

GEIS

RC+

Z6 molded case circuit breaker

GEIS Electrical Protection

Safer Smarter Greener



In 1879,
Thomas Edison
devised The very first
circuit breaker...



**I find out what the world needs...
then I proceed to invent it.**

Thomas A. Edison

About GEIS

GEIS was established in 2019 following the spin-off of several businesses and assets that ABB had acquired from GE on July 1, 2018, include 3 manufacturing centers, Warehousing & Trading business at FTZ, China Technology Center.

- Components: Full range of circuit breakers up to 40.5kV: Medium voltage vacuum circuit breakers, LV circuit breakers: ACB, MCCB, MCB, RCD, RCBO: Control components.
- Equipment: MV switchgear (Air insulation and Gas Insulation Technology), LV switchgear, switchboard.
- Medium voltage cast coil dry type transformer.
- Medium voltage ATS system (Paralleling Switchgear).

After the separation, all the above product lines were rebranded as AEG for the China market and GEIS for global markets.

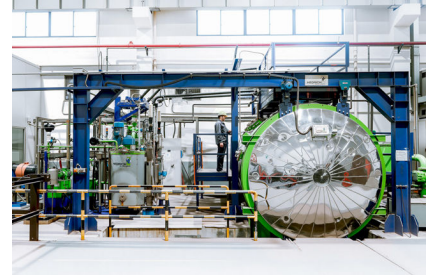


Note: GEIS brand is also used in China

Quality is Built-in

Vertical integrated Manufacturing Center

- Over 25 years of experience in localizing world-class products and manufacturing technologies, building strong expertise and a capable team.
- Consolidated most manufacturing processes under a single 60,000-square-meter facility in Shanghai.
- A strong R&D team dedicated to developing products that meet global standards and diverse applications.
- GEIS Thailand facility focuses on NEMA product lines.



GEIS deliver complete range of products for the evolving electrification needs:



SecoVac VCB



M-PACT Plus ACB



Elfa Series MCB/RCBO



EV Charger



SecoGear MV Switchgear



RMU Gas Insulated Switchgear



WaveCast Transformer



MLS LV Switchgear

RC+ Z6 molded case circuit breaker

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Product Overview



Standards: IEC60947-2



Product

RC+ series Z6 molded circuit breaker as a member of GEIS MCCB family, follows “perfekt in form und funktion” industrial design concept.

The circuit breaker design process uses a scientific platform and method, and the manufacturing process is constructed through the GEIS ALPS lean manufacturing system to provide reliable products.

While considering the performance and appearance of the circuit breaker, the field practicability of the product is also considered in many aspects.

RC+ series Z6 MCCB rated insulation voltage is 800V, suitable for AC 50Hz, rated operating voltage AC400V, rated operating current up to 630A low voltage distribution network.

Circuit breakers can be used in buildings, infrastructure, power, power control and other low-voltage distribution networks, can connect, carry and break the current under normal circuit conditions, but also in the specified abnormal circuit (such as short circuit) under the switch, break the fault current.

RC+ Series Z6 molded circuit breaker protection function definition, provides a general standard protection molded circuit breaker and with residual current protection molded circuit breaker options.

- Standard protection molded circuit breaker, providing thermomagnetic distribution or motor protection solution, the product has the isolation function
- Molded circuit breaker with residual current protection, providing thermal magnetic distribution + leakage protection scheme, the product has isolation function

RC⁺ Series Z6 molded case circuit breaker

RC+ series Z6 molded circuit breaker has 5 frames:
Chassis current 100A: rated current 10-100A
Chassis current 160A: Rated current 100-160A
Chassis current 250A: Rated current 100-250A
Chassis current 400A: Rated current 225-400A
Chassis current 630A: rated current 400-630A

RC⁺ Series Z6R circuit breaker with residual current protection

RC+ series Z6 molded circuit breaker has 5 frames:
Chassis current 100A: rated current 10-100A
Chassis current 160A: Rated current 100-160A
Chassis current 250A: Rated current 100-250A
Chassis current 400A: Rated current 225-400A
Chassis current 630A: rated current 400-630A

Selection Guide

Z6S molded case circuit breaker, 100/160/250 frame

Z6	S	100	/630	4	100
Product series	Breaking capacity	Frame	Trip unit	Poles	Rated current
GEIS RC+ Series Z6 Molded case circuit breaker with residual current protection	S: Icu=36kA	100: 100A 250: 250A	R: Line thermal magnetic type with residual current protection	3 : 3 poles 4 : 4 poles	016-16A 063-63A 250-250A

Z6N molded case circuit breaker, 400/630 frame

Z6	N	400	L	3	400
Product series	Breaking capacity	Frame	Trip unit	Poles	Rated current
GEIS RC+ Series Z6 Molded case circuit breaker	N: Icu=50kA	400: 400A 630: 630A	L: Line thermal magnetic protection M: Only magnetic motor protection	3 : 3 poles 4 : 4 poles	225-250A 400-400A 630-630A

Overview of Specifications for RC⁺ Series Z6 Molded Case Circuit Breakers

		Rated current A																					
Frame	Breaking	10	16	20	25	32	40	50	63	80	100	125	140	160	180	200	225	250	315	350	400	500	630
Z6S100	36kA																						
Z6S160	36kA																						
Z6S250	36kA																						
Z6N400	50kA																						
Z6N630	50kA																						

Description of commonly used accessory models:

- Auxiliary contact - FAS;
- Alarm contact FAB;
- Auxiliary alarm contact - FASB
- Shunt release - SHT;
- Plug in- DDF;
- Undervoltage release - UVR

Selection Guide

Z6S molded case circuit breaker with residual current protection, 100/250 frame

Z6	S	100	/630	4	100
Product series	Breaking capacity	Frame	Trip unit	Poles	Rated current
GEIS RC+ Series Z6 Molded case circuit breaker with residual current protection	S: Icu=36kA	100: 100A 250: 250A	R: Line thermal magnetic type with residual current protection	3 : 3 poles 4 : 4 poles	016-16A 063-63A 250-250A

Z6N molded case circuit breaker with residual current protection, 400/630 frame

Z6	N	400	L	3	400
Product series	Breaking capacity	Frame	Trip unit	Poles	Rated current
GEIS RC+ Series Z6 Molded case circuit breaker	N: Icu=50kA	400: 400A 630: 630A	R: Line thermal magnetic type with residual current protection	3 : 3 poles 4 : 4 poles	225-250A 400-400A 630-630A

Overview of Specifications for RC⁺ Series Z6 Molded Case Circuit Breakers with residual current protection

		Rated current A																					
Frame	Breaking		16	20	25	32	40	50	63	80	100	125	140	160	180	200	225	250	315	350	400	500	630
Z6S100	36kA																						
Z6S250	36kA																						
Z6N400	50kA																						
Z6N630	50kA																						

Description of commonly used accessory models:

- Auxiliary contact - FAS;
- Alarm contact FAB;
- Auxiliary alarm contact - FASB
- Shunt release - SHT;
- Plug in- DDF;
- Undervoltage release - UVR

Technical Data

Z6 MCCB Technical data



MCCB Frame			Z6 100	Z6 160	Z6 250	Z6 400	Z6 630
Poles			3P,4P	3P,4P	3P,4P	3P,4P	3P,4P
Rated insulation voltage	Ui	V	800	800	1000	1000	1000
Rated impulse withstand voltage	Uimp	kV	8	8	8	8	8
Rated working voltage	AC	V	400	400	400	400	400
Usage category			A	A	A	A	A
Suitable for use as isolation	Clear ON-OFF	indication	YES	YES	YES	YES	YES
Conventional thermal current	Ith	A	100	160	250	400	630
Rated current		A	10-100	100-160	100-250	225-400	400-630
Breaking code			S	S	S	N	N
Rated ultimate short-circuit breaking capacity Icu	AC400V	kA	36	36	36	50	50
Rated service short-circuit breaking capacity Ics	AC400V	kA	18	18	18	25	25
Trip unit							
Line thermal magnetic protection		L	☐	☐	☐	☐	☐
Only magnetic motor protection		M	☐	☐	☐	☐	☐
Life							
Mechanical lifes		times	10000	12000	12000	12000	12000
Electrical lifes		times	4000	5000	5000	4000	4000
Internal accessories and functions							
Auxiliary contacts			☐	☐	☐	☐	☐
Alarm contacts			☐	☐	☐	☐	☐
Shunt release			☐	☐	☐	☐	☐
Installation							
Fixed			■	■	■	■	■
Plug-in			☐	☐	☐	☐	☐
Size WxHxD	3P	mm	75x130x80	92x150x106	107x165x107	150x257x141	182x270x146
	4P	mm	100x130x80	122x150x106	142x165x107	198x257x141	240x270x146
Weight	3P	kg	0.9	1.6	2.4	5.6	7.6
	4P	kg	1.2	2.2	3.2	7.5	10.1
Standard			IEC60947-2				

■ Standard configuration ☐ Optional configuration - Not available

Technical Data

Z6R MCCB with residual current protection Technical data



MCCB Frame			Z6 100R	Z6 250R	Z6 400R	Z6 630R
Poles			3P,4P	3P,4P	3P,4P	3P,4P
Rated insulation voltage	Ui	V	800	800	800	800
Rated impulse withstand voltage	Uimp	kV	8	8	8	8
Rated working voltage	AC	V	400	400	400	400
Usage category			A	A	A	A
Suitable for use as isolation	Clear ON-OFF	indication	YES	YES	YES	YES
Conventional thermal current	Ith	A	100	250	400	630
Rated current		A	16-100A	100-250A	225-400A	400-630A
Breaking code			S	S	S	N
Rated ultimate short-circuit breaking capacity Icu	AC400V	kA	36	36	36	50
Rated service short-circuit breaking capacity Ics	AC400V	kA	18	18	18	25
Trip unit						
Line thermal magnetic type with residual current protection		R				
Type of residual protection current			Type AC	Type AC	Type AC	Type AC
Residual current action value	IΔn	mA	100/300/500	100/300/500	100/300/500	300/500/1000
Life						
Mechanical lifes		times	10000	12000	12000	12000
Electrical lifes		times	4000	5000	4000	4000
Internal accessories and functions						
Auxiliary contacts			☐	☐	☐	☐
Alarm contacts			☐	☐	☐	☐
Shunt release			☐	☐	☐	☐
Installation						
Fixed						
Plug-in			☐	☐	☐	☐
Size WxHxD	3P	mm	92x150x110	107x165x110	150x257x147	210x280x155
	4P	mm	122x150x110	142x165x110	198x257x147	280x280x155
Weight	3P	kg	1.7	2.3	5.9	7.9
	4P	kg	2.2			
Standard			IEC60947-2			

■ Standard configuration □ Optional configuration - Not available

Line thermal magnetic protection



The line thermal magnetic trip unit uses a thermal magnetic release device to provide overload (thermal) protection and short circuit (magnetic) protection. The thermal protection device is usually calibrated at an ambient temperature of 40 degrees Celsius.

Line thermal magnetic protection unit L:

Thermal protection action value I_{2t} :

- $I_n \leq 63A$, $1.05I_n$, no action within 1 hour; $1.3I_n$, action within 1 hour
- $I_n > 63A$, $1.05I_n$, no action within 2 hours; $1.3I_n$, action within 2 hours

Magnetic protection action value:

- $I_n \geq 32A$, magnetic protection action value is $10I_n$
- $I_n \leq 25A$, magnetic protection action value is 300A



Only magnetic motor protection

Circuit breakers can also provide single magnet motor protection for motor loads, fire protection, and other circuits.

Motor only magnetic protection unit M: Magnetic protection setting value: $12I_n$

Line thermal magnetic type with residual current protection

Circuit breakers can also provide a composite protection unit with line thermal magnetic and residual current functions, forming a compact integrated molded case circuit breaker with residual current protection. Using a thermal magnetic release device to provide overload (thermal) protection and short circuit (magnetic) protection, the thermal protection device is usually calibrated at an ambient temperature of 40 degrees Celsius; Use intelligent electronic units to provide residual current protection.

Line thermal magnetic type with residual current protection unit R:

Thermal protection action value I_{2t} :

- $I_n \leq 63A$, $1.05I_n$, no action within 1 hour; $1.3I_n$, action within 1 hour
- $I_n > 63A$, $1.05I_n$, no action within 2 hours; $1.3I_n$, action within 2 hours

Magnetic protection action value :

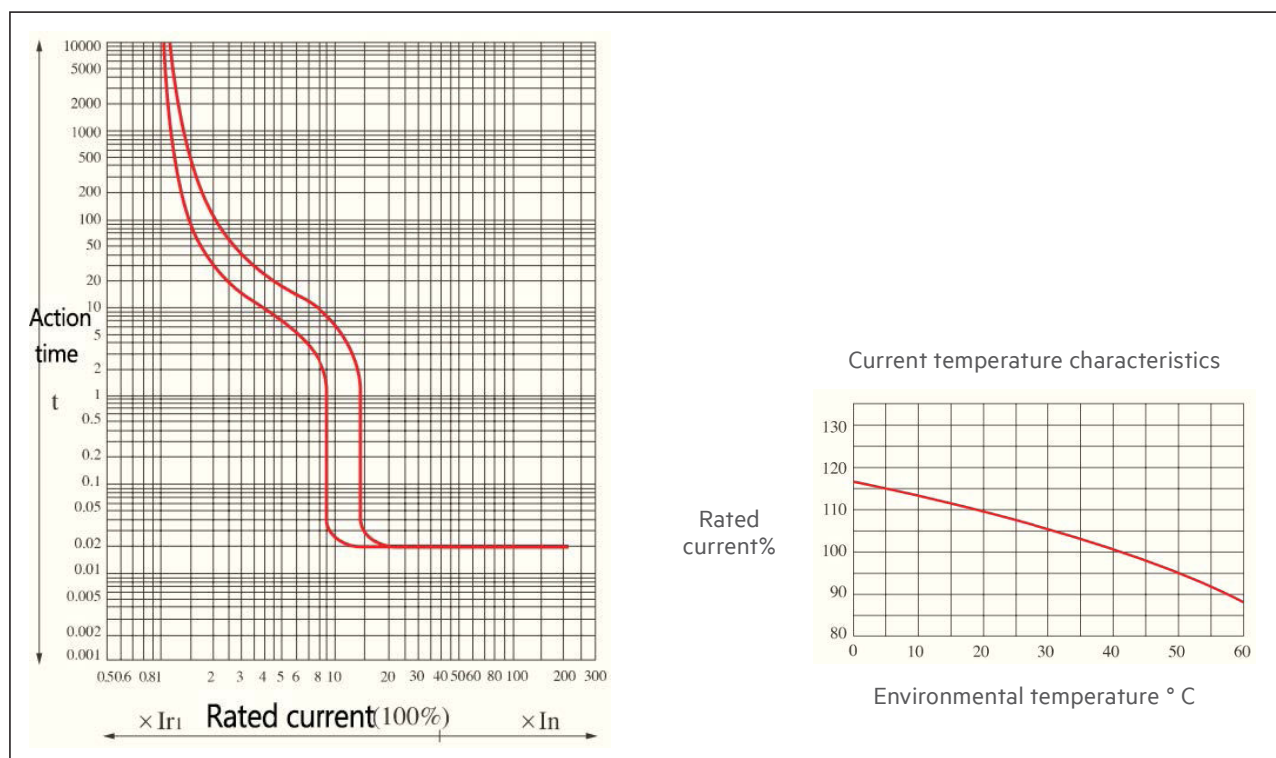
- $I_n \geq 32A$, magnetic protection action value is $10I_n$
- $I_n \leq 25A$, magnetic protection action value is 300A Residual current protection value:

$I \Delta n$: 100/300/500 adjustable

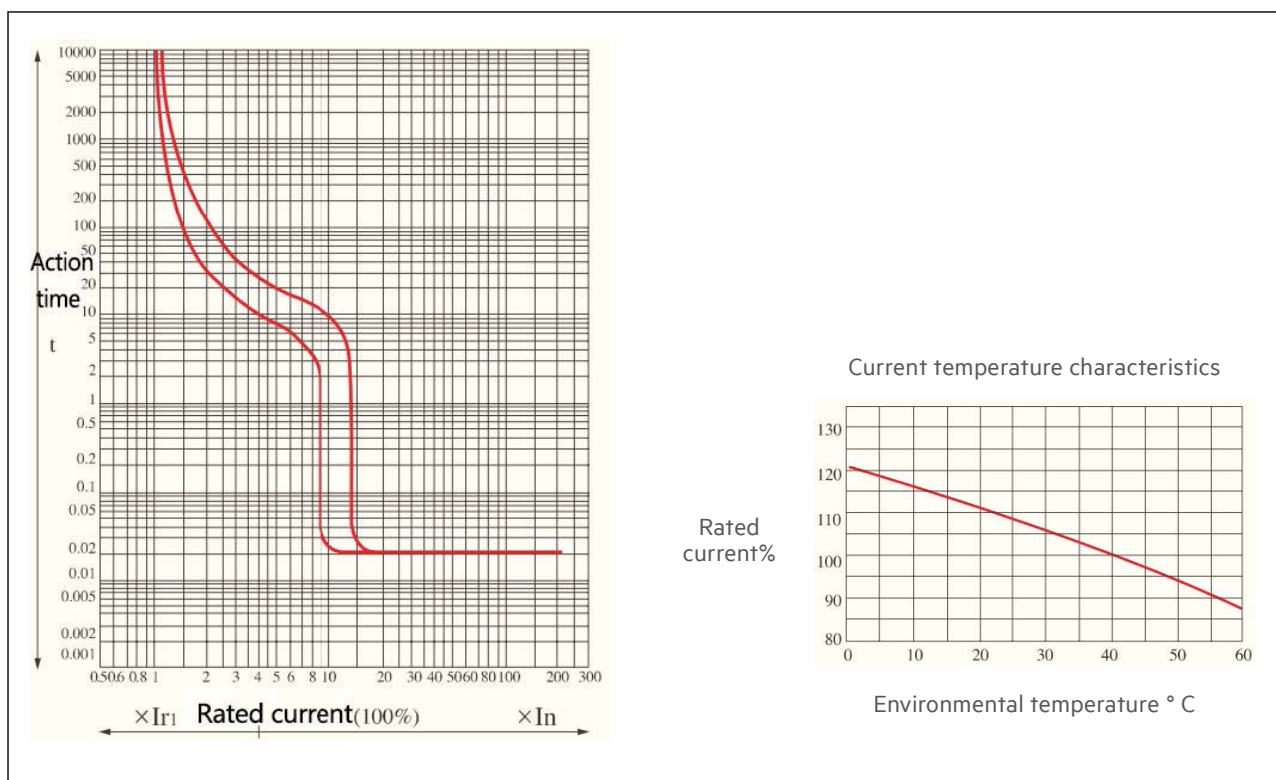


Trip unit

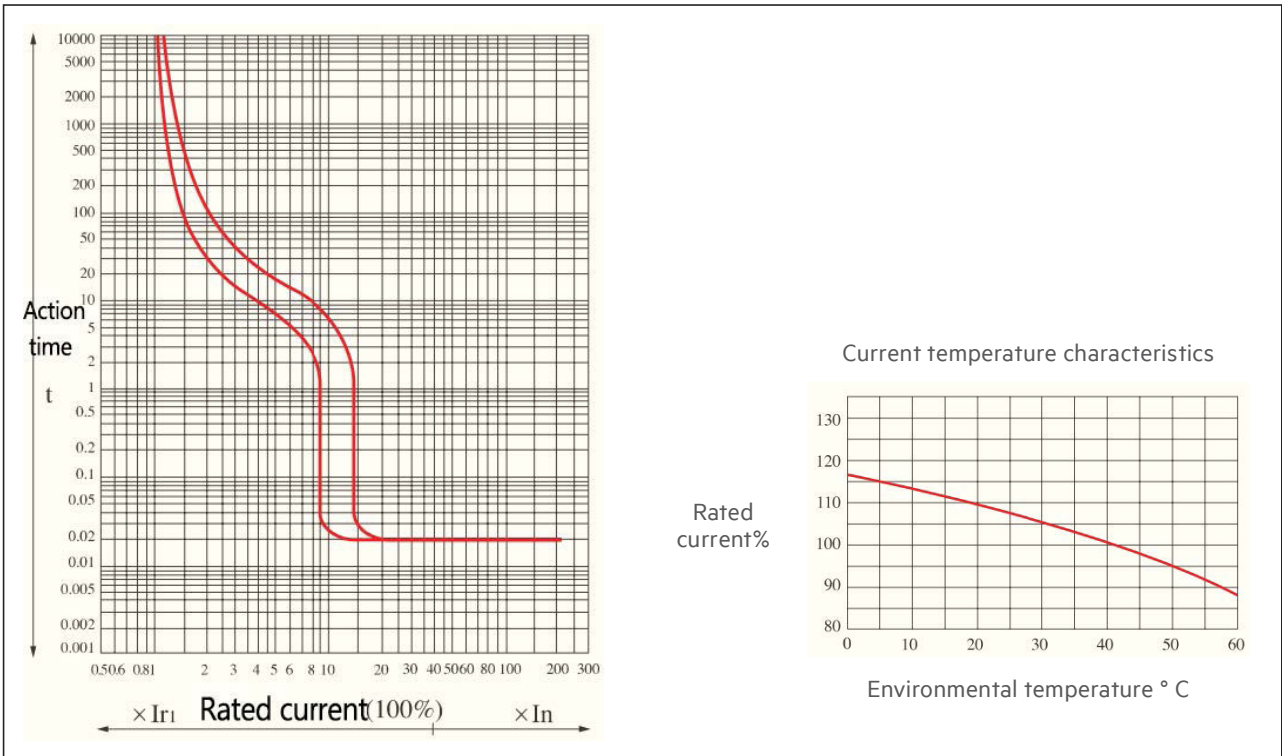
Z6 100 molded case circuit breaker-current curve



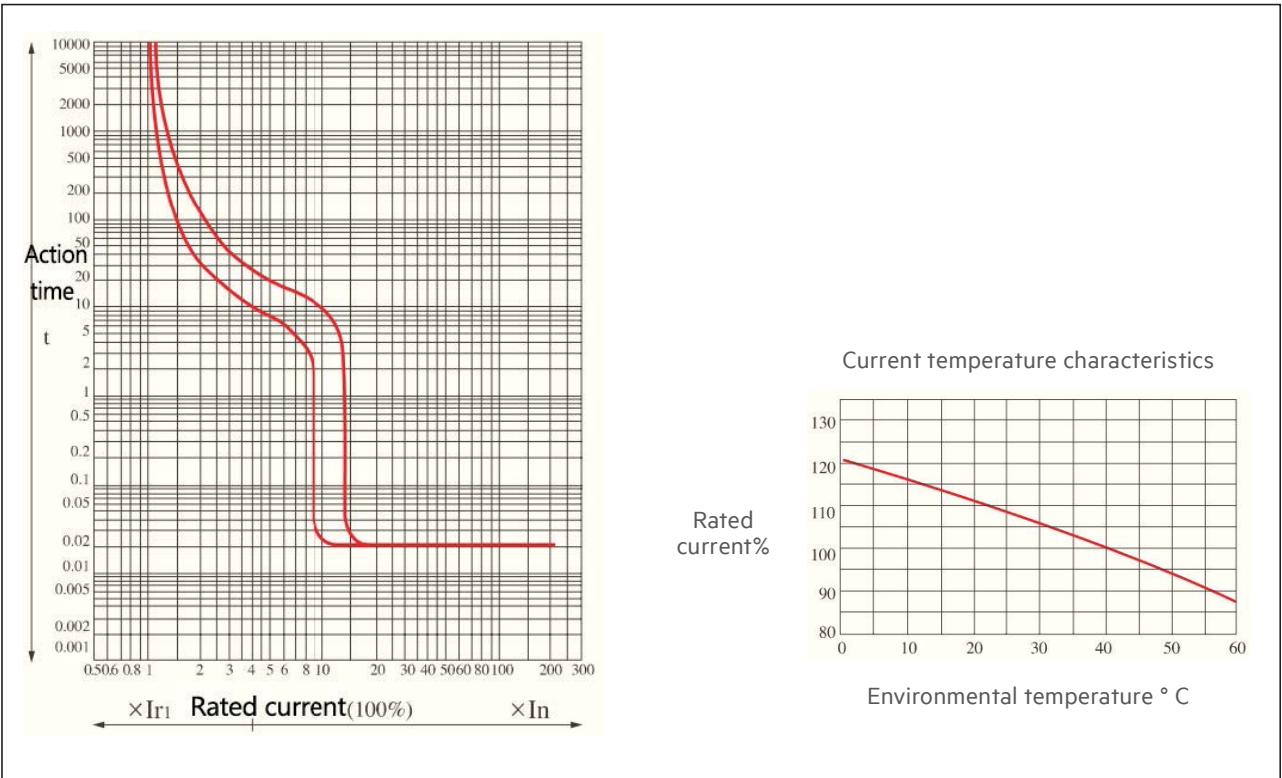
Z6 160 molded case circuit breaker-current curve



Z6 250 molded case circuit breaker-current curve

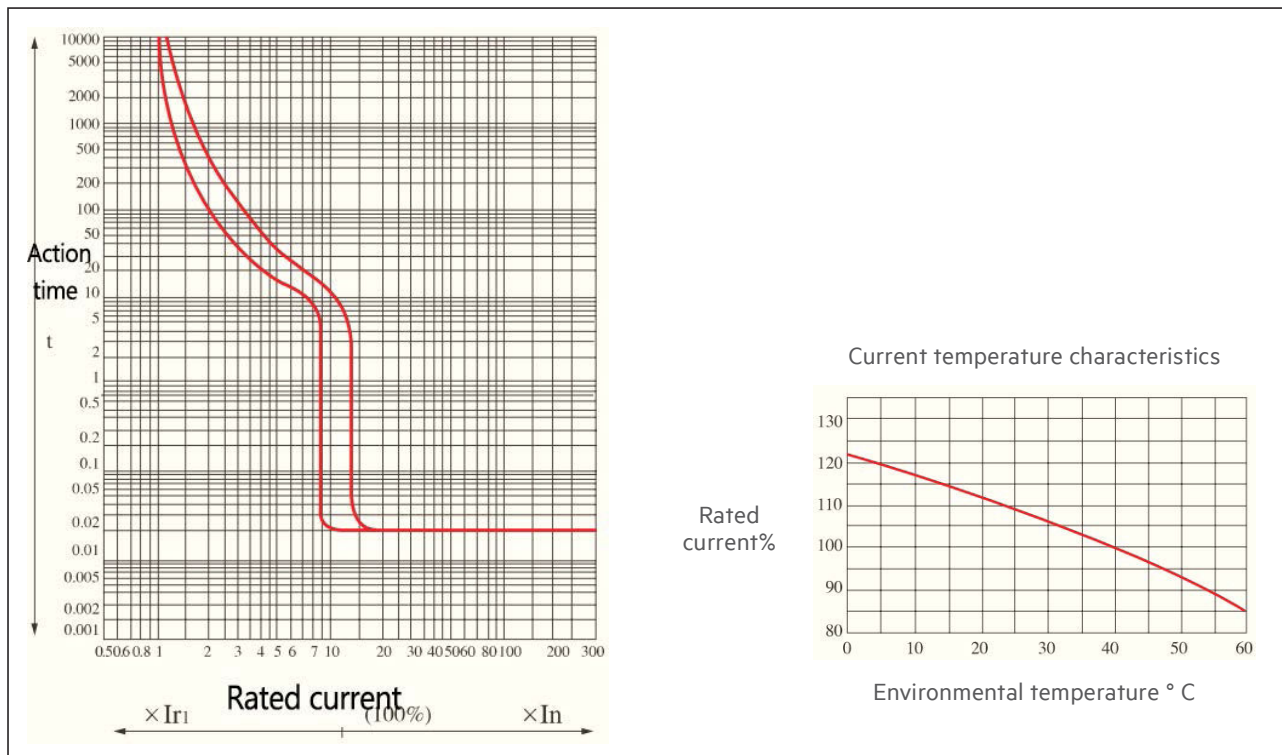


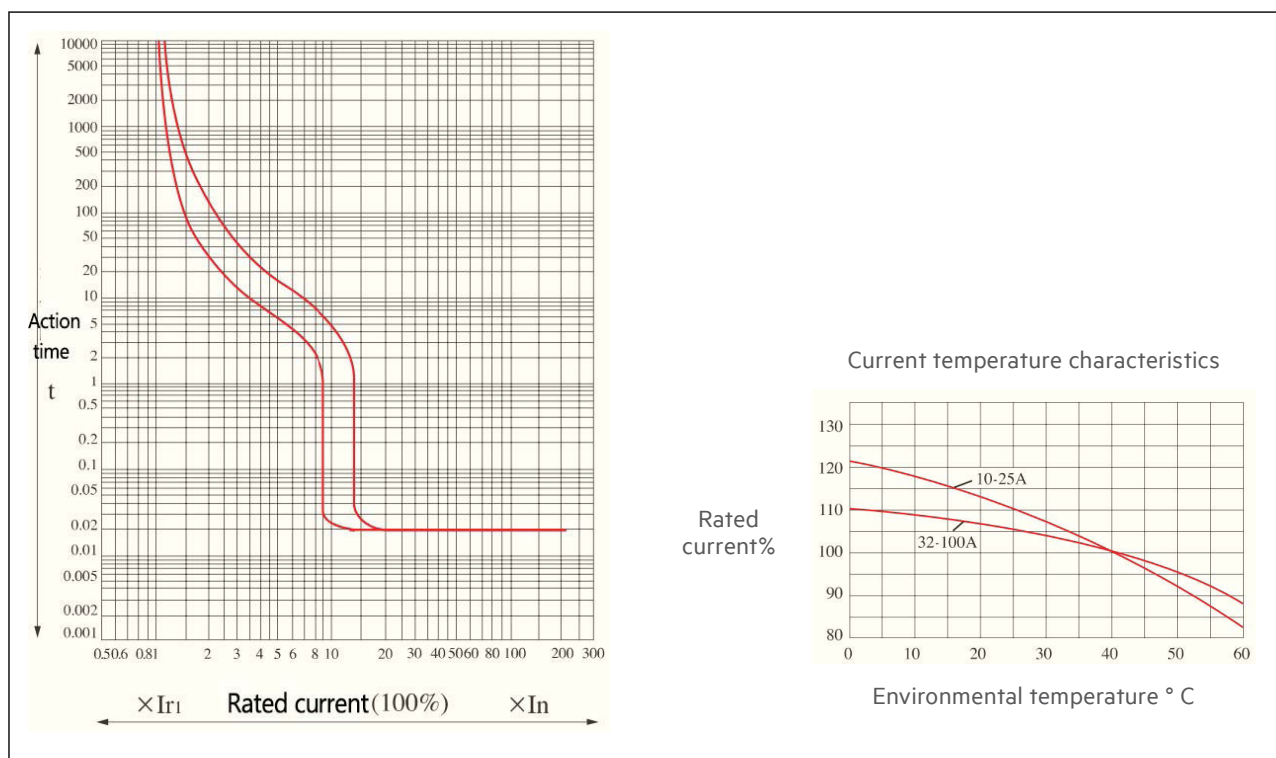
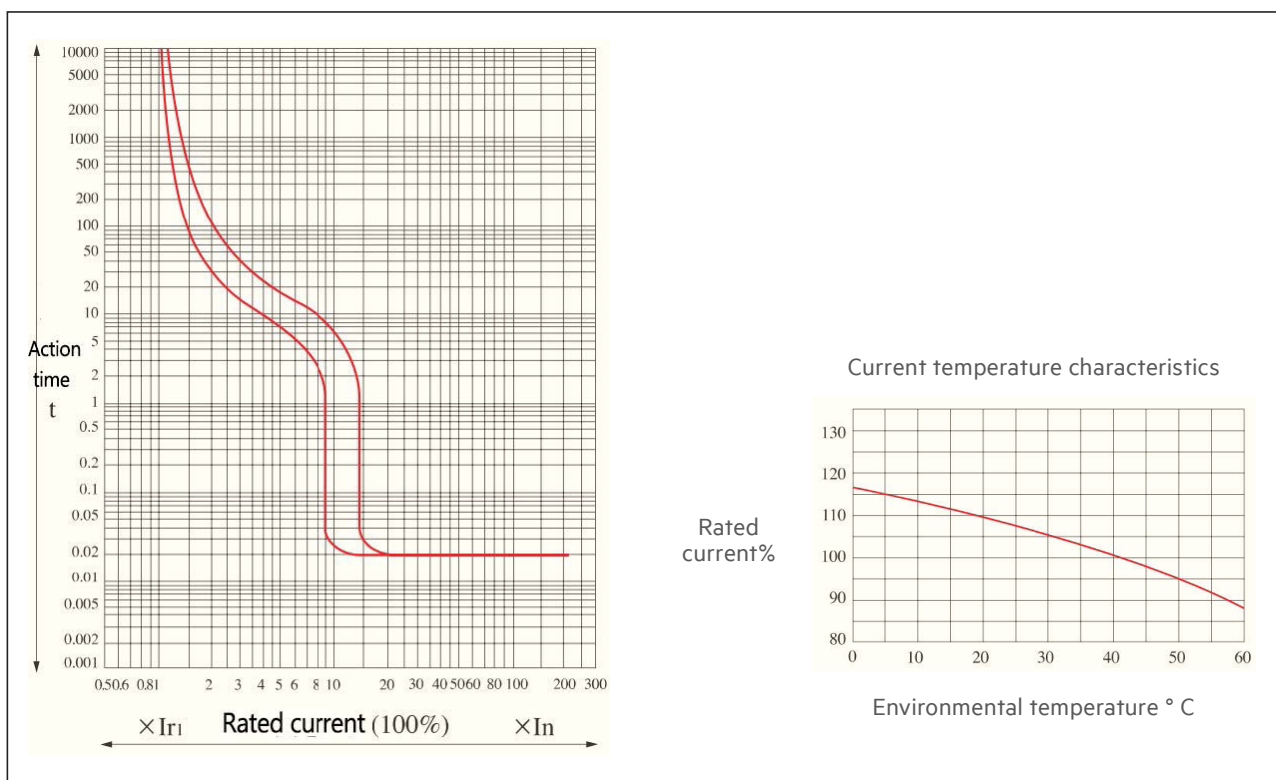
Z6 400 molded case circuit breaker-current curve



Trip unit

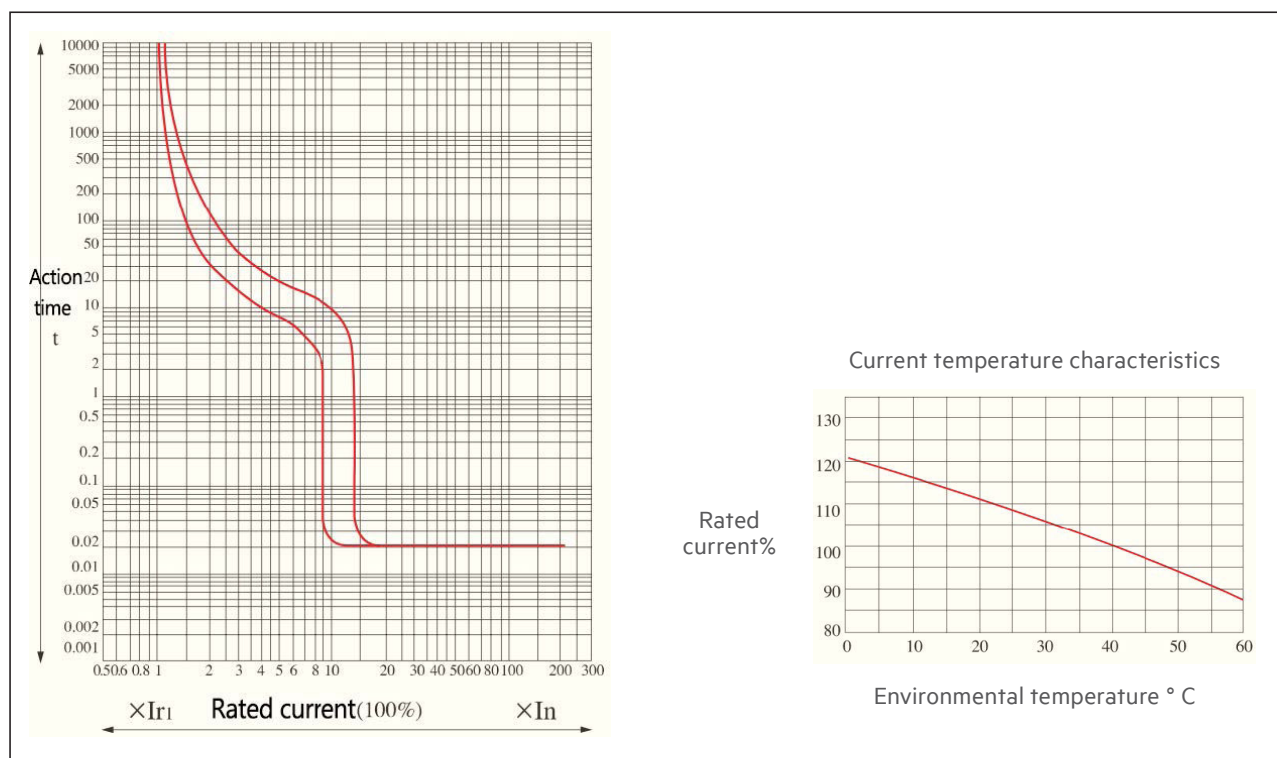
Z6 630 molded case circuit breaker-current curve



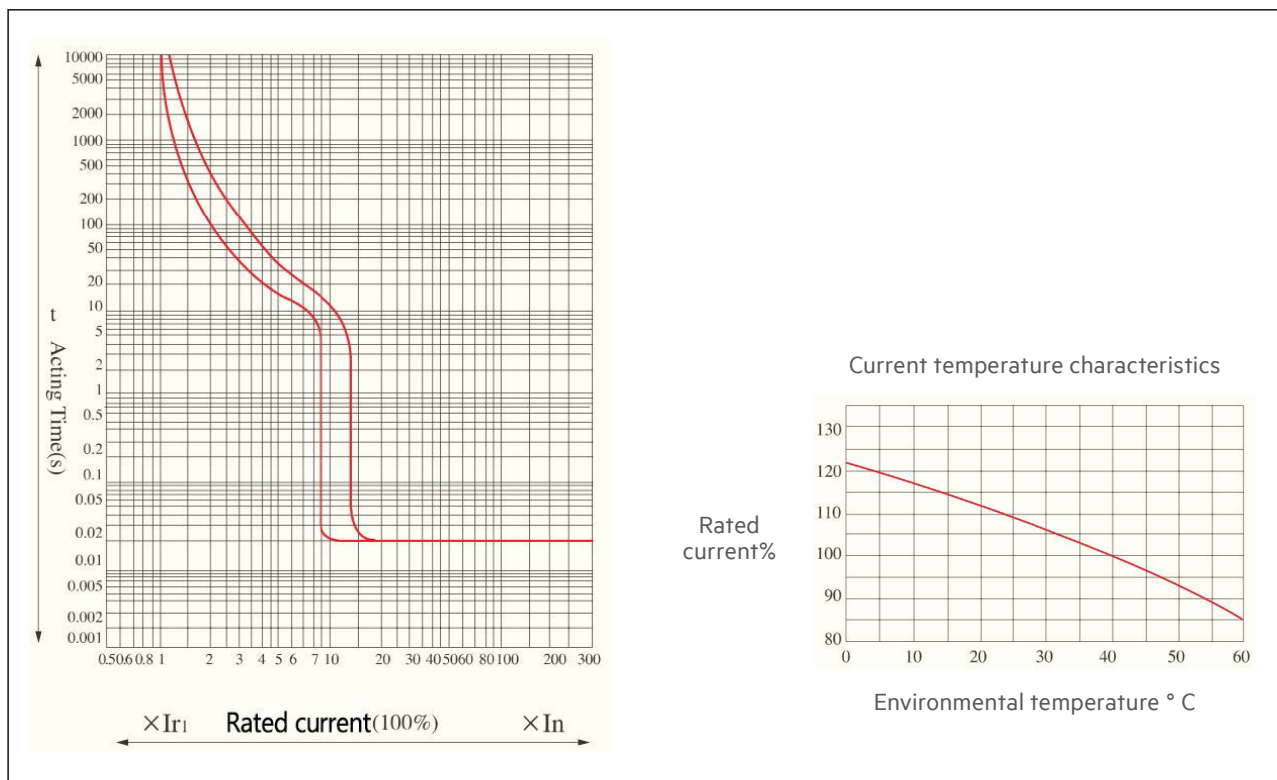
Z6 100R molded case circuit breaker with residual current protection - current curve**Z6 250R molded case circuit breaker with residual current protection - current curve**

Trip unit

Z6 400R molded case circuit breaker with residual current protection - current curve



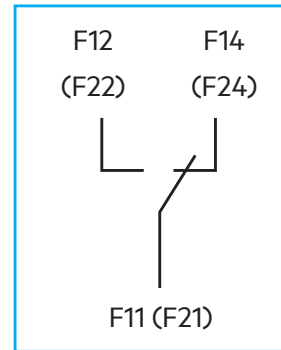
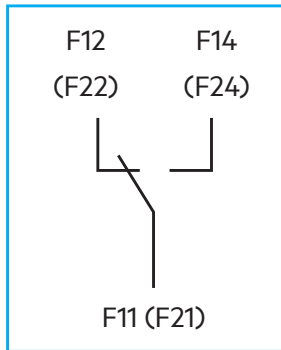
Z6 630R molded case circuit breaker with residual current protection - current curve



Auxiliary contacts

The auxiliary contact module can be easily fixed to an auxiliary device compartment, and removing the circuit breaker cover can access the compartment. This complete compartment has multiple boxes, with most boxes reserved for use as auxiliary contacts.

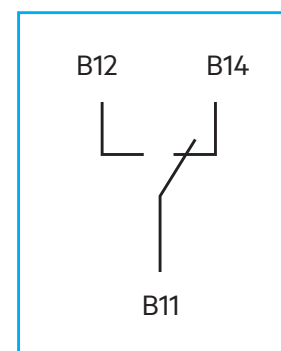
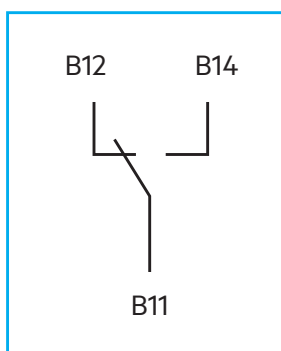
- The circuit breaker is in the “open” or “free release” position:
- The circuit breaker is in the “closed” position:



Alarm contacts

Mechanical alarm contacts are used to indicate that the circuit breaker has tripped due to one of the following reasons:

- Fault
- The release button on the front end of the circuit breaker has been pressed
- Shunt or undervoltage trip operation
- The circuit breaker is in the position when using the handle to “open” or “close”
- The position of the circuit breaker when it is in “mechanical free release”



Auxiliary alarm contacts

Molded case circuit breakers can also provide auxiliary and alarm contact combinations, as well as auxiliary signals and mechanical alarm signals.

Accessories

Rated current of auxiliary and alarm contacts

Frame level	Rated current	Conventional thermal current I _{th}	Rated current I _e	
Product series			AC400V (AC-15)	DC220V (DC-13)
I _{nm} ≤250A		3A	0.3A	0.15A
I _{nm} ≥400A		3A	0.4A	0.15A

Power on operation performance and corresponding test conditions of auxiliary contacts and alarm contacts

Usage category	Making			Breaking			Operation frequency	power on time
	I/I _e	U/U _e	cosØ	I/I _e	U/U _e	cosØ	frequency	times/h
AC-15	10	1	0.3	1	1	0.3	6050	360
DC-13	1	1	6Pe	1	1	6Pe	6050	360

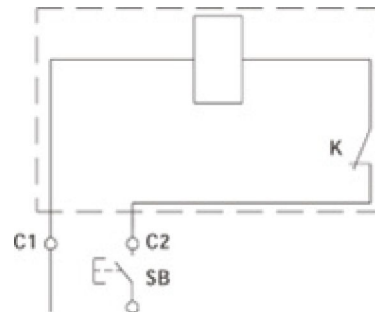
Auxiliary and alarm contact making and breaking capabilities

Usage category	Making			Breaking			Operation frequency	power on time
	I/I _e	U/U _e	cosØ	I/I _e	U/U _e	cosØ	frequency	times/h
AC-15	10	1.1	0.3	10	1.1	0.3	10	120
DC-13	1.1	1.1	6Pe	1.1	1.1	6Pe	10	120

Shunt release

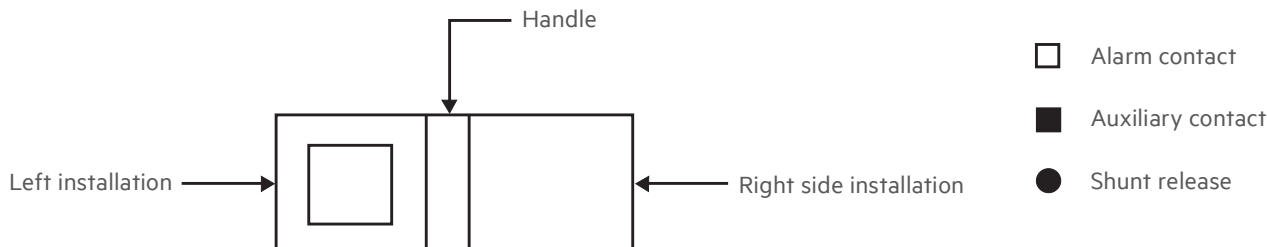
When the circuit breaker is in the “ON” position and the shunt trip coil is excited, the circuit breaker will trip and open. K is a micro switch connected in series with the coil inside the shunt release. When the circuit breaker is in the closed state, the contact of the micro switch is in the closed state. When the circuit breaker is in the open or released state, the contact is in the open state. The SB operation button needs to be provided by the user.

When the rated control power supply is between 70% -110%, the shunt release reliably releases the circuit breaker.



Accessories

Z6 molded case circuit breaker accessories installing

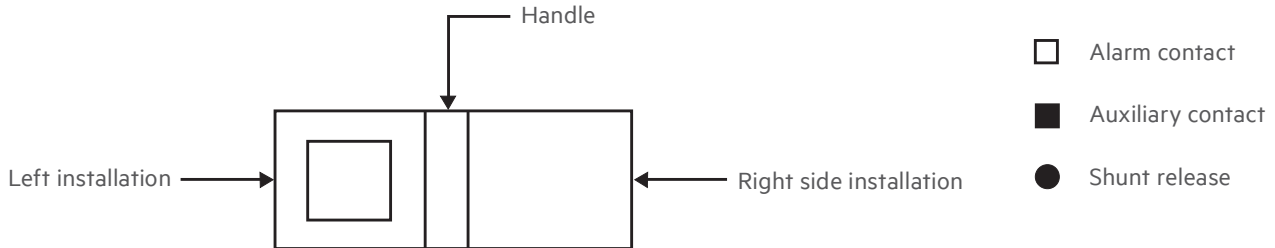


Accessories Name	Z6 100	Z6 160	Z6 250	Z6 400/630
	3P/4P	3P/4P	3P/4P	3P/4P
Alarm contact				
Shunt release				
Auxiliary contact (1NO+1NC)				
Auxiliary contact (2NO+2NC)				
Auxiliary contact (2NO+2NC)				
Shunt release + Auxiliary contact (1NO+1NC)				
Shunt release + Auxiliary contact (2NO+2NC)				
Shunt release + Auxiliary contact (2NO+2NC)				
Two sets of auxiliary contacts (2NO+2NC)				
Two sets of auxiliary contacts (4NO+4NC)				
Two sets of auxiliary contacts (3NO+3NC)				
Two sets of auxiliary contacts (4NO+4NC)				
Shunt release+Alarm contact				
Auxiliary contact (1NO+1NC) + Alarm contact				
Auxiliary contact (2NO+2NC) + Alarm contact				
Shunt release+Auxiliary contact (1NO+1NC)+Alarm contact				
Shunt release+Auxiliary contact (2NO+2NC)+Alarm contact				
Two sets of auxiliary contacts (2NO+2NC)+Alarm contact				
Two sets of auxiliary contacts (4NO+4NC)+Alarm contact				
Two sets of auxiliary contacts (3NO+3NC)+Alarm contact				

Note: 1) Shunt release, auxiliary, and alarm accessories need to be ordered together with the circuit breaker, and shipped after assembly within the factory; 2) For a single circuit breaker, the number of accessories cannot exceed 2. When there is a high demand for accessories, please prioritize selecting the material model with combined functions

Accessories

Z6R Installation of molded case circuit breaker accessories with residual current protection



Accessories Name	Z6R 100/250		Z6 400		Z6 630	
	3P	4P	3P	4P	3P	4P
Alarm contact						
Shunt release						
Auxiliary contact (1NO+1NC)						
Auxiliary contact (2NO+2NC)						
Auxiliary contact (2NO+2NC)						
Shunt release + Auxiliary contact (1NO+1NC)						
Shunt release + Auxiliary contact (2NO+2NC)						
Shunt release + Auxiliary contact (2NO+2NC)						
Two sets of auxiliary contacts (2NO+2NC)						
Two sets of auxiliary contacts (4NO+4NC)						
Two sets of auxiliary contacts (3NO+3NC)						
Two sets of auxiliary contacts (4NO+4NC)						
Shunt release+Alarm contact						
Auxiliary contact (1NO+1NC) + Alarm contact						
Auxiliary contact (2NO+2NC) + Alarm contact						
Shunt release+Auxiliary contact (1NO+1NC)+Alarm contact						
Shunt release+Auxiliary contact (2NO+2NC)+Alarm contact						
Two sets of auxiliary contacts (2NO+2NC)+Alarm contact						
Two sets of auxiliary contacts (4NO+4NC)+Alarm contact						
Two sets of auxiliary contacts (3NO+3NC)+Alarm contact						

Note: 1) Shunt release, auxiliary, and alarm accessories need to be ordered together with the circuit breaker, and shipped after assembly within the factory; 2) For a single 4P integrated leakage circuit breaker, the number of accessories cannot exceed 2. When there is a high demand for accessories, please prioritize selecting the material model with combined functions. 3) For integrated leakage 3P products, only 1 accessory can be selected. Please prioritize selecting the material model with combined functions

Application

Selection of cross-section for connecting wires and cables at ambient temperature

- Suggestion for wire selection

Rated current	A	10	16	25	32	40	63	80	100	125	160	180	250	315	400
		20		6=50				142			200		350		
		225													
Wire cross															
-section	mm ²	1.5	2.5	4	6	10	16	25	35	50	70	95	120	185	240

- Suggestion for selection Cable

Rated current A	Cable cross-sectional area		Copper bar size	
	quantity	Cable cross-sectional area mm ²	quantity	Cross-sectional area mm ²
500	2	150	2	30x5
630	2	185	2	40x5

Power loss

Circuit breaker frame current A	Rated current A	Total power loss W		
		Fixed circuit breaker	Plug in front wiring	Plug in board rear wiring
Z6 100	≤63	7	7	7
Z6 100	80-100	16	16	16
Z6 160	≤160	30	31	31
Z6 250	≤250	40	40	41
Z6 400	≤400	48	48	48
Z6 630	≤630	107	108	108
Z6R 100	≤100	16	-	16
Z6R 250	≤250	32	-	33
Z6R 400	≤400	68	-	68
Z6R 630	≤630	133	-	133

Application**Circuit breaker capacity reduction coefficient environmental temperature change**

Circuit breaker frame current		Capacity reduction coefficient xln					
A	+40°C	+45°C	+50°C	+55°C	+60°C	+65°C	+70°C
Z6 100	1	0.98	0.96	0.94	0.92	0.89	0.87
Z6 160	1	0.96	0.92	0.88	0.84	0.8	0.75
Z6 250	1	0.99	0.97	0.95	0.94	0.92	0.89
Z6 400	1	0.98	0.96	0.94	0.92	0.89	0.87
Z6 630	1	0.98	0.96	0.94	0.92	0.89	0.87
Z6R 100	1	0.97	0.94	0.92	0.88	0.87	0.82
Z6R 250	1	0.98	0.96	0.94	0.92	0.9	0.89
Z6R 400	1	0.98	0.96	0.94	0.9	0.88	0.87
Z6R 630	1	0.98	0.96	0.94	0.9	0.88	0.87

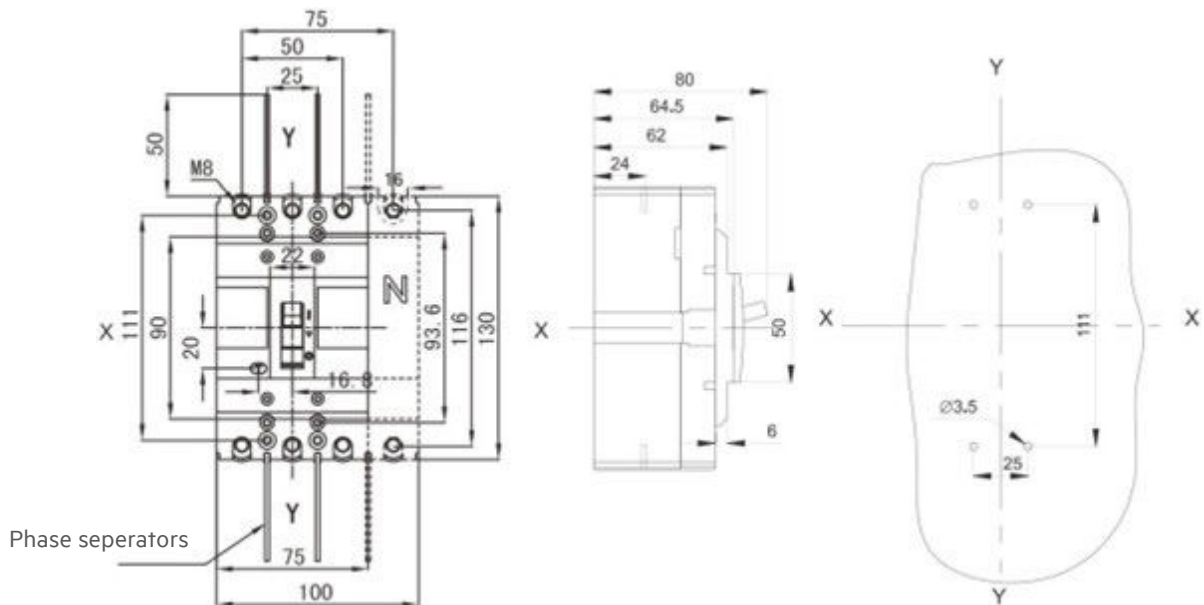
Change in altitude of circuit breaker capacity reduction coefficient

Parameter type		altitude (m)		
		2000	2500	3000
Power frequency withstand voltage	V	2500	2500	2200
Insulation voltage	V	800	800	700
Working voltage	V	≤400	≤400	≤380
Working current correction factor	xln	1	1	0.98

Dimension

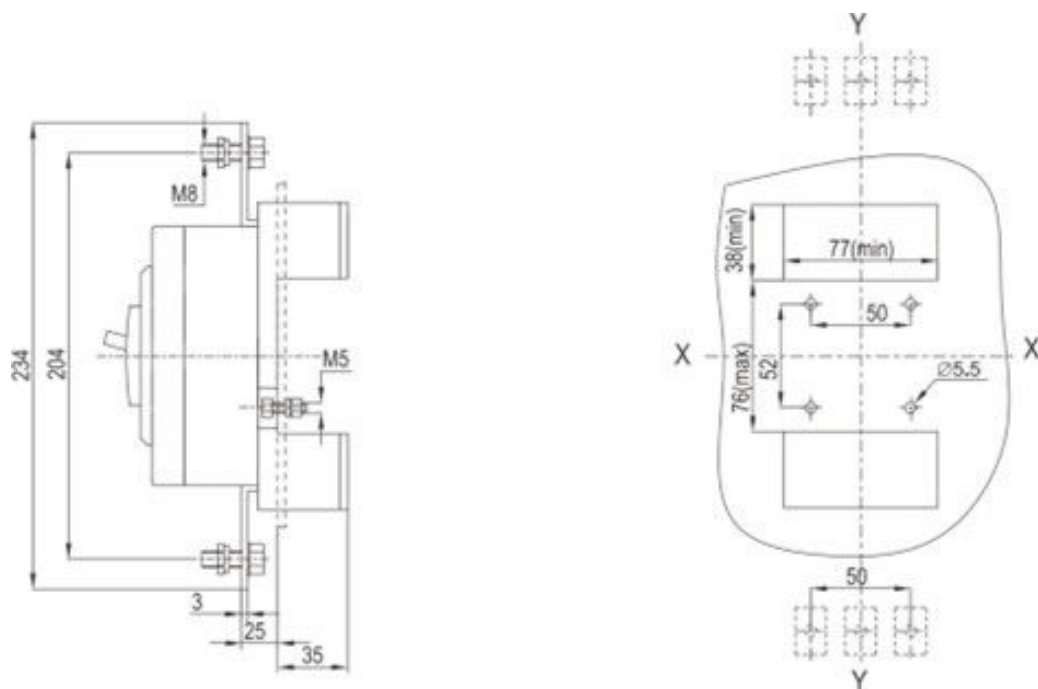
Z6 100 Fixed circuit breaker

X-X and Y-Y represent the center of the 3P circuit breaker



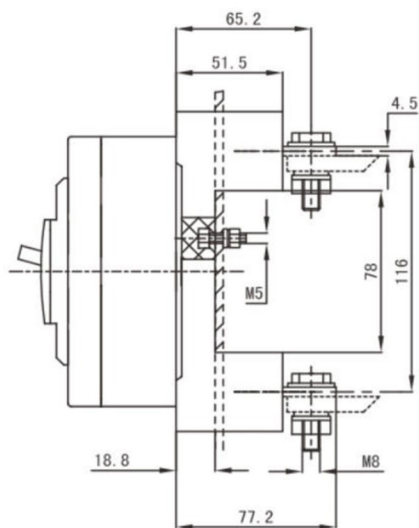
Z6 100 Plug-in front wiring

X-X and Y-Y represent the center of the 3P circuit breaker

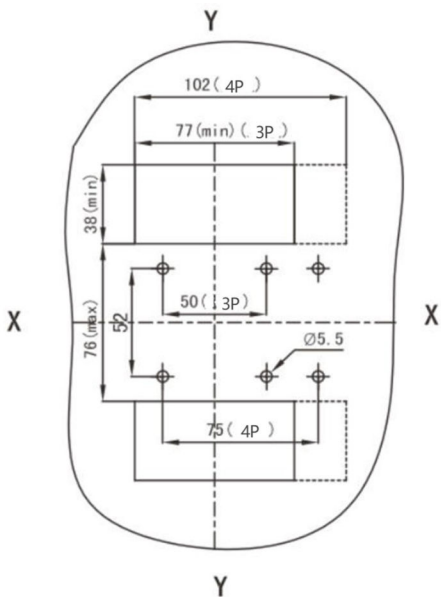


Dimension

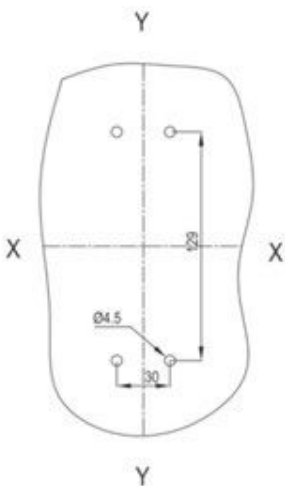
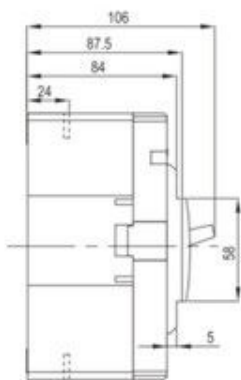
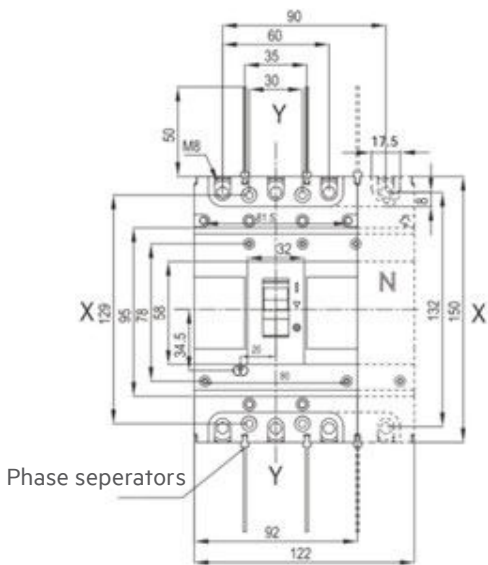
Z6 100 Plug-in board rear wiring



X-X and Y-Y represent the center of the 3P circuit breaker

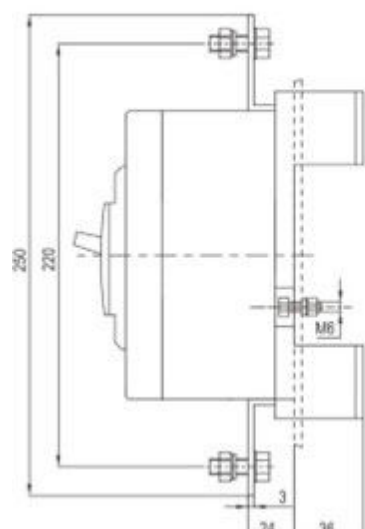


Z6 160 Fixed circuit breaker

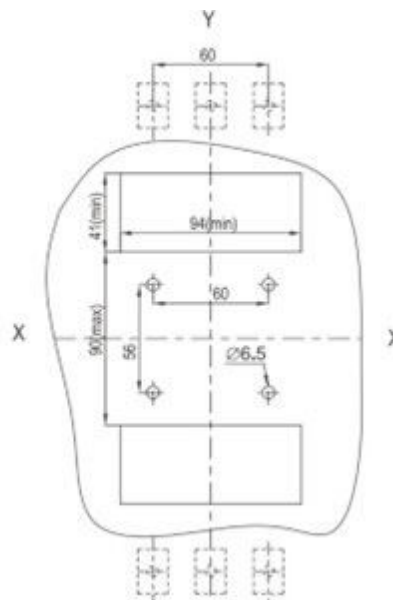


Dimension

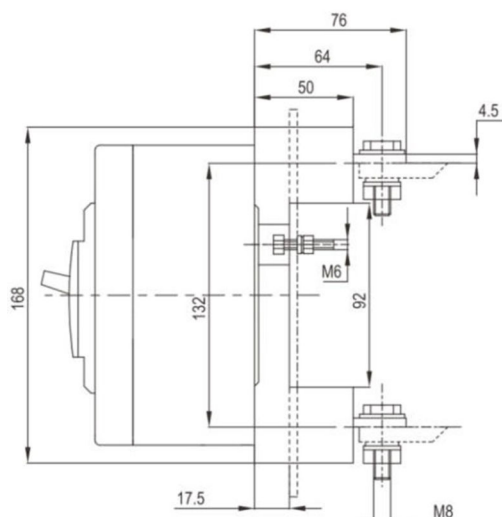
Z6 160 Plug-in front wiring



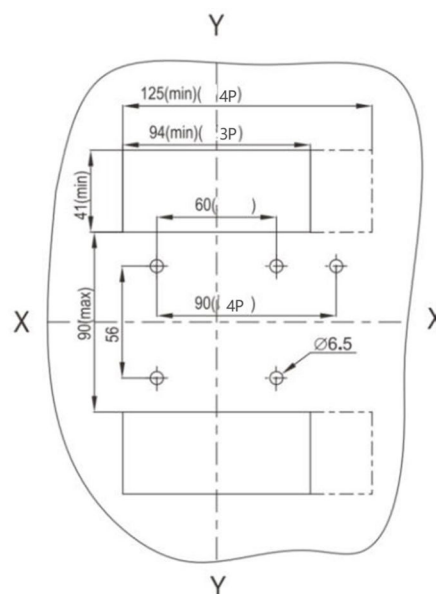
X-X and Y-Y represent the center of the 3P circuit breaker



Z6 160 Plug-in board rear wiring

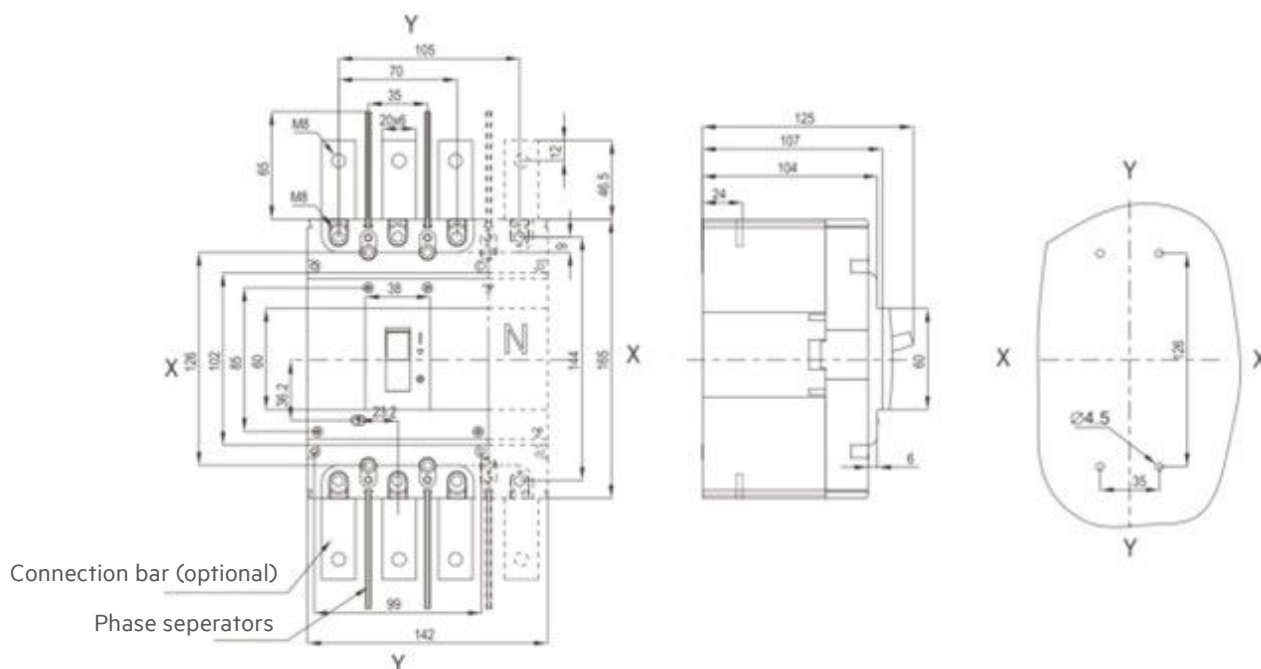


X-X and Y-Y represent the center of the 3P circuit breaker

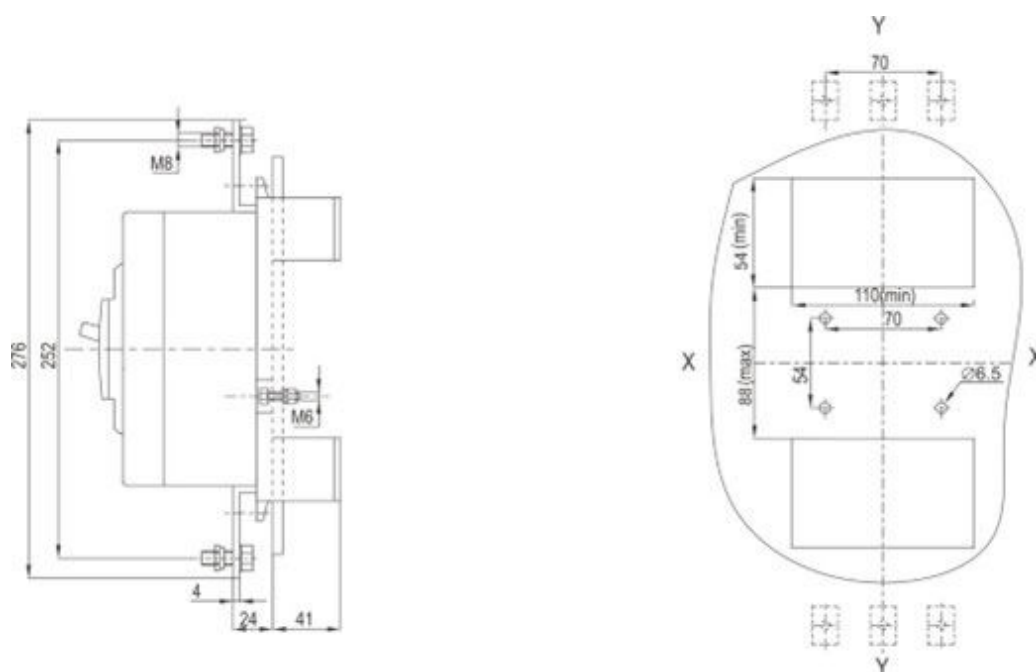


Dimension**Z6 250 Fixed circuit breaker**

X-X and Y-Y represent the center of the 3P circuit breaker

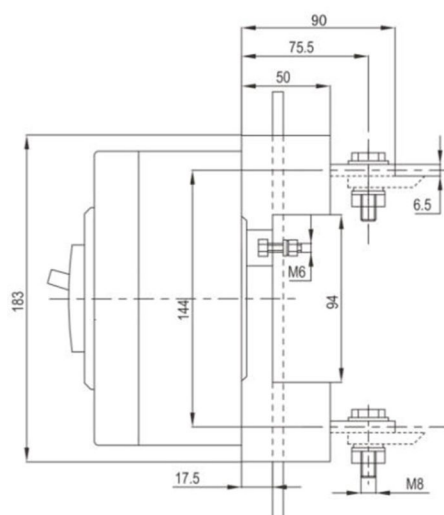
**Z6 250 Plug-in front wiring**

X-X and Y-Y represent the center of the 3P circuit breaker

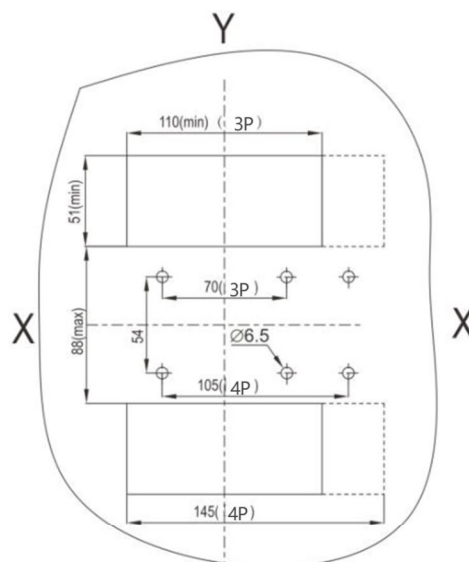


Dimension

Z6 250 Plug-in board rear wiring

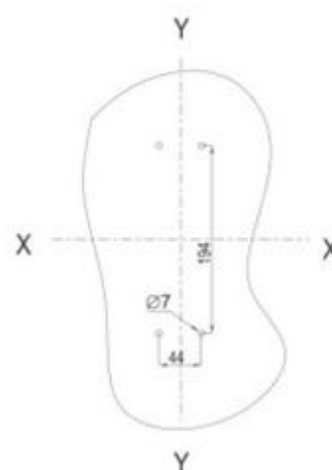
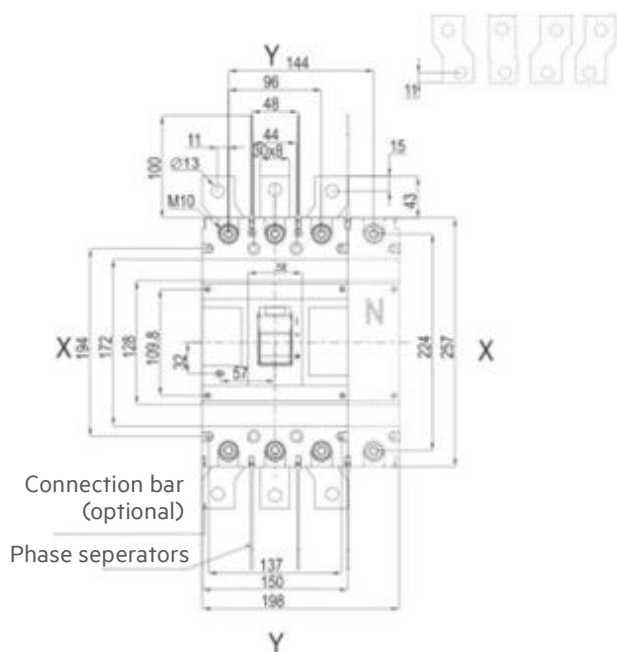


X-X and Y-Y represent the center of the 3P circuit breaker



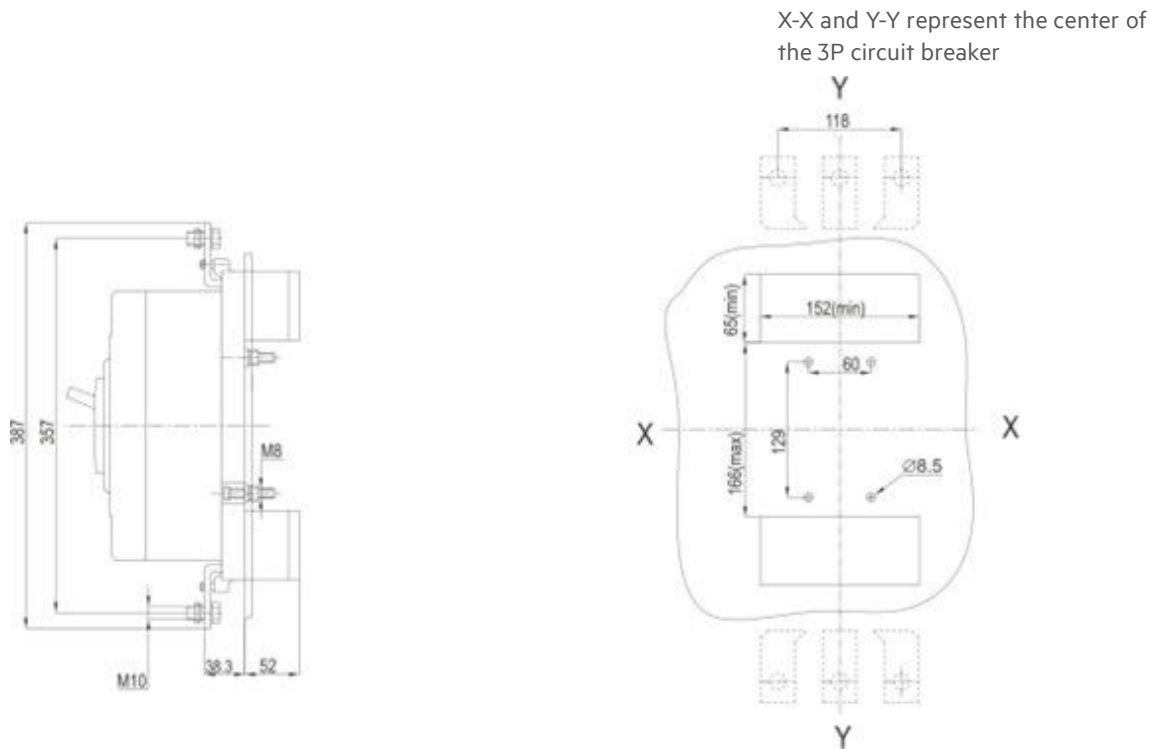
Z6 400 Fixed circuit breaker

X-X and Y-Y represent the center of the 3P circuit breaker

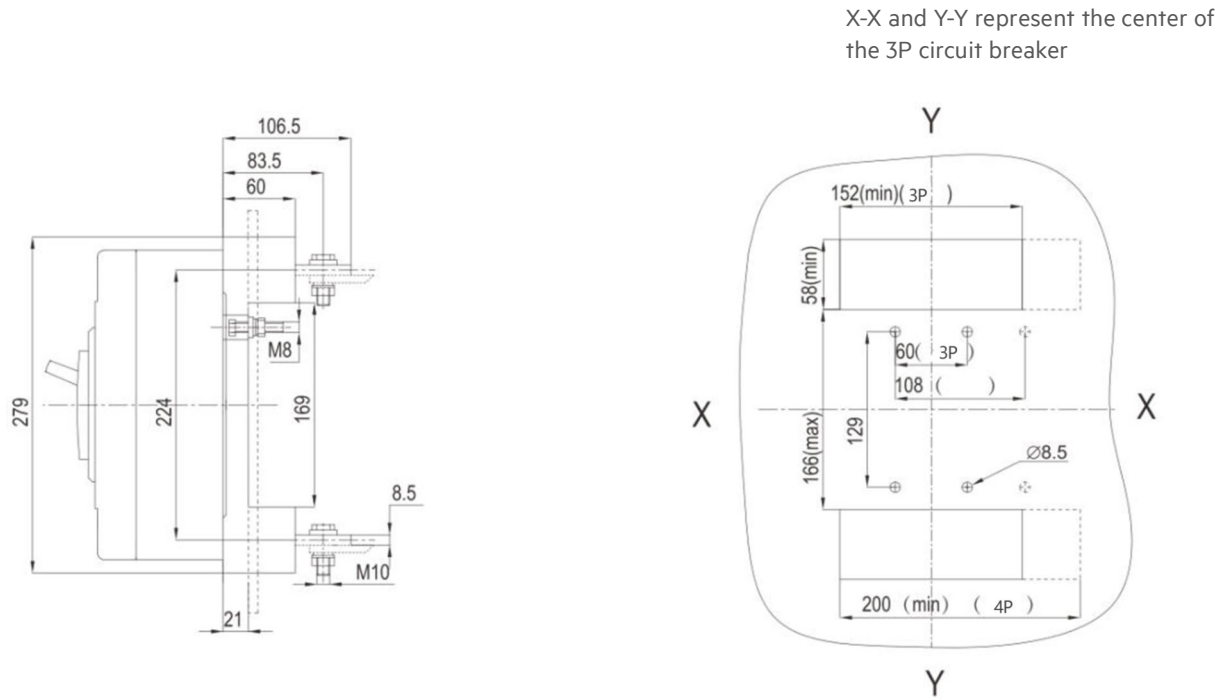


Dimension

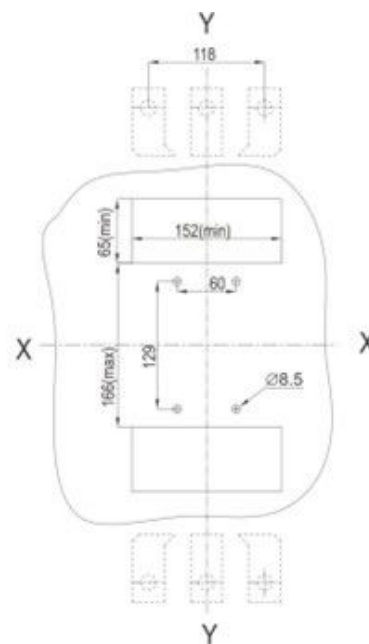
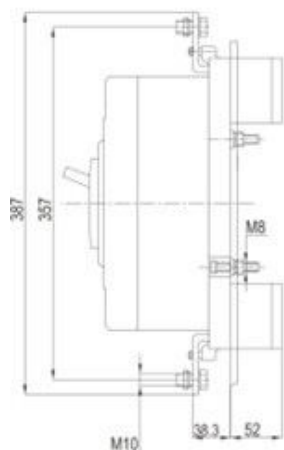
Z6 400 Plug-in front wiring 3P



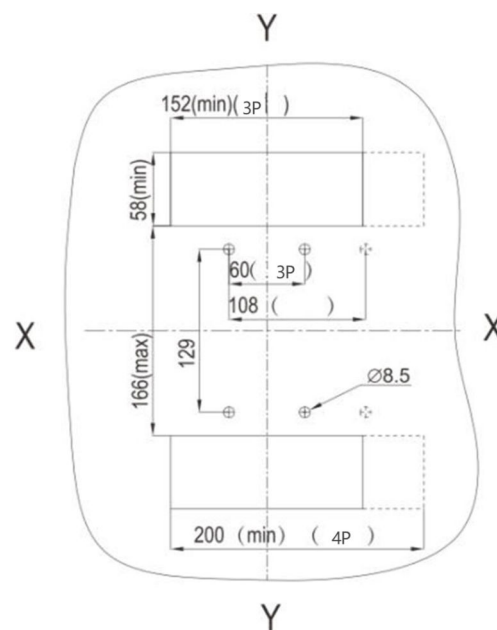
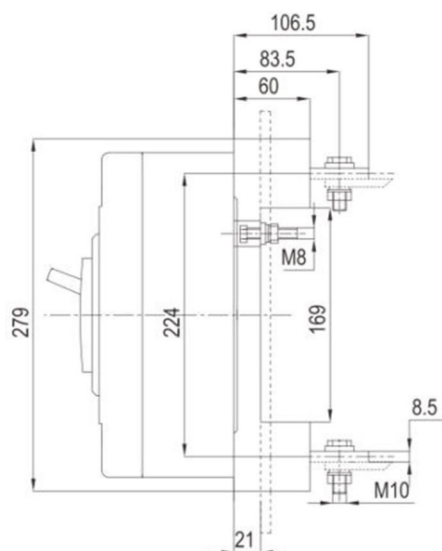
Z6 400 Plug-in board rear wiring 3P



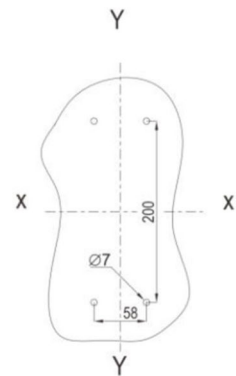
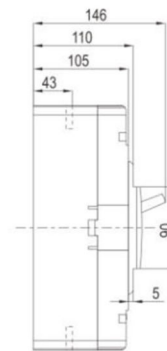
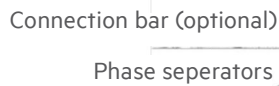
X-X and Y-Y represent the center of the 3P circuit breaker



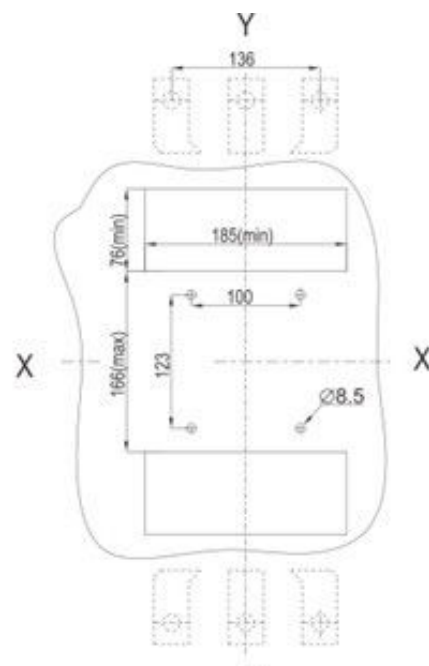
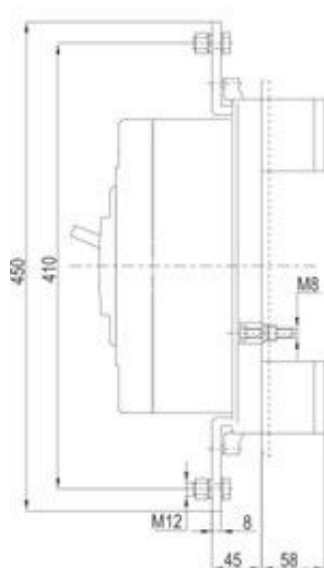
X-X and Y-Y represent the center of the 3P circuit breaker



Z6 630 Fixed circuit breaker

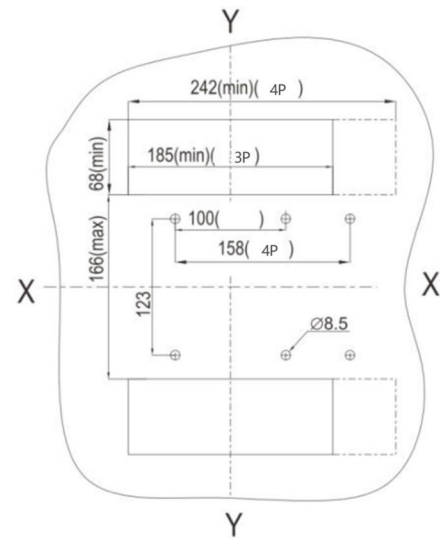
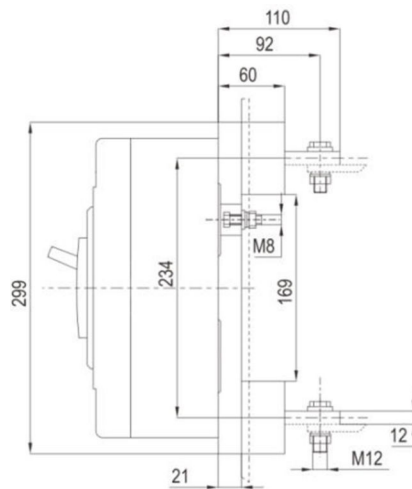


Z6 630 Plug-in front wiring



Dimension

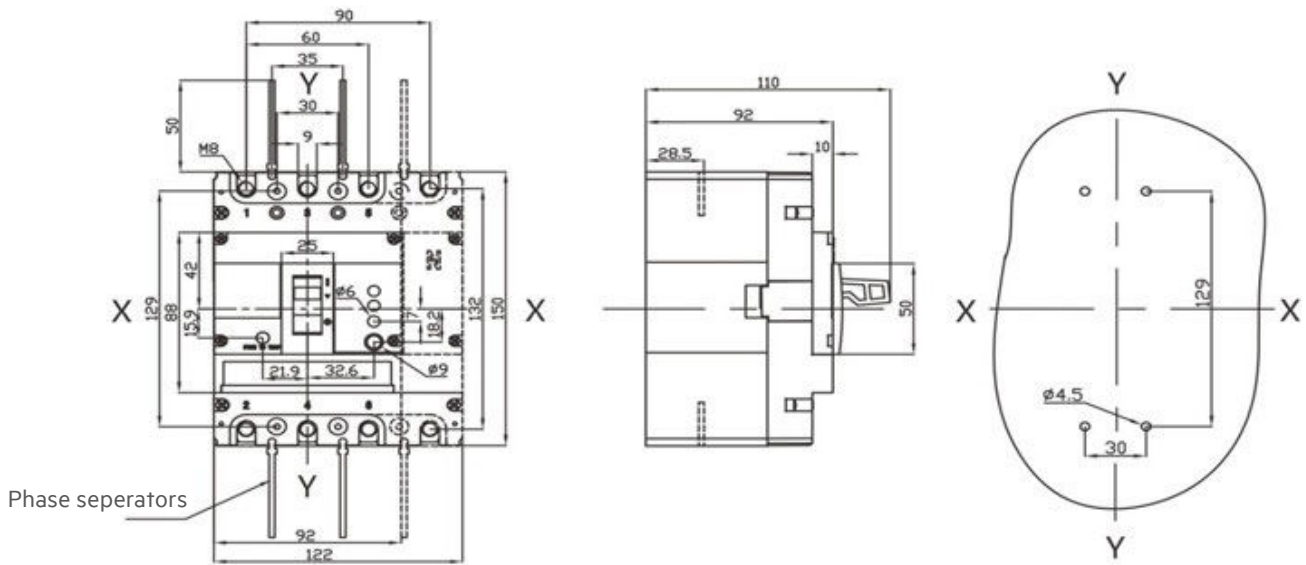
Z6 630-Plug in board rear wiring



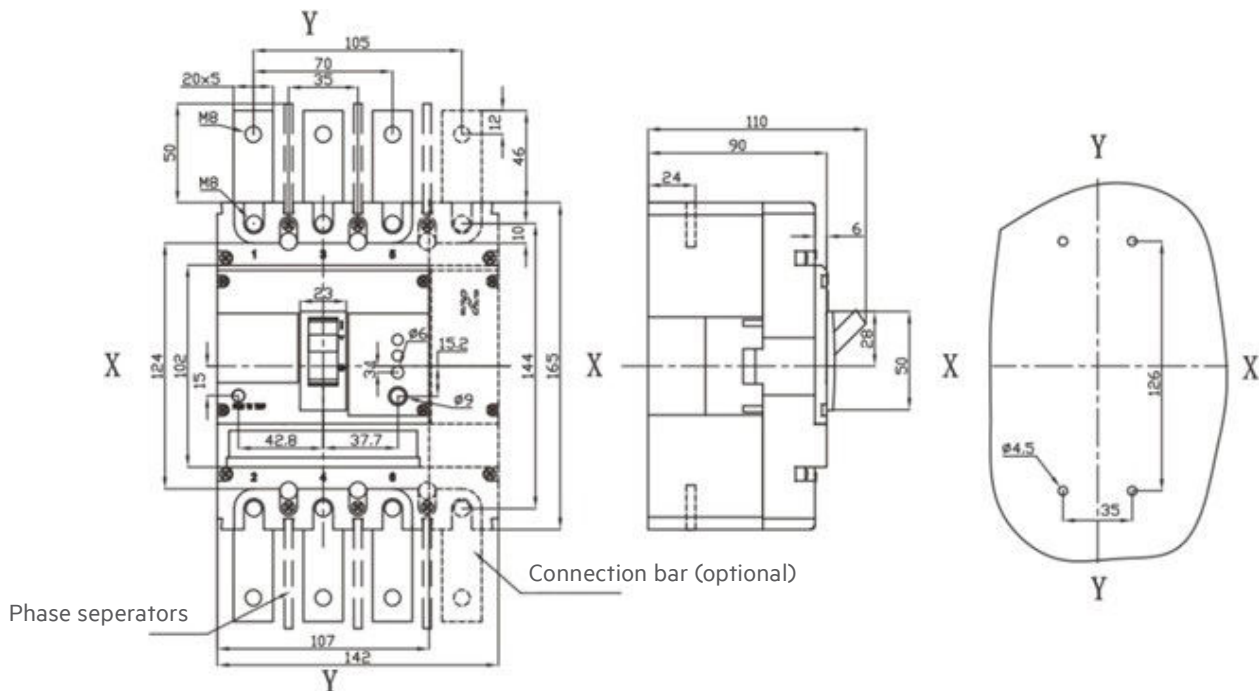
X-X and Y-Y represent the center of the 3P circuit breaker

Dimension**Z6R 100 Fixed circuit breaker with residual current protection**

X-X and Y-Y represent the center of the 3P circuit breaker

**Z6R 250 Fixed circuit breaker with residual current protection**

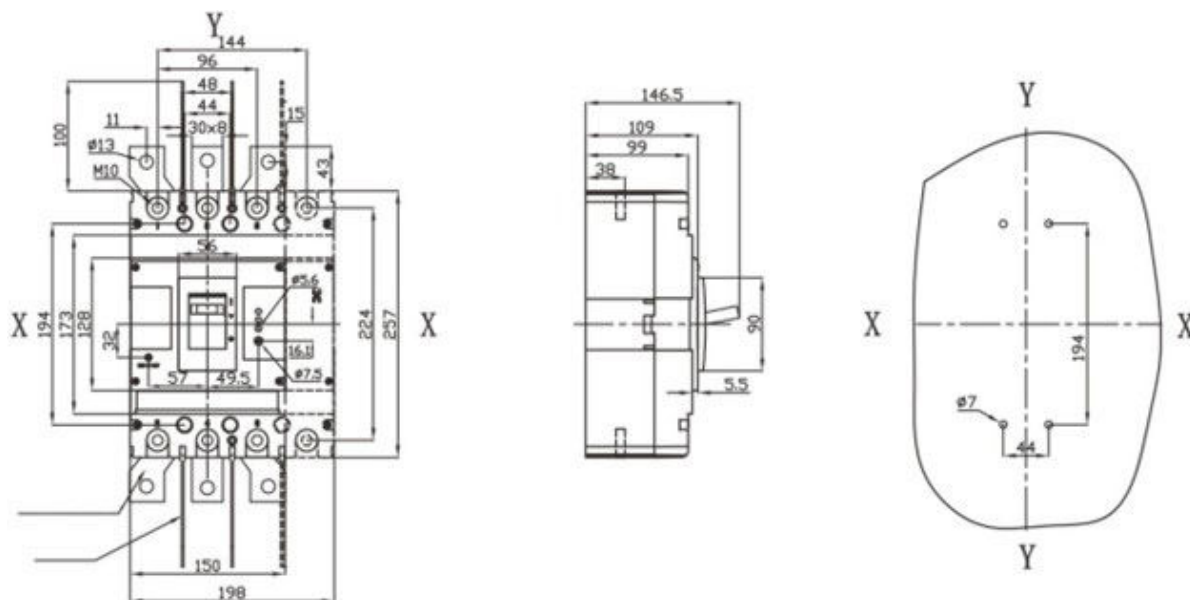
X-X and Y-Y represent the center of the 3P circuit breaker



Dimension

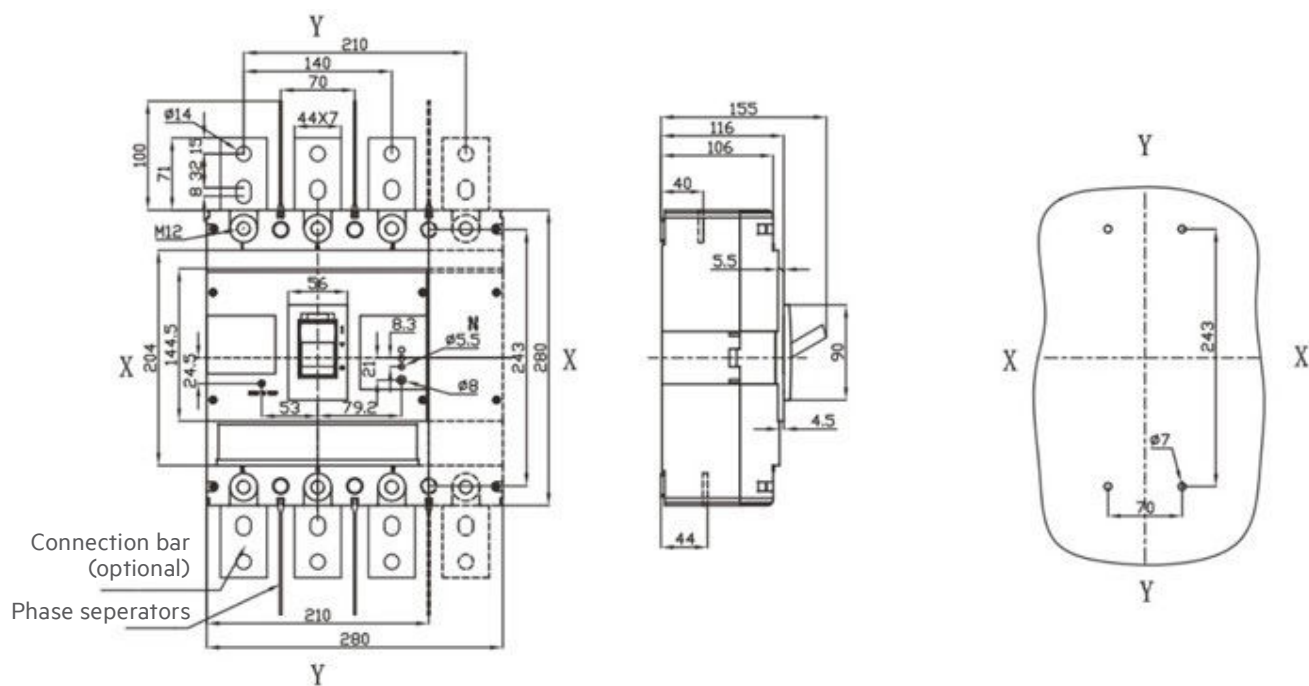
Z6R 400 Fixed circuit breaker with residual current protection

X-X and Y-Y represent the center of the 3P circuit breaker



Z6R 630 Fixed circuit breaker with residual current protection

X-X and Y-Y represent the center of the 3P circuit breaker



Ordering information

Z6 100 Complete circuit breaker



Line thermal magnetic protection L

In (A)	3poles		3poles	
	Product model	Order number	Product model	Order number
10	Z6S100L3010	Z60001G	Z6S100L4010	Z60041G
16	Z6S100L3016	Z60002G	Z6S100L4016	Z60042G
20	Z6S100L3020	Z60003G	Z6S100L4020	Z60043G
25	Z6S100L3025	Z60004G	Z6S100L4025	Z60044G
32	Z6S100L3032	Z60005G	Z6S100L4032	Z60045G
40	Z6S100L3040	Z60006G	Z6S100L4040	Z60046G
50	Z6S100L3050	Z60007G	Z6S100L4050	Z60047G
63	Z6S100L3063	Z60008G	Z6S100L4063	Z60048G
80	Z6S100L3080	Z60009G	Z6S100L4080	Z60049G
100	Z6S100L3100	Z60010G	Z6S100L4100	Z60050G

Only magnetic motor protection M

In (A)	3poles		
	Product model	Order number	
10	Z6S100M3010	Z60011G	
16	Z6S100M3016	Z60012G	
20	Z6S100M3020	Z60013G	
25	Z6S100M3025	Z60014G	
32	Z6S100M3032	Z60015G	
40	Z6S100M3040	Z60016G	
50	Z6S100M3050	Z60017G	
63	Z6S100M3063	Z60018G	
80	Z6S100M3080	Z60019G	
100	Z6S100M3100	Z60020G	



S breaking
Icu=36kA

10	Z6S100M3010	Z60011G
16	Z6S100M3016	Z60012G
20	Z6S100M3020	Z60013G
25	Z6S100M3025	Z60014G
32	Z6S100M3032	Z60015G
40	Z6S100M3040	Z60016G
50	Z6S100M3050	Z60017G
63	Z6S100M3063	Z60018G
80	Z6S100M3080	Z60019G
100	Z6S100M3100	Z60020G

Z6 100 Accessories

Z6 100-Internal Accessories		
	Product model	Order number
Z6 100 Left Auxiliary 1NO+1NC	Z6FAS11L100	Z62034G
Z6 100 Right Auxiliary 1NO+1NC	Z6FAS11R100	Z62039G
Z6 100 Left Auxiliary 2NO+2NC	Z6FAS22L100	Z62044G
Z6 100 Right Auxiliary 2NO+2NC	Z6FAS22R100	Z62050G
Z6 100 Left alarm 1NO+1NC	Z6FAB11L100	Z62056G
Z6 100 Right alarm 1NO+1NC	Z6FAB11R100	Z62062G
Z6 100 Left Auxiliary 1NO+1NC alarm1NO+1NC	Z6FASB11L100	Z62068G
Z6 100 Right Auxiliary 1NO+1NC alarm1NO+1NC	Z6FASB11R100	Z62073G
Z6 100 shunt DC24V	Z6SHT100D	Z62001G
Z6 100 shunt AC230V	Z6SHT100N	Z62002G
Z6 100 shunt AC400V	Z6SHT100U	Z62003G
Z6 100-External Accessories		
Z6 100 plug-in base 3P board front wiring	Z6DDF100/3F	Z62080G
Z6 100 plug-in base 3P board rear wiring	Z6DDF100/3B	Z62081G
Z6 100 plug-in base 4P board rear wiring	Z6DDF100/4B	Z62082G
Z6 100 extended straight terminal 3P	Z6BSS100/3	Z62095G
Z6 100 extended straight terminal 4P	Z6BSS100/4	Z62096G
Z6 100 central manual operating mechanism/F	Z6RBG100/F	Z62115G

Note: 1) Shunt release, auxiliary, and alarm accessories need to be ordered together with the circuit breaker, and shipped after assembly within the factory; 2) For a single circuit breaker, the number of accessories cannot exceed 2. When there is a high demand for accessories, please prioritize selecting the material model with combined functions

Ordering information

Z6 160 Complete circuit breaker

Line thermal magnetic protection L					
 S breaking Icu=36kA	In (A)	3poles		4poles	
		Product model	Order number	Product model	Order number
	100	Z6S160L3100	Z60081G	Z6S160L4100	Z60097G
	125	Z6S160L3125	Z60082G	Z6S160L4125	Z60098G
	140	Z6S160L3140	Z60083G	Z6S160L4140	Z60099G
	160	Z6S160L3160	Z60084G	Z6S160L4160	Z60100G

Only magnetic motor protection M				
 S breaking Icu=36kA	In (A)	3poles		
		Product model	Order number	
	100	Z6S160M3100	Z60085G	
	125	Z6S160M3125	Z60086G	
	140	Z6S160M3140	Z60087G	
	160	Z6S160M3160	Z60088G	

Z6 160 Accessories

Z6 160-Internal Accessories		
	Product model	Order number
Z6 160 Left Auxiliary 1NO+1NC	Z6FAS11L160	Z62035G
Z6 160 Right Auxiliary 1NO+1NC	Z6FAS11R160	Z62040G
Z6 160 Left Auxiliary 2NO+2NC	Z6FAS22L160	Z62045G
Z6 160 Right Auxiliary 2NO+2NC	Z6FAS22R160	Z62051G
Z6 160 Left alarm 1NO+1NC	Z6FAB11L160	Z62057G
Z6 160 Right alarm 1NO+1NC	Z6FAB11R160	Z62063G
Z6 160 Left Auxiliary 1NO+1NC alarm1NO+1NC	Z6FASB11L160	Z62069G
Z6 160 Right Auxiliary 1NO+1NC alarm1NO+1NC	Z6FASB11R160	Z62074G
Z6 160 shunt DC24V	Z6SHT160D	Z62004G
Z6 160 shunt AC230V	Z6SHT160N	Z62005G
Z6 160 shunt AC400V	Z6SHT160U	Z62006G

Z6 160-External Accessories		
Z6 160 plug-in base 3P board front wiring	Z6DDF160/3F	Z62083G
Z6 160 plug-in base 3P board rear wiring	Z6DDF160/3B	Z62084G
Z6 160 plug-in base 4P board rear wiring	Z6DDF160/4B	Z62085G
Z6 160 extended straight terminal 3P	Z6BSS160/3	Z62097G
Z6 160 extended straight terminal 4P	Z6BSS160/4	Z62098G
Z6 160 central manual operating mechanism/F	Z6RBG160/F	Z62116G

Note: 1) Shunt release, auxiliary, and alarm accessories need to be ordered together with the circuit breaker, and shipped after assembly within the factory; 2) For a single circuit breaker, the number of accessories cannot exceed 2. When there is a high demand for accessories, please prioritize selecting the material model with combined functions

Ordering information

Z6 250 Complete circuit breaker

Line thermal magnetic protection L					
	In (A)	3poles		3poles	
		Product model	Order number	Product model	Order number
 S breaking Icu=36kA	100	Z6S250L3100	Z60113G	Z6S250L4100	Z60145G
	125	Z6S250L3125	Z60114G	Z6S250L4125	Z60146G
	140	Z6S250L3140	Z60115G	Z6S250L4140	Z60147G
	160	Z6S250L3160	Z60116G	Z6S250L4160	Z60148G
	180	Z6S250L3180	Z60117G	Z6S250L4180	Z60149G
	200	Z6S250L3200	Z60118G	Z6S250L4200	Z60150G
	225	Z6S250L3225	Z60119G	Z6S250L4225	Z60151G
	250	Z6S250L3250	Z60120G	Z6S250L4250	Z60152G

Only magnetic motor protection M					
	In (A)	3poles			
		Product model	Order number		
 S breaking Icu=36kA	100	Z6S250M3100	Z60121G		
	125	Z6S250M3125	Z60122G		
	140	Z6S250M3140	Z60123G		
	160	Z6S250M3160	Z60124G		
	180	Z6S250M3180	Z60125G		
	200	Z6S250M3200	Z60126G		
	225	Z6S250M3225	Z60127G		
	250	Z6S250M3250	Z60128G		

Z6 250 Accessories

Z6 250-Internal Accessories		
	Product model	Order number
Z6 250 Left Auxiliary 1NO+1NC	Z6FAS11L250	Z62036G
Z6 250 Right Auxiliary 1NO+1NC	Z6FAS11R250	Z62041G
Z6 250 Left Auxiliary 2NO+2NC	Z6FAS22L250	Z62046G
Z6 250 Right Auxiliary 2NO+2NC	Z6FAS22R250	Z62052G
Z6 250 Left alarm 1NO+1NC	Z6FAB11L250	Z62058G
Z6 250 Right alarm 1NO+1NC	Z6FAB11R250	Z62064G
Z6 250 Left Auxiliary 1NO+1NC alarm1NO+1NC	Z6FASB11L250	Z62070G
Z6 250 Right Auxiliary 1NO+1NC alarm1NO+1NC	Z6FASB11R250	Z62075G
Z6 250 shunt DC24V	Z6SHT250D	Z62007G
Z6 250 shunt AC230V	Z6SHT250N	Z62008G
Z6 250 shunt AC400V	Z6SHT250U	Z62009G
Z6 250-External Accessories		
Z6 250 plug-in base 3P board front wiring	Z6DDF250/3F	Z62086G
Z6 250 plug-in base 3P board rear wiring	Z6DDF250/3B	Z62087G
Z6 250 plug-in base 4P board rear wiring	Z6DDF250/4B	Z62088G
Z6 250 extended straight terminal 3P	Z6BSS250/3	Z62099G
Z6 250 extended straight terminal 4P	Z6BSS250/4	Z62100G
Z6 250 central manual operating mechanism/F	Z6RBG250/F	Z62117G

Note: 1) Shunt release, auxiliary, and alarm accessories need to be ordered together with the circuit breaker, and shipped after assembly within the factory; 2) For a single circuit breaker, the number of accessories cannot exceed 2. When there is a high demand for accessories, please prioritize selecting the material model with combined functions



RC⁺ Z6 molded case circuit breaker

Ordering information

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RC⁺ Z6 molded case circuit breaker

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RC⁺ Z6 molded case circuit breaker

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GEIS

GEIS Electric
Website: www.geis.tech
Hotline: +86 400-820-5234

This catalog may be subjected to revision without prior notice.
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