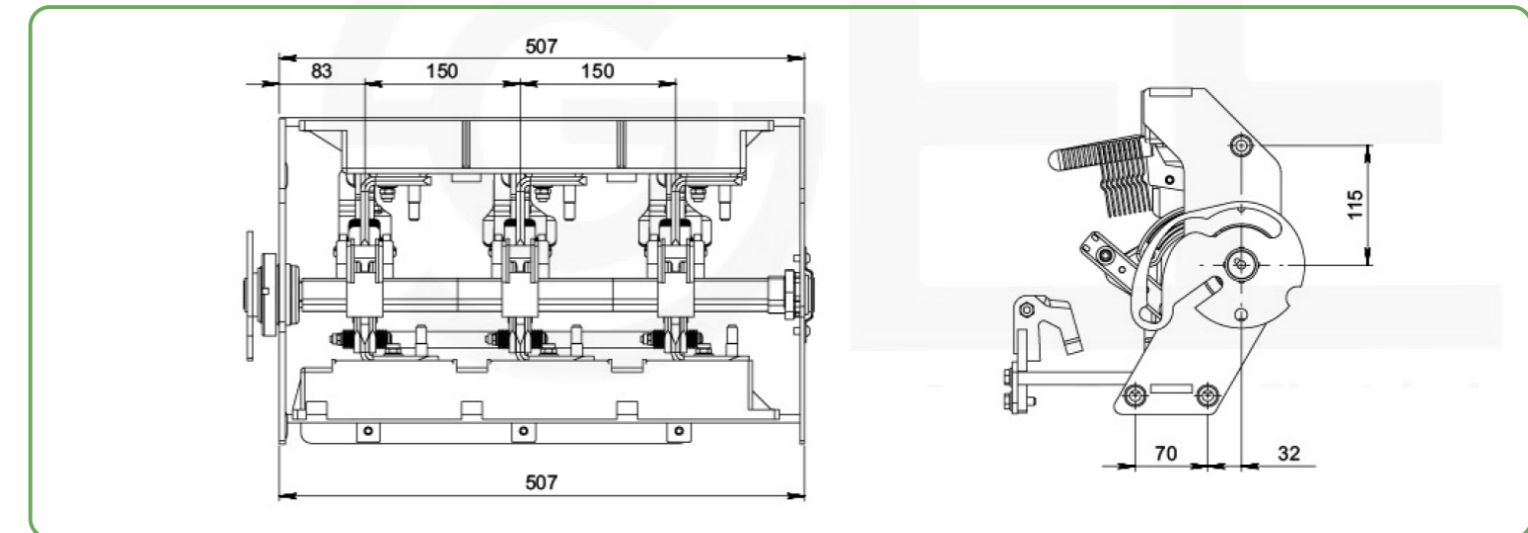
12kV

No.	Contents	units	Technical Parameters Standard
1	Rated frequency	Hz	50
2	Rated current	A	800
3	Rated short-time withstand current	kA	20/25
4	Rated peak withstand current	kA	50/63
5	Rated short-time duration	s	4
6	Rated short-circuit closing current	kA	50
7	Mechanical life	time	5000

24kV

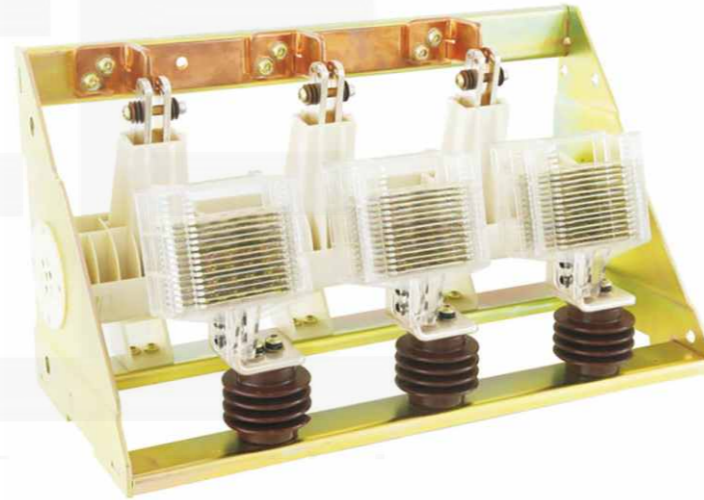
No.	Contents	units	Technical Parameters Standard
1	Rated frequency	Hz	50
2	Rated current	A	630
3	Rated short-time withstand current	kA	20/25
4	Rated peak withstand current	kA	50/63
5	Rated short-time duration	s	4
6	Rated short-circuit closing current	kA	50
7	Mechanical life	time	5000

Outline and Installation Dimensions



Load Break Switch

Load switch (OM type)



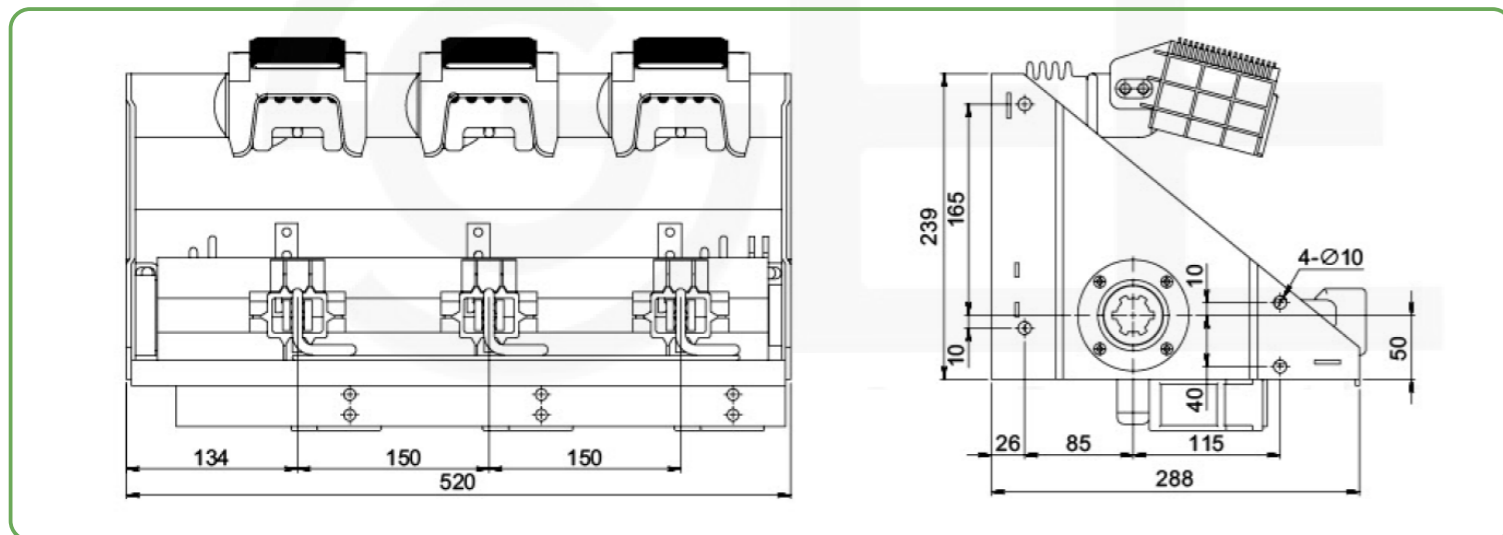
WL C-12/630/20/3

Main Technical Parameter

No.	Contents	units	Technical Parameters Standard
1	Rated frequency	Hz	50
2	Rated current	A	630
3	Rated short-time withstand current	kA	20/25
4	Rated peak withstand current	kA	50/63
5	Rated short-time duration	s	4
6	Rated short-circuit closing current	kA	50
7	Mechanical life	time	5000

- Altitude not exceeding 200m, seismicity not exceeding 8 degrees.
- Ambient temperature of the product is $-40^{\circ}\text{C}\sim+140^{\circ}\text{C}$, relative humidity is not more than 90% on average per day and not more than 90% on average per month.
- Frequent severe vibration of the installation site, obviously affect the performance of the mechanism of water vapour, gas, chemical corrosion deposits, salt spray, dust and dirt and its fire, explosion hazardous installation sites are not suitable for use.

Outline and Installation Dimensions



Load switch (OM type)

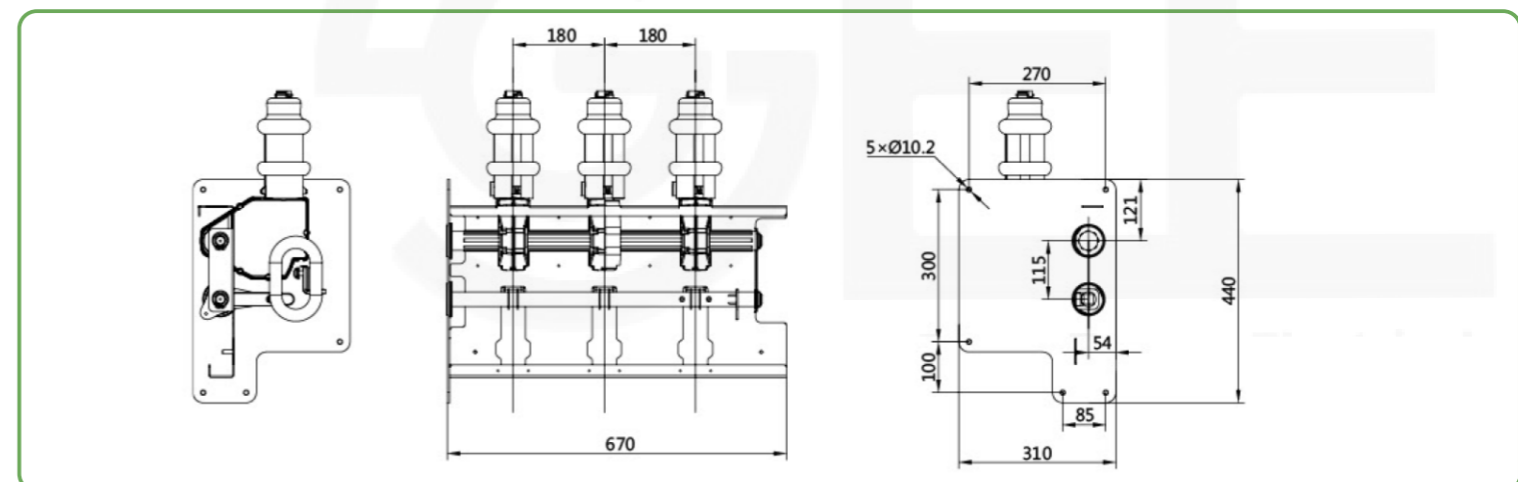


WL C-35/630/3

Main Technical Parameter

Contents		Load switch		Ground switch	
Rated voltage kV		36	40.5	36	40.5
Frequency withstand voltage kV		70	95	70	95
Isolating distance kV		80	118		
Lightning impulse withstand voltage		170	185	170	185
Isolating distance kV		195	215		
Rated current A		630	630(Depends on fuse current rating)		
Breaking capacity	Active load A	630	630		
	Closed loop current breaking A	630	630		
	No-load cable charging A	20	21		
	Ground fault A	60	63		
	Ground fault cable A Charging	35	36		
Electrical life rating		E3	E2	E2	E2

Outline and Installation Dimensions



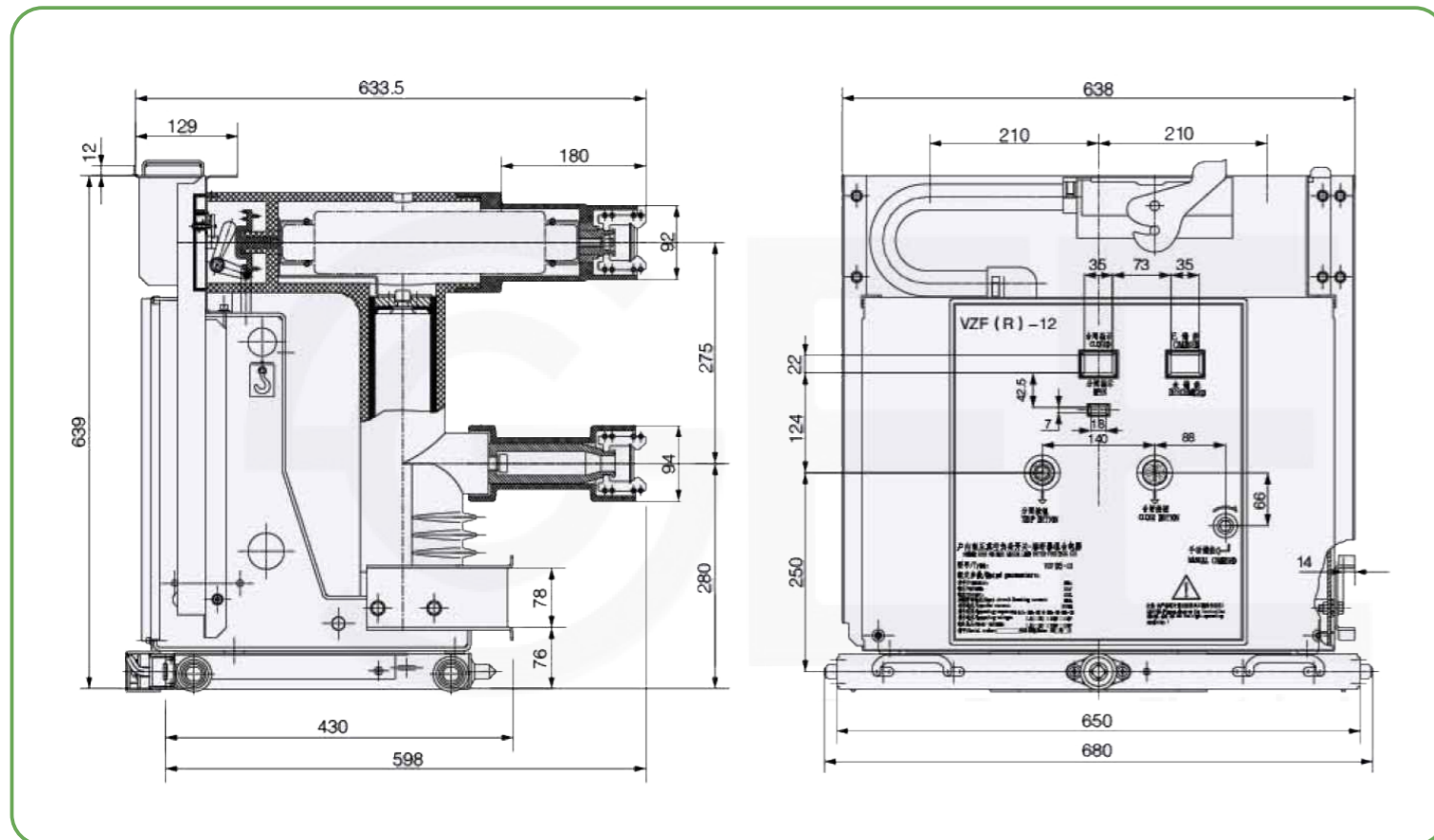
Load Break Switch

Indoor vacuum load switch
Fuse combinations

VZF(R)-12



Outline and Installation Dimensions



Main Technical Parameter

Contents	Units	Parameters				
		VZF-12/T630-20 Vacuum load switch	VZFR-12/T125-50 Vacuum load switch-Fuse combinations	VZFH-12/T630-25 Vacuum load switch with high breaking capacity	VZFHR-12/T125-50 Vacuum load switch-Fuse combinations	
Rated Voltage	kV	12	12	12	12	
Rated insulation level	Lightning impulse withstand voltage	kV	75	75	75	75
	Industrial frequency withstand voltage (1min)	kV	42	42	42	42
Rated frequency	Hz	50/60	50/60	50/60	50/60	
Rated current	A	630	125(Fuse)	630	125(Fuse)	
Rated short-circuit breaking current	kA		50(Fuse)	25(arc-extinguishing chamber)	25(arc-extinguishing chamber)	
Rated short-circuit closing current (peak)	kA	50		63		
Rated short-time withstand current	kA	20		25		
Rated peak withstand current	kA	50		63		
Rated cable charging opening current	A	16				
Opening no-load transformer	KVA	1250		1250		
Rated breaking AC current	A		3150			
Rated short-circuit current breaking times	time					
Mechanical life		M2	M2	M2	M2	
Weight	KG	125				

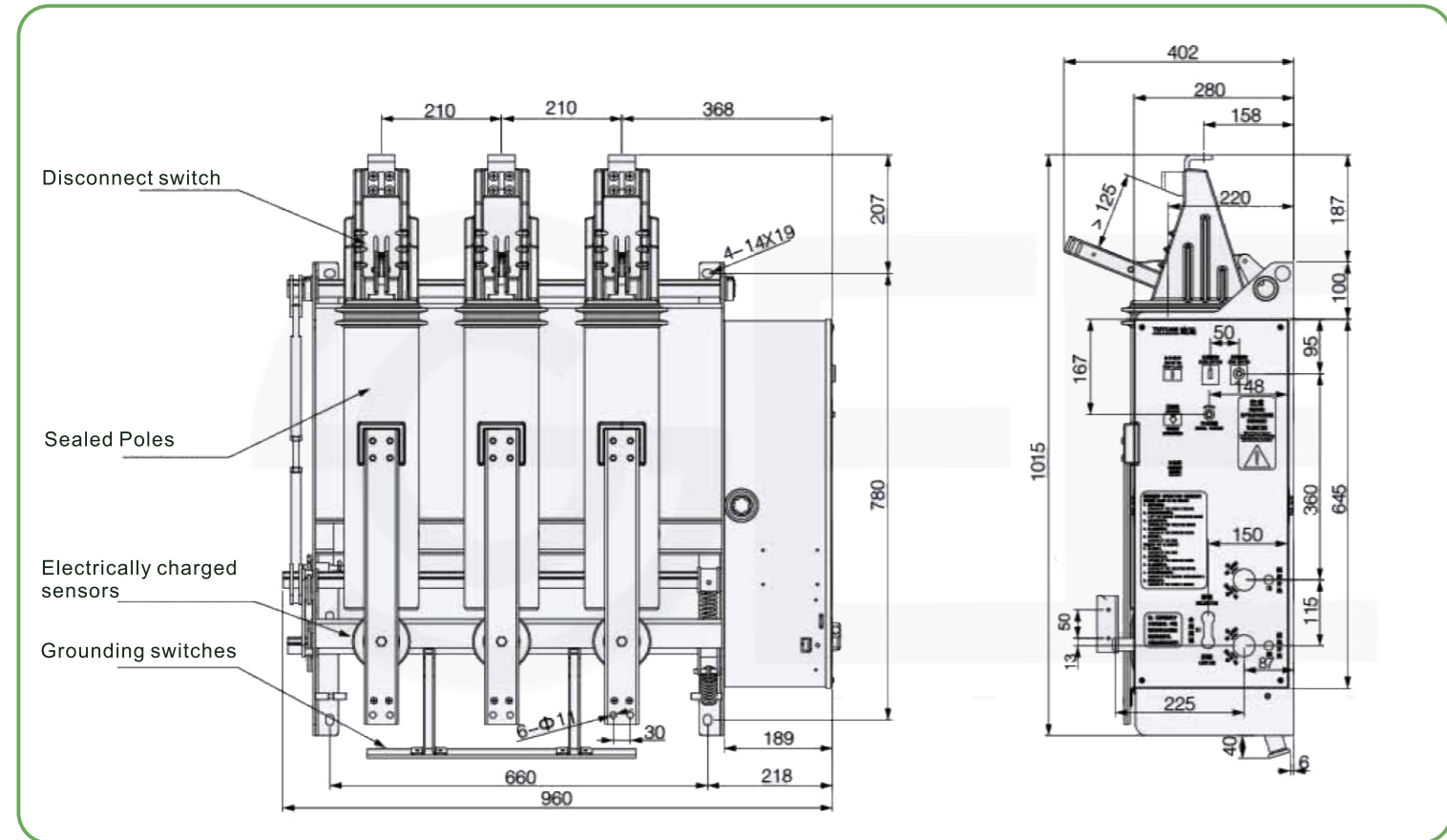
Load Break Switch

Indoor vacuum load switch

ZNF-12GD(R)



Outline and Installation Dimensions



Main Technical Parameter

Contents		Units	Parameters
Rated Voltage		kV	12
Rated insulation level	Industrial frequency withstand voltage (1min)	kV	42
	Lightning impulse withstand voltage		75/85
Rated current		A	630/1250
Rated frequency		Hz	50/60
Rated short-circuit breaking current		kA	20 25 31.5
Rated dynamic stability current		kA	50 63 80
Rated thermal stability current		kA	20 25 31.5
Rated thermal stability time		s	4
Rated short-circuit breaking current DC minute star		%	38
Rated short-circuit breaking current		time	50
Heterophase ground fault breaking capacity		kA	17.4
Operation sequence			O-0.3s-CO-180s-CO
Closing time		ms	≤40-55
Breaking time		ms	≤27-35
Rated Breaking Time		ms	<50
Mechanical life of circuit breaker		time	10000
Auxiliary circuit rated voltage		DC	220 110 48
Maximum power consumption of auxiliary circuit		VA	100
Disconnecting switch life		time	3000
Grounding switch life		time	3000
Weight		KG	120

Load Break Switch

Indoor vacuum load switch



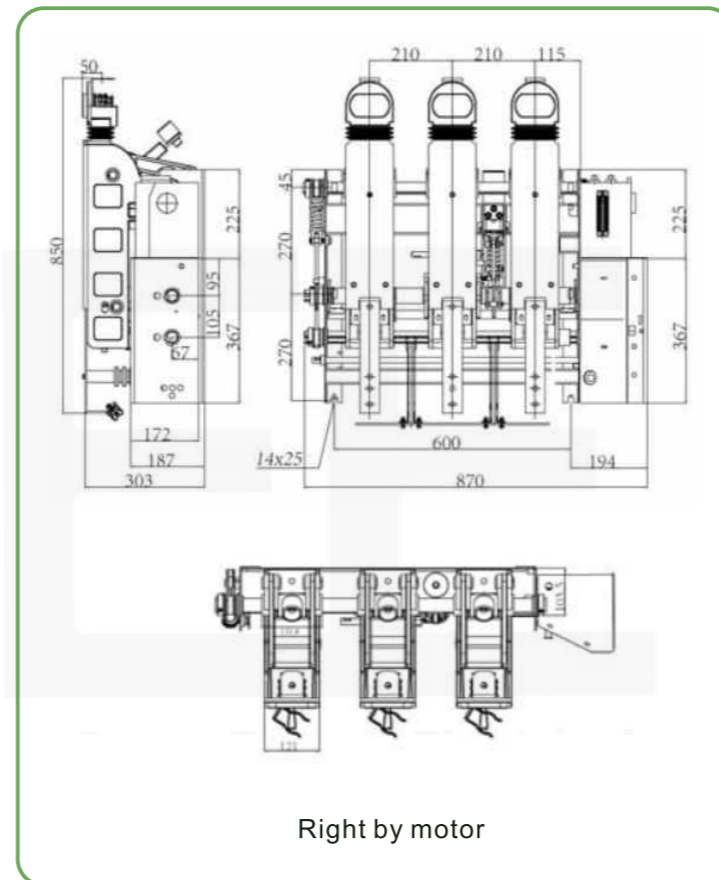
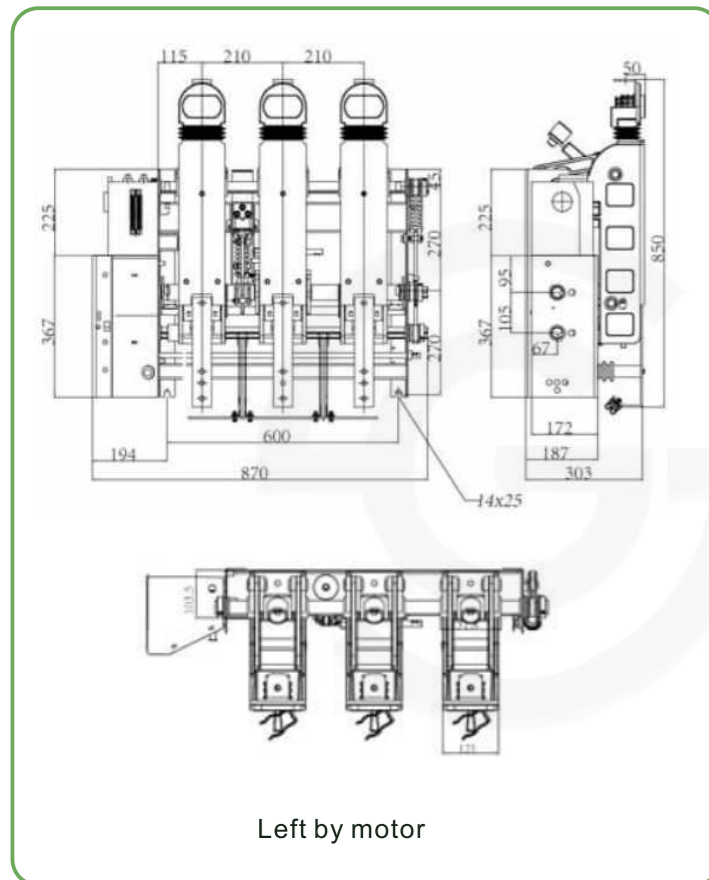
FZN64-12/630/20

Manual

FZN64-12D/630/20

Electric

Outline and Installation Dimensions



Main Technical Parameter

Contents	Units	Parameters		
		FZN64-12D	FZRN64-12D	
Rated voltage	kV	12		
Rated frequency	Hz	50		
Rated current	A	630	125	
Rated insulation level	Voltage withstand 1min power frequency	kV	Arc extinguishing chamber fracture 30; To the ground, interphase 42; Isolation fracture 48	
	Lightning shock withstand voltage	kV	To the ground, phase 75; Isolation fracture 85	
Rated dynamic stability current (peak)	kA	50		
4S heat stabilized current	kA	20		
Rated active load breaking current	A	630	125	
Rated closed-loop breaking current	A	630	125	
Rated cable charging break current	A	10	10	
Turn off the no-load transformer capacity	KVA	1250	1250	
Rated short circuit breaking current	kV	31.5		
Rated transfer current, rated transfer current	A	2000		
Fuse type		SDLAJ-12 SFLAJ-12		
Impactor outputs energy	J	2-5(medium)		
Rated short circuit closing current	kA	50		
Ground switch rated dynamic stable current	kA	50		
2S thermal stability current of the ground switch	kA	20		
Rated voltage of the auxiliary circuit	V	AC/CD 220/110		
Mechanical life	time	10000		

Load Break Switch

Air load switch

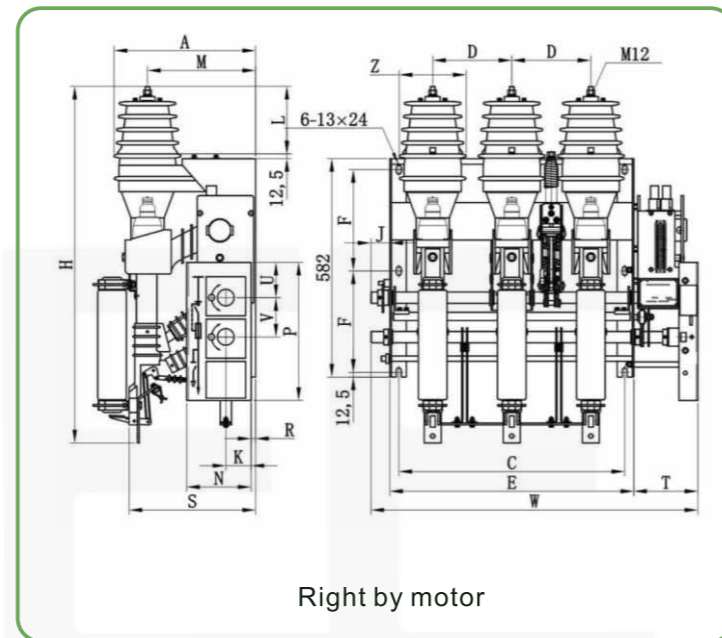
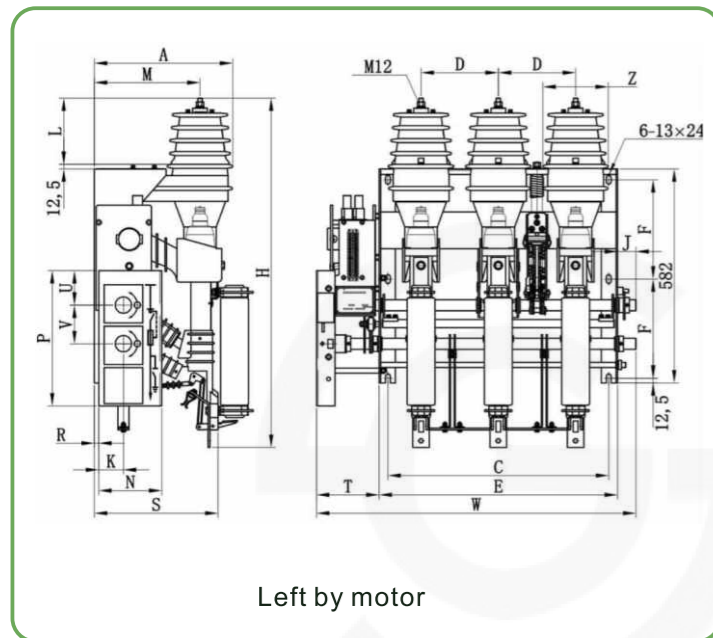
FKN12A-12D

FKRN12A-12D

(R:Fuse protection)



Outline and Installation Dimensions



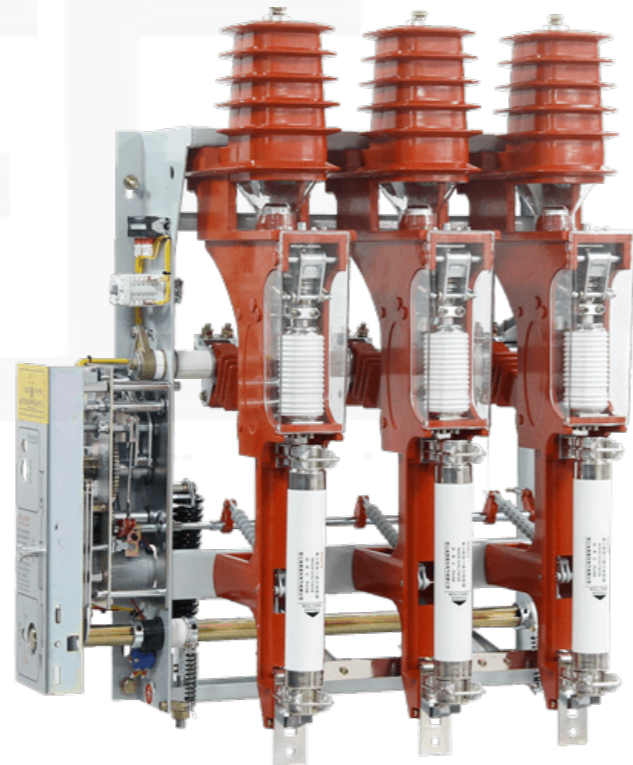
A	H	C	D	E	F	K	J	L	M	N	P	R	S	T	U	V	W	Z	75 KG
376	940	600	210	648	270	67	50	155	287	171	368	11	337	170	94	105	868	180	

Main Technical Parameter

Contents		Units	FKN12-12D/6 30-20	FKRN12-12D/1 25-31.5
Rated voltage		kV	12	12
Rated frequency		Hz	50	50
Rated current		A	630	125
1 min power frequency withstand voltage (Phase to earth, between poles, open contacts)	Phase-to-earth, phase-to-phase	kV	42	42
	Isolating fracture		48	48
Rated lightning impulse withstand voltage (Phase to earth, between poles, open contacts)	Phase-to-earth, phase-to-phase	kV	75	75
	Isolating fracture		85	85
Rated short time withstand current (thermal stability current)	Load break switch	kA	20	
	Earth switch		20	
Rated short circuit duration (thermal stability time)	Load break switch	s	4	
	Earth switch		2	
Rated short circuit making current (peak)		kA	50	
Rated breaking current	Active load breaking current	A	630	
	Loop breaking current		630	
	5% active load breaking current		31.5	
	Cable charging current		10	
No-load transformer capacity		kVA	1250	
Rated short circuit breaking current (limit current fuse)		kA		31.5
Rated transfer current		A		1200
Mechanical life		time	2000	2000
Striker output energy		J		1±0.5

Load Break Switch

Indoor vacuum load switch

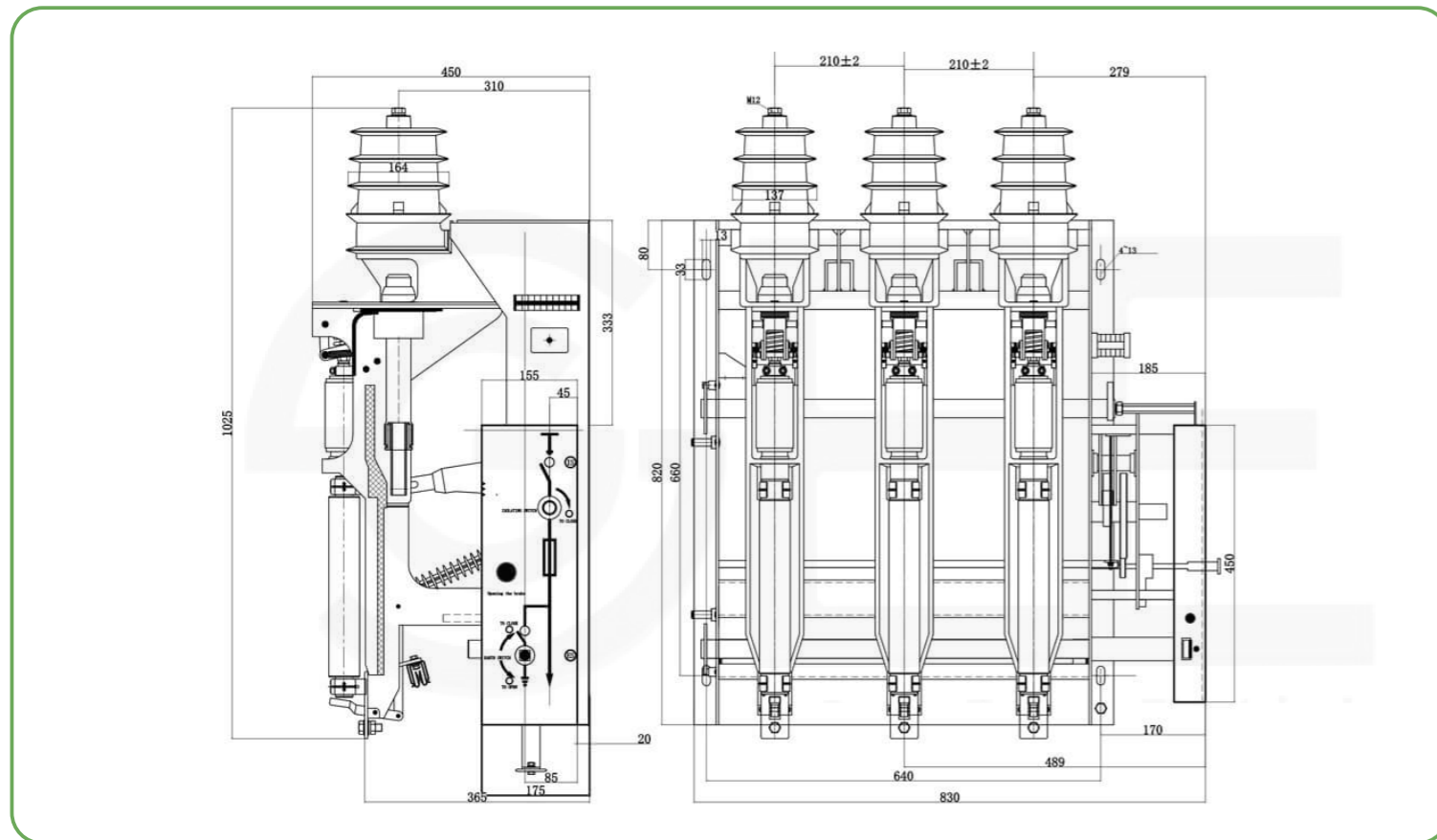


FZN25-12D

FZRN25-12D

(R:Fuse protection)

Outline and Installation Dimensions



Main Technical Parameter

Contents		Units	FZN25-12D/T630-20	FZRN25-12D/T125-31.5
Rated voltage		kV	12	12
Rated frequency		Hz	50	50
Rated current		A	630	125
Rated insulation level	Voltage withstand 1min power frequency	kV	Arc extinguishing chamber fracture 30; To the ground, interphase 42; Isolation fracture 48	
	Lightning shock withstand voltage	kV	To the ground, phase 75; Isolation fracture 85	
Rated dynamic stability current (peak)		kA	50	
4S heat stabilized current		kA	20	
Rated active load breaking current			630	125
Rated closed-loop breaking current		A	630	125
Rated cable charging break current		A	10	10
Turn off the no-load transformer capacity		KVA	1250	1250
Rated short circuit breaking current		kA		31.5
Rated transfer current, rated transfer current		A		2000
Fuse type				SDLAJ-12 SFLAJ-12
Impactor outputs energy		J		2-5(medium)
Rated short circuit closing current		kA		50
Ground switch rated dynamic stable current		kA		50
2S thermal stability current of the ground switch		kA		20
Rated voltage of the auxiliary circuit		V	AC/CD:220/110	
Mechanical life		time	10000	

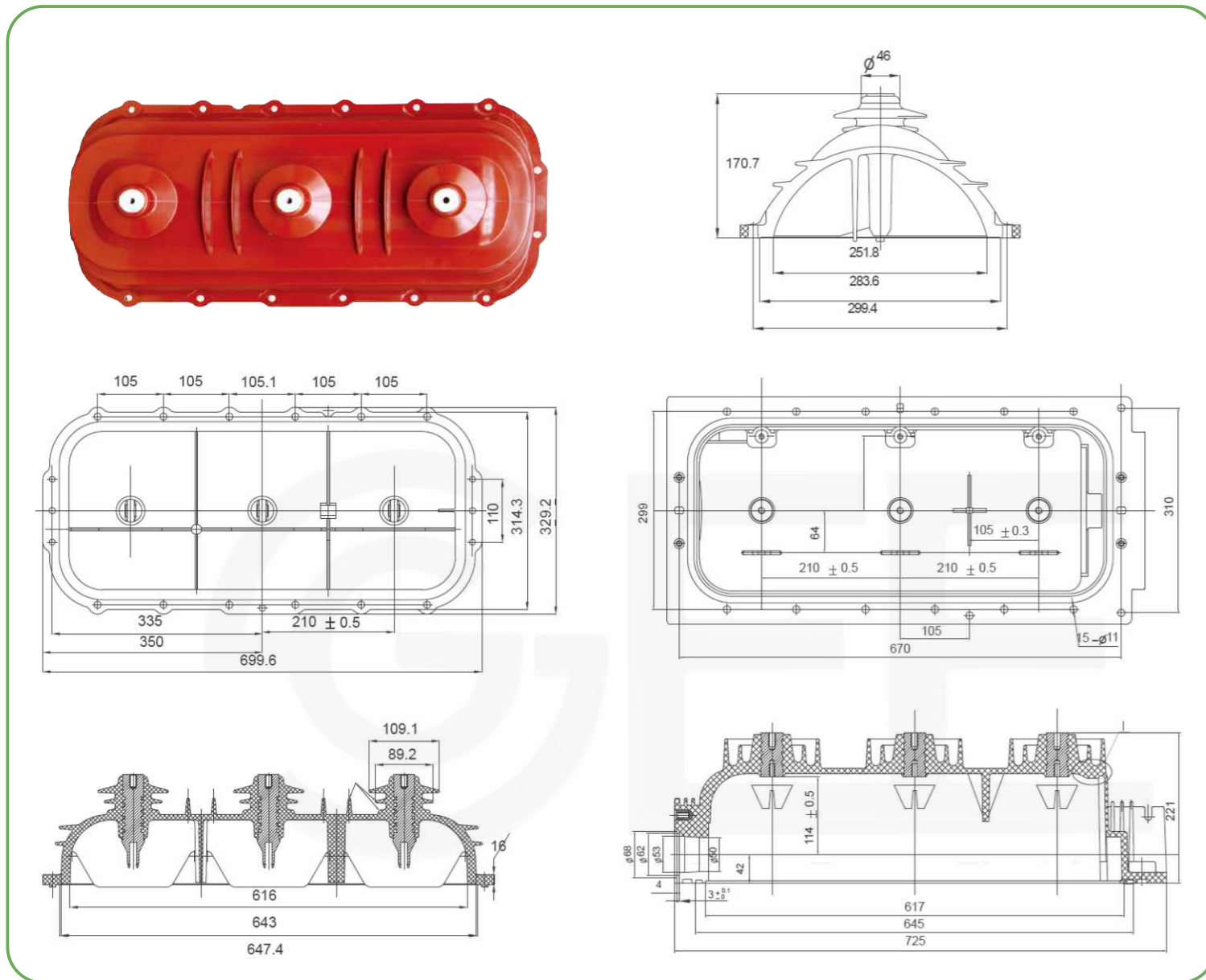
Load Break Switch

SF6 load break switch

FLN36-12



Outline and Installation Dimensions

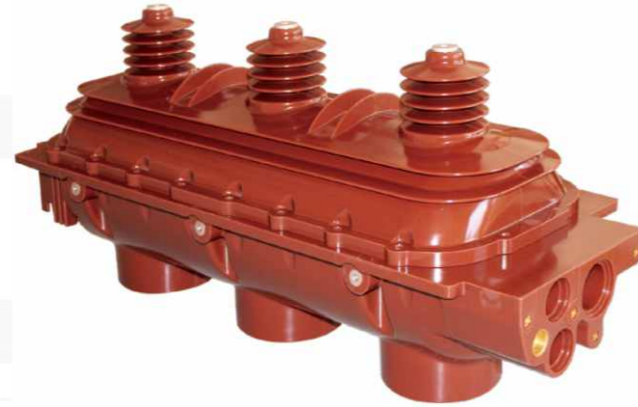


Contents	Units	Parameters
		LN36-12D/T630-20
Rated voltage	kV	12
Rated current	A	630
Rated frequency	Hz	50
Rated short-circuit making current	kA	50
Rated short-time withstand current	kA	20
Rated pwak withstand current	kV	50
Rated duration of short-circuit	s	4
Rated Mainly active load breaking current	A	630
Rated line closed-loop breaking current	A	630
Rated short-duration power-frequency withstand voltage	kV	42
Rated lightning impulse withstand voltage	kV	75
Rated pressure of gas(meter pressure at 20°C)	Mpa	0.045
Min.function pressure of gas(meter pressure at 20°C)	Mpa	0.04

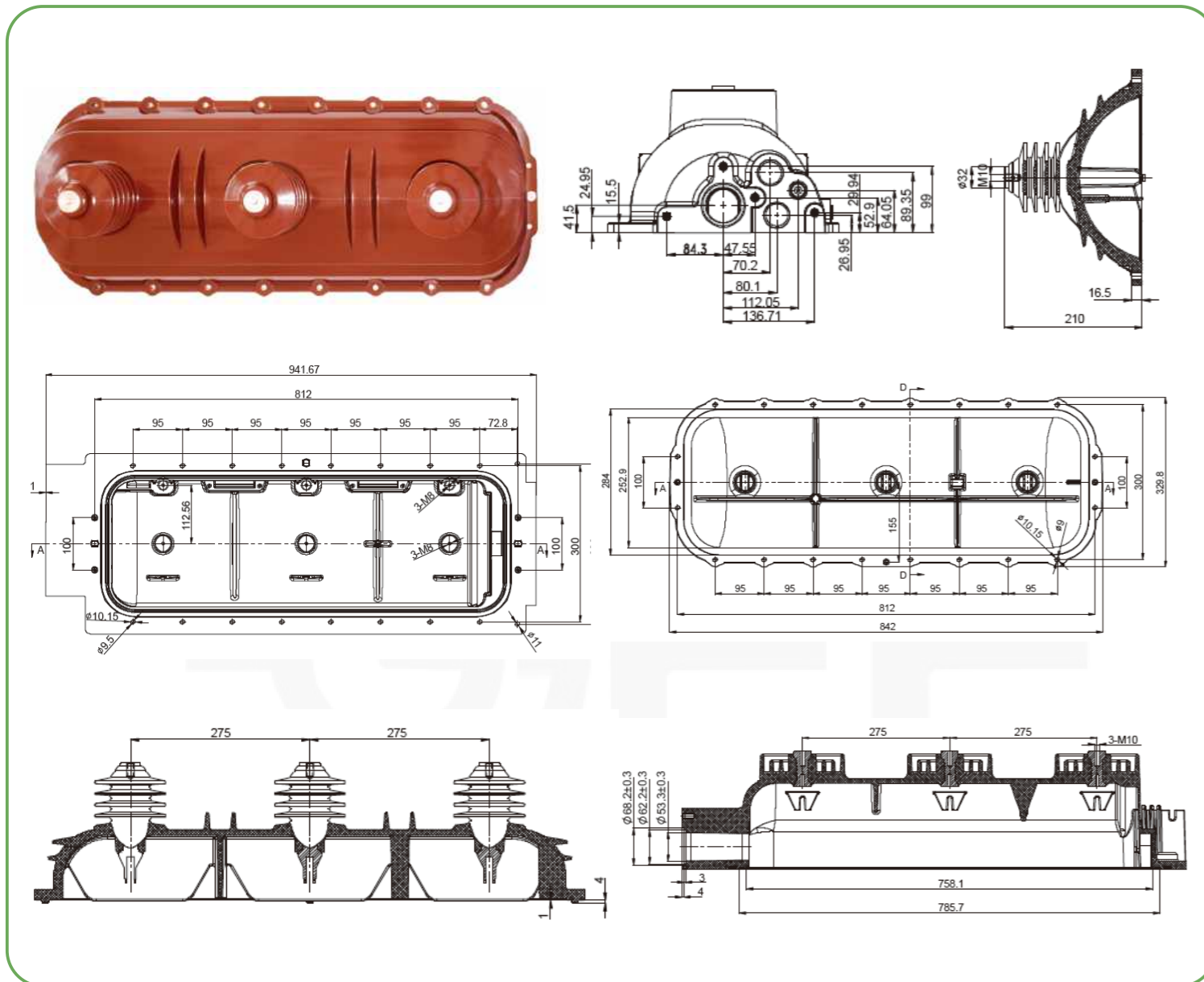
Load Break Switch

SF6 load break switch

FLN36-24



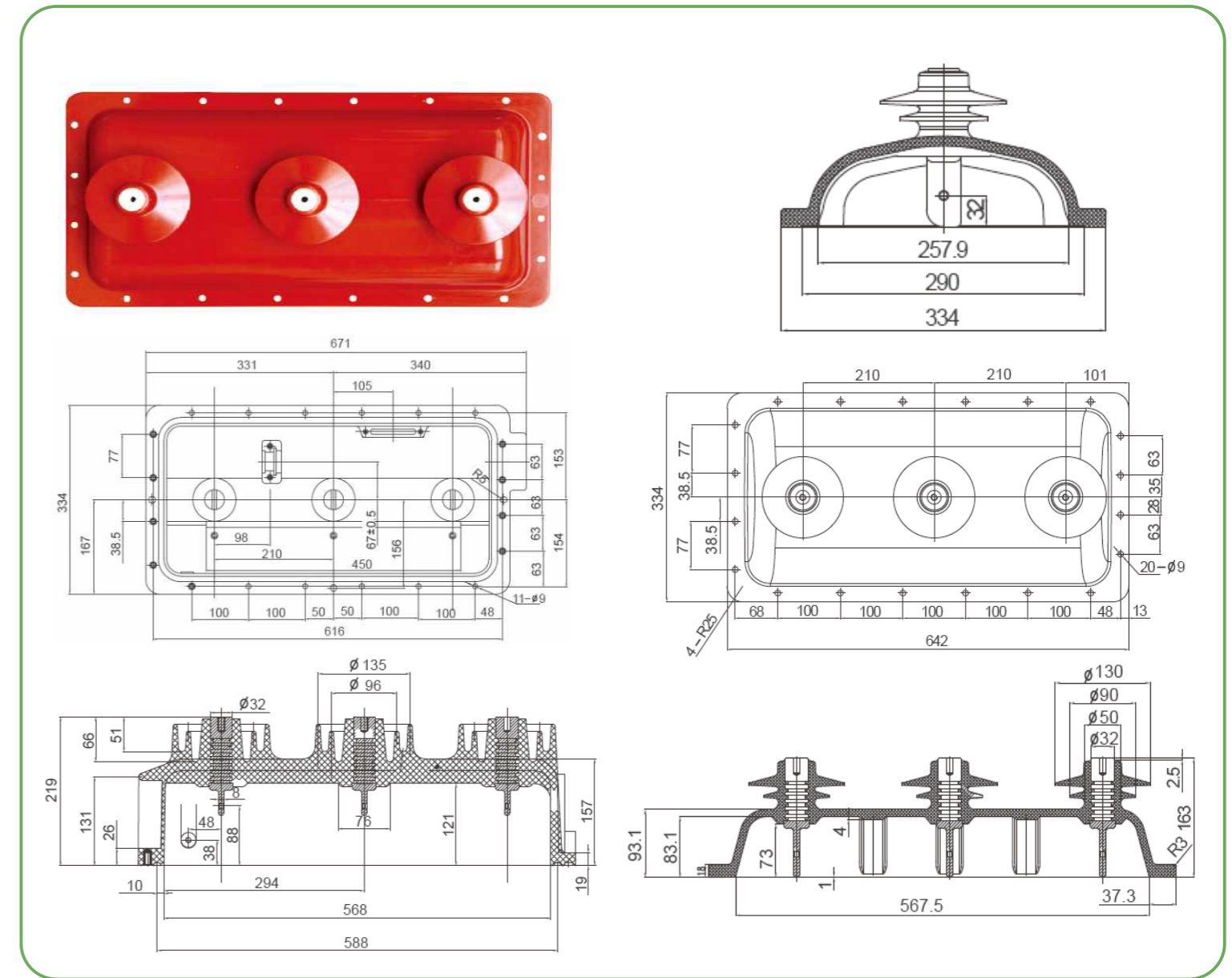
Outline and Installation Dimensions



FLN48-12



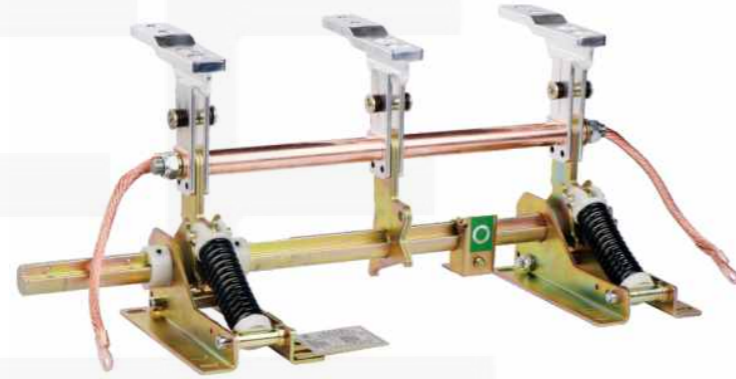
Outline and Installation Dimensions



Earthing Switch

Earthing switch

EK6-12/31.5



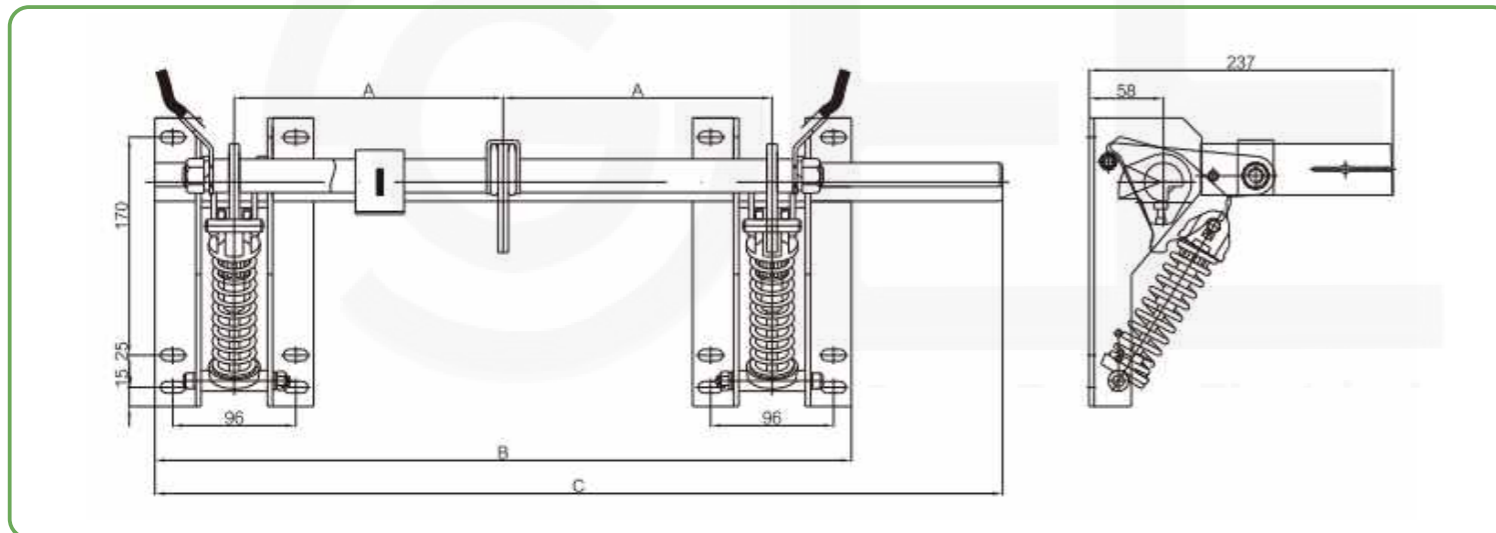
Main Technical Parameter

Contents		Units	Parameters	
Rated Voltage		kV	12	
Rated short-time withstand current		kA	31.5	
Rated short-circuit duration		s	4	
Rated short-circuit closing current		kA	80	
Rated peak withstand current		kA	80	
Rated insulation level	Rated short-time frequency withstand voltage (1min)	kV	Phase-to-ground and phase-to-phase	42
	Rated lightning impulse withstand voltage (peak)			75
Mechanical life		time	3000	

Configuration Table

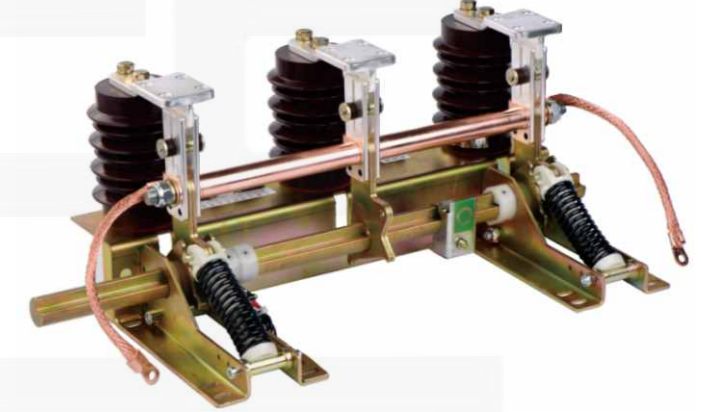
Type	A	B	C	D
EK6-12/31.5-150	150	424	535	396
EK6-12/31.5-165	165	454	656	426
EK6-12/31.5-190	190	504	615	476
EK6-12/31.5-200	200	524	635	496
EK6-12/31.5-210	210	544	655	516
EK6-12/31.5-230	230	584	695	556
EK6-12/31.5-250	250	624	735	596
EK6-12/31.5-275	275	674	785	646

Outline and Installation Dimensions



Earthing switch

JN15-12/31.5



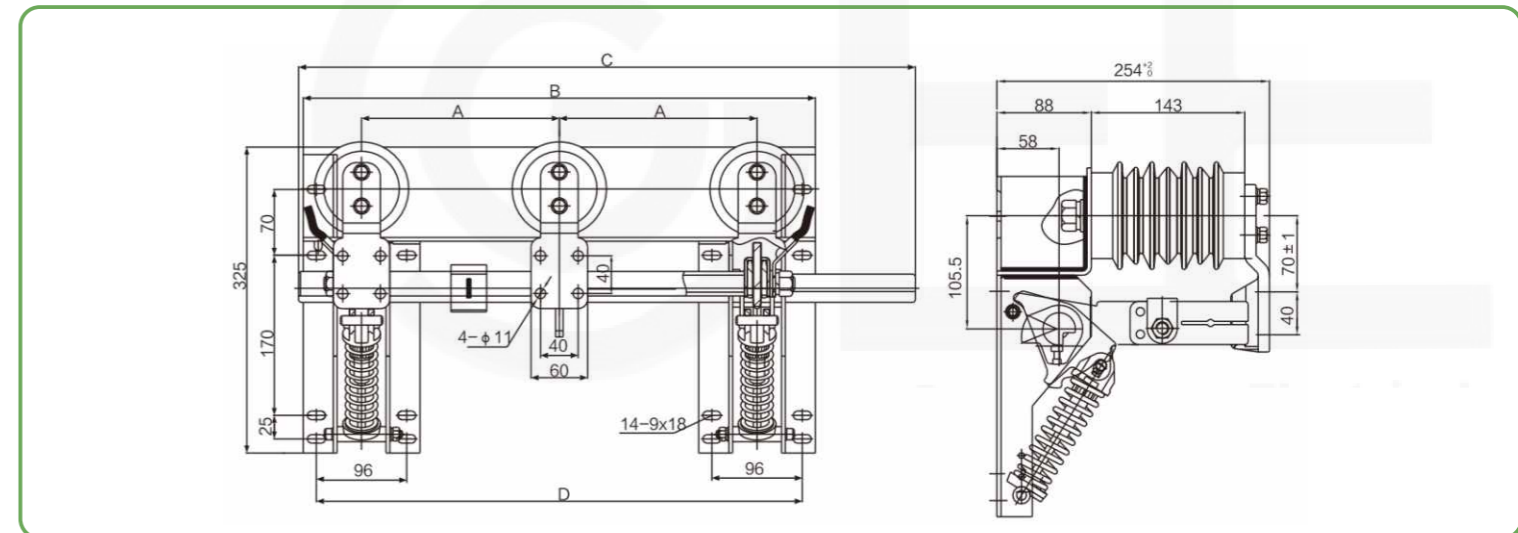
Main Technical Parameter

Contents		Units	Parameters	
Rated Voltage		kV	12	
Rated short-time withstand current		kA	31.5	
Rated short-circuit duration		s	4	
Rated short-circuit closing current		kA	80	
Rated peak withstand current		kA	80	
Rated insulation level	Rated short-time frequency withstand voltage (1min)	kV	Phase-to-ground and phase-to-phase	42
	Rated lightning impulse withstand voltage (peak)			75
Mechanical life		time	3000	

Configuration Table

Type	A	B	C	D
EK6-12/31.5-150	150	424	535	396
EK6-12/31.5-165	165	454	656	426
EK6-12/31.5-190	190	504	615	476
EK6-12/31.5-200	200	524	635	496
EK6-12/31.5-210	210	544	655	516
EK6-12/31.5-230	230	584	695	556
EK6-12/31.5-250	250	624	735	596
EK6-12/31.5-275	275	674	785	646

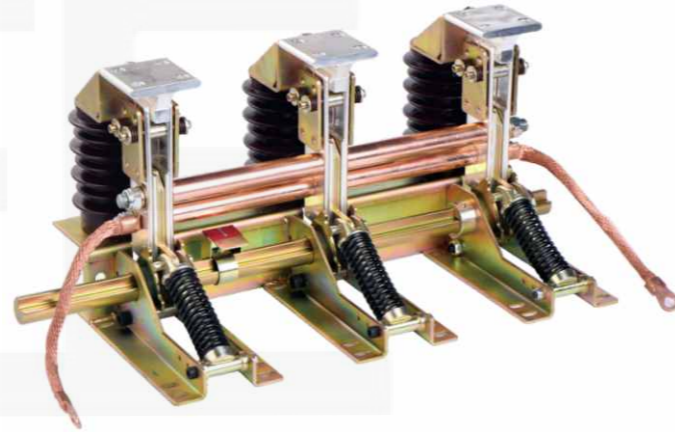
Outline and Installation Dimensions



Earthing Switch

Earthing switch

JN17-12/40



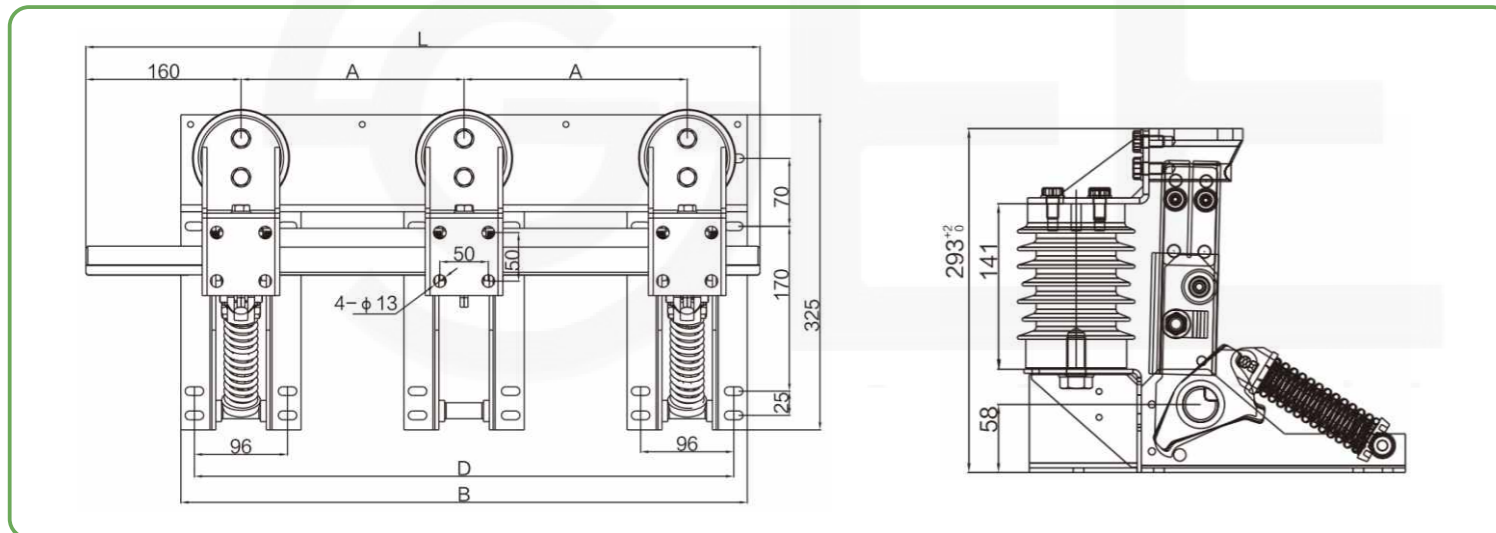
Main Technical Parameter

Contents		Units	Parameters	
Rated Voltage		kV	12	
Rated short-time withstand current		kA	40	
Rated short-circuit duration		s	4	
Rated short-circuit closing current		kA	100	
Rated peak withstand current		kA	100	
Rated insulation level	Rated short-time frequency withstand voltage (1min)	kV	Phase-to-ground and phase-to-phase	42
	Rated lightning impulse withstand voltage (peak)			75
Mechanical life		time	3000	

Configuration Table

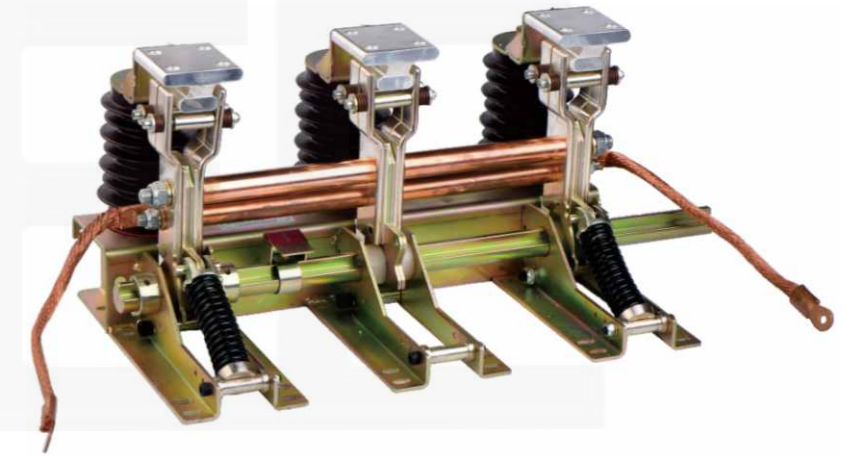
Type	A	B	C	D	L
JN17-12/40-210	210	544	655	516	655
JN17-12/40-230	230	584	695	556	695
JN17-12/40-250	250	624	735	596	735
JN17-12/40-275	275	674	785	646	810

Outline and Installation Dimensions



Earthing switch

JN15-12/50



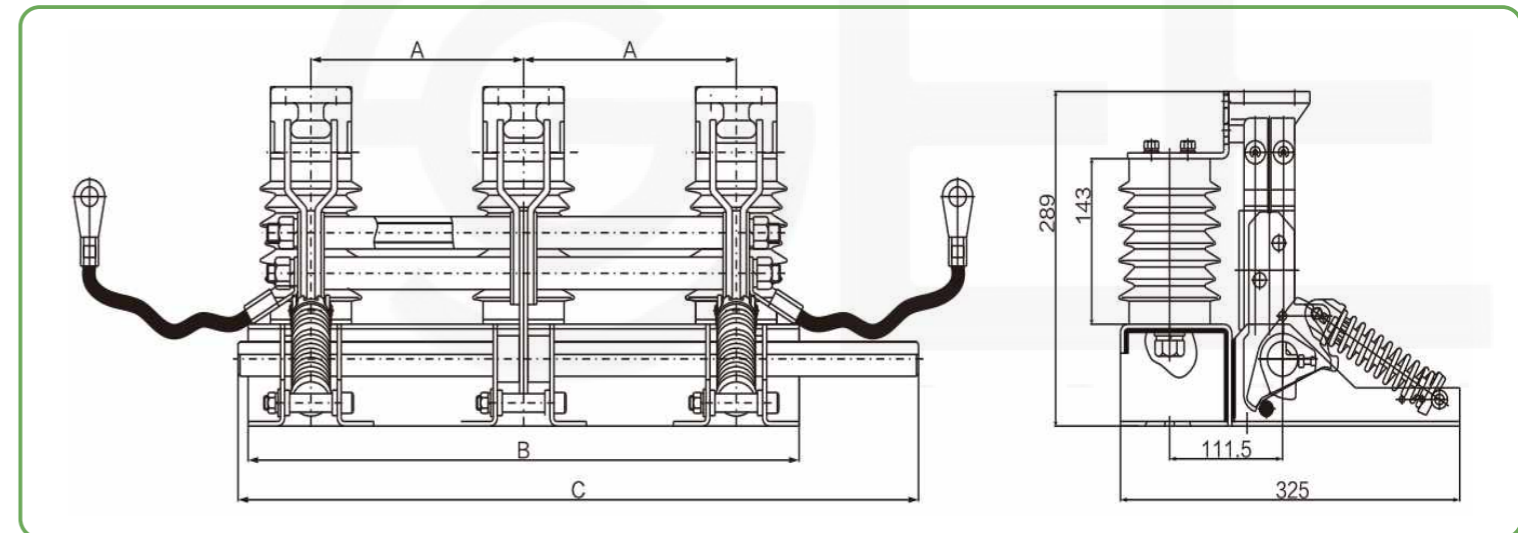
Main Technical Parameter

Contents		Units	Parameters	
Rated Voltage		kV	12	
Rated short-time withstand current		kA	50	
Rated short-circuit duration		s	2	
Rated short-circuit closing current		kA	125	
Rated peak withstand current		kA	125	
Rated insulation level	Rated short-time frequency withstand voltage (1min)	kV	Phase-to-ground and phase-to-phase	42
	Rated lightning impulse withstand voltage (peak)			75
Mechanical life		time	3000	

Configuration Table

Type	A	B	C	D
JN15-12/50-210	210	544	657	516
JN15-12/50-250	250	624	747	596
JN15-12/50-275	275	674	810	646

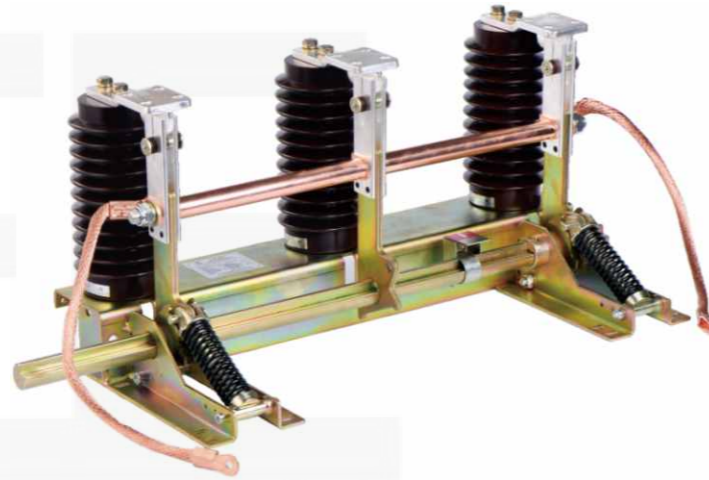
Outline and Installation Dimensions



Earthing Switch

Earthing switch

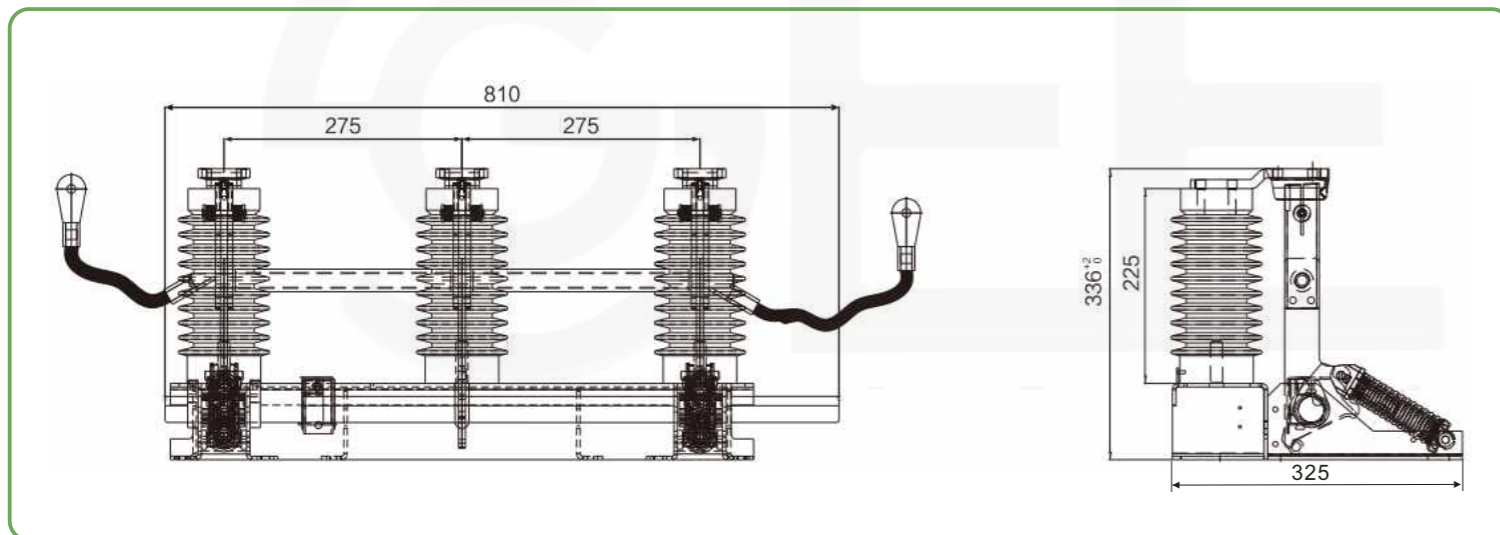
JN15-24/31.5



Main Technical Parameter

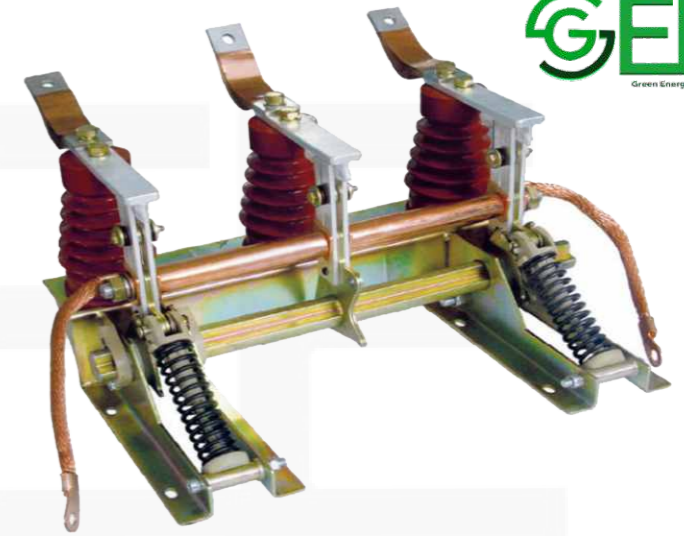
Contents		Units	Parameters	
Rated Voltage		kV	24	
Rated short-time withstand current		kA	21.5	
Rated short-circuit duration		s	4	
Rated short-circuit closing current		kA	80	
Rated peak withstand current		kA	80	
Rated insulation level	Rated short-time frequency withstand voltage (1min)	kV	Phase-to-ground and phase-to-phase	65
	Rated lightning impulse withstand voltage (peak)			125
Mechanical life		time	3000	

Outline and Installation Dimensions



Earthing switch

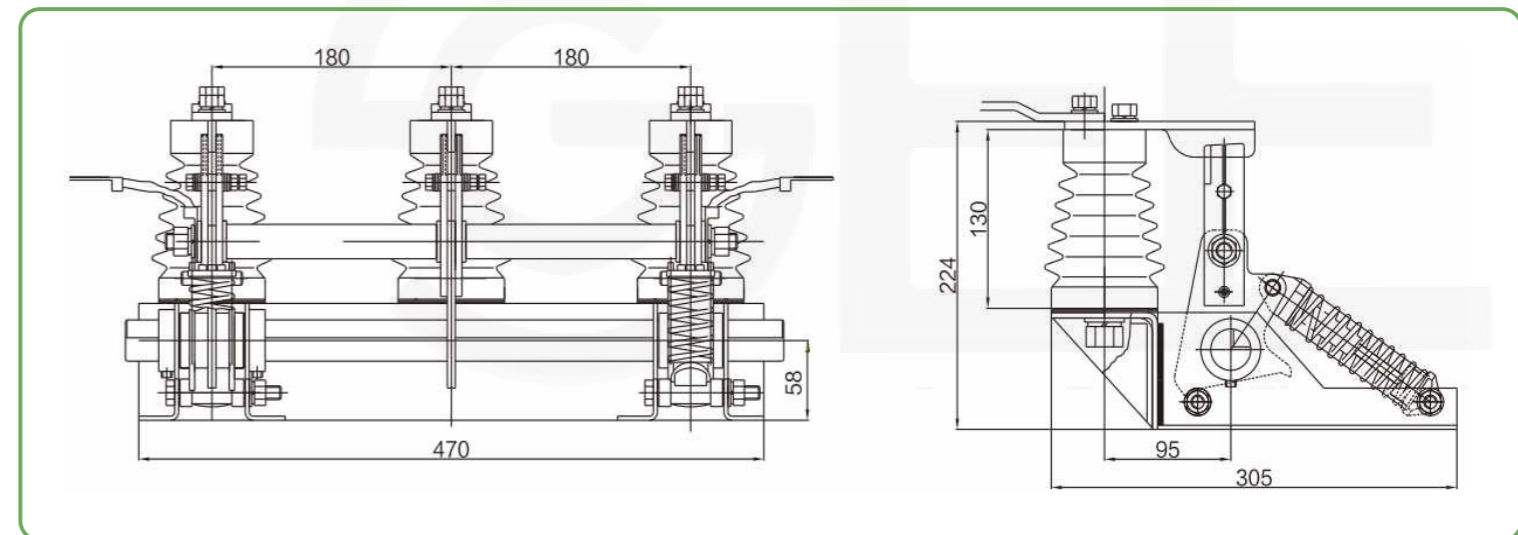
JN-40.5/31.5



Main Technical Parameter

Contents		Units	Parameters	
Rated Voltage		kV	40.5	
Rated short-time withstand current		kA	31.5	
Rated short-circuit duration		s	2	
Rated short-circuit closing current		kA	80	
Rated peak withstand current		kA	80	
Rated insulation level	Rated short-time frequency withstand voltage (1min)	kV	Phase-to-ground and phase-to-phase	95
	Rated lightning impulse withstand voltage (peak)			185
Mechanical life		time	3000	

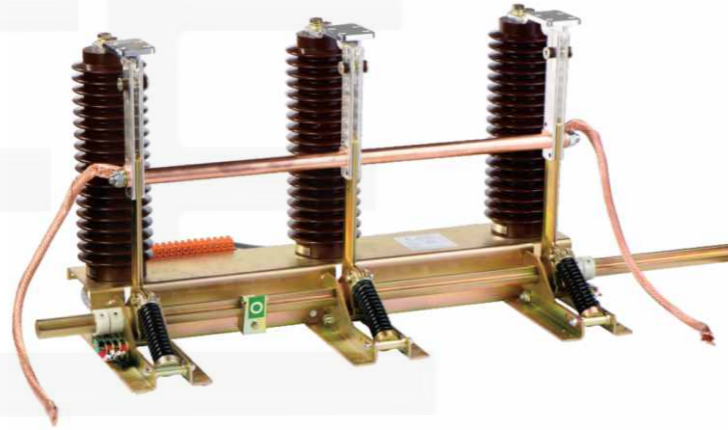
Outline and Installation Dimensions



Earthing Switch

Earthing switch

JN22B-40.5/31.5



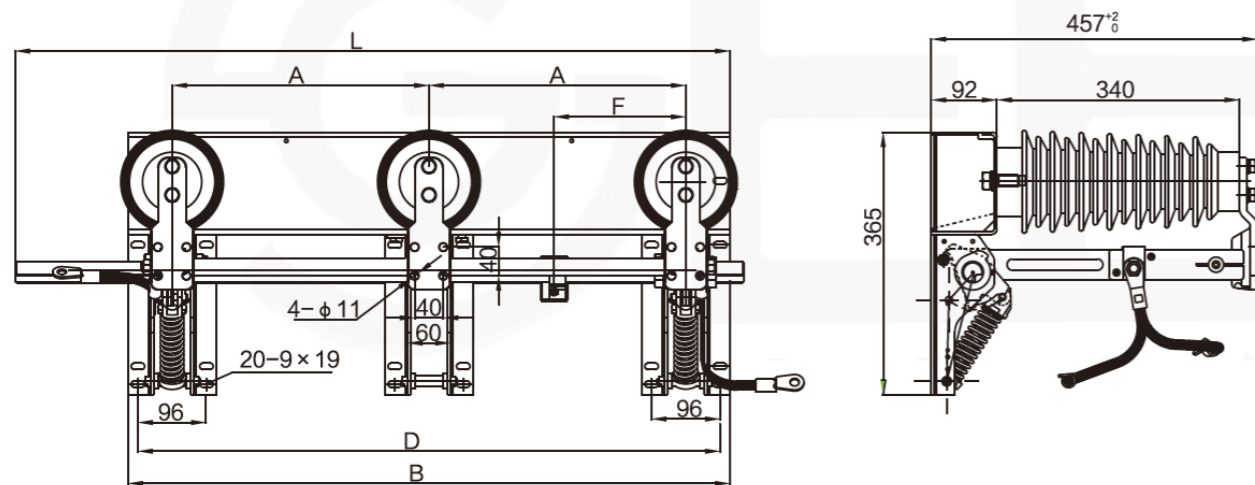
Main Technical Parameter

Contents		Units	Parameters	
Rated Voltage		kV	40.5	
Rated short-time withstand current		kA	31.5	
Rated short-circuit duration		s	4	
Rated short-circuit closing current		kA	80	
Rated peak withstand current		kA	80	
Rated insulation level	Rated short-time frequency withstand voltage (1min)	kV	Phase-to-ground and phase-to-phase	95
	Rated lightning impulse withstand voltage (peak)			185
Mechanical life		time	3000	

Configuration Table

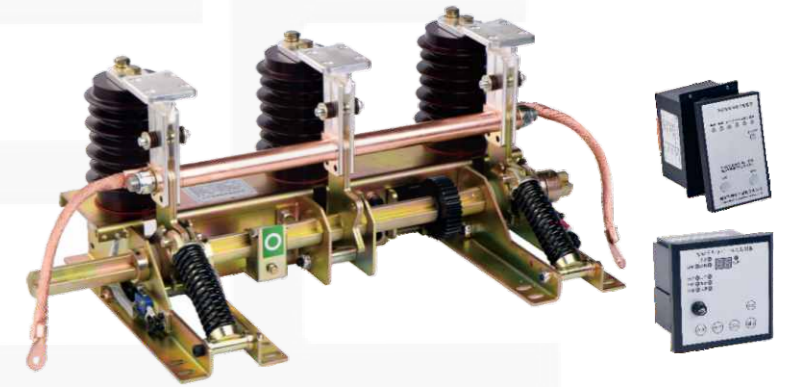
Type	A	B	C	F	L
JN22B-40.5/31.5-300	300	696	724	150	1100
JN22B-40.5/31.5-330	330	756	784	165	1160
JN22B-40.5/31.5-360	360	816	844	180	1200

Outline and Installation Dimensions



Electric earthing switch

JN15-12/D31.5



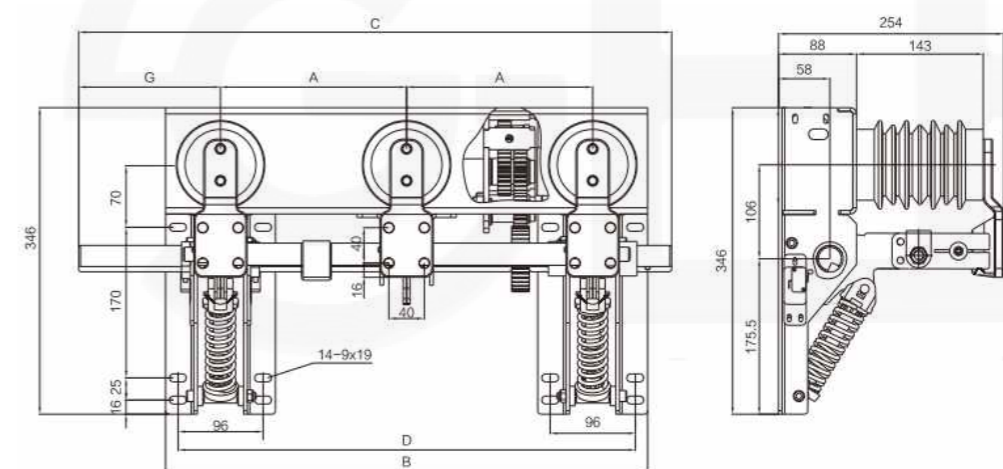
Product Overview

JN15-12/D31.5 electric earthing switch is researched and developed independently by our company with refers to the current state stand and IEC stand, its electric operating mechanism is combined with the earthing switch, and the installation result of the earthing switch is not changed. It has the advantage of a reasonable design, reliable electrical and mechanical properties, and convenient installation and maintenance. At present, it has passed all type of tests in the mechanical industry high-voltage electrical products quality testing center

Configuration Table

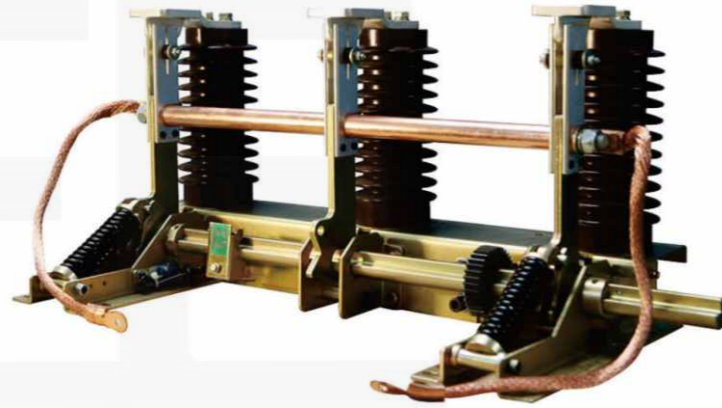
Type	A	B	C	D	G
JN15-12/D31.5-210	210	544	670	516	160
JN15-12/D31.5-275	275	674	800	646	160

Outline and Installation Dimensions



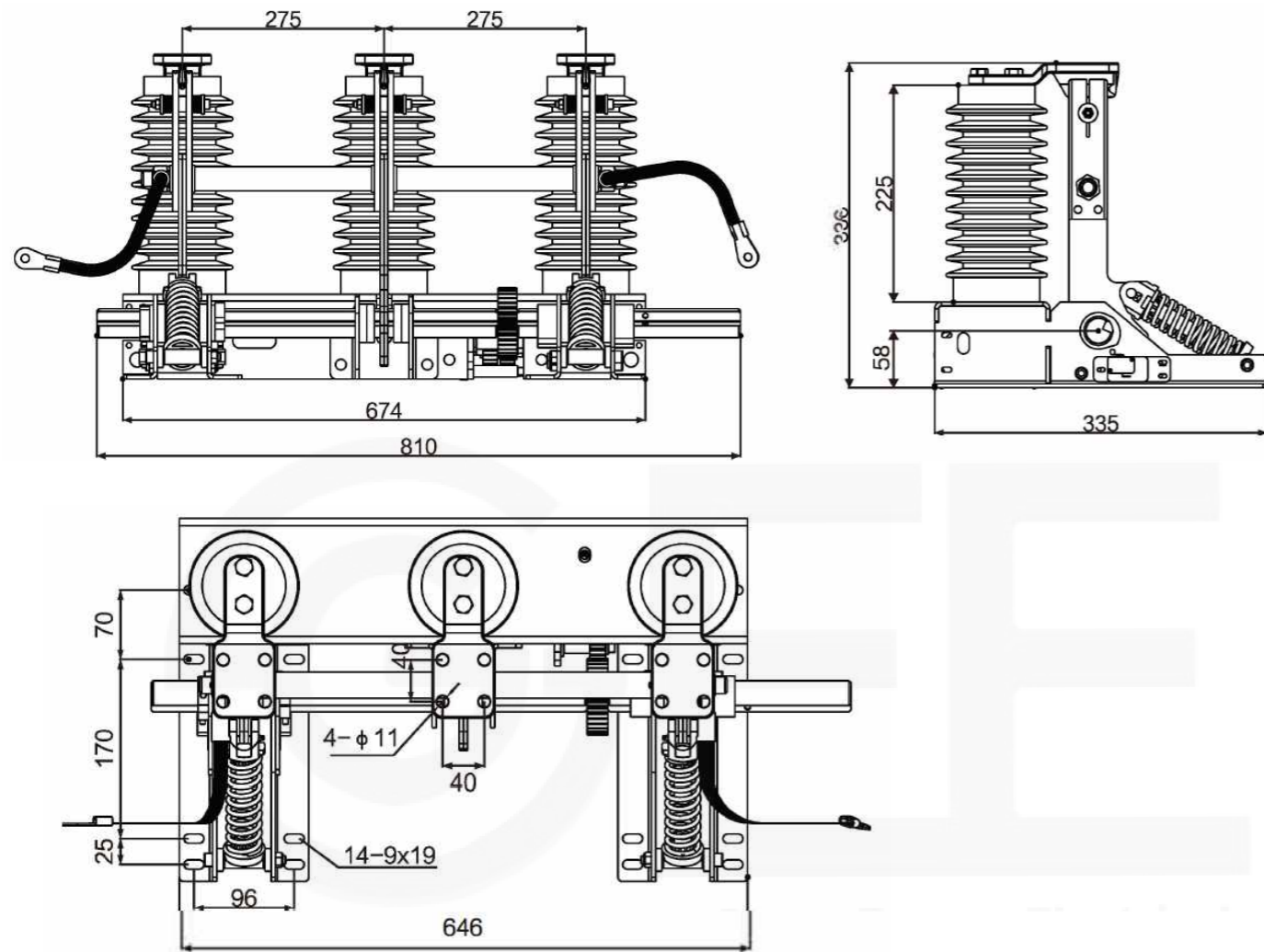
Earthing Switch

Electric earthing switch



JN15-24/D31.5

Outline and Installation Dimensions

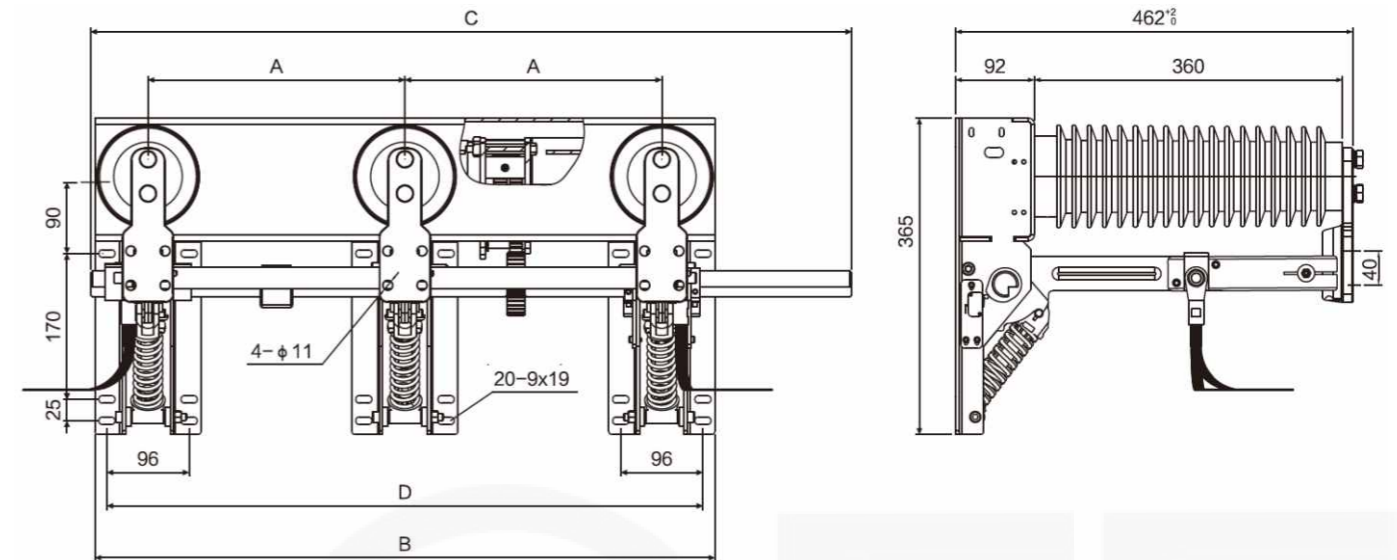


Electric earthing switch



JN22B-40.5/D31.5

Outline and Installation Dimensions



Type	A	B	C	D
JN22B-40.5/D31.5-280	280	684	1060	656
JN22B-40.5/D31.5-300	300	724	1100	696
JN22B-40.5/D31.5-350	350	824	1200	796

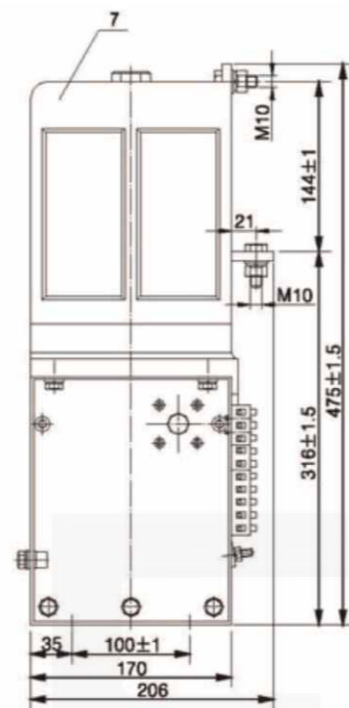
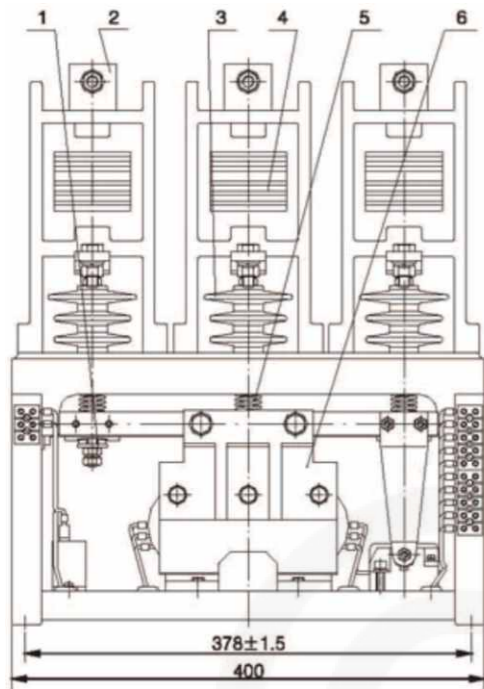
Vacuum Contactor

Medium voltage vacuum contactor

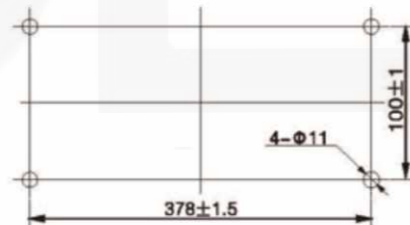
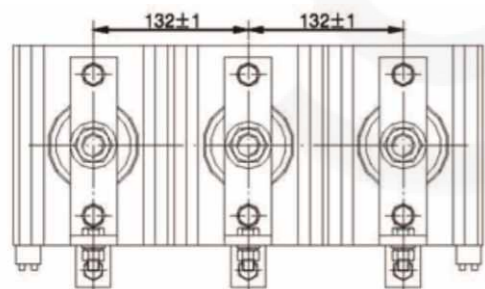


CKG3-160-630/7.2

Outline and Installation Dimensions



1. Adjusting nut
2. Stationary terminal conducting busbar
3. Insulator
4. Vacuum switch tube
5. Contact spring
6. Transmission shaft
7. Insulation frame



Main Technical Parameter

Contents	Units	Parameters			
Main circuit rated voltage	kV	7.2			
Main circuit rated current	A	160	250	400	630
Main circuit current making ability	A/100time	1600	2500	4000	6300
Main circuit break-make ability	A/25time	1280	2000	3200	5000
Maximum break ability	A/3time	3200	3200	4000	6300
Mechanical life	time	1000000			
Engineering lock life	time	100000			
Power-frequency withstand voltage for main circuit	kV	32			
Power-frequency withstand voltage for auxillary circuit	kV	2.5			
Power-frequency withstand voltage for control circuit	kV	2			
Rated operate frequency	time/h	300			
Engineering lock operate frequency	time/h	30			
Clearance between open contacts	mm	4±0.5			
Over travel	mm	≥1.2			

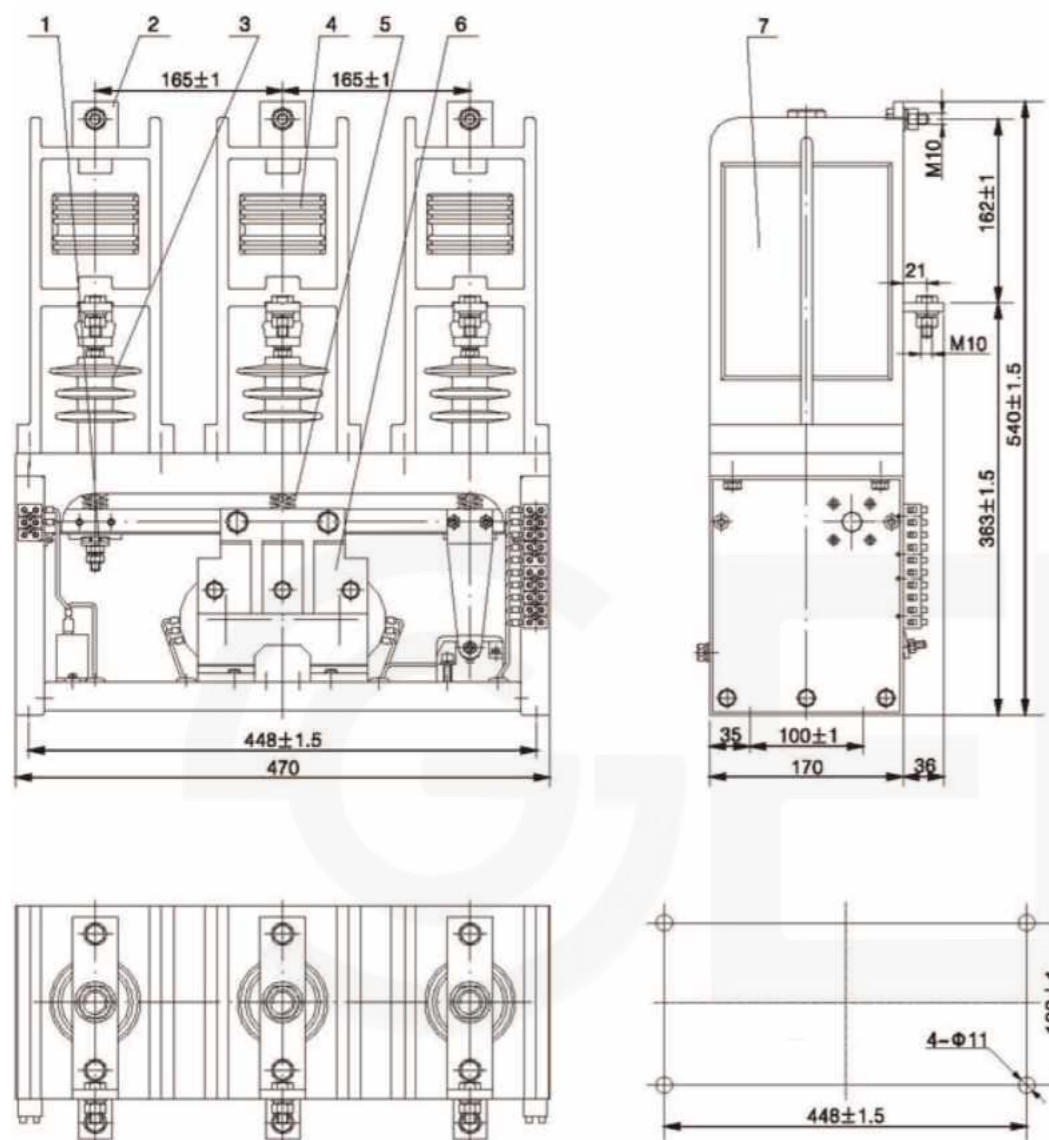
Vacuum Contactor

Medium voltage vacuum contactor

CKG4-160-630/12



Outline and Installation Dimensions



1. Adjusting nut
2. Stationary terminal conducting busbar
3. Insulator
4. Vacuum switch tube
5. Contact spring
6. Transmission shaft
7. Insulation frame

Main Technical Parameter

Contents	Units	Parameters			
Main circuit rated voltage	kV	12			
Main circuit rated current	A	160	250	400	630
Main circuit current making ability	A/100time	1600	2500	4000	6300
Main circuit break-make ability	A/25time	1280	2000	3200	5000
Maximum break ability	A/3time	3200	3200	4000	6300
Mechanical life	time	1000000			
Engineering lock life	time	100000			
Power-frequency withstand voltage for main circuit	kV	42			
Power-frequency withstand voltage for auxillary circuit	kV	2.5			
Power-frequency withstand voltage for control circuit	kV	2			
Rated operate frequency	time/h	300			
Engineering lock operate frequency	time/h	30			
Clearance between open contacts	mm	5±0.5			
Over travel	mm	≥1.2			

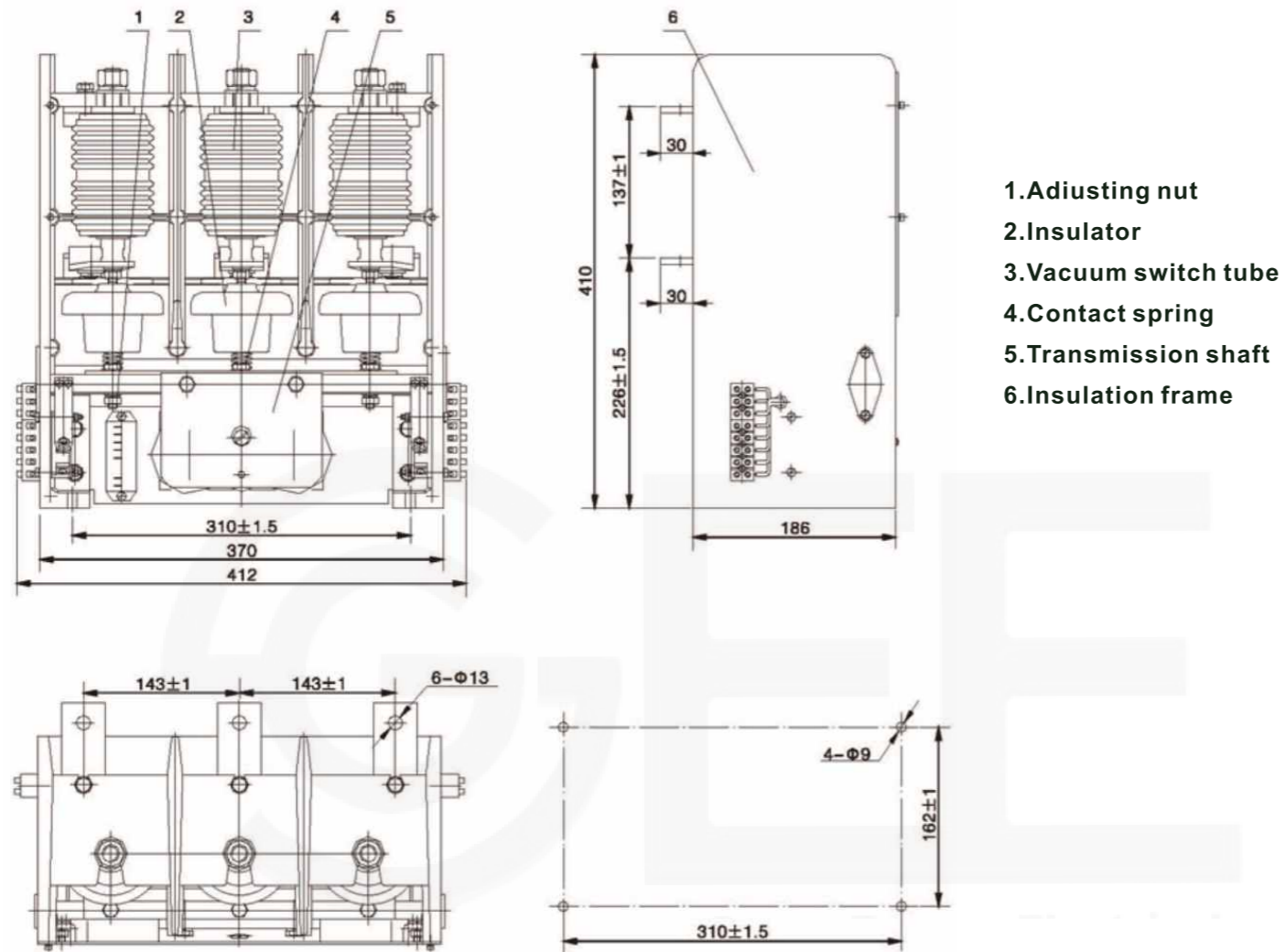
Vacuum Contactor

Medium voltage vacuum contactor



JCZ5-160-630/7.2

Outline and Installation Dimensions



Main Technical Parameter

Contents	Units	Parameters			
Main circuit rated voltage	kV	7.2			
Main circuit rated current	A	160	250	400	630
Main circuit current making ability	A/100time	1600	2500	4000	6300
Main circuit break-make ability	A/25time	1280	2000	3200	5000
Maximum break ability	A/3time	3200	3200	4000	6300
Mechanical life	time	1000000			
Engineering lock life	time	300000			
Power-frequency withstand voltage	kV	32			
Rated frequency	Hz	50			
Opening time	ms	≤120			
Closing time	ms	≤150			
Clearance between open contacts	mm	4±0.5			
Over travel	mm	≥1.2			

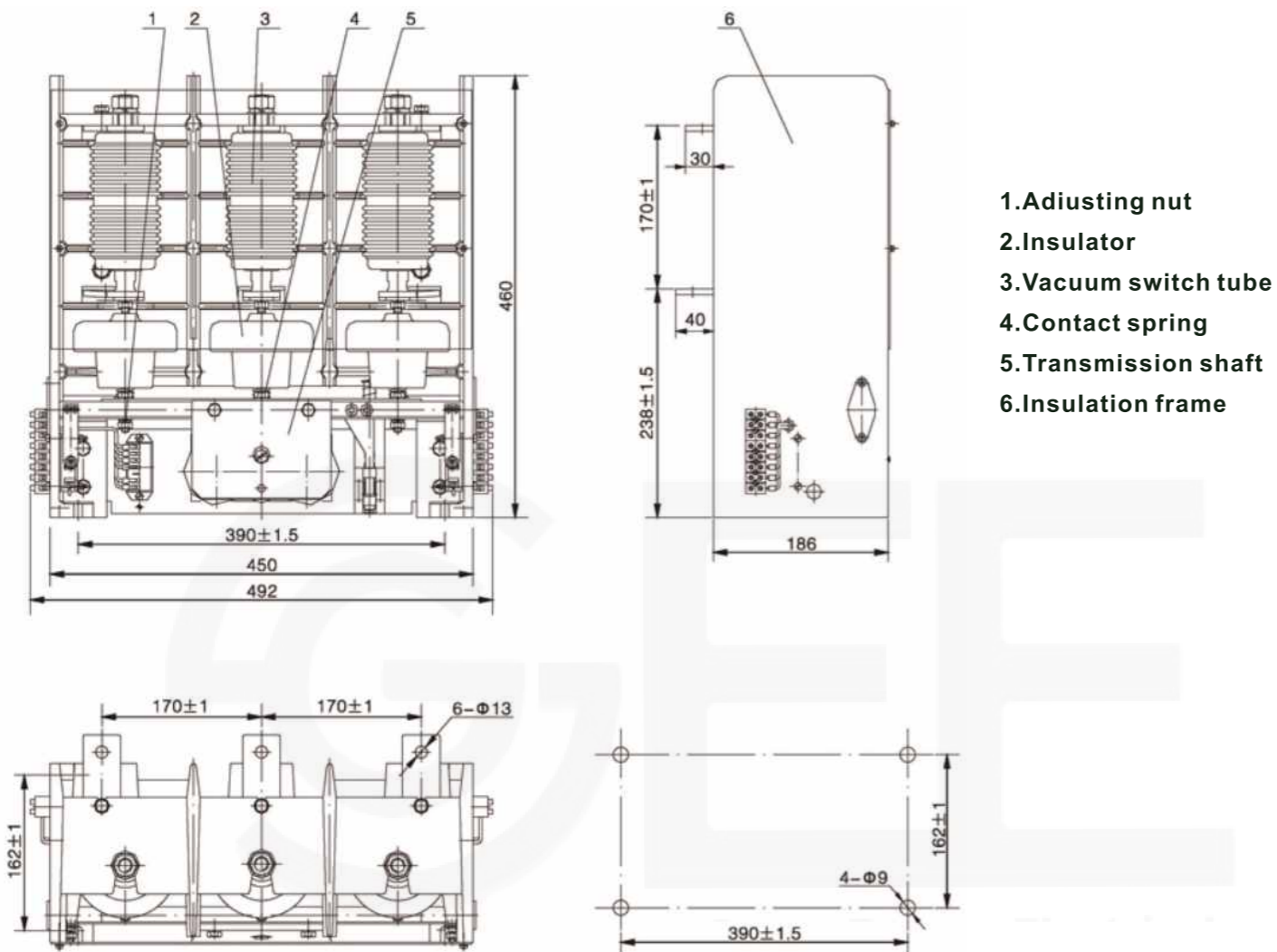
Vacuum Contactor

Medium voltage vacuum contactor



JCZ5-160-630/12

Outline and Installation Dimensions



Main Technical Parameter

Contents	Units	Parameters			
Main circuit rated voltage	kV	12			
Main circuit rated current	A	160	250	400	630
Main circuit current making ability	A/100time	1600	2500	4000	6300
Main circuit break-make ability	A/25time	1280	2000	3200	5000
Maximum break ability	A/3time	3200	3200	4000	6300
Mechanical life	time	1000000			
Engineering lock life	time	300000			
Power-frequency withstand voltage	kV	42			
Rated frequency	Hz	50			
Opening time	ms	≤120			
Closing time	ms	≤150			
Clearance between open contacts	mm	5±0.5			
Over travel	mm	≥1.2			

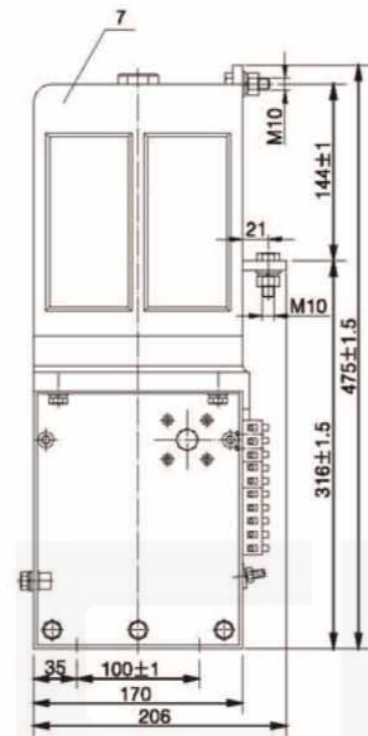
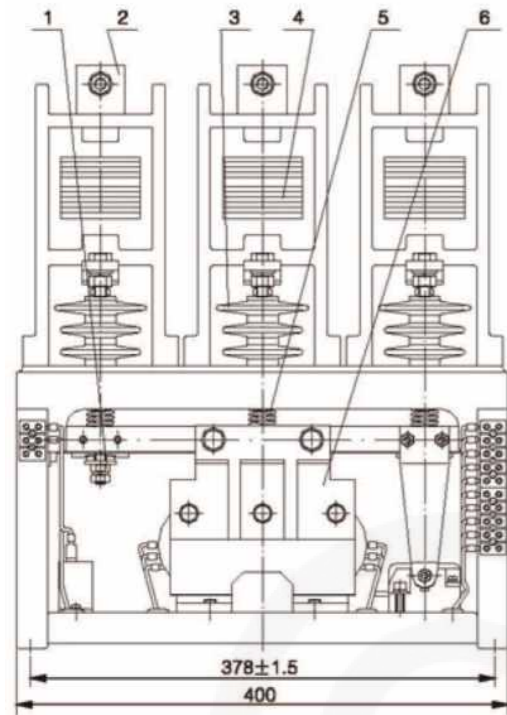
Vacuum Contactor

Medium voltage vacuum contactor

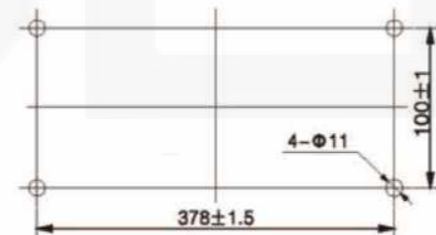
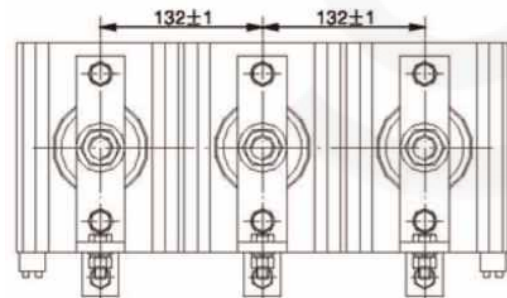


JCZ8-160-630/7.2

Outline and Installation Dimensions



1. Adjusting nut
2. Stationary terminal conducting busbar
3. Insulator
4. Vacuum switch tube
5. Contact spring
6. Transmission shaft
7. Insulation frame



Main Technical Parameter

Contents	Units	Parameters			
Main circuit rated voltage	kV	7.2			
Main circuit rated current	A	160	250	400	630
Main circuit current making ability	A/100time	1600	2500	4000	6300
Main circuit break-make ability	A/25time	1280	2000	3200	5000
Maximum break ability	A/3time	3200	3200	4000	6300
Mechanical life	time	1000000			
Engineering lock life	time	100000			
Power-frequency withstand voltage for main circuit	kV	32			
Power-frequency withstand voltage for auxillary circuit	kV	2.5			
Power-frequency withstand voltage for control circuit	kV	2			
Rated operate frequency	time/h	300			
Engineering lock operate frequency	time/h	30			
Clearance between open contacts	mm	4±0.5			
Over travel	mm	≥1.2			

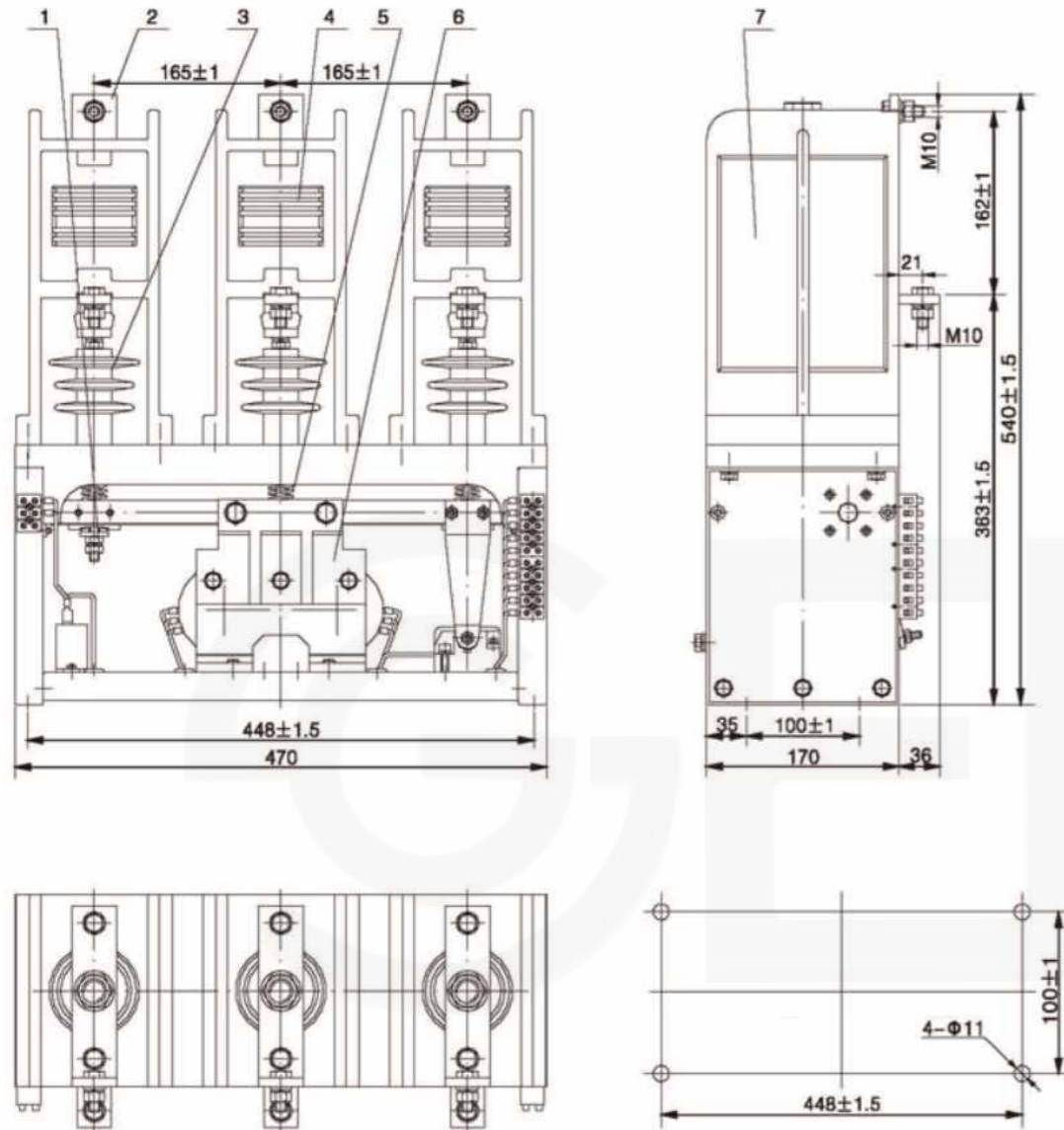
Vacuum Contactor

Medium voltage vacuum contactor



JCZ8-160-630/12

Outline and Installation Dimensions



1. Adjusting nut
2. Stationary terminal conducting busbar
3. Insulator
4. Vacuum switch tube
5. Contact spring
6. Transmission shaft
7. Insulation frame

Main Technical Parameter

Contents	Units	Parameters			
Main circuit rated voltage	kV	12			
Main circuit rated current	A	160	250	400	630
Main circuit current making ability	A/100time	1600	2500	4000	6300
Main circuit break-make ability	A/25time	1280	2000	3200	5000
Maximum break ability	A/3time	3200	3200	4000	6300
Mechanical life	time	1000000			
Engineering lock life	time	100000			
Power-frequency withstand voltage for main circuit	kV	42			
Power-frequency withstand voltage for auxillary circuit	kV	2.5			
Power-frequency withstand voltage for control circuit	kV	2			
Rated operate frequency	time/h	300			
Engineering lock operate frequency	time/h	30			
Clearance between open contacts	mm	5±0.5			
Over travel	mm	≥1.2			

Vacuum Contactor

Medium voltage vacuum contactor

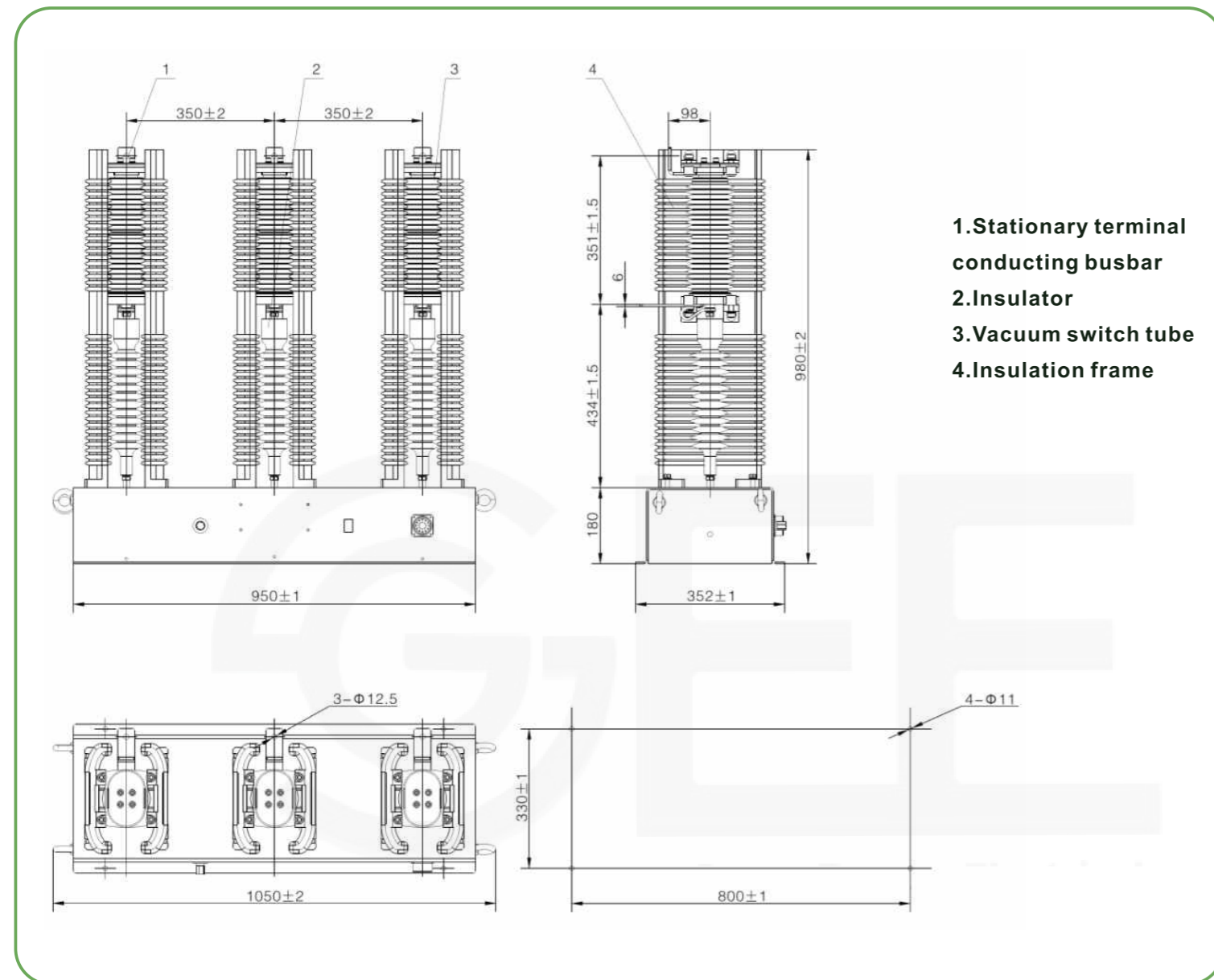


Main Technical Parameter

Contents	Units	Parameters
Main circuit rated voltage	kV	40.5
Main circuit rated current	A	630
Rated making current	A/100time	6000
Rated break current	A/50time	5000
Maximum break ability	A/3time	6000
Mechanical life	time	100000
Engineering lock life	time	50000
Power-frequency withstand voltage	kV	95
Rated frequency	Hz	50
Opening time	ms	≤50
Closing time	ms	≤80
Clearance between open contacts	mm	16±1.5
Over travel	mm	≥2

JCZ6-160-630/40.5

Outline and Installation Dimensions



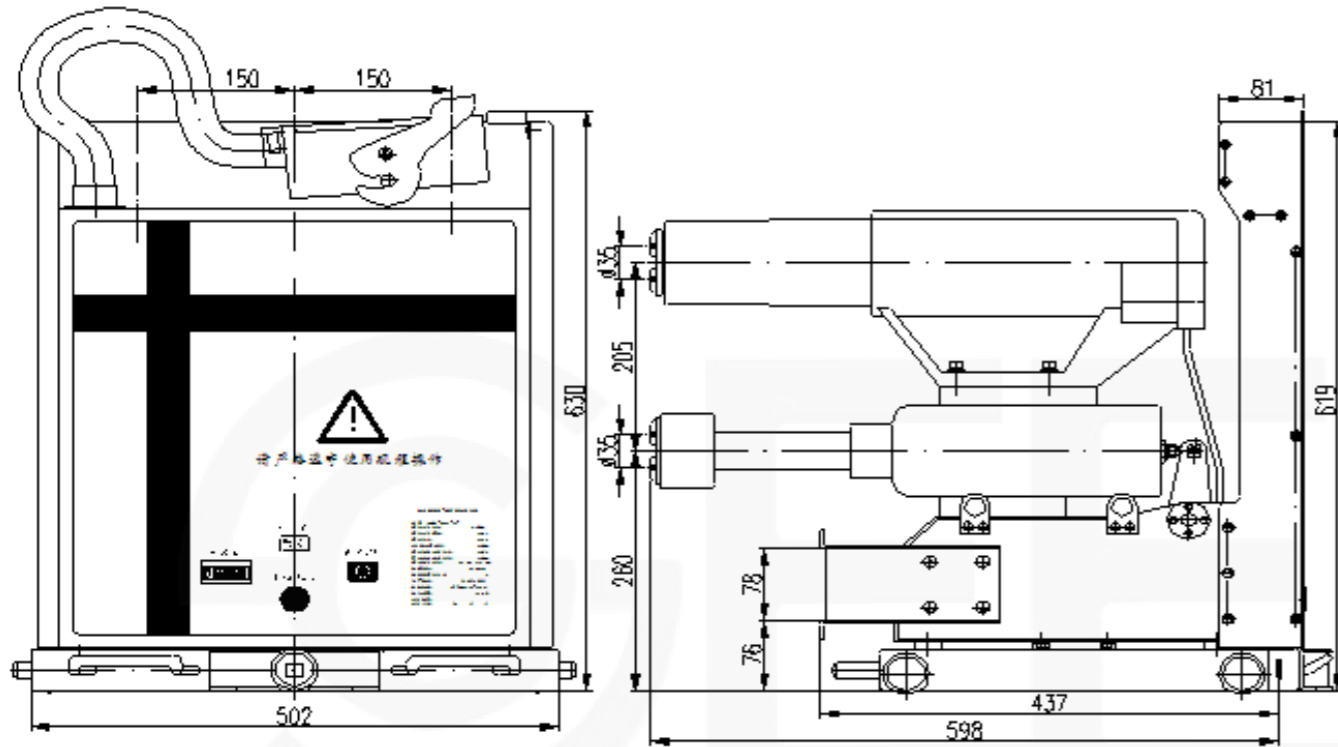
Vacuum Contactor

FC 12-40-125 Magnetic Vacuum Contactor With Fuse for KYN28

FC 12-40-125



Outline and Installation Dimensions



Main Technical Parameter

Contents	Units	Parameters	
Rated Voltage	kV	12	7.2
Rated current	A	400	
Rated opening current	kA	3.2	
Rated closing current	kA	4	
Limit Breaking Capacity		4.5	
4S Rated short-time withstand current		4	
Peak withstand current	kA	10	
1S overload withstand current	kA	6	
1min rated frequency withstand voltage		42	32
Lightning impact withstand voltage	kV	75	60
Control circuit frequency withstand voltage	V	2	
Rated operating voltage	V	220(AC or DC)	
Operating voltage range	V	75%-110%	
Maximum operating current	A	<7.5	
Auxiliary contact rated current	A	5	
Mechanical life	time	500000	
Rated operating frequency	Ac3 time	300	
Short-time operation frequency	time/h (20s)	600	
Closing time	ms	≤40	
Breaking time	ms	≤35	
Average closing speed	m/s	≥0.4	
Average opening speed	m/s	≥0.45	
Three-phase non-simultaneous time	ms	≤5	
Contact opening distance	mm		
Overtravel	mm	≥1.5	
Main circuit resistance	μ Ω	≤150	

Chassis truck

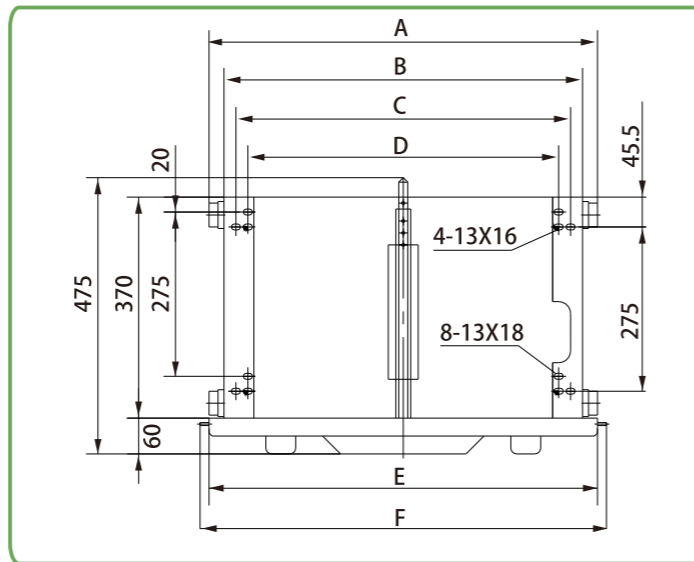
DPC-4-□



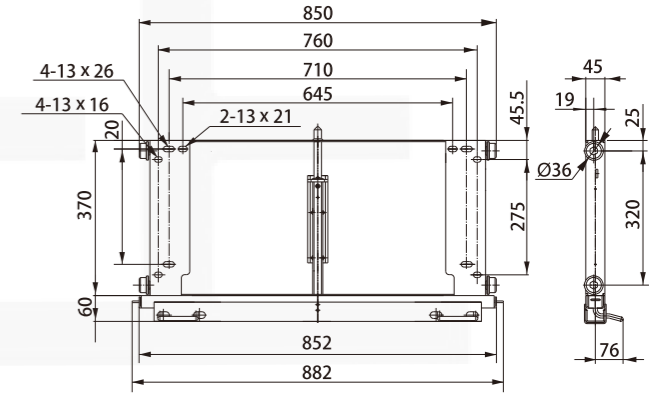
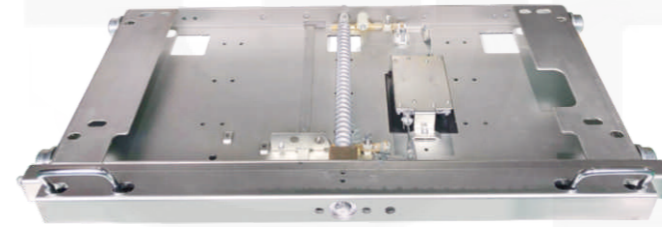
Configuration Table

Type	A	B	C	D	E	F
DPC-4-650	500	450	410	385	502	535
DPC-4-800	650	600	560	520	652	685
DPC-4-1000	850	800	760	720	852	885

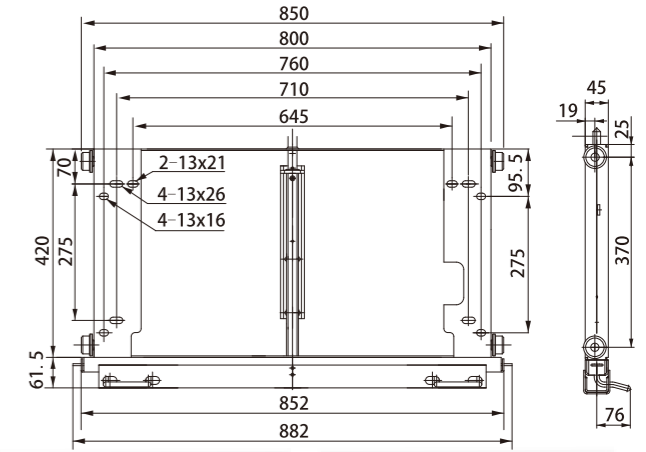
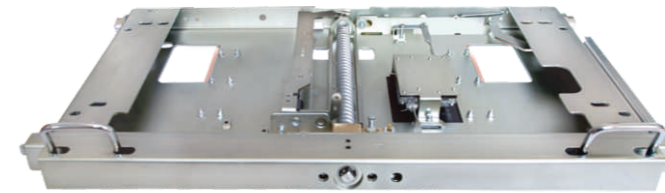
Outline and Installation Dimensions



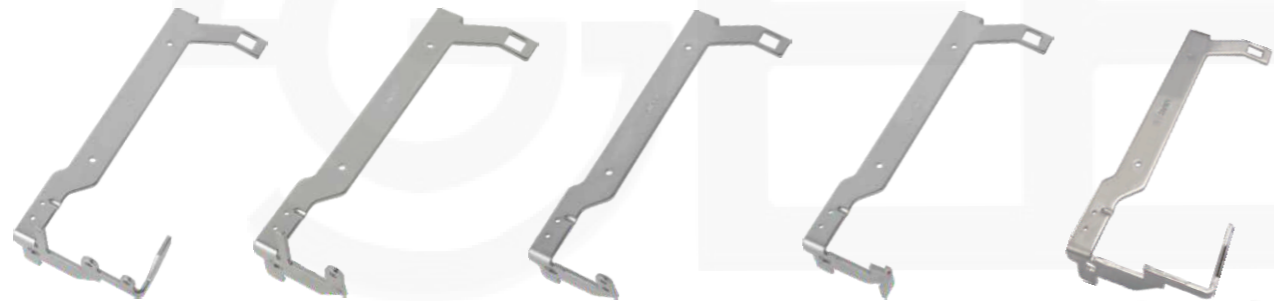
DPC-4-1000/T



DPC-4-1000/24



Lock plate of the Chassis



8XS.141.012

8XS.141.012.1

8XS.141.012.2

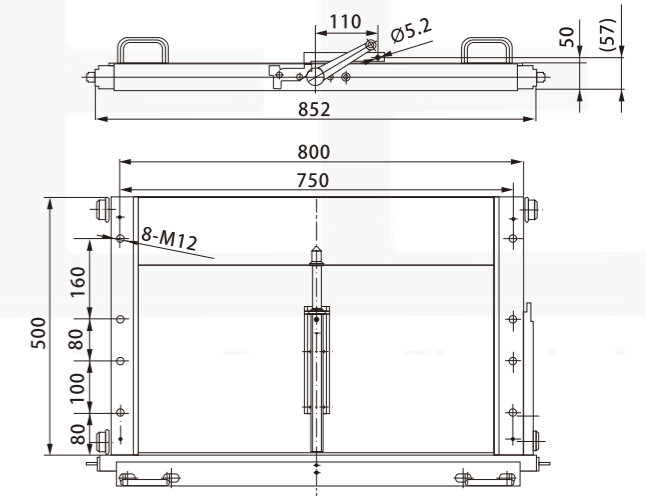
8XJ.141.050.2

8XS.141.012S(VS1+)

DPC-4-1000/YH3



Suitable for 3AH, ZN12, ZN28, ZN65



Electric Chassis truck

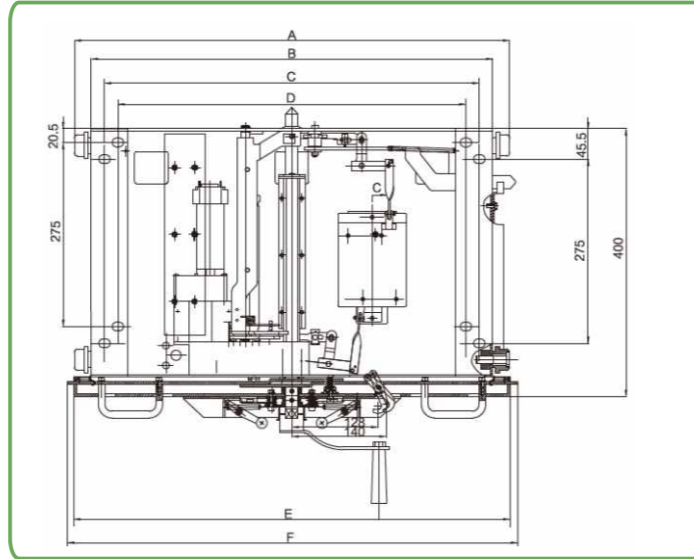
DPC-4-□/D



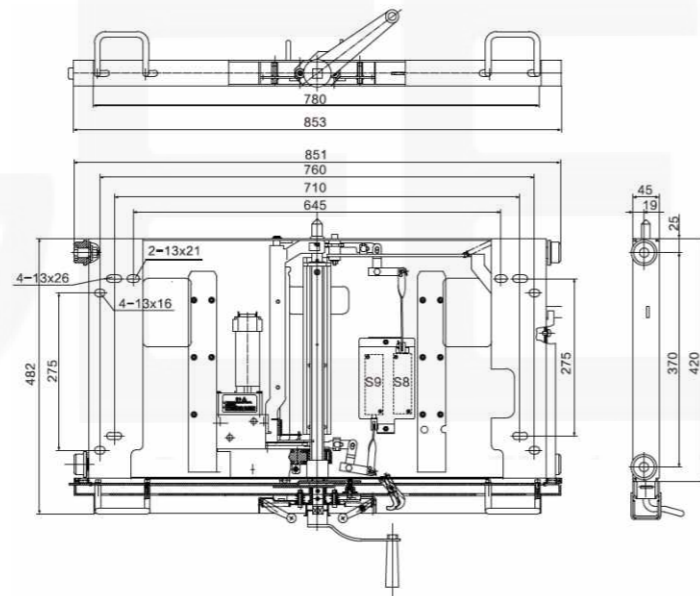
Configuration Table

Type	A	B	C	D	E	F
DPC-4-650/D	500	450	410	385	502	535
DPC-4-800/D	650	600	560	520	652	685
DPC-4-1000/D	850	800	760	720	852	885

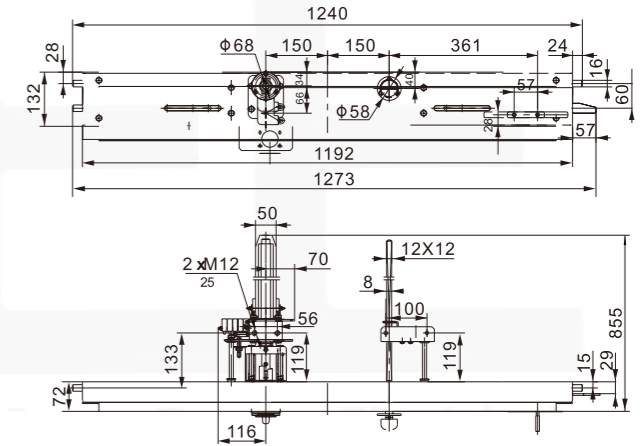
Outline and Installation Dimensions



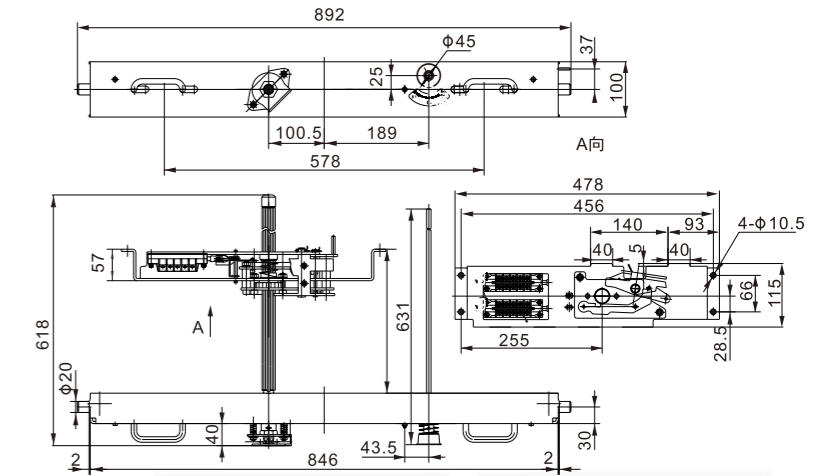
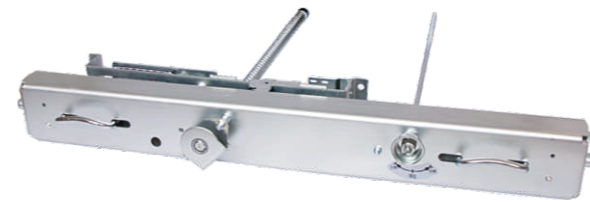
DPC-4-24/D



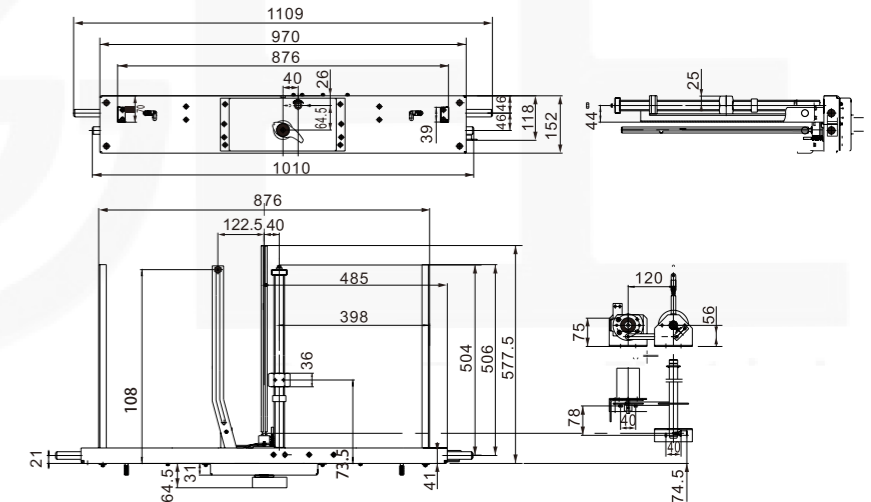
TJ-1-1400 for NZ85



TJ-3-□ for VD4-40.5

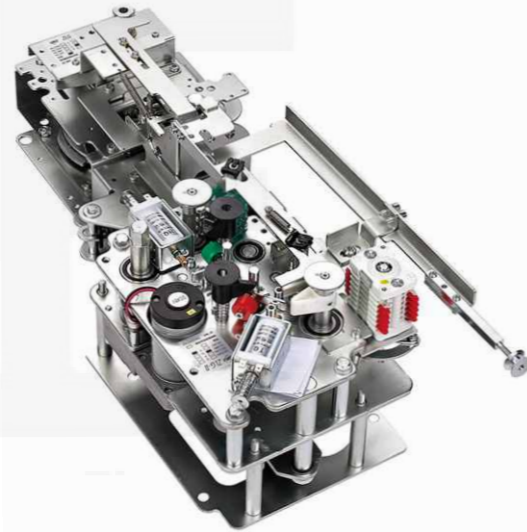


TJ-4-1400 for Nz85B

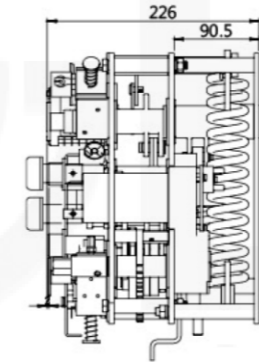
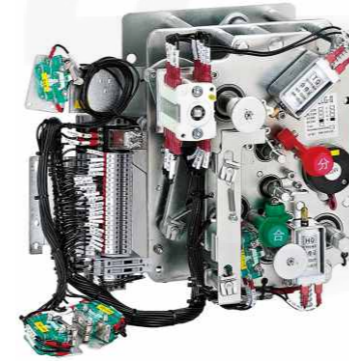


Spring operating mechanism

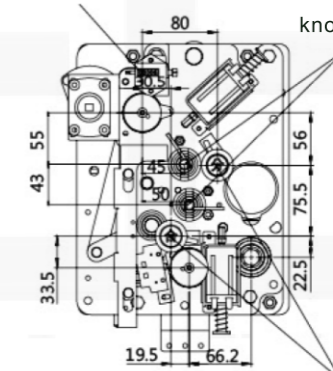
WL-□/□



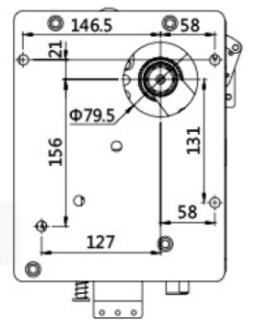
Circuit breaker mechanism WL-07/V



counters position



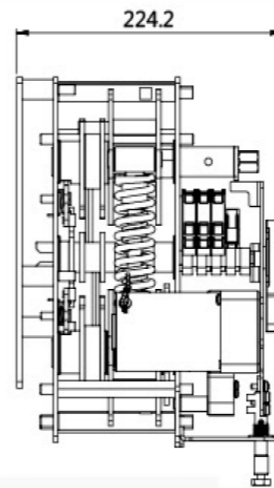
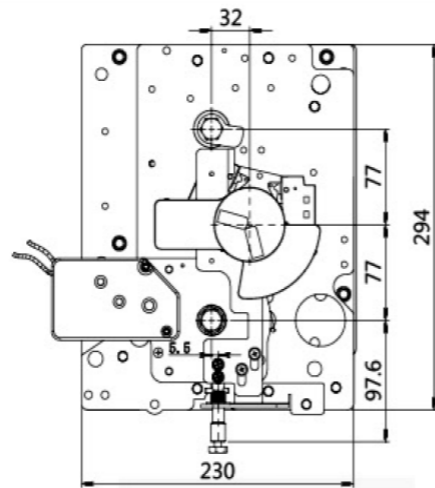
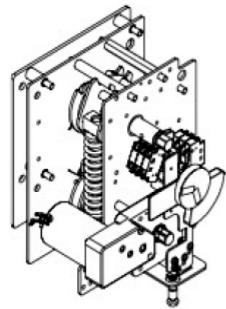
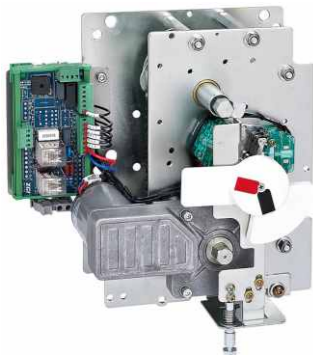
knobs position



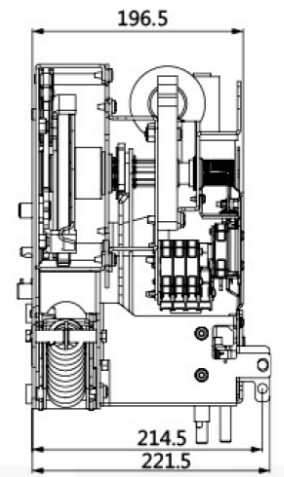
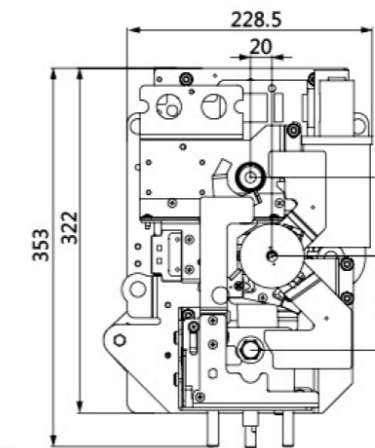
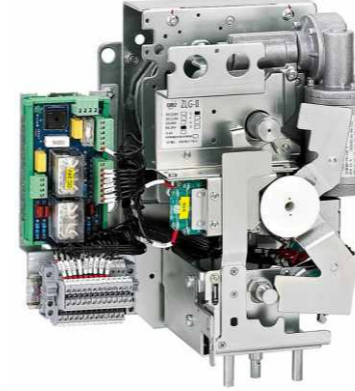
buttons position

Counters position and buttons position can only be selected from one of the options

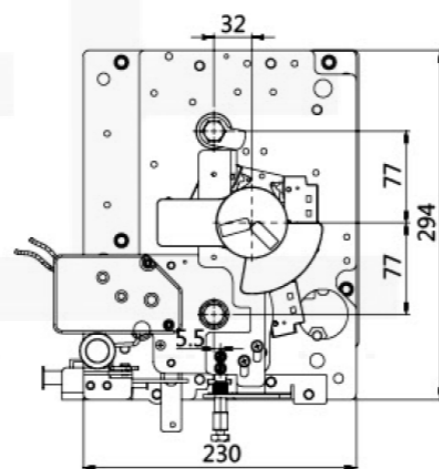
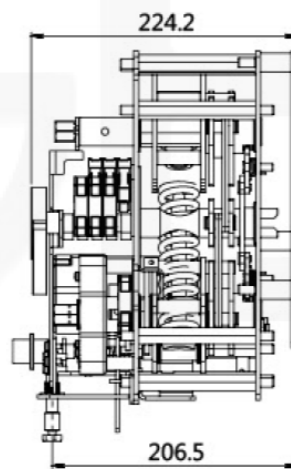
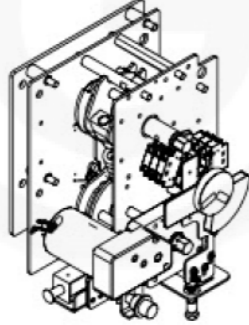
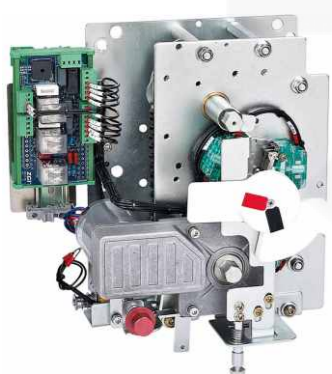
Incoming mechanism WL-01/C



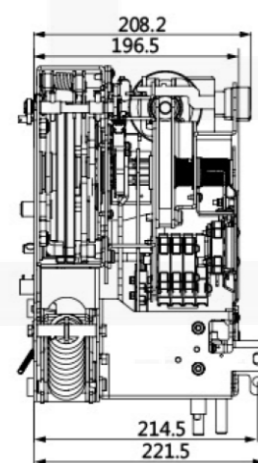
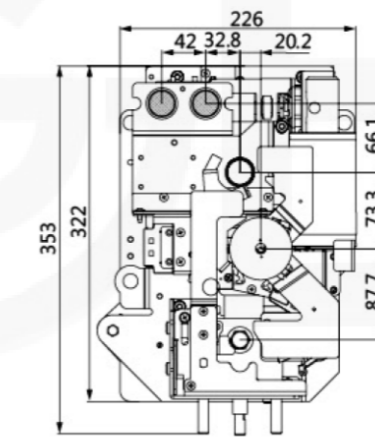
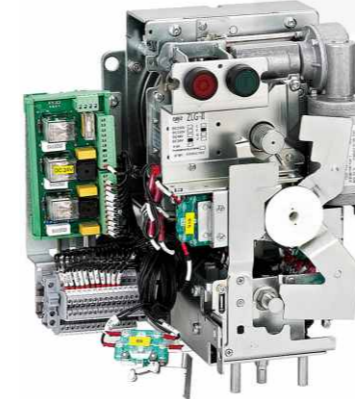
Incoming mechanism WL-03/C



Outlet mechanism WL-01/F

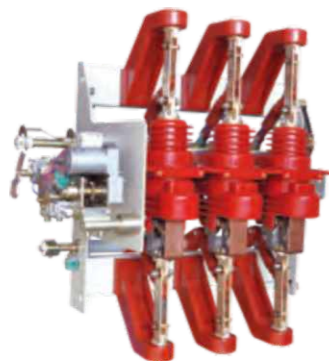


Outlet mechanism WL-03/F



VXJ-12 Sealed vacuum circuit breaker

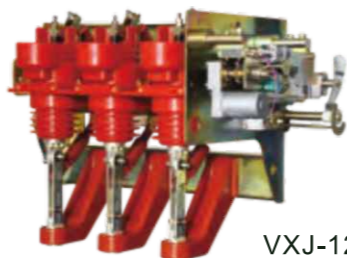
- Environmental Dry gas
- Miniaturised switchgear
- Wide:500/550/600
- Depth:940



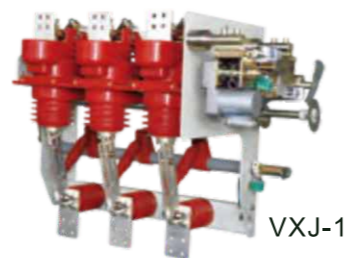
VXJ-12G



VXJ-12D



VXJ-12

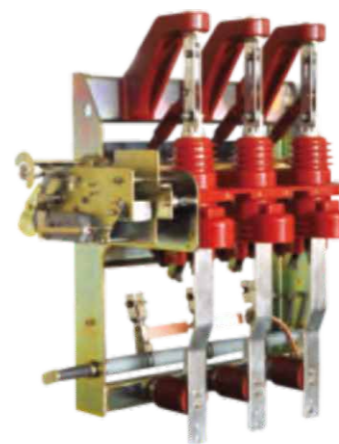


VXJ-12

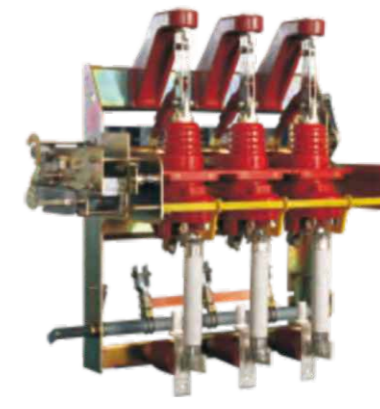
Main Technical Parameter

Contents		Units	Parameters
Rated Voltage		kV	12
Rated insulation level	Power Frequency Withstand Voltage (1min)	kV	24/48
	Thundering Impulsive Withstand Voltage		75
	Thundering Impulsive Withstand		85
Rated Frequency		Hz	50
Rated Current		A	630,1250
Rated single/back-to-back capacitor bank switching on and off current		A	400
Rated Short Circuit Breaking Current		kA	20,25
Duration of Rated Short-time(stabilization time)	Breaker	s	4
	Disconnecter		4
	Earthing switch		2
Rated Short-time Withstand Current	Breaker	kA	20,25
	Disconnecter		20,25
	Earthing switch		20,25
Rated Short-circuit Breaking Current(Peak)		kA	50,63
Rated Operation sequence			O-03.s-CO-180s-CO
Closing time		ms	≤100
Opening time		ms	≤50
Rated Short Circuit Current Breaking number		time	20
Life time		time	10000

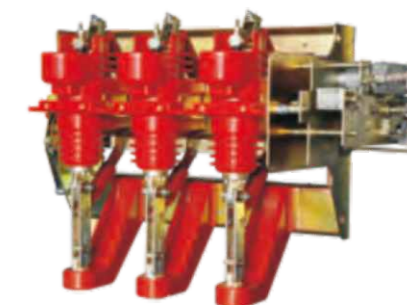
VFXJ-12RD Sealed vacuum load breaker



VFXJ-12D



VFXJ-12RD



VFXJ-12

Contents	Units	VFXJ-12D	VFXJ-12RD
		Load switch	Composite apparatus
Rated Voltage	kV	12	12
Rated Frequency	Hz	50	50
Rated Current	A	630	125
1 min Power Frequent Withstand	kV	Arc chute breaking switch	42
		Althernate with,to earth	42
		Disconnecter breaking switch	48
Thundering Impulsive	kV	Arc chute,Althernate with,to earth	75
		Disconnecter breaking switch	85
Duration of Rated Short-time (stabilization time)	s	Load switch	4
		Disconnecter	4
		Earthing switch	2
Rated Short-time Withstand Current	kA	Load switch	20
		Disconnecter	20
		Earthing switch	20
Rated Short-circuit Breaking Current(Peak)		kA	50
Rated breaking current	A	Active load switching on and off current	630
		Closed loop on off current	630
		5%Active load switching on and off current	31.5
		Cable charging current	10
Rated take-over current		A	3150
Rated short circuit breaking current		kA	100
Life time		time	10000
Disconnecter life time		time	3000