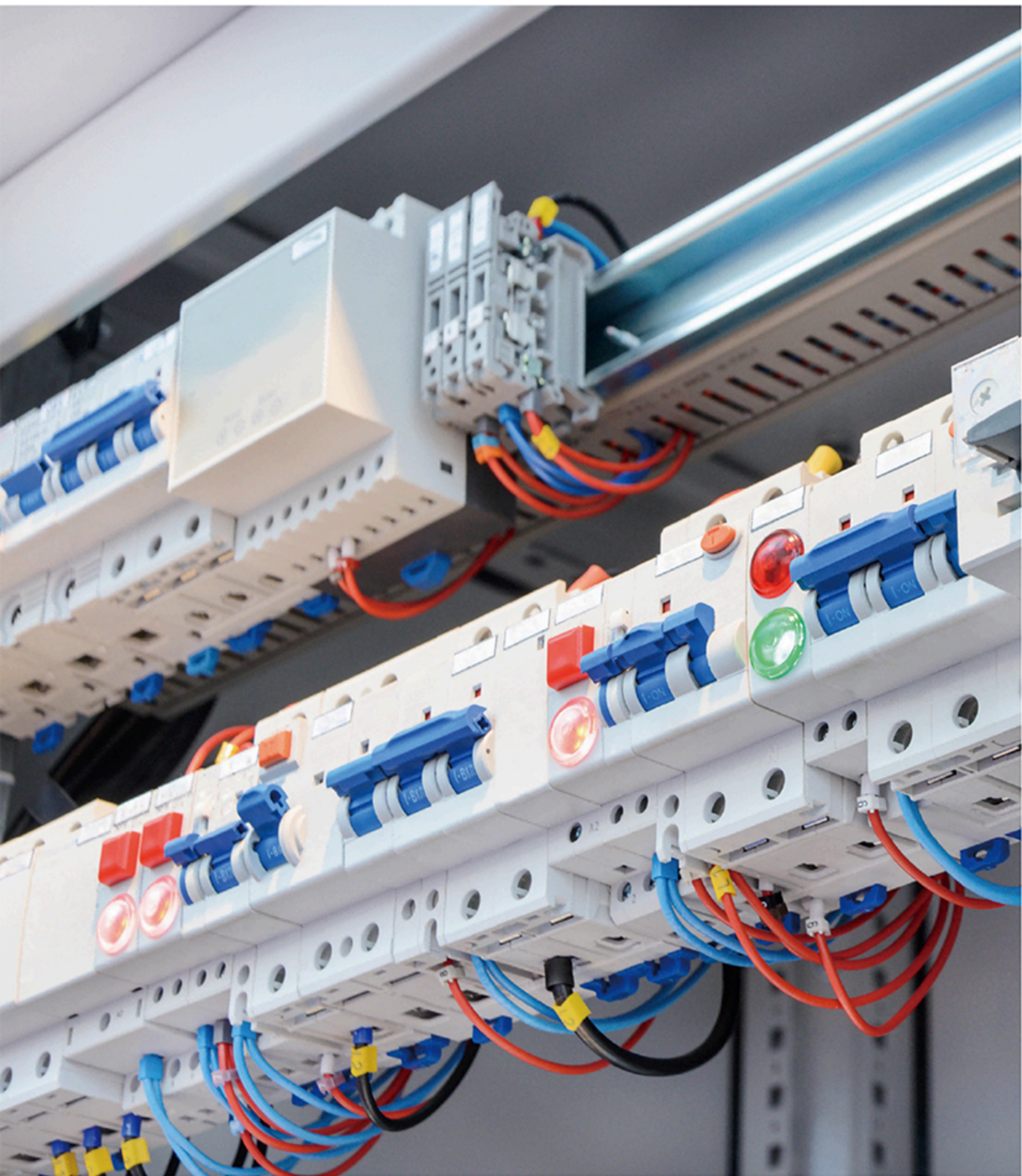








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Mini Circuit Breaker

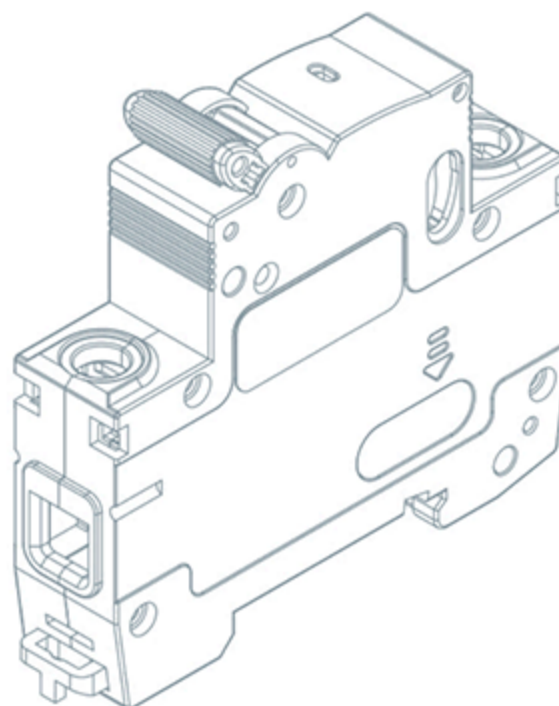




Deity² Series

Simple and Efficient Terminal Power Distribution Solution

- Comply with the latest standards IEC60898 and GB10963
- Accurate setting of current trip
- Breaking capacity up to 10kA
- High current limiting capacity, can achieve high selectivity
- Double terminals on both sides are suitable for busbar row and single conductor
- Multi-functional accessory series
- The wiring screw of composite groove, with large torque and firm wiring, can realize fast wiring
- Power input direction is arbitrary
- With DC products, can be applied to new energy and other fields



BD1-63S Series Miniature Circuit Breaker (MCB)

Application

BD1-63S is applicable to a line of AC 50/60Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit, and rated current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercially district, high-rise building and dwelling house. It conforms with the standards of IEC60898.

Main Technical Parameter

Type	BD1-63S	
Pole	1P	2P, 3P, 4P
Rated current (A)	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Ambient temperature	-5°C~+40°C	
Type of instantaneous release	B, C, D	
Rated short circuit breaking capacity Icn(kA)	6	

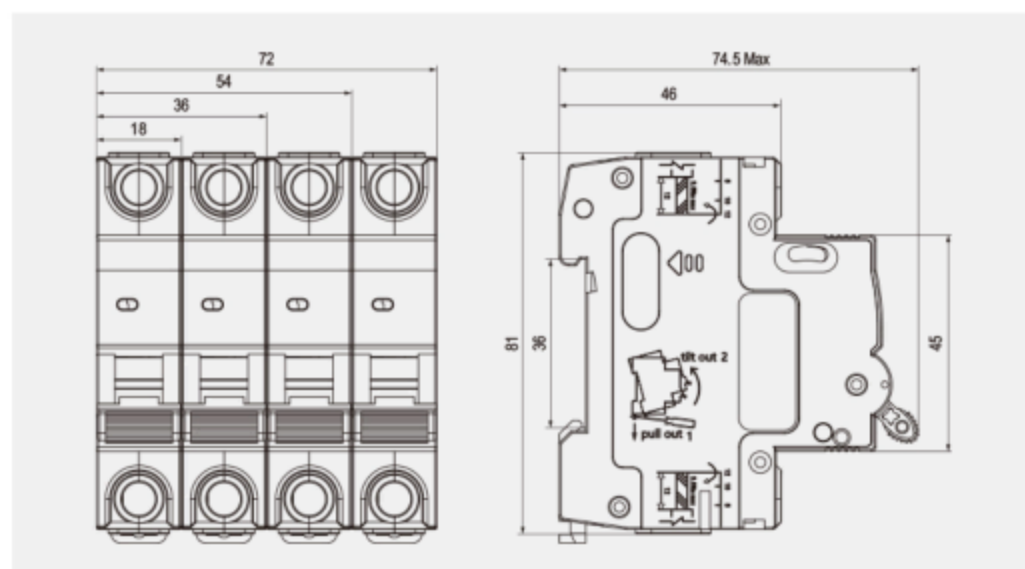
Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

The Over-Current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2°C	Cold position	1.13In	t≥1h	Non-release	—
	Carried out immediately after previous test	1.45In	t<1h	Release	—
	Cold position	2.55In	1s<t<60s(In≤32A)	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55In	1s<t<120s(In>32A)	Release	
-5~+40°C	Cold position	3In	t≥0.1s	Non-release	Type B
	Cold position	5In	t<0.1s	Release	Type B
	Cold position	5In	t≥0.1s	Non-release	Type C
	Cold position	10In	t<0.1s	Release	Type C
	Cold position	10In	t≥0.1s	Non-release	Type D
	Cold position	20In	t<0.1s	Release	Type D

Dimension



BD1LE-63S Series Residual Current Circuit Breaker (RCBO)

Application

BD1LE-63S is applicable to a line of AC 50/60Hz, rated voltage 230V for single pole two-wire, 2-pole or 400V for 3-pole, 3-pole 4-wire, 4-pole and rated current up to 40A. It can protect the line and motor from overload and short circuit. It can also be used for infrequent line conversion and infrequent motor start. It conforms with the standards of IEC61009.

Main Technical Parameter

Type	BD1LE-63S	
Pole	1P+N, 2P	3P, 3P+N, 4P
Rated current (A)	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Rated short circuit breaking capacity $I_{cn}(kA)$	6	
Rated residual making/breaking capacity $I_{\Delta m}(A)$	2000	
Rated residual action current $I_{\Delta n}(A)$	0.03, 0.05, 0.1, 0.3	
Rated residual non-action current $I_{\Delta no}(A)$	0.5 $I_{\Delta n}$	

Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

Residual Current Breaking Time

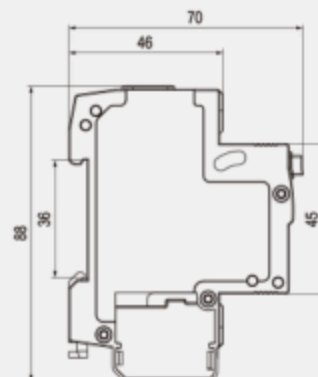
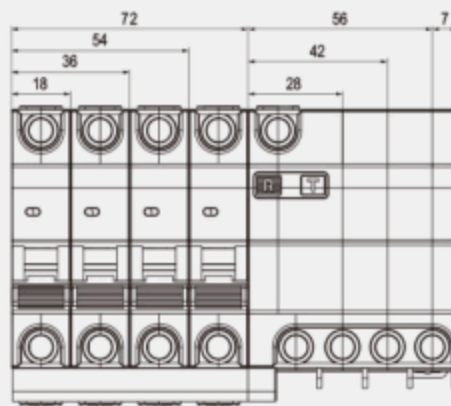
In(A)	IΔn	Breaking time(s) when equals to rating following				
		IΔn	2IΔn	5IΔn	5,10,20,50,100,200,500 ^a (A)	IΔt ^b
6-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	0.04	0.04	0.04

The Over-Current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2℃	Cold position	1.13 I_n	$t \geq 1h$	Non-release	—
	Carried out immediately after previous test	1.45 I_n	$t < 1h$	Release	—
	Cold position	2.55 I_n	$1s < t < 60s (I_n \leq 32A)$	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55 I_n	$1s < t < 120s (I_n > 32A)$	Release	
-5~+40℃	Cold position	3 I_n	$t \geq 0.1s$	Non-release	Type B
	Cold position	5 I_n	$t < 0.1s$	Release	Type B
	Cold position	5 I_n	$t \geq 0.1s$	Non-release	Type C
	Cold position	10 I_n	$t < 0.1s$	Release	Type C
	Cold position	10 I_n	$t \geq 0.1s$	Non-release	Type D
	Cold position	20 I_n	$t < 0.1s$	Release	Type D

Dimension

4P: 72+63
3P+N: 54+63
3P: 54+49
2P: 36+35
1P: 18+35



BD-125 Series Miniature Circuit Breaker (MCB)

Application

BD-125 is such features as delicate appearance, light weight, excellent and reliable performance, high breaking capacity, rapid tripping and mounted by rail. Its enclosure and components adopts high fire-retarding and shock-resistance plastic of long durability. It mainly serves for protecting the circuits of AC 50Hz, 230V of single pole, 400V of two poles or three or four poles from overload or short-circuit, and also for unfrequent making and breaking electrical apparatus and lighting circuit. It conforms with the standards of IEC60947-2.

Main Technical Parameter

Type	BD-125	
Pole	1P	2P, 3P, 4P
Rated current (A)	63, 80, 100, 125	
Rated voltage (V)	230/240	400/415
Ambient temperature	-5°C~+40°C	
Type of instantaneous release	B, C, D	
Rated short circuit breaking capacity I _{cn} (kA)	4(BD-125), 10(BD-125S)	

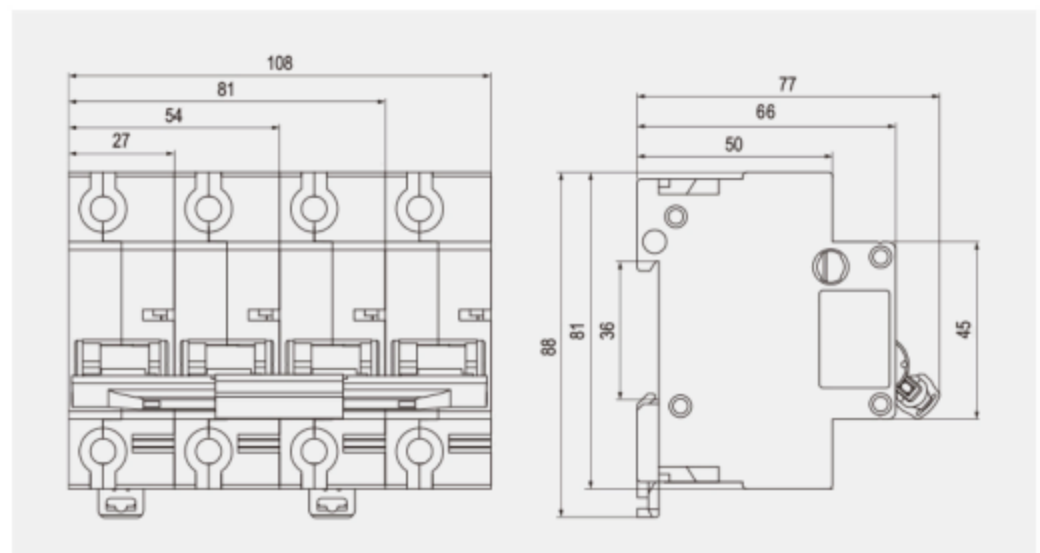
The Over-Current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
40±2°C	Cold position	1.13I _n (I _n ≤63A)	t≤1h	Non-release	—
	Cold position	1.05I _n (I _n >63A)	t≤2h	Non-release	-
	Carried out immediately after previous test	1.45I _n (I _n ≤63A)	t<1h	Release	Current smoothly rises to specified value within 5s
		1.30I _n (I _n >63A)	t<2h	Release	
-5~+40°C	Cold position	8I _n (I _n ≥63A)	t≤0.2s	Non-release	-
	Cold position	12I _n (I _n ≥63A)	t<0.2s	Release	-

Applicable Conducting Wire

Rated current (A)	63	80	100-125
Nominal cross section of wire (mm ²)	16	25	35

Dimension



BDL-125 Series Residual Current Circuit Breaker (RCBO)

Application

BDL-125 is applicable to a line of AC 50/60Hz, rated voltage 230V for single pole two-wire, 2-pole or 400V for 3-pole, 3-pole 4-wire, 4-pole and rated current up to 40A. It can protect the line and motor from overload and short circuit. It can also be used for infrequent line conversion and infrequent motor start. It conforms with the standards of IEC60947-2.

Main Technical Parameter

Type	BDL-125	
Pole	1P+N, 2P	3P, 3P+N, 4P
Rated current (A)	63, 80, 100, 125	
Rated voltage (V)	230/240	400/415
Rated short circuit breaking capacity $I_{cn}(kA)$	4(BD-125), 10(BD-125S)	
Rated residual making/breaking capacity $I_{\Delta m}(A)$	2000	
Rated residual action current $I_{\Delta n}(A)$	0.03, 0.05, 0.1, 0.3	
Rated residual non-action current $I_{\Delta no}(A)$	0.5 $I_{\Delta n}$	
Over voltage protection grade	280V $\pm$ 5%	

Applicable Conducting Wire

Rated current (A)	63	80	100-125
Nominal cross section of wire (mm ²)	16	25	35

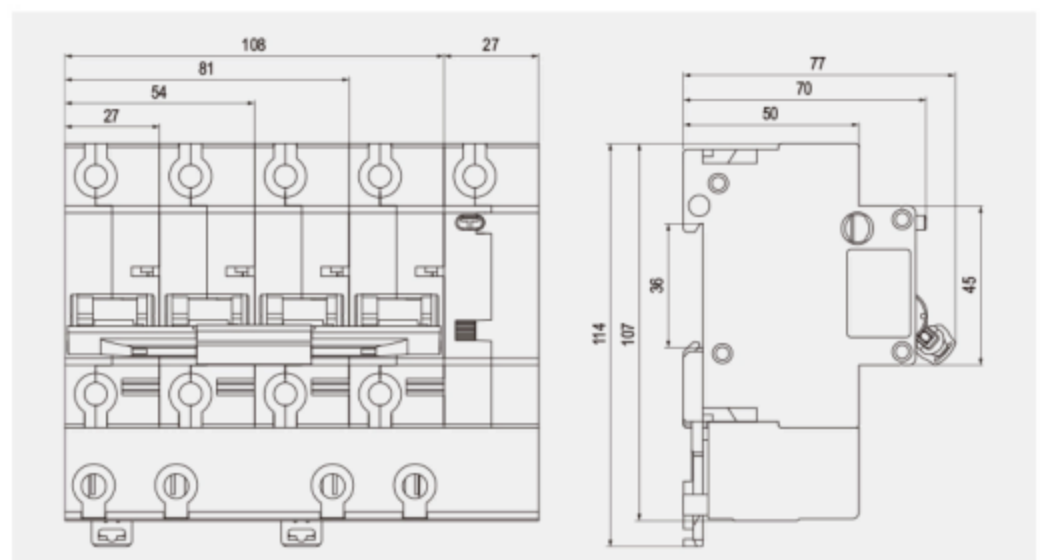
Residual Current Breaking Time

$I_n(A)$	$I_{\Delta n}$	Breaking time(s) when equals to rating following				
		$I_{\Delta n}$	2 $I_{\Delta n}$	5 $I_{\Delta n}$	5,10,20,50,100,200,500 ^a (A)	$I_{\Delta n}^b$
6-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	0.04	0.04	0.04

The Over-Current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
40 $\pm$ 2 $^{\circ}$ C	Cold position	1.13 $I_n(I_n \leq 63A)$	$t \leq 1h$	Non-release	-
	Cold position	1.05 $I_n(I_n > 63A)$	$t \leq 2h$	Non-release	-
	Carried out immediately after previous test	1.45 $I_n(I_n \leq 63A)$	$t < 1h$	Release	Current smoothly rises to specified value within 5s
		1.30 $I_n(I_n > 63A)$	$t < 2h$	Release	
-5 $\sim$ +40 $^{\circ}$ C	Cold position	8.00 I_n	$t \leq 0.2s$	Non-release	-
	Cold position	12.00 I_n	$t < 0.2s$	Non-release	-

Dimension



BD1-63Z Series DC Miniature Circuit Breaker

Application

BD1-63Z DC circuit breaker is used for overload and short-circuit protection in lines with rated dc voltage up to 1000V and rated current up to 63A, as well as for infrequent operation and conversion of lines.

Circuit breakers are suitable for dc system applications such as communication and photovoltaic systems.

Standard: GB 10693.2-2003, IEC 60898-2:2000

Main Technical Parameter

Type	BD1-63Z
Rated voltage U_e (V)	125V/250V DC(1P), 250V/500V DC(2P), 500V/1000V DC(4P)
Rated current I_n (A)	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63
Rated insulation voltage U_i (V)	1000
Rated impulse withstand voltage U_{imp} (kV)	4
Pole	1P, 2P, 3P, 4P
Type of instantaneous release	C(7~10) I_n
Rated short circuit breaking capacity I_{cn} (kA)	6
Mechanical and electrical life	Mechanical life 20000 times, electrical life 1500 times
Tightening torque (N·m)	2.0
Class of pollution	2 class
Protection grade	IP20
Installation category	II, III category

Product Features

1. Excellent breaking ability;
2. Dual wiring function of conductor and busbar;
3. Energy storage operation, fast closure, long life;
4. Convenient installation and disassembly;
5. Contact on/off indication, higher security;
6. Green environmental protection and energy saving.

Normal Operation Conditions

1. Ambient temperature: -35°C~+70°C
2. Relative humidity of air: ≤95%
3. Altitude: ≤2000m

The Over-Current Protection Property (Reference temperature 30°C)

Test	Test current	Initial status	Test time	Expected result	Note
a	1.05 I_n	Cold position	$t \leq 1h$	Non-release	—
b	1.30 I_n	Carried out immediately after previous test	$t < 1h$	Release	Current smoothly rises to specified value within 5s
c	7 I_n	Cold position	$t \leq 0.2s$	Non-release	—
d	10 I_n	Cold position	$t < 0.2s$	Release	—

Applicable Conducting Wire

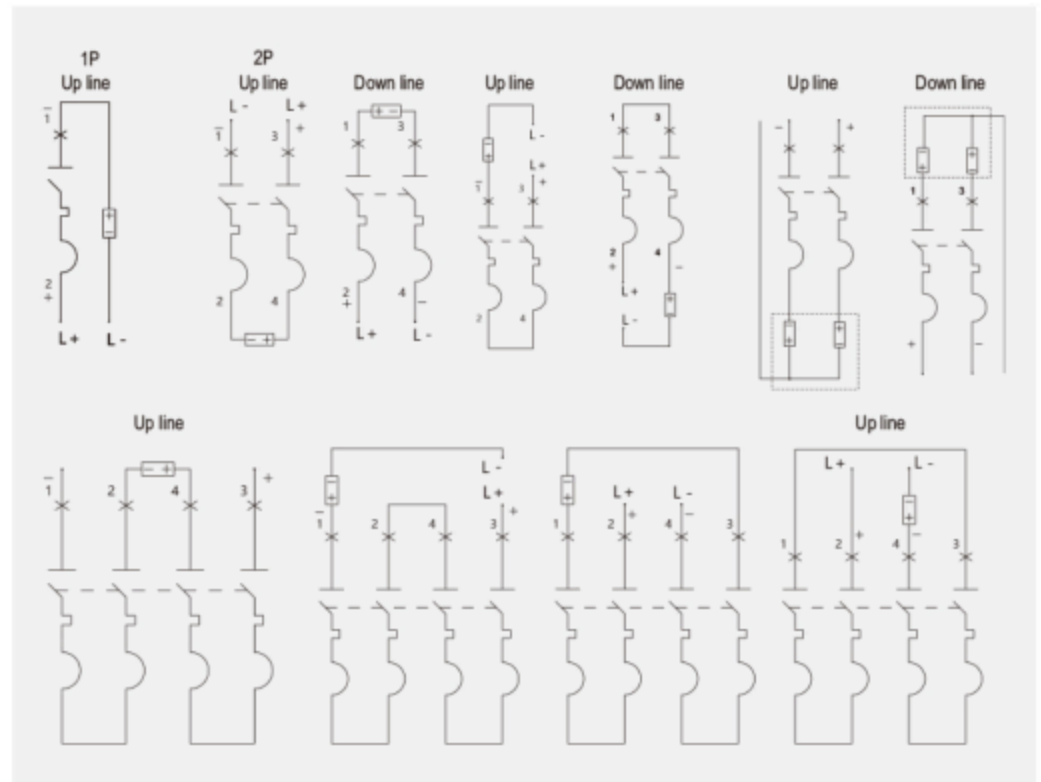
Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Normal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

Power Consumption Per Pole of Circuit Breaker

Rated current I_n (A)	Maximum power consumption per pole (W)
1~10	2
13~32	3.5
40~63	5

BD1-63Z Series DC Miniature Circuit Breaker

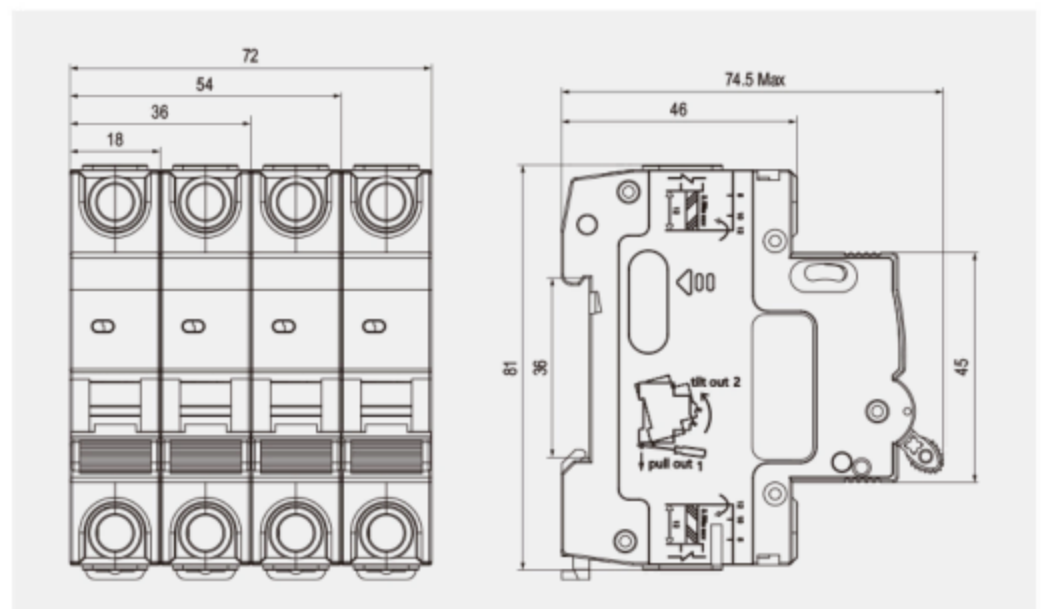
DC Application Wiring Diagram



Wiring diagram description:

- L+: positive power supply, L-: negative power supply;
- +: circuit breaker positive pole, -: circuit breaker negative pole;
-  : load;
- DC power supply is usually "L-" grounding, positive and negative power supply system polarity "M" grounding.
- It is strictly forbidden to remove the sealing plug of quadrupole products for wiring operation.

Dimension



BD3-125 Series Isolating Switch

Application

BD3-125 combines the following functions:

- Break and connect the circuit with load
- Isolating function

It's mainly suitable for low voltage terminal electrical distribution in the residential houses, buildings, etc.

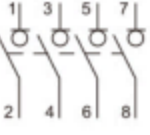
Standards & Certificates

- Comply with standard IEC60947.3/GB14048.3
- Obtain the certificate of CCC.

Type and Meaning

BD 3 - 125
① ② ③

①	Enterprise code
②	Isolating switch
③	Case grade rated current

Pole	Rated voltage (V)	Rated current (A)
1P 	230/240	32
		63
		80
		100
		125
2P 	400/415	32
		63
		80
		100
		125
3P 	400/415	32
		63
		80
		100
		125
4P 	400/415	32
		63
		80
		100
		125

Structural Features

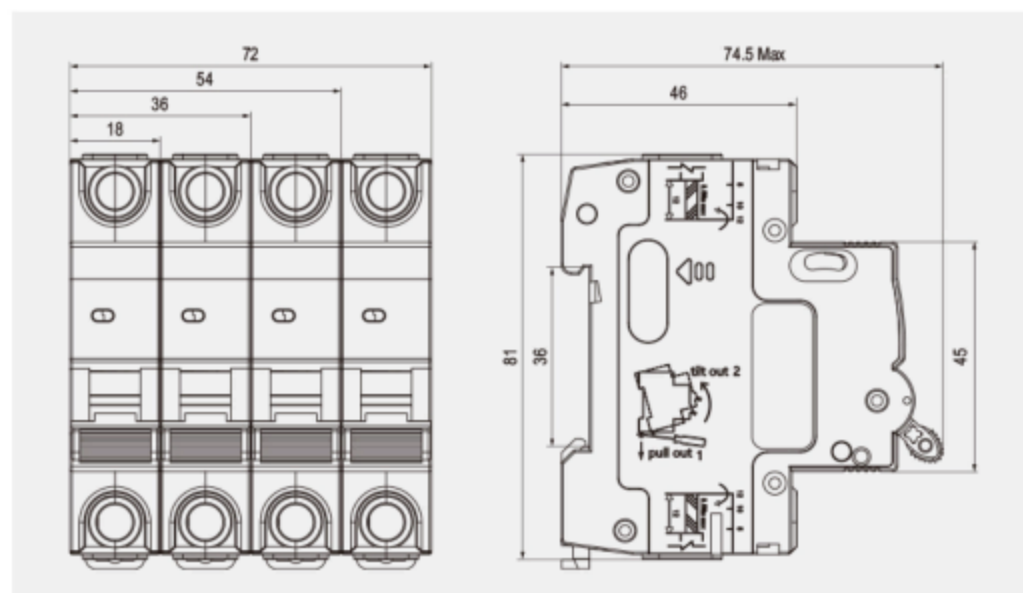
- The enclosure is made of special fire resistant and high-strength plastic, so it is featured in high impact resistance and light weight;
- Featured in good contact reliability, it is suitable for din rail installation and it can be used together with other modular terminal apparatus.

Applicable Conducting Wire

Rated current (A)	32	63	80	100	125
Nominal cross section of wire (mm ²)	6	16	25	35	35

BD3-125 Series Isolating Switch

Dimension



Main Technical Parameter

Pole	1P, 2P, 3P, 4P
Rated current In(A)	32, 63, 80, 100, 125
Rated operating voltage Ue(V)	230/240(1P); 400/415(2P, 3P, 4P)
Rated insulating voltage Ui(V)	500
Rated short time withstand current Icw	12In 1s
Rated short time breaking capability Icm	20In 0.05s
Usage category	AC-22A
Mechanical life	8500 times
Electrical life	1500 times
Operation frequency	120 time/h
Grade of protection	IP20
Installation mode	Embedded type din rail mounting
Connection type	The terminal block or busbar with clamp
Connection capability	Allow the wire under 50mm ² to connect with
Tightening torque values	3.5N.m

Working & Installation Conditions

Ambient temperature	-5°C~+40°C, daily mean temperature ≤ 35°C
Altitude	≤2,000m
Air condition	No explosive hazard medium, no enough gas and dust to corrode metal and damage insulation
Relative humidity	When the maximum temperature is +40°C, relative humidity of air doesn't exceed 50%. Higher relative humidity may be allowed at lower temperature. For example, relative humidity reaches 90% at 20°C. Special measures should be taken to possible condensation incurred by the change of temperature
Pollution grade	Grade III
Installation category	Category II & III

BD1-63 Series Miniature Circuit Breaker (MCB)

Application

BD1-63 is applicable to a line of AC 50/60Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit, and rated current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercially district, high-rise building and dwelling house. It conforms with the standards of IEC60898.

Main Technical Parameter

Type	BD1-63	
Pole	1P	2P, 3P, 4P
Rated current (A)	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Ambient temperature	-5°C~+40°C	
Type of instantaneous release	B, C, D	
Rated short circuit breaking capacity Icn(kA)	6	

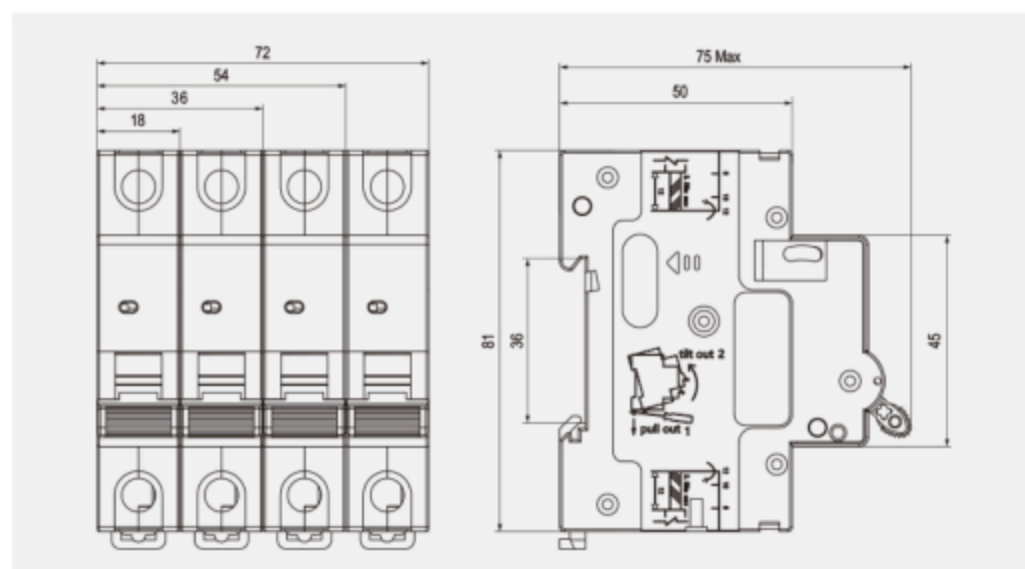
Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

The Over-Current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2°C	Cold position	1.13In	t≥1h	Non-release	—
	Carried out immediately after previous test	1.45In	t<1h	Release	—
	Cold position	2.55In	1s<t<60s(In≤32A)	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55In	1s<t<120s(In>32A)	Release	
-5~+40°C	Cold position	3In	t≥0.1s	Non-release	Type B
	Cold position	5In	t<0.1s	Release	Type B
	Cold position	5In	t≥0.1s	Non-release	Type C
	Cold position	10In	t<0.1s	Release	Type C
	Cold position	10In	t≥0.1s	Non-release	Type D
	Cold position	20In	t<0.1s	Release	Type D

Dimension



BD1LE-63 Series Residual Current Circuit Breaker (RCBO)

Application

BD1LE-63 is applicable to a line of AC 50/60Hz, rated voltage 230V for single pole two-wire, 2-pole or 400V for 3-pole, 3-pole 4-wire, 4-pole and rated current up to 40A. It can protect the line and motor from overload and short circuit. It can also be used for infrequent line conversion and infrequent motor start. It conforms with the standards of IEC61009.

Main Technical Parameter

Type	BD1LE-63	
Pole	1P+N, 2P	3P, 3P+N, 4P
Rated current (A)	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Rated short circuit breaking capacity $I_{cn}(kA)$	6	
Rated residual making/breaking capacity $I_{\Delta m}(A)$	2000	
Rated residual action current $I_{\Delta n}(A)$	0.03, 0.05, 0.1, 0.3	
Rated residual non-action current $I_{\Delta no}(A)$	0.5 $I_{\Delta n}$	

Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

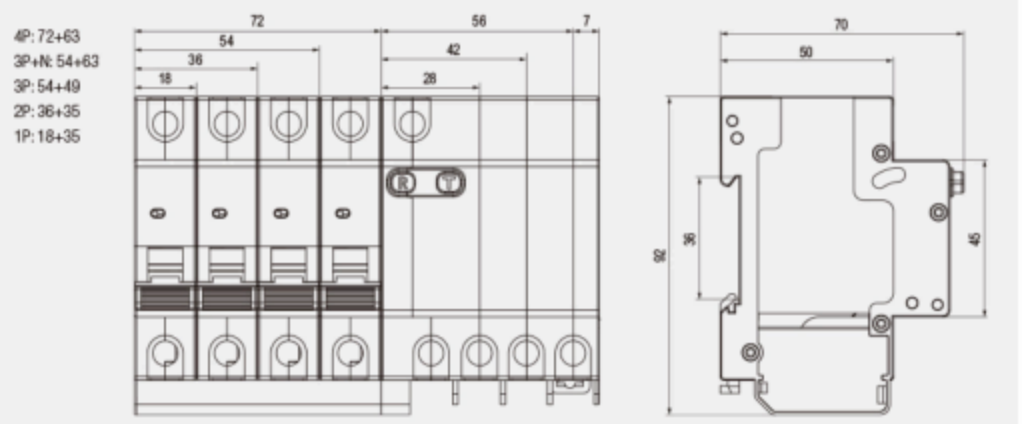
Residual Current Breaking Time

In(A)	IΔn	Breaking time(s) when equals to rating following				
		IΔn	2IΔn	5IΔn	5,10,20,50,100,200,500 ^a (A)	IΔt ^b
6-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	0.04	0.04	0.04

The Over-Current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2℃	Cold position	1.13 I_n	$t \geq 1h$	Non-release	—
	Carried out immediately after previous test	1.45 I_n	$t < 1h$	Release	—
	Cold position	2.55 I_n	$1s < t < 60s (I_n \leq 32A)$	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55 I_n	$1s < t < 120s (I_n > 32A)$	Release	
-5~+40℃	Cold position	3 I_n	$t \geq 0.1s$	Non-release	Type B
	Cold position	5 I_n	$t < 0.1s$	Release	Type B
	Cold position	5 I_n	$t \geq 0.1s$	Non-release	Type C
	Cold position	10 I_n	$t < 0.1s$	Release	Type C
	Cold position	10 I_n	$t \geq 0.1s$	Non-release	Type D
	Cold position	20 I_n	$t < 0.1s$	Release	Type D

Dimension



BD1-63Z Series DC Miniature Circuit Breaker

Application

BD1-63Z DC circuit breaker is used for overload and short-circuit protection in lines with rated dc voltage up to 1000V and rated current up to 63A, as well as for infrequent operation and conversion of lines.

Circuit breakers are suitable for dc system applications such as communication and photovoltaic systems.

Standard: GB 10693.2-2003, IEC 60898-2:2000

Main Technical Parameter

Type	BD1-63Z
Rated voltage U_e (V)	125V/250V DC(1P), 250V/500V DC(2P), 500V/1000V DC(4P)
Rated current I_n (A)	1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63
Rated insulation voltage U_i (V)	1000
Rated impulse withstand voltage U_{imp} (kV)	4
Pole	1P, 2P, 3P, 4P
Type of instantaneous release	C(7~10) I_n
Rated short circuit breaking capacity I_{cn} (kA)	6
Mechanical and electrical life	Mechanical life 20000 times, electrical life 1500 times
Tightening torque (N·m)	2.0
Class of pollution	2 class
Protection grade	IP20
Installation category	II, III category

Product Features

1. Excellent breaking ability;
2. Dual wiring function of conductor and busbar;
3. Energy storage operation, fast closure, long life;
4. Convenient installation and disassembly;
5. Contact on/off indication, higher security;
6. Green environmental protection and energy saving.

Normal Operation Conditions

1. Ambient temperature: -35°C~+70°C
2. Relative humidity of air: ≤95%
3. Altitude: ≤2000m

The Over-Current Protection Property (Reference temperature 30°C)

Test	Test current	Initial status	Test time	Expected result	Note
a	1.05 I_n	Cold position	$t \leq 1h$	Non-release	—
b	1.30 I_n	Carried out immediately after previous test	$t < 1h$	Release	Current smoothly rises to specified value within 5s
c	7 I_n	Cold position	$t \leq 0.2s$	Non-release	—
d	10 I_n	Cold position	$t < 0.2s$	Release	—

Applicable Conducting Wire

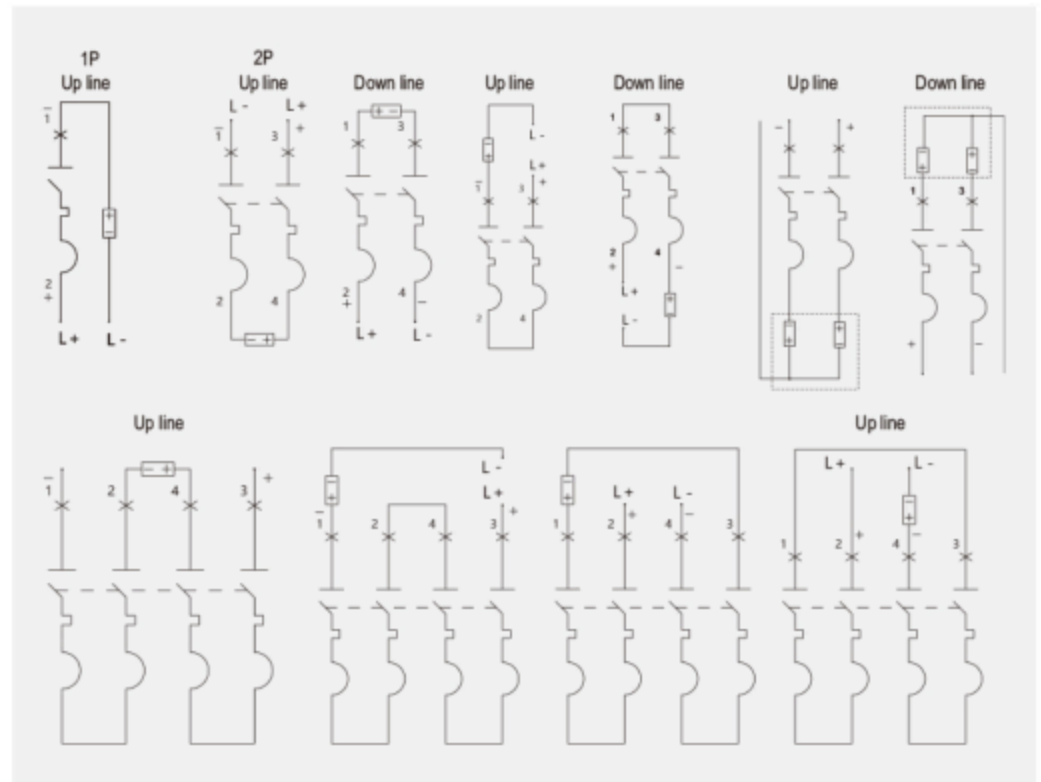
Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Normal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

Power Consumption Per Pole of Circuit Breaker

Rated current I_n (A)	Maximum power consumption per pole (W)
1~10	2
13~32	3.5
40~63	5

BD1-63Z Series DC Miniature Circuit Breaker

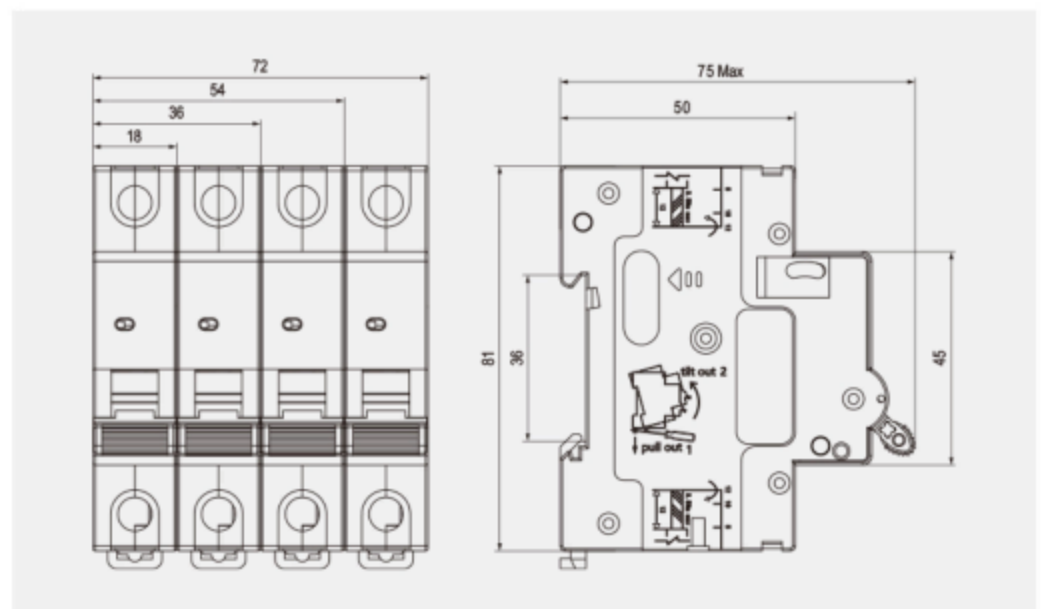
DC Application Wiring Diagram



Wiring diagram description:

- L+: positive power supply, L-: negative power supply;
- +: circuit breaker positive pole, -: circuit breaker negative pole;
- : load;
- DC power supply is usually "L-" grounding, positive and negative power supply system polarity "M" grounding.
- It is strictly forbidden to remove the sealing plug of quadrupole products for wiring operation.

Dimension



BD1-125 Series Isolating Switch

Application

BD1-125 combines the following functions:

- Break and connect the circuit with load
- Isolating function

It's mainly suitable for low voltage terminal electrical distribution in the residential houses, buildings, etc.

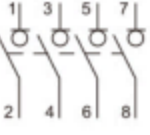
Standards & Certificates

- Comply with standard IEC60947.3/GB14048.3
- Obtain the certificate of CCC.

Type and Meaning

BD 1 - 125
① ② ③

①	Enterprise code
②	Design serial number
③	Case grade rated current

Pole	Rated voltage (V)	Rated current (A)
1P 	230/240	32
		63
		80
		100
		125
2P 	400/415	32
		63
		80
		100
		125
3P 	400/415	32
		63
		80
		100
		125
4P 	400/415	32
		63
		80
		100
		125

Structural Features

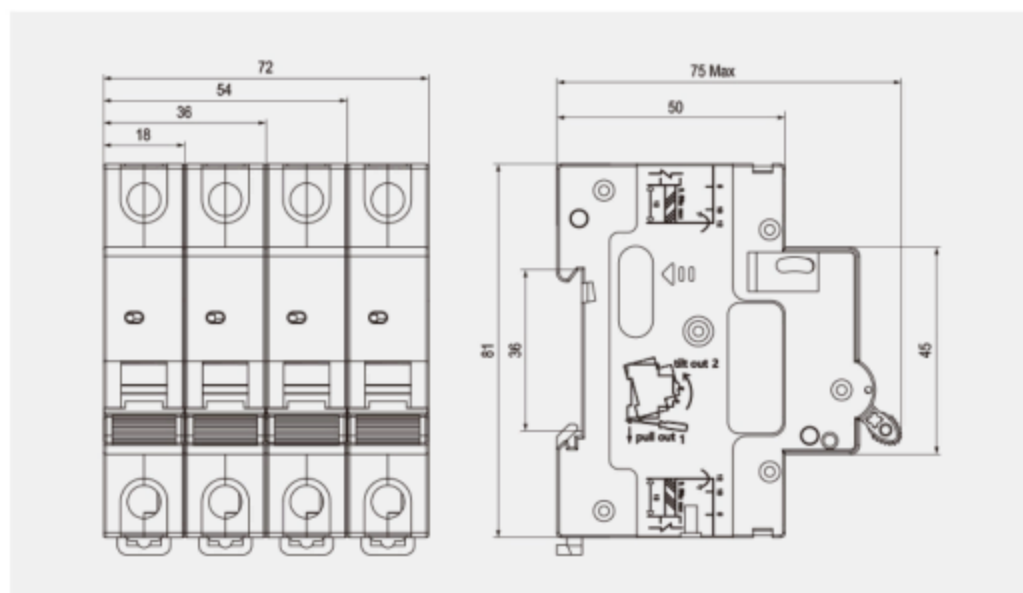
- The enclosure is made of special fire resistant and high-strength plastic, so it is featured in high impact resistance and light weight;
- Featured in good contact reliability, it is suitable for din rail installation and it can be used together with other modular terminal apparatus.

Applicable Conducting Wire

Rated current (A)	32	63	80	100	125
Nominal cross section of wire (mm ²)	6	16	25	35	35

BD1-125 Series Isolating Switch

Dimension



Main Technical Parameter

Pole	1P, 2P, 3P, 4P
Rated current In(A)	32, 63, 80, 100, 125
Rated operating voltage Ue(V)	230/240(1P); 400/415(2P, 3P, 4P)
Rated insulating voltage Ui(V)	500
Rated short time withstand current Icw	12In 1s
Rated short time breaking capability Icm	20In 0.05s
Usage category	AC-22A
Mechanical life	8500 times
Electrical life	1500 times
Operation frequency	120 time/h
Grade of protection	IP20
Installation mode	Embedded type din rail mounting
Connection type	The terminal block or busbar with clamp
Connection capability	Allow the wire under 50mm ² to connect with
Tightening torque values	3.5N.m

Working & Installation Conditions

Ambient temperature	-5°C~+40°C, daily mean temperature ≤ 35°C
Altitude	≤2,000m
Air condition	No explosive hazard medium, no enough gas and dust to corrode metal and damage insulation
Relative humidity	When the maximum temperature is +40°C, relative humidity of air doesn't exceed 50%. Higher relative humidity may be allowed at lower temperature. For example, relative humidity reaches 90% at 20°C. Special measures should be taken to possible condensation incurred by the change of temperature
Pollution grade	Grade III
Installation category	Category II & III

RCCB-63 Residual Current Circuit Breaker (RCCB)

Application

RCCB-63 is in conformity with the standard of IEC61008. The RCCB can cut off the fault circuit immediately on the occasion of shock hazard or earth leakage of trunk. Thus, it is suitable to avoid the shock hazard and fire caused by earth leakage.

The RCCB is mainly suitable for use in varieties of plants and enterprises, building construction 1 phase 230V and 3 phase 400V 50/60Hz. RCCB is not suitable for use on DC pulse system.

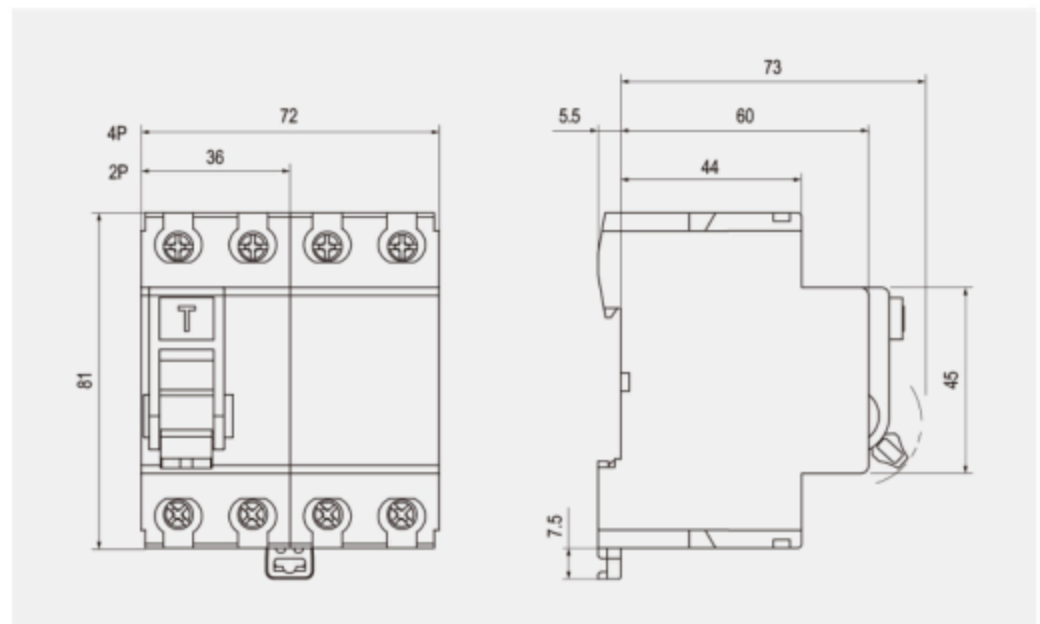
Specification

Number of Poles	2P, 4P
Rated Current (A)	16, 20, 25, 32, 40, 50, 63
Rated Residual Operating Current ($I_{\Delta n}$)(mA)	30, 100, 300, 500
Rated Voltage (V)	AC 230/240, AC 400/415
Residual Operating Current Scope	$0.5I_{\Delta n} \sim I_{\Delta n}$
Residual Current Off-time	$\leq 0.3S$
Short Circuit Capacity (Icu)	6000A
Endurance (times)	4000
Protection Degree	IP20

Applicable Conducting Wire

Rated current (A)	16, 20	25	32	40, 50	63
Nominal cross section of wire (mm ²)	2.5	4	6	10	16

Dimension



BD1-40 Series Miniature Circuit Breaker (MCB)



Application

BD1-40 is applicable to a line of AC 50/60Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit, and rated current up to 40A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercially district, high-rise building and dwelling house. It conforms with the standards of IEC60898.

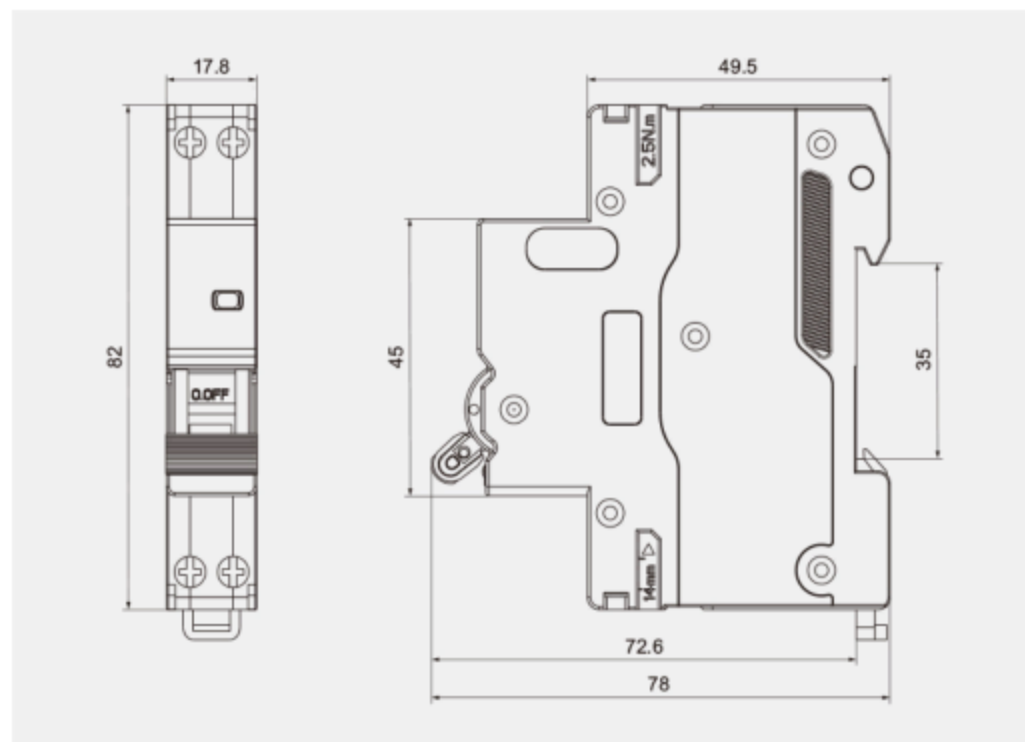
Main Technical Parameter

Type	BD1-40
Rated current (A)	6, 10, 16, 20, 25, 32, 40
Rated voltage (V)	240V
Frequency (Hz)	50
Electromagnetic release type	C, D
Number of poles	1P+N
Mechanical life (Cycles)	20000
Electrical life (Cycles)	10000
Rated short-circuit breaking capacity (Icu)(A)	4500
Short-circuit breaking capacity (Ics)(A)	4500
Rated impulse withstand voltage (Uimp)(kV)	4

Power Consumption On Each Pole of The Circuit Breaker

Rated current In(A)	Maximum power consumption per pole (W)
1~10	2
16~32	3.5
40~63	5

Dimension



BD2LE-40 Series Residual Current Circuit Breaker (RCBO)



Application

The BD2LE residual current operated circuit breakers are suitable for lines with AC 50/60Hz, rated voltage 240V, rated current up to 25A and for purposes of residual current protection, overload and short circuit protection. When any personal electric shock occurs or the circuit leakage current exceeds the predetermined value, the residual current operated circuit breaker can automatically cut off the power supply in a very short period of time, so that the safety of persons and electrical equipment can be protected. The residual current operated circuit breaker can be used for infrequent conversion of lines under normal conditions, and applied under occasions such as industrial, and commercial, high-rise buildings and residential houses.

Main Technical Parameter

Type	BD2LE-40
Rated current I_n (A)	6, 10, 16, 20, 25, 32, 40
Classified by Type of Instantaneous Tripping	Type B: (3~5) I_n , Type C: (5~10) I_n
Poles	1P + N
Type (wave form of the earth leakage sensed)	Type AC, Type A
Rated voltage U_e (V)	AC240
Frame size rated current I_{nm} (A)	40
Rated residual operating current $I_{\Delta n}$ (A)	0.03
Rated residual non-operating current $I_{\Delta no}$ (A)	0.015
Rated short-circuit breaking capacity I_{cn} (A)	6000
Rated residual making and breaking capacity $I_{\Delta m}$ (A)	3000
Electrical life	2000
Mechanical life	2000
Rated impulse withstand voltage U_{imp} (V)	6000
Connection	From top and bottom

Residual Current Breaking Time

I_n (A)	$I_{\Delta n}$	Breaking time when the residual current assumes the following values (s)				
		$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	5,10,20,50,100,200,500 ^a (A)	$I_{\Delta t}^b$
6-40	0.03	0.1	0.05	0.04	0.04	0.04

a. For tests of 5A, 10A, 20A, 50A, 100A, 200A and 500A, the current values beyond the lower limit of over-current instantaneous tripping are not tested.

b. Tests are done when $I_{\Delta t}$ is equal to the lower limit current of over-current instantaneous tripping of type B and type C.

The Over-Current Protection Characteristics

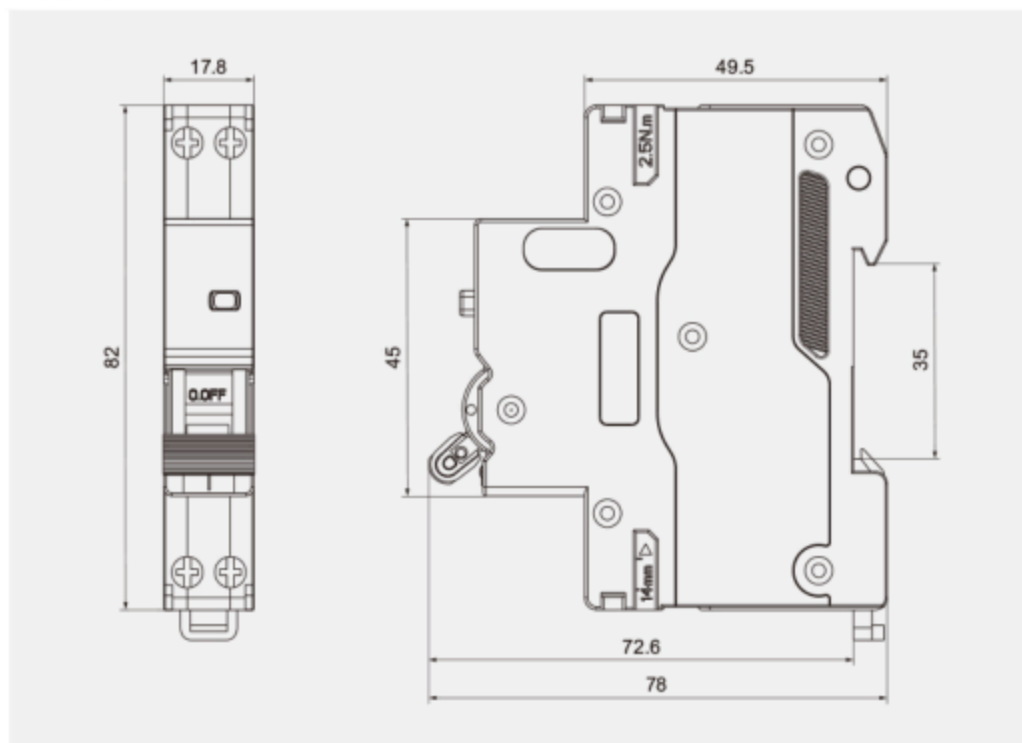
No.	Rated current I_n (A)	Initial state	Test current (A)	Specified time (t)	Expected result	Remarks
a	6~40	Cold state	1.13 I_n	$t \geq 1h$	Non-tripping	Increase to the specified current within 5s after test item a.
b		Immediately after sequence a	1.45 I_n	$t < h$	Tripping	
c		Cold state	2.55 I_n	$1s < t < 60s$	Tripping	Type B
d		Cold state	3 I_n	$t \geq 0.1s$	Non-tripping	
			5 I_n	$t < 0.1s$	Tripping	
			5 I_n	$t \geq 0.1s$	Non-tripping	
			10 I_n	$t < 0.1s$	Tripping	Type C

Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10

BD2LE-40 Series Residual Current Circuit Breaker (RCBO)

Dimension



Ordering Information

When ordering, the following information must be indicated:

- Product type and description, such as: BD2LE residual current operated circuit breaker
- Rated current, such as: 25A
- Instantaneous tripping type, such as: Type C
- Rated residual operating current, such as: 0.03A
- Operating conditions when containing DC component, such as: Type A
- Ordering quantity, such as: 90 units

Ordering examples: BD2LE residual current operated circuit breaker C25, 0.03A, A type, 90 units.

BD2LE-80 Series Residual Current Circuit Breaker (RCBO)



Application

The BD2LE residual current operated circuit breakers are suitable for lines with AC 50/60Hz, rated voltage 240V, rated current up to 25A and for purposes of residual current protection, overload and short circuit protection. When any personal electric shock occurs or the circuit leakage current exceeds the predetermined value, the residual current operated circuit breaker can automatically cut off the power supply in a very short period of time, so that the safety of persons and electrical equipment can be protected. The residual current operated circuit breaker can be used for infrequent conversion of lines under normal conditions, and applied under occasions such as industrial, and commercial, high-rise buildings and residential houses.

Main Technical Parameter

Type	BD2LE-80		
Frame size rated current $I_{nm}(A)$	80		
Rated current $I_n(A)$	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80		
Poles	2P, 4P		
Rated voltage $U_e(V)$	AC230(2P), AC400V(4P)		
Rated frequency (Hz)	50/60		
Rated residual operating current $I_{\Delta n}(mA)$	10, 15, 30, 50, 100, 200		
Leakage tripping type	A/AC		
Rated insulation voltage $U_i(V)$	500		
Rated impulse withstand voltage $U_{imp}(kV)$	4		
Pollution degree	3		
Split type	M(2P), H(4P)		
Rated short-circuit breaking capacity $I_{cn}(A)$	6000(2P), 10000(4P)		
Curve type	B, C, D		
Release	Thermomagnetic		
Service life	Electrical	Actualaverage	20000
		Standard value	8500
	Mechanical	Actualaverage	10000
		Standard value	1500
Protection degree	IP20		
Ambient temperature (with daily averages $\leq 35^{\circ}C$) ($^{\circ}C$)	-5...+40		
Storage temperature ($^{\circ}C$)	-25...+70		
Mounting	On DIN rail EN 60715 (35mm) by means of fast clip device		
Connection	From top		
Terminal connection type	Cable/Pin-type busbar		

Residual Current Breaking Time

$I_n(A)$	$I_{\Delta n}(mA)$	Breaking time when the residual current assumes the following values (s)				
		$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}^a$	5,10,20,50,100,200,500 ^b (A)	$I_{\Delta n}^c$
1-80	30, 50, 100	0.1	0.08	0.04	0.04	0.04
	50, 100	0.2	0.1	0.04	0.04	0.04

a. If $I_{\Delta n} \leq 0.03A$, 0.25A can be used instead of $5I_{\Delta n}$.

b. For tests of 5A, 10A, 20A, 50A, 100A, 200A and 500A, the current values beyond the lower limit of over-current instantaneous tripping are not tested.

c. Tests are done when $I_{\Delta t}$ is equal to the lower limit current of over-current instantaneous tripping of type C and type D.

BD2LE-80 Series Residual Current Circuit Breaker (RCBO)

Product advantage

1. High breaking capacity, strong practicability of accessories.
2. Combined terminal with touch protection and red and green safety indication, higher safety
3. Current limiting contact system to avoid short circuit current of products and equipment, increase the service life of monthly equipment.
4. Shell and some functional parts are imported and exported high ame retardant, high temperature resistance, impact resistant plastics made.
5. The appearance is beautiful, the volume is small, the width is only 36mm.
6. Leakage function may withdraw. suitable each kind of place.
7. May make the rated leakage action current adjustable.
8. L pole N pole to have the overload protection function.

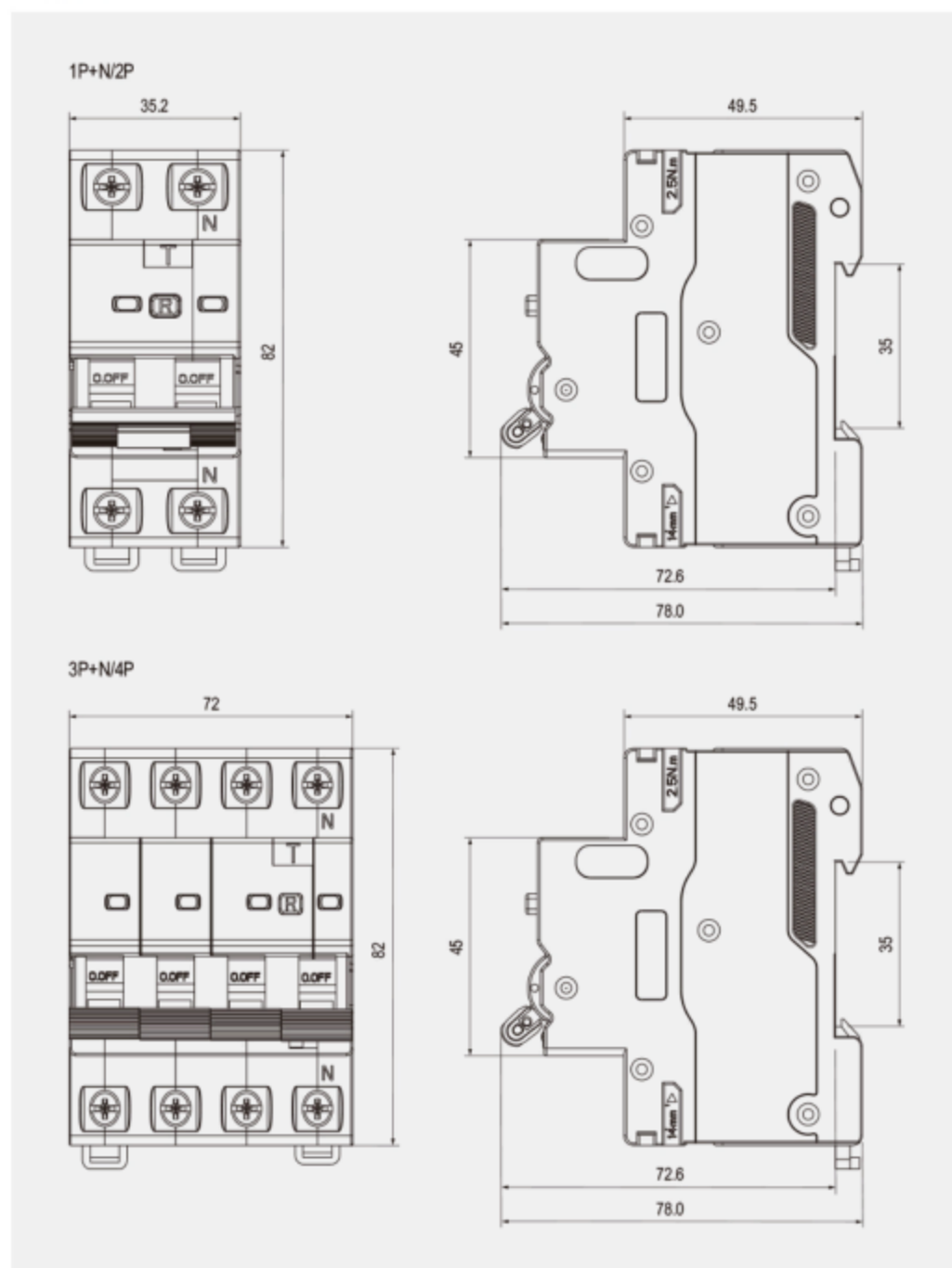


The Over-Current Protection Characteristics

No.	Rated current In (A)	Initial state	Test current (A)	Specified time (t)	Expected result	Remarks
a	All values	Cold state	1.13In	t≥1h	Non-tripping	-
b	All values	Immediately after sequence a	1.45In	t<h	Tripping	Increase to the specified current within 5s after test item a.
c	≤32	Cold state	2.55In	1s<t<60s	Tripping	-
	>32			1s<t<120s		
d	Type C	Cold state	5In	t≥0.1s	Non-tripping	Turn on the auxiliary switch to power on
e			10In	t<0.1s	Tripping	
f	Type D		10In	t≥0.1s	Non-tripping	
g			14In	t<0.1s	Tripping	

BD2LE-80 Series Residual Current Circuit Breaker (RCBO)

Dimension



Ordering Information

When ordering, the following information must be indicated:

- Product type and description, such as: BD2LE residual current operated circuit breaker
- Rated current, such as: 63A
- Instantaneous tripping type, such as: Type C
- Rated residual operating current, such as: 0.03A
- Operating conditions when containing DC component, such as: Type A
- Ordering quantity, such as: 90 units

Ordering examples: BD2LE residual current operated circuit breaker C25, 0.03A, A type, 90 units.

Auxiliaries and Accessories

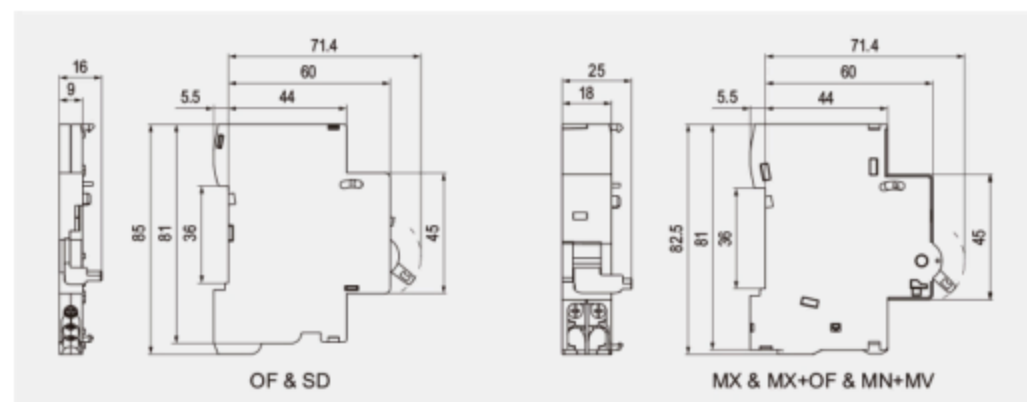
Application

The electrical auxiliaries provide the remote tripping or position (open/closed/tripped) indication functions of these devices in the event of an electrical fault. They clip on (no tool required) to the lefthand side of the associated device.

Specification

Type	Wiring configuration	Control voltage (V)	Width (mm)
MX Shunt release		110~415	18
MX+OF Shunt release with open/closed auxiliary contact		110~415	18
MN Undervoltage release		220~240	18
MV Overvoltage release		230	18
SD Electrical fault indicating contact		-	9
OF Open/closed auxiliary contact		-	9
SD+OF Double open/closed or fault indicating contact		-	9

Dimension



QJ165-63 Series Miniature Circuit Breaker (MCB)

Application

QJ165-63 is applicable to a line of AC 50/60Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit, and rated current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercially district, high-rise building and dwelling house. It conforms with the standards of IEC60898.

Main Technical Parameter

Type	QJ165-63	
Pole	1P	2P, 3P, 4P
Rated current (A)	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Ambient temperature	-5°C~+40°C	
Type of instantaneous release	B, C, D	
Rated short circuit breaking capacity Icn(kA)	4(6)	

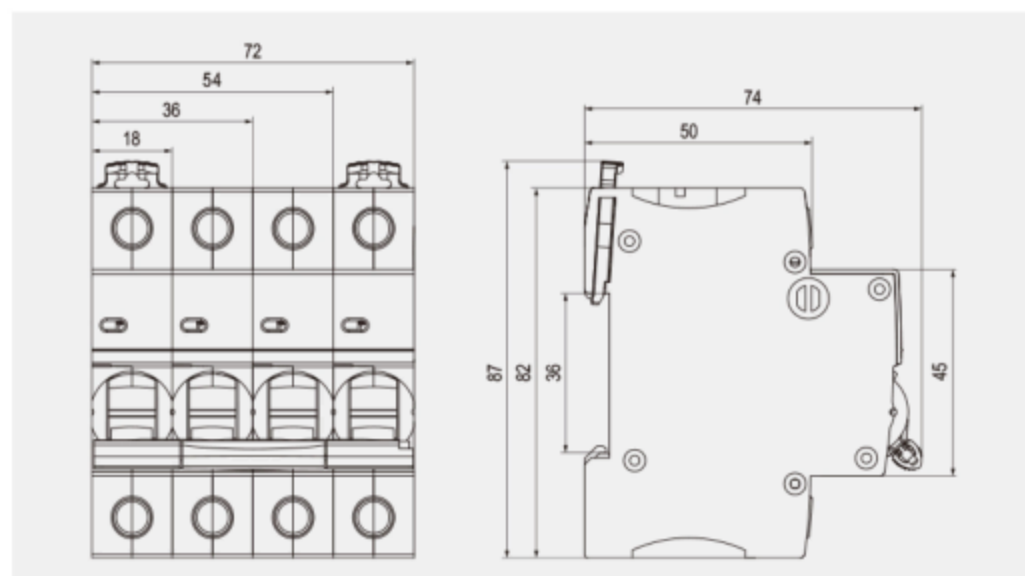
Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Normal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

The Over-Current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2°C	Cold position	1.13In	t≥1h	Non-release	—
	Carried out immediately after previous test	1.45In	t<1h	Release	—
	Cold position	2.55In	1s<t<60s(In≤32A)	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55In	1s<t<120s(In>32A)	Release	
-5~+40°C	Cold position	3In	t≥0.1s	Non-release	Type B
	Cold position	5In	t<0.1s	Release	Type B
	Cold position	5In	t≥0.1s	Non-release	Type C
	Cold position	10In	t<0.1s	Release	Type C
	Cold position	10In	t≥0.1s	Non-release	Type D
	Cold position	20In	t<0.1s	Release	Type D

Dimension



QJ65LE-63 Series Residual Current Circuit Breaker (RCBO)

Application

QJ65LE-63 is applicable to a line of AC 50/60Hz, rated voltage 230V for single pole two-wire, 2-pole or 400V for 3-pole, 3-pole 4-wire, 4-pole and rated current up to 40A. It can protect the line and motor from overload and short circuit. It can also be used for infrequent line conversion and infrequent motor start. It conforms with the standards of IEC61009.

Main Technical Parameter

Type	QJ65LE-63	
Pole	1P+N, 2P	3P, 3P+N, 4P
Rated current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Rated short circuit breaking capacity $I_{cn}(kA)$	4(6)	
Rated residual making/breaking capacity $I_{\Delta m}(A)$	2000	
Rated residual action current $I_{\Delta n}(A)$	0.03, 0.05, 0.1, 0.3	
Rated residual non-action current $I_{\Delta no}(A)$	0.5 $I_{\Delta n}$	

Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Nominal cross section of wire mm^2	1	1.5	2.5	4	6	10	16

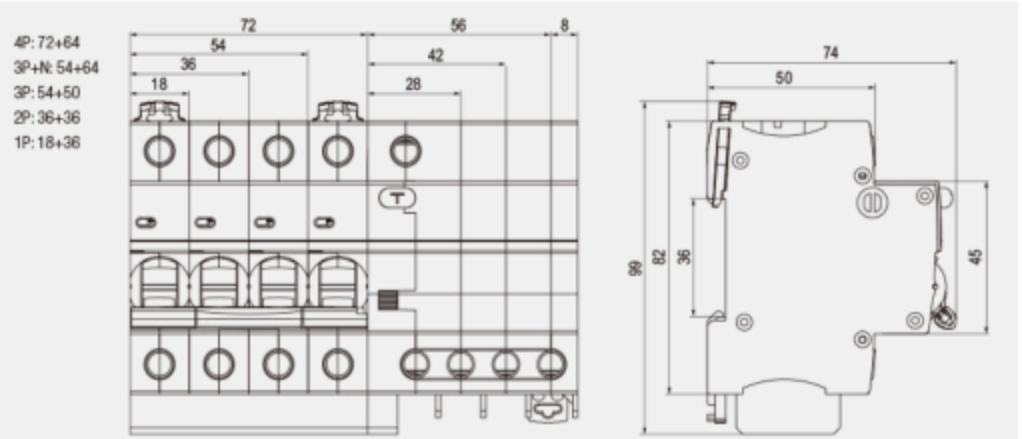
Residual Current Breaking Time

$I_n(A)$	$I_{\Delta n}$	Breaking time(s) when equals to rating following				
		$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	5,10,20,50,100,200,500 ^A (A)	$I_{\Delta t^B}$
6-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	0.04	0.04	0.04

The Over-Current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2℃	Cold position	1.13 I_n	$t \geq 1h$	Non-release	—
	Carried out immediately after previous test	1.45 I_n	$t < 1h$	Release	—
	Cold position	2.55 I_n	$1s < t < 60s (I_n \leq 32A)$	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55 I_n	$1s < t < 120s (I_n > 32A)$	Release	
-5~+40℃	Cold position	3 I_n	$t \geq 0.1s$	Non-release	Type B
	Cold position	5 I_n	$t < 0.1s$	Release	Type B
	Cold position	5 I_n	$t \geq 0.1s$	Non-release	Type C
	Cold position	10 I_n	$t < 0.1s$	Release	Type C
	Cold position	10 I_n	$t \geq 0.1s$	Non-release	Type D
	Cold position	20 I_n	$t < 0.1s$	Release	Type D

Dimension



QJI65-63 Series Residual Current Circuit Breaker (RCBO)



Left-N Right-L



Left-L Right-N



Put in-RCBO Quit-MCB

Application

QJI65-63 series residual current circuit breaker are mainly used in circuit, of AC50/60Hz, rated voltage up to 230V, rated current up to 40A for protection of personal electric shock hazard with overload protection and short circuit protection,also can infrequently switchover electric equipment and illuminating line under normal conditions, especially suitable for industrial and commercial lighting distribution system.

Conformity with the standard GB16917.1 and IEC60947-2.

Classification

1. Rated current: 6, 10, 16, 20, 25, 32, 40, 50, 63(A)
2. Poles: 2P (with a protection pole)
3. Type of instantaneous release: C; (5In-10In)

Normal Operation Conditions

1. Ambient air temperature

Ambient air temperature ranges from -5°C to 40°C , not exceeding 35°C averagely in 24 hours.

2. Location: Installation location can not exceed 2000 meters above sea level

3. Air conditions

Relative humidity in the installation place can not exceed 50% when the air reaches the highest temperature 40°C , the average minimum temperature when it is the wettest can not exceed 20°C . Relative humidity not exceed 90%.

4. Installing categories: Class II Class III.

5. Installation Pollution Grade: grade II.

6. Installing type: mounted by standard rail track

7. Installing condition: Installation location of the external magnetic field strength should not be in any direction to magnetic field strength of more than 5 times

8. Wiring: Tighten the screws to compress the wire

Construction Characteristic & Operating Principle

Pull the handle of the leakage circuit breakers to the ON position, through mechanical contacts to static contact agencies to promote reliable contact with the circuit. When the circuit with overload fault, overload current bimetal bend and push the latch locking mechanism makes the mechanical reset, the moving contacts quickly left the static contact,so that to achieve sub-line functions; when short-circuit fault occurs, the short-circuit current make instantaneous release action, pushing the lock mandrel core mechanical action to achieve the lock breaking function; when leakage and electric shock occurs, the signal from zero sequence sensor makes the thyristor leakage release core action, putter push the circuit breaker trip to cut off the power leakage circuit breaker in a short time, thereby achieve leakage protection.

Structural Features

1. Small, tight structure, price is better than similar products.
2. Housing and some functional parts are made of high fire-resistant,heat resistant, impact resistant material.
3. Directly with the zero wire installation,avoid the electric shock hazard which caused by zero line connection errors.
4. Using the latest circuit design and high-performance electronic components, has strong ability to withstand when the impact of current and surge of over-voltage.
5. Mounted by standard rail track, convenient and save time.

QJI65-63 Series Residual Current Circuit Breaker (RCBO)

Main Technical Parameter

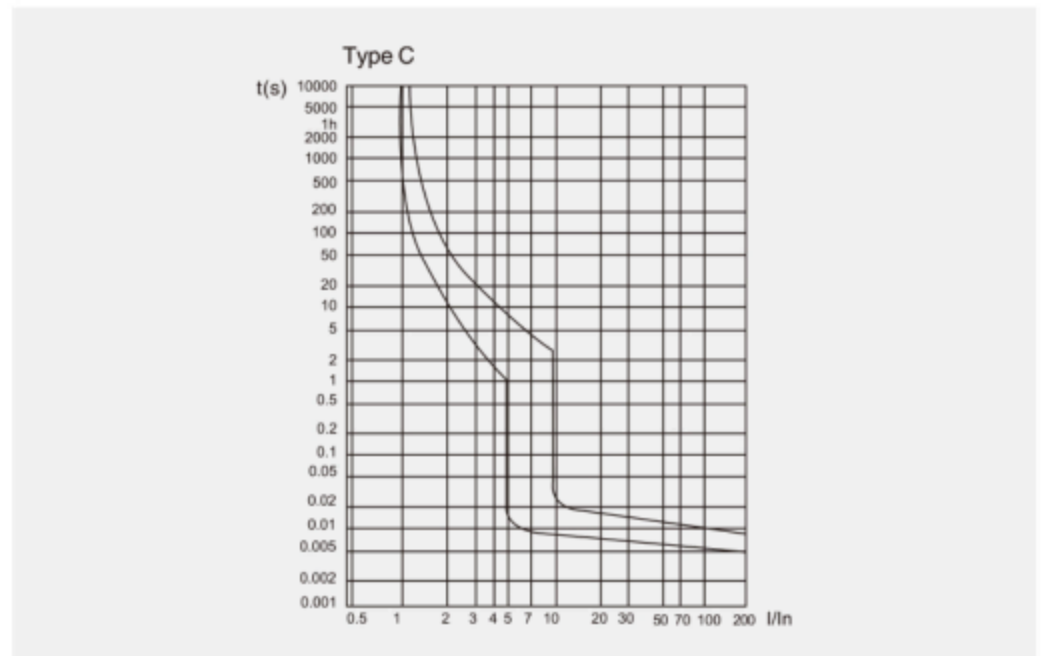
1. Main Technical Parameter (see table 1)
2. Time-current character (see table 2)
3. Residual current protection character
 - 3.1. Rated residual operating current $I_{\Delta n}$: 30mA, 50mA
 - 3.2. Rated residual non-operating current $I_{\Delta no}$: 15mA, 25mA
 - 3.3. Rated residual making and breaking capability $I_{\Delta m}$: 2000A
- 3.4. Residual current breaking time (see table 3)
4. Mechanical/Electric lifetime (times): Electric lifetime: 2000; Mechanical life: 4000
5. Nominal cross-section of wire (see table 4)
6. Performance curve of release (see figure 1)

Table 1

Frame rated current I_{nm} (A)	Rated current I_n (A)	Rated voltage (V)	Breaking capacity of rated short-circuit		Instantaneous release type
			$I_{cs}(A)$	$\cos\phi$	
40	6,10,16,20,25 32,40,50,63	230/240(400/415)	4000(6000)	0.65-0.70	C

Table 2

Item No.	Rated current In (A)	Initial state	Test current (A)	Test time	Expected result	Ambient temperature	Note
a	≤40	cold state	1.13In	t≤1h	Non-release	30°C~35°C	After Following the test a testing current improve to order value in 5s
b		hot state	1.45In	t<1h	Release		
c		cold state	2.55In	1s<t<60s In≤32A	Release		Through close auxiliary switch and put through current
		cold state		1s<t<120s In≤32A			
d		cold state	5In	t≤0.1s	Non-release		
e		cold state	10In	t<0.1s	Release		



QJI65-63 Series Residual Current Circuit Breaker (RCBO)

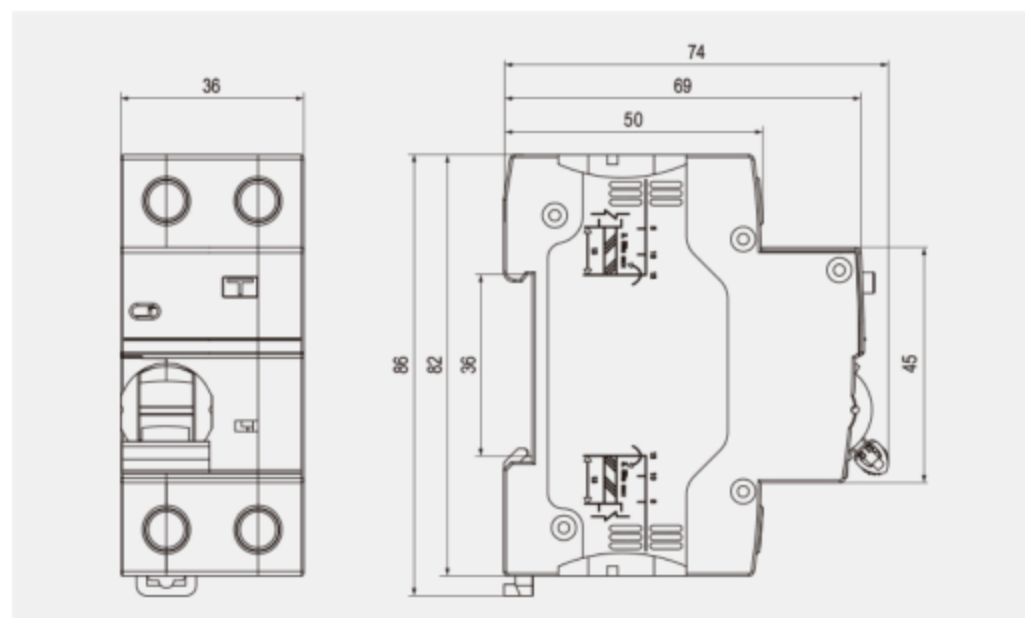
Table 3

In (A)	$I_{\Delta n}$ (A)	Residual current ($I_{\Delta n}$) is equal to the breaking time (s) at the following corresponding value		
		$I_{\Delta n}$	$2I_{\Delta n}$	250mA
6-40	0.03	0.1	0.05	0.04

Table 4

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

Dimension



Use and Maintenance

- Push up the handle to the position "ON" to switch on, Pull down the handle to the position "OFF" to switch off.
- Residual current protection features is tested and adjusted by the manufacturer, users can not adjust the product at random during usage.
- After running for a period of time, the ELCB should be inspected periodically (Every other month), the test button in power on position to confirm the residual current protective properties is reliable or not.
- Zero wire must connect to N side to keep its normal work and protective effectively.

Attention

- ELCB must not be wetted or soaked by rain, snow or water during of transportation, storage and usage.
- The product can't protect the risk of electric shock that caused by two lines contact protection circuit meantime.
- The products must not test by short circuit between live wire and ground in case of electric shock hazard.

Order Notice

In order you need attention:

- Product model and name, Example: RCBO-63 residual-current circuit breaker;
- The rated current, Example: 20A;
- Number of pole and wire, Example: single pole two wire;
- Type of instantaneous release, Example: C type
- The rated residual current, Example: 0.03A;
- Order quantity, Example: 50pcs;

QJ65 Series Residual Current Circuit Breaker (RCCB)



Application

QJ65 Series residual current circuit breaker is in conformity with the standards of IEC61008. It can cut off the fault circuit immediately on the occasion of shock hazard or earth leakage of trunk line. Thus it is suitable to avoid the shock hazard and fire caused by earth leakage. It can be used in circuits up to single phase 240V, threephase 415V, 50 or 60Hz.

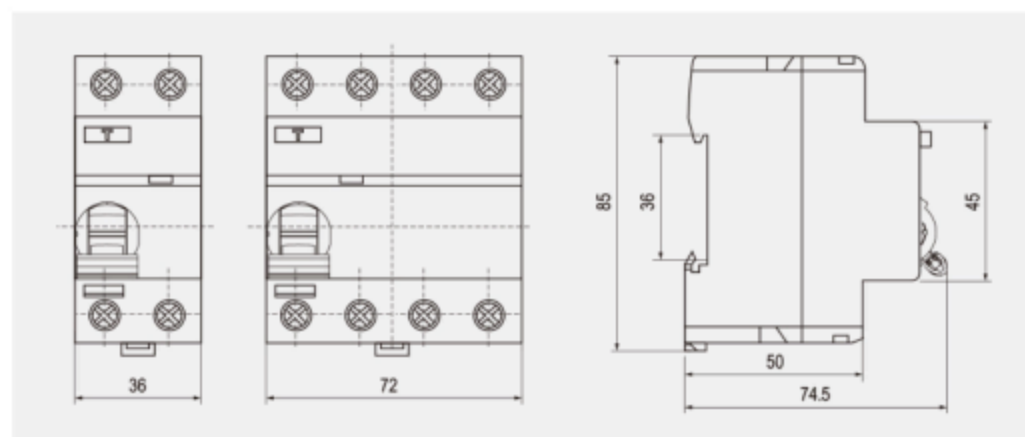
Main Technical Parameter

Number of Poles	2P	4P
Rated current I_n (A)	10, 16, 25, 32, 40, 63	10, 16, 25, 32, 40, 63
Rated residual operating current $I_{\Delta n}$ (mA)	10, 30, 100, 300	30, 100, 300
Rated residual non-operating current $I_{\Delta no}$ (mA)	0.5 $I_{\Delta n}$	
Voltage U_n (V)	230/240, 400/415	
Tripping time	<0.1s	
Ambient temperature	-5°C~+40°C	
Vibration resistance	Minimum 5g 30min, 0~8Hz	

Applicable Conducting Wire

Rated current (A)	10	16	25	32	40	63
Nominal cross section of wire (mm ²)	1.5	2.5	4	6	10	16

Dimension



QJ65L-63 Series Residual Current Circuit Breaker (RCBO)



2P 36mm



4P 72mm

Application

QJ65L-63 Earth Leakage Circuit Breaker (ELCB) is mainly used in AC50/60Hz, rated operating voltage up to 400V, rated current up to 63A, rated operating capacity of no more than 6000A in protection distribution lines, make the earth leakage protection and there is overload and shortcircuit protection, but also it is used for infrequent on-off and changeover operation.

Type and Meaning

RCBO - 63

① ②

①	Residual current operated circuit-breaker with integral overcurrent protection
②	Case grade rated current

Products

- Classification
 - 1P+N
 - 2P
 - 3P
 - 3P+N
 - 4P
- Rated Current: 6, 10, 16, 20, 25, 32, 40, 50, 63A
- Rated operating voltage: 230V/400V
- Wiring: with pole clamp terminals
- Instantaneous Release: Type C
- Installation: DIN rail embedded
- Operation: manual operation
- Protection functions: not only with earth leakage protection, but also performance on the long delay overload protection and instantaneous short-circuit protection.

Normal Using Conditions

- Ambient temperature: -5°C~+40°C relative humidity lower than 95%
- Installation site altitude not exceeding 2000 meters,
- Atmospheric relative humidity does not exceed 50% at the highest temperature +40°C. when low humidity can have a high temperature, such as in the wettest month average temperature does not exceed +25°C, the monthly relative humidity less than 90%, and allows when temperature changing, there is condensation on the surface of the circuit breaker.
- The breaker's using place: pollution degree 2
- Breaker's installation category: usually class II

Technical Data

- Residual current protection features
 - Rated residual operating current: $I = 30\text{mA}$ or 50mA ; 100mA or 300mA ,
 - Rated residual non-operating current: 15mA or 25mA ; 50mA or 150mA
 - Maximum breaking time of rated residual operating current: 0.1s.
 - Rated residual operating and breaking capacity: 2000A
- Over-current tripping characteristics

Over-current tripping characteristic of the circuit breaker, on the condition of the normal installation of 30~50°C ambient temperature, shall comply with the requirements under Table 1

QJ65L-63 Series Residual Current Circuit Breaker (RCBO)

Table 1 overcurrent tripping characteristics

Item	Tripping type	Rated current	Test current (A)	Tripping time (T)	Expected result	Initial status
1	C	All currents	1.13I _n	t≤1h	Non-release	Cold position
2		All currents	1.45I _n	t<1h	Release	Current smoothly rises to specified value within 5s
3		All currents	2.55I _n	1s<t<60s, I _n ≤32A 1s<t<120s, I _n >32A	Release	Cold position
4		All currents	5I _n	t≤0.1s	Non-release	Cold position
5		All currents	10I _n	t<0.1s	Release	Cold position

① Cold position means no more than 8h before the test with a load,

② Hot position means that: test is starting from cold position to 1.13I_n, load than or equal status after 1 hour.

Rated short circuit breaking capacity is shown in Table 2

Rated current (A)	Rated short breaking capacity (A)	Cosφ
I _n ≤40	6000	0.65-0.70
I _n >40	4000	0.75-0.80

Mechanical and Electrical Life

Breaker at the rated voltage requirements, operating and breaking the rated currents, power factor is 0.85-0.9 to operate the frequency test by the cycle 240 times per hour, and its mechanical and electrical life is 4000 times.

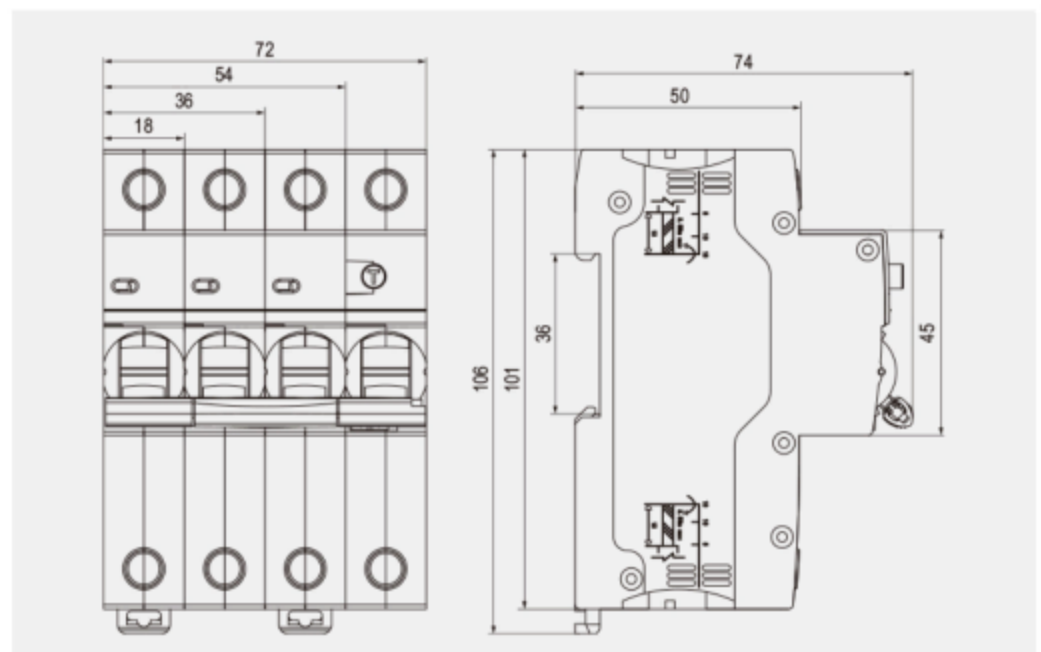
Structural Characteristics and Working Principle

The breaker consists of contacts, arc systems, electromagnetic release system operation structure, zero-sequence current transformer, electronic amplification circuit, leakage release and other components. Electromagnetic system uses a precision and resistive thermal bimetal materials, graphite contacts with silver alloy contacts, also selected the enhanced wear plastic and other new materials to ensure product performance.

Breaker works:

Pressing the operating mechanism of the circuit breaker under normal working conditions, the power is turned on, then the release mechanism latched, the contact can not move, when the current is too large, the electromagnetic system of the bimetal is deformed to promote the lock, so the core being sucked move, contacts in the release of the spring force is disconnected, the protective effect of the circuit breaker to complete the breaking. When the line leakage and electric shock accident occurs, zero sequence transformer output signal to the thyristor, leakage release core action, putting action to promote the release, so that earth leakage circuit breaker cut off the power in a short time, in order to achieve leakage protection.

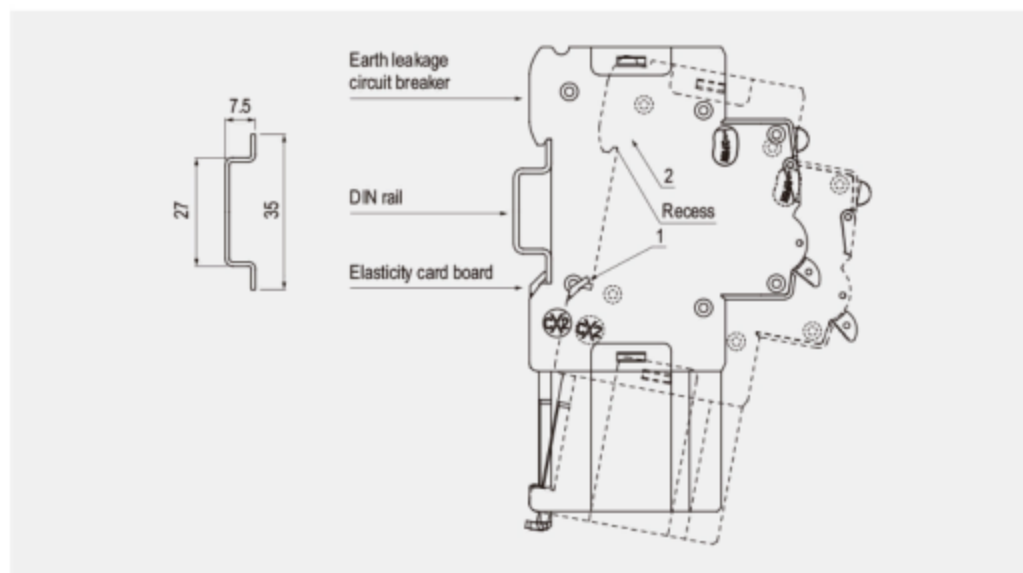
Dimension



QJ65L-63 Series Residual Current Circuit Breaker (RCBO)

Installation and Adjustment

1. Should note the following before installing the circuit breaker
 - a. Check circuit breakers, confirmed intact, flexible movement
 - b. Check the mark whether the breaker is used in normal conditions consistent product
2. Installation breaker, should note the sign of terminal wiring
3. Except installed in the distribution box, when used alone installation, this circuit breakers should be installed a grounded metal (or insulating material) protective panel to prevent electric shock
4. Setting current can not be self-regulation and does not require maintenance
5. Installation and removal methods
 - 5.1. The orbit of the circuit breaker aligned with the DIN rail (slightly tilted to the right, dotted line in Figure 2), so that the breaker push enough to an upward direction of the arrow 1, on the direction of the arrow 2, push the recess to the upper end of the DIN rail, let go.
 - 5.2. In contrast with the installation process, so that a direction of the arrow 1 up to top of breaker, rotate the arrow 2 in the opposite direction, you can remove it.



Maintenance

1. Circuit Breaker (including packed products) in the transport and storage, shall not be affected by rain and snow, products should be placed in the boxes, on the conditions of the noninvasive, air circulation, monthly average relative humidity less than 90% (at $20 \pm 5^\circ\text{C}$), the air temperature does not exceed $+40^\circ\text{C}$ and not lower than -25°C
2. Breakers in operation should be checked regularly to clear dust and dirt on the inlet, outlet and the product surface, when examination, should cut off the power. and the cycle of the checking should consider the working conditions.
3. Comply the rules of the user of storage and use, from the date of installation within 12 months, but not more than the date of shipment from the factory within 18 months, if the products can't work properly because of quality problem caused by manufacturing. we will replace the product freely.

Order Specification

When ordering breaker, the following points need to be specified:

- a. product model and name, as RCBO-63 series Earth Leakage Circuit Breakers,
- b. Circuit breakers Poles, such as: 2P, 3P, 3P+ N
- c. Rated current of the circuit breaker, such as: 40A, 50A
- d. Order Quantity

QJL7-125 Series Miniature Circuit Breaker (MCB)

Application

QJL7-125 high switch-off ability miniature circuit breaker is applicable to a line of AC 50/60Hz, rated voltage 230/400V and rated current up to 125A, used for overload and short circuit protection. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to industrial enterprise, commercial district, high-rise building and dwelling house. It conforms with the standards of IEC60898.

Main Technical Parameter

Type	QJL7-125	
Pole	1P	2P, 3P, 4P
Rated current (A)	1, 2, 3, 4, 5, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125	
Rated voltage (V)	230/240	400/415
Type of instantaneous release	B, C, D	
Rated short circuit breaking capacity Icn (kA)	6(10)	
Life (times)	Electric life	8000
	Mechanical life	20000
	Operation frequency	240 times per hour (1-32A), 120 times per hour (40-63A)

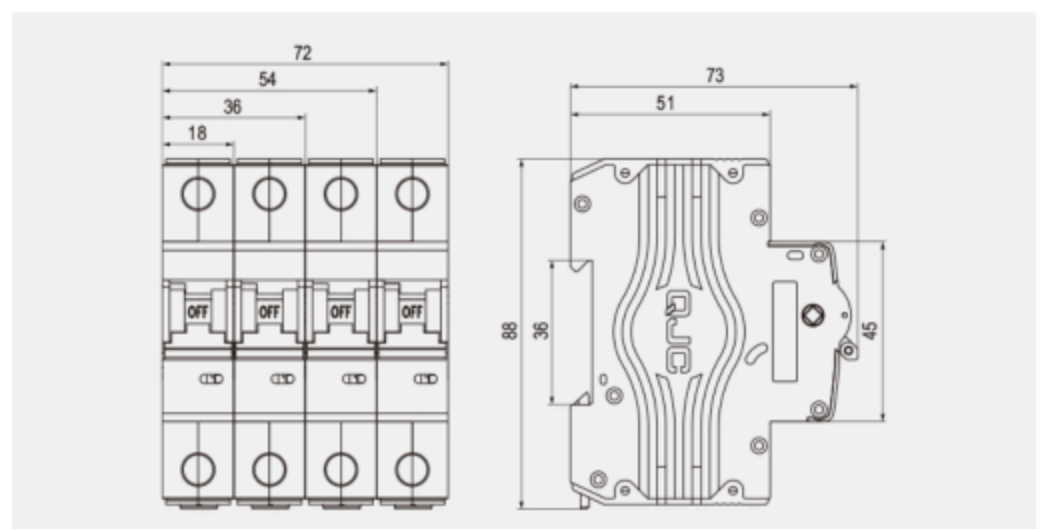
Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63	80	100-125
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16	25	35

The Over-Current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2℃	Cold position	1.13I _n	t≥1h	Non-release	—
	Carried out immediately after previous test	1.45I _n	t<1h	Release	-
	Cold position	2.55I _n	1s<t<60s(I _n ≤32A)	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55I _n	1s<t<120s(I _n >32A)	Release	
-5~+40℃	Cold position	3I _n	t≥0.1s	Non-release	Type B
	Cold position	5I _n	t<0.1s	Release	Type B
	Cold position	5I _n	t≥0.1s	Non-release	Type C
	Cold position	10I _n	t<0.1s	Release	Type C
	Cold position	10I _n	t≥0.1s	Non-release	Type D
	Cold position	20I _n	t<0.1s	Release	Type D

Dimension



QJL7LE-125 Series Residual Current Circuit Breaker (RCBO)

Application

QJL7LE-125 is applicable to a line of AC 50/60Hz, rated voltage 230V for single pole two-wire, 2-pole or 400V for 3-pole, 3-pole 4-wire, 4-pole and rated current up to 40A. It can protect the line and motor from overload and short circuit. It can also be used for infrequent line conversion and infrequent motor start. It conforms with the standards of IEC60947-2.

Main Technical Parameter

Type	QJL7LE-125	
Pole	1P+N, 2P	3P, 3P+N, 4P
Rated current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125	
Rated voltage (V)	230/240	400/415
Rated short circuit breaking capacity $I_{cn}(kA)$	6(10)	
Rated residual making/breaking capacity $I_{\Delta m}(A)$	2000	
Rated residual action current $I_{\Delta n}(A)$	0.03, 0.05, 0.1, 0.3	
Rated residual non-action current $I_{\Delta no}(A)$	$0.5I_{\Delta n}$	

Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63	80	100-125
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16	25	35

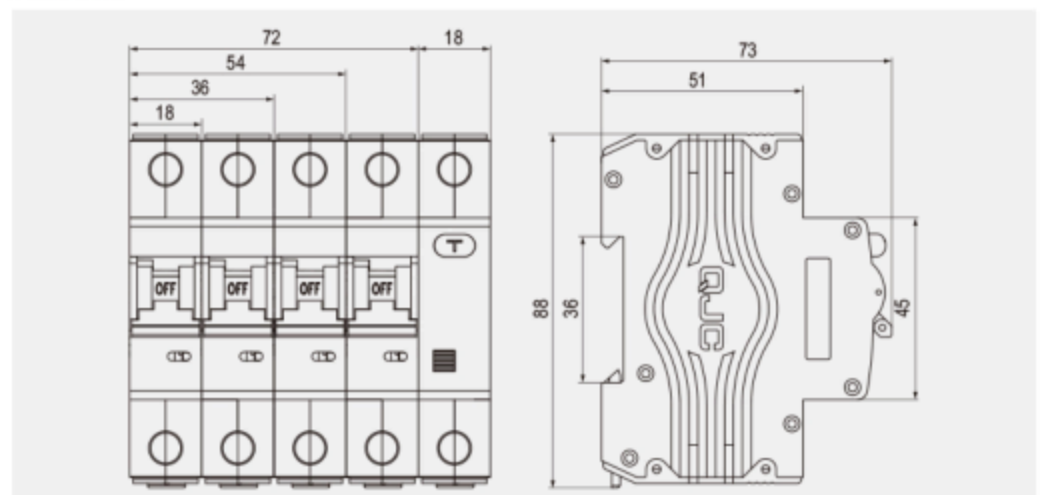
Residual Current Breaking Time

$I_n(A)$	$I_{\Delta n}$	Breaking time(s) when equals to rating following				
		$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	5, 10, 20, 50, 100, 200, 500 ^a (A)	$I_{\Delta t}^b$
6-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	0.04	0.04	0.04

The Over-Current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
$30 \pm 2^\circ C$	Cold position	$1.13I_n$	$t \geq 1h$	Non-release	-
	Carried out immediately after previous test	$1.45I_n$	$t < 1h$	Release	-
	Cold position	$2.55I_n$	$1s < t < 60s (I_n \leq 32A)$	Release	Current smoothly rises to specified value within 5s
	Cold position	$2.55I_n$	$1s < t < 120s (I_n > 32A)$	Release	
$-5 \sim +40^\circ C$	Cold position	$3I_n$	$t \geq 0.1s$	Non-release	Type B
	Cold position	$5I_n$	$t < 0.1s$	Release	Type B
	Cold position	$5I_n$	$t \geq 0.1s$	Non-release	Type C
	Cold position	$10I_n$	$t < 0.1s$	Release	Type C
	Cold position	$10I_n$	$t \geq 0.1s$	Non-release	Type D
	Cold position	$20I_n$	$t < 0.1s$	Release	Type D

Dimension



DZ30-32 Series Miniature Circuit Breaker (MCB)



Application

DZ30-32 is used in the single phase circuit of AC 50/60Hz, rated voltage 230V or below for protecting circuit from overload and short circuit. This product has advantages of high breaking capacity, small volume, width is only 18mm. It conforms with the standards of IEC60898.

Main Technical Parameter

Type	DZ30-32
Pole	1P+N
Rated current (A)	6, 10, 16, 20, 25, 32
Rated voltage (V)	230/240(400/415)
Type of instantaneous release	C
Rated short circuit breaking capacity Icn(A)	4000/6000

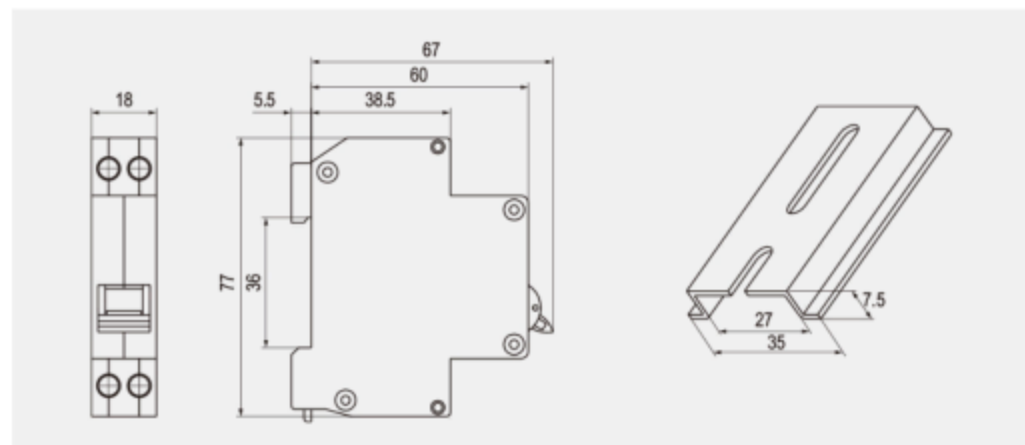
Applicable Conducting Wire

Rated current (A)	Nominal cross section of wire (mm ²)
$I_n \leq 6$	1
$6 < I_n \leq 13$	1.5
$13 < I_n \leq 20$	2.5
$20 < I_n \leq 25$	4
$25 < I_n \leq 32$	6

The Over-Current Protection Property

Ambient Temperature	Initial Status	Test Current	Test time	Expected Result	Note
$30 \pm 2^\circ\text{C}$	Cold position	$1.13I_n$	$t \leq 1\text{h}$	Non-release	—
	Carried out immediately after previous test	$1.45I_n$	$t < 1\text{h}$	Release	-
	Cold position	$2.55I_n$	$1\text{s} < t < 60\text{s}$	Release	Current smoothly rises to specified value within 5s
$-5 \sim +40^\circ\text{C}$	Cold position	$5I_n$	$t \leq 0.1\text{s}$	Non-release	Type C
	Cold position	$10I_n$	$t < 0.1\text{s}$	Release	Type C

Dimension



DZ30LE-32 Series Residual Current Circuit Breaker (RCBO)



Application

DZ30LE-32 is used in the single phase circuit of AC 50/60Hz, rated voltage 230V, used as electron shock protection. It can protect circuit form overload and short circuit. This product has advantages of small volume, high breaking capacity, live and zero wire are cut off at the same time, also protecting person from electric shock when the live wire connected opposite. It conforms with the standards of IEC61009.

Main Technical Parameter

Type	DZ30LE-32
Pole	1P+N
Rated current (A)	6, 10, 16, 20, 25, 32
Rated voltage(V)	230/240
Rated residual action current $I_{\Delta n}$ (A)	0.03
Rated residual non-action current $I_{\Delta no}$ (A)	0.015
Rated residual making/breaking capacity $I_{\Delta m}$ (A)	500
Type of instantaneous release	C
Rated making/breaking capacity I_m (A)	3000

Applicable Conducting Wire

Rated current (A)	Nominal cross section of wire (mm ²)
$I_n \leq 6$	1
$6 < I_n \leq 13$	1.5
$13 < I_n \leq 20$	2.5
$20 < I_n \leq 25$	4
$25 < I_n \leq 32$	6

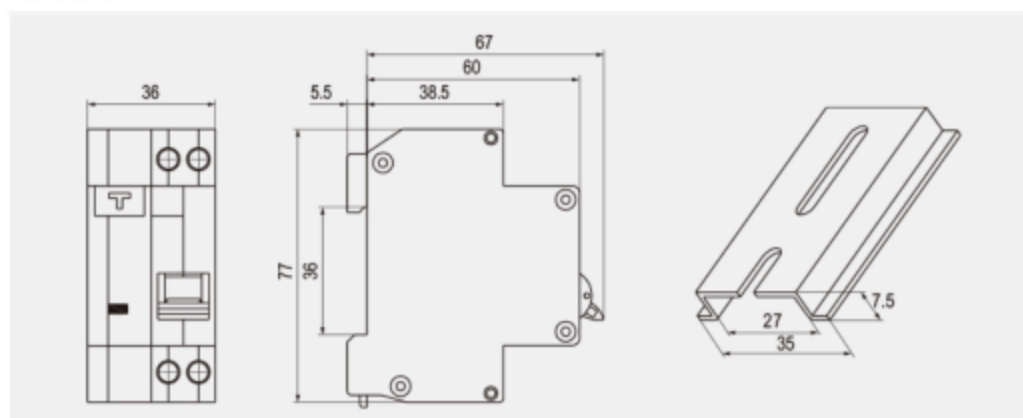
Residual Current Breaking Time

I_n (A)	$I_{\Delta n}$	Breaking time(s) when equals to rating following				
		$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	5,10,20,50,100,200,500 ^(A)	$I_{\Delta t}^2$
6-32	0.03	0.1	0.06	0.04	0.04	0.04

The Over-Current Protection Property

Ambient Temperature	Initial Status	Test Current	Test time	Expected Result	Note
30±2℃	Cold position	1.13I _n	t≤1h	Non-release	—
	Carried out immediately after previous test	1.45I _n	t<1h	Release	-
	Cold position	2.55I _n	1s<t<60s	Release	Current smoothly rises to specified value within 5s
-5~+40℃	Cold position	5I _n	t≤0.1s	Non-release	Type C
	Cold position	10I _n	t<0.1s	Release	Type C

Dimension



DZ47-63 Series Miniature Circuit Breaker (MCB)

Application

DZ47-63 is applicable to a line of AC 50/60Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit, and rated current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercially district, high-rise building and dwelling house. It conforms with the standards of IEC60898.

Main Technical Parameter

Type	DZ47-63	
Pole	1P	2P, 3P, 4P
Rated current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Ambient temperature	-5°C~+40°C	
Type of instantaneous release	B, C, D	
Rated short circuit breaking capacity Icn(kA)	6(1-40A)/4(50-63A)	

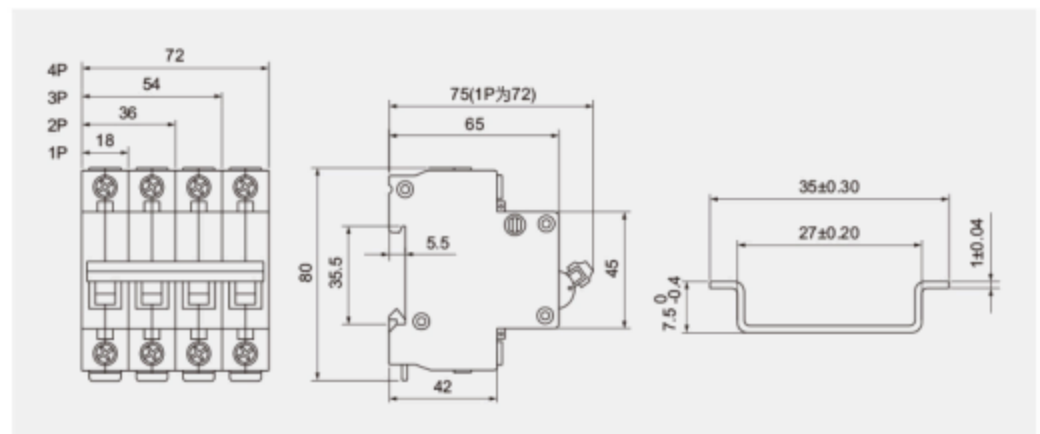
Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Normal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

Normal Use And Installation Conditions

1. Ambient air: -5°C~+40°C, 24h within an average of not more than +35°C;
2. Altitude: not more than 2000m;
3. Atmospheric conditions: The air relative humidity at the installation site should not exceed 50% at +40°C, and the relative humidity should not exceed 90% when the monthly average minimum temperature of the wettest month does not exceed +25°C.
4. Installation categories: II, III grade;
5. Pollution Degree: Grade 2;
6. Installation type: the use of standard rail installation;
7. Installation conditions: small disconnecter general vertical mounting handle up for the power position, the installation should be no significant impact and vibration.

Dimension



QAG47 Series Miniature Circuit Breaker

Application

QAG47 is applicable to a line of AC 50/60Hz, 230V in single pole, 415V in double, three, four poles for protecting overload and short circuit, and rated current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercially district, high-rise building and dwelling house. It conforms with the standards of IEC60898.

Main Technical Parameter

Type	QAG47	
Pole	1P	2P, 3P, 4P
Rated current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Ambient temperature	-5°C~+40°C	
Type of instantaneous release	B, C, D	
Rated short circuit breaking capacity I _{cn} (kA)	6(1-40A)/4(50-63A)	

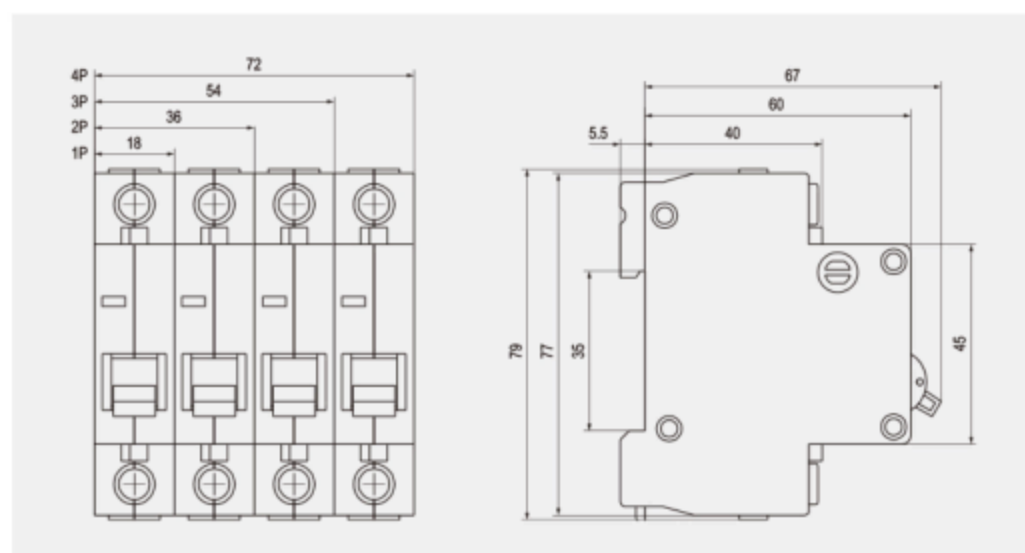
Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Normal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

Normal Use And Installation Conditions

1. Ambient air: -5°C~+40°C, 24h within an average of not more than +35°C;
2. Altitude: not more than 2000m;
3. Atmospheric conditions: The air relative humidity at the installation site should not exceed 50% at +40°C, and the relative humidity should not exceed 90% when the monthly average minimum temperature of the wettest month does not exceed +25°C.
4. Installation categories: II, III grade;
5. Pollution Degree: Grade 2;
6. Installation type: the use of standard rail installation;
7. Installation conditions: small disconnector general vertical mounting handle up for the power position, the installation should be no significant impact and vibration.

Dimension



MG65N Series Bus Type Miniature Circuit Breaker (MCB)

Application

MG65N is applicable to a line of AC 50/60Hz, 230V in single pole, 415V in double, three, four poles for protecting overload and short circuit, and rated current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercial district, high-rise building and dwelling house. It conforms with the standards of IEC60898.

Main Technical Parameter

Type	MG65N	
Pole	1P	2P, 3P, 4P
Rated current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Ambient temperature	-5°C~+40°C	
Type of instantaneous release	B, C, D	
Rated short circuit breaking capacity I _{cn} (kA)	6(1-40A)/4(50-63A)	

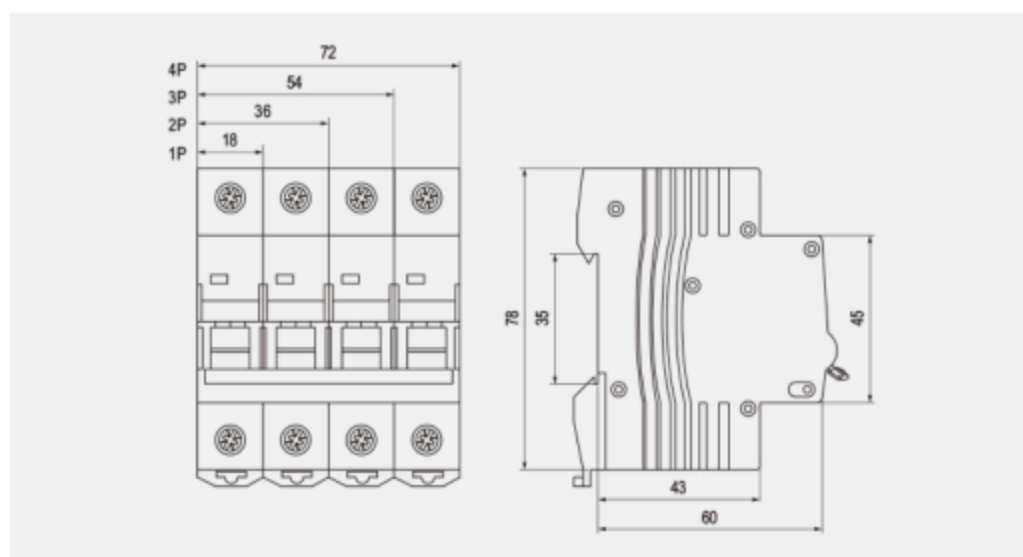
Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

Normal Use And Installation Conditions

1. Ambient air: -5°C~+40°C, 24h within an average of not more than +35°C;
2. Altitude: not more than 2000m;
3. Atmospheric conditions: The air relative humidity at the installation site should not exceed 50% at +40°C, and the relative humidity should not exceed 90% when the monthly average minimum temperature of the wettest month does not exceed +25°C.
4. Installation categories: II, III grade;
5. Pollution Degree: Grade 2;
6. Installation type: the use of standard rail installation;
7. Installation conditions: small disconnector general vertical mounting handle up for the power position, the installation should be no significant impact and vibration.

Dimension



ID-2P/4P Residual Current Circuit Breaker (RCCB)

Application

ID-2P/4P RCCB is in conformity with the standard of IEC61008. The RCCB can cut off the fault circuit immediately on the occasion of shock hazard or earth leakage of trunk. Thus, it is suitable to avoid the shock hazard and fire caused by earth leakage.

The RCCB is mainly suitable for use in varieties of plants and enterprises, building construction 1 phase 230V and 3 phase 400V 50/60Hz. RCCB is not suitable for use on DC pulse system.

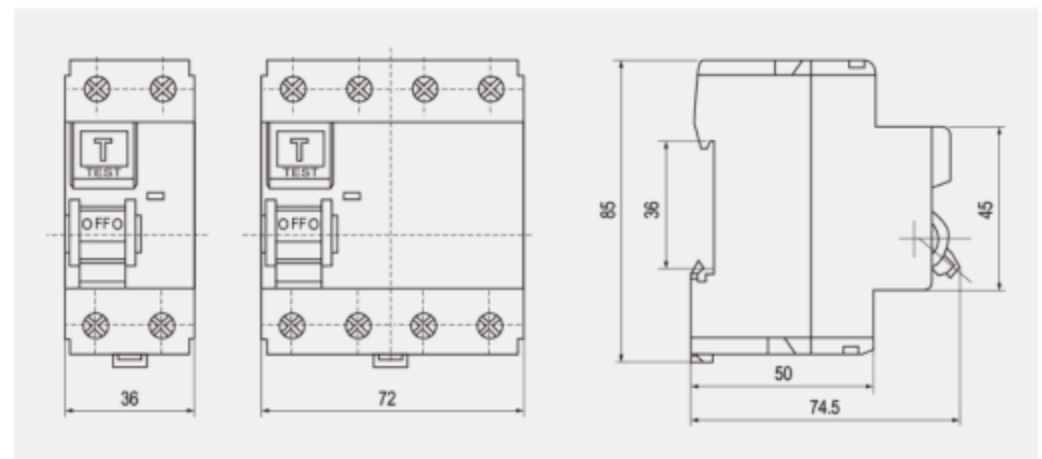
Specification

Number of Poles	2P, 4P
Rated Current (A)	16, 20, 25, 32, 40, 50, 63
Rated Residual Operating Current ($I_{\Delta n}$)(mA)	30, 100, 300, 500
Rated Voltage (V)	AC 230/240, AC 400/415
Residual Operating Current Scope	$0.5I_{\Delta n} \sim I_{\Delta n}$
Residual Current Off-time (s)	≤ 0.3
Short Circuit Capacity (I_{cu})(A)	6000
Endurance (times)	4000
Protection Degree	IP20

Applicable Conducting Wire

Rated current (A)	16, 20	25	32	40, 50	63
Nominal cross section of wire (mm ²)	2.5	4	6	10	16

Dimension



MG65N Series Miniature Circuit Breaker (MCB)

Application

MG65N is applicable to a line of AC 50/60Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit, and rated current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercially district, high-rise building and dwelling house. It conforms with the standards of IEC60898.

Main Technical Parameter

Type	MG65N	
Pole	1P	2P, 3P, 4P
Rated current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Ambient temperature	-5°C~+40°C	
Type of instantaneous release	B, C, D	
Rated short circuit breaking capacity I _{cn} (kA)	6(1-40A)/4(50-63A)	

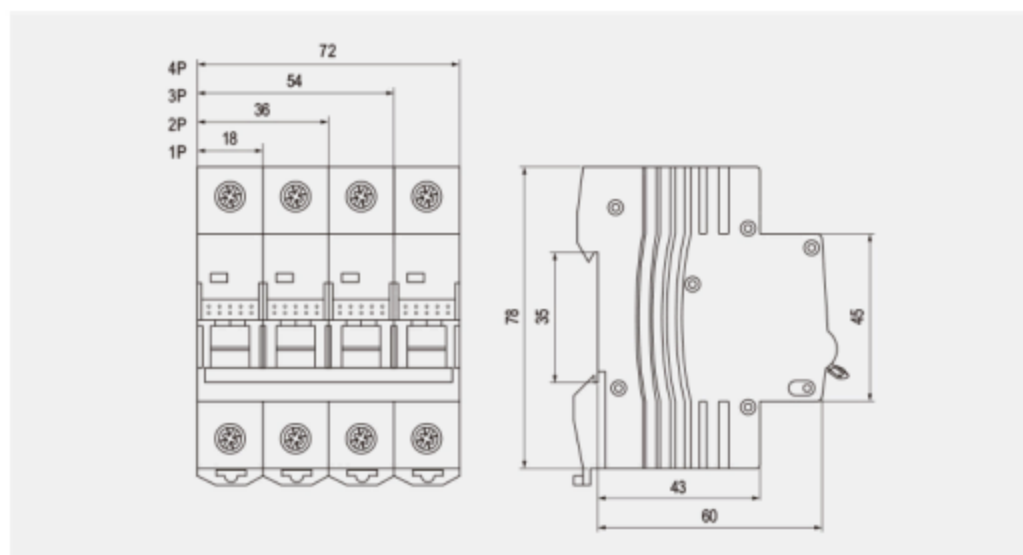
Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

Normal Use And Installation Conditions

1. Ambient air: -5°C~+40°C, 24h within an average of not more than +35°C;
2. Altitude: not more than 2000m;
3. Atmospheric conditions: The air relative humidity at the installation site should not exceed 50% at +40°C, and the relative humidity should not exceed 90% when the monthly average minimum temperature of the wettest month does not exceed +25°C.
4. Installation categories: II, III grade;
5. Pollution Degree: Grade 2;
6. Installation type: the use of standard rail installation;
7. Installation conditions: small disconnector general vertical mounting handle up for the power position, the installation should be no significant impact and vibration.

Dimension



BD1LE-63 Residual Current Circuit Breaker (RCBO)

Application

BD1LE-63 is applicable to a line of AC 50/60Hz, rated voltage 230V for single pole two-wire, 2-pole or 400V for 3-pole, 3-pole 4-wire, 4-pole and rated current up to 40A. It can protect the line and motor from overload and short circuit. It can also be used for infrequent line conversion and infrequent motor start. It conforms with the standards of IEC61009.

Main Technical Parameter

Type	BD1LE-63	
Pole	1P+N, 2P	3P, 3P+N, 4P
Rated current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230/240	400/415
Rated short circuit breaking capacity $I_{cn}(kA)$	6-32A: 6 / 40-63: 4	
Rated residual making/breaking capacity $I_{\Delta m}(A)$	2000	
Rated residual action current $I_{\Delta n}(A)$	0.03, 0.05, 0.1, 0.3	
Rated residual non-action current $I_{\Delta no}(A)$	0.5 $I_{\Delta n}$	

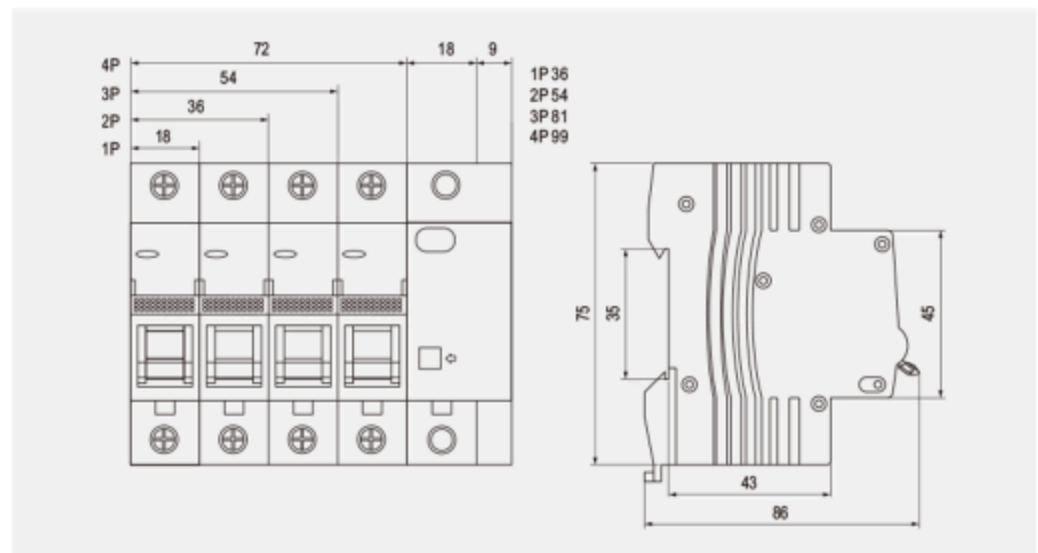
Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Nominal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

Normal Use And Installation Conditions

1. Ambient air: -5°C~+40°C, 24h within an average of not more than +35°C;
2. Altitude: not more than 2000m;
3. Atmospheric conditions: The air relative humidity at the installation site should not exceed 50% at +40°C, and the relative humidity should not exceed 90% when the monthly average minimum temperature of the wettest month does not exceed +25°C.
4. Installation categories: II, III grade;
5. Pollution Degree: Grade 2;
6. Installation type: the use of standard rail installation;
7. Installation conditions: small disconnector general vertical mounting handle up for the power position, the installation should be no significant impact and vibration.

Dimension



BD3-63 Isolating Switch (Hook type)

Application

BD3-63 isolation switch (hereinafter referred to as switch) is suitable for resistance circuits with AC 50Hz, rated voltage 230V, and rated current up to 63A. It is mainly used to connect or disconnect the circuit under no-load conditions, and to connect or isolate the circuit from the power supply. use. It is especially suitable for effectively isolating the power supply and preventing accidental closing during line maintenance, so as to ensure the safe operation of maintenance personnel.

Compliance with standards: GB/T 14048.3, IEC 60947-3, and CCC certification.

Main Technical Parameter

1. Specifications:

- 1.1. According to rated working current Ie: 32A, 63A;
- 1.2. According to the number of poles: 1P, 2P, 3P, 4P;

2. Basic parameters and main performance:

- 2.1. Rated insulation voltage Ui: 500V AC;
- 2.2. Rated working voltage Ue: 230V (1P, 2P), 400V (3P, 4P);
- 2.3. Rated working current Ie: 32A, 63A;
- 2.4. Rated impulse withstand voltage Uimp: 4kV (2000ms).
- 2.5. Rated short-time withstand current Icw: 12Ie, power-on time 1s;
- 2.7. Rated making and breaking capacity: 3Ie, 1.05Ue, cosΦ=0.65;
- 2.6. Rated short-circuit making capacity Icm: 20Ie, energizing time 0.1s;
- 2.8. Mechanical and electrical life: The mechanical life is 8,500 times, and the electrical life is 1,500 times.

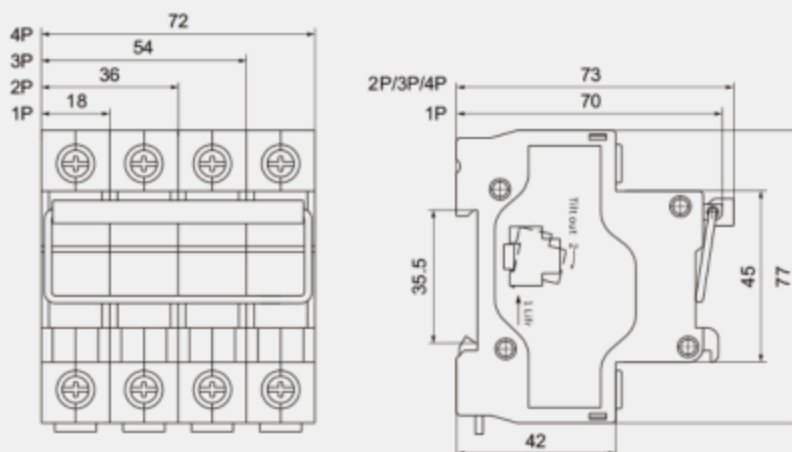
Applicable Conducting Wire

Rated current (A)	32	63
Normal cross section of wire (mm ²)	6	16

Normal Use And Installation Conditions

1. Ambient temperature: -5°C~+40°C.
2. Altitude: ≤2000m.
3. Pollution degree: Level 2.
4. Use category: AC-22A (1P, 2P), AC-20A (3P).
5. Installation category: II, III.
6. Installation conditions: The switch is normally installed vertically (the upper end is the incoming line), the handle is pushed up and the contact is connected; when it is pulled down, the contact is disconnected, and then hook the upper ring of the handle and the lower end of the shell to avoid Unexpected closing.
7. Installation method: use TH35-7.5 type mounting rail to install.
8. Wiring mode: Use screws to press the wiring tightly, and the tightening torque is 2.0N·m.

Dimension



BD3-100 Isolating Switch (Hook type)

Application

BD3-100 isolation switch (hereinafter referred to as switch) is suitable for AC 50Hz, rated voltage to 230V or 400V, rated current to 100A resistance and inductance mixed circuit, mainly used to connect or disconnect the circuit under no load, as a circuit and For power connection or isolation. It is especially suitable for effectively isolating the power supply and preventing accidental closing during line maintenance, so as to ensure the safe operation of maintenance personnel.

Compliance with standards: GB/T 14048.3, IEC 60947-3, and CCC certification.

Main Technical Parameter

1. Specifications:

- 1.1. According to rated working current I_e : 32A, 63A;
- 1.2. According to the number of poles: 1P, 2P, 3P, 4P;

2. Basic parameters and main performance:

- 2.1. Rated insulation voltage U_i : 500V AC;
- 2.2. Rated working voltage U_e : 230V (1P, 2P), 400V (3P, 4P);
- 2.3. Rated working current I_e : 32A, 63A;
- 2.4. Rated impulse withstand voltage U_{imp} : 4kV (2000ms).
- 2.5. Rated short-time withstand current I_{cw} : 12 I_e , power-on time 1s;
- 2.7. Rated making and breaking capacity: 3 I_e , 1.05 U_e , $\cos\phi=0.65$;
- 2.6. Rated short-circuit making capacity I_{cm} : 20 I_e , energizing time 0.1s;
- 2.8. Mechanical and electrical life: The mechanical life is 8,500 times, and the electrical life is 1,500 times.

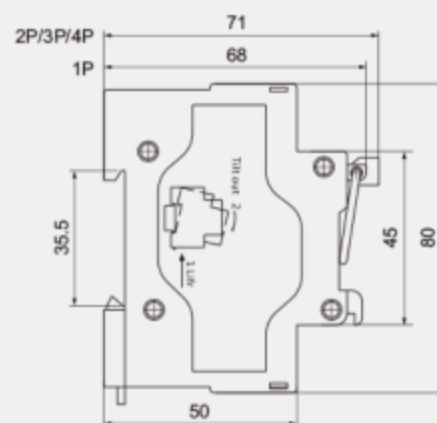
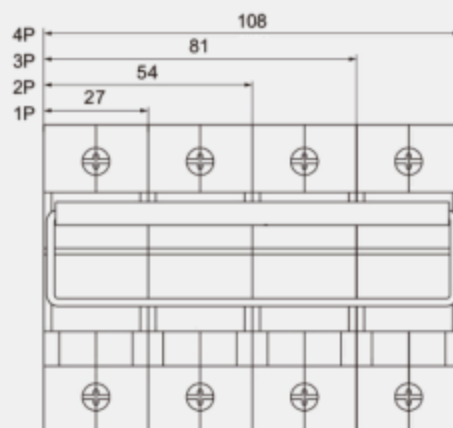
Applicable Conducting Wire

Rated current (A)	63	80	100
Nominal cross section of wire (mm ²)	16	25	35

Normal Use And Installation Conditions

1. Ambient temperature: -5°C~+40°C.
2. Altitude: ≤2000m.
3. Pollution degree: Level 2.
4. Use category: AC-22A (1P, 2P), AC-20A (3P).
5. Installation category: II, III.
6. Installation conditions: The switch is normally installed vertically (the upper end is the incoming line), the handle is pushed up and the contact is connected; when it is pulled down, the contact is disconnected, and then hook the upper ring of the handle and the lower end of the shell to avoid Unexpected closing.
7. Installation method: use TH35-7.5 type mounting rail to install.
8. Wiring mode: Use screws to press the wiring tightly, and the tightening torque is 2.0N·m.

Dimension



BDGL-125 Isolating Switch

Application

BDGL-125 series of small isolation switch for the system 50Hz, rated voltage single-phase 230V, three-phase 400V, rated current to 125A of the circuit, mainly as a line isolated power supply can also be used as line no load of infrequent conversion . This product complies with GB14048.3 standard.

Main Technical Parameter

Number of Poles	1P, 2P, 3P, 4P
Rated Current (A)	16, 20, 25, 32, 40, 63, 80, 100, 125
Rated Voltage (V)	AC 230/240, 400/415(4P)
Frequency	50/60Hz
Endurance	≥10000
Protection degree	IP20

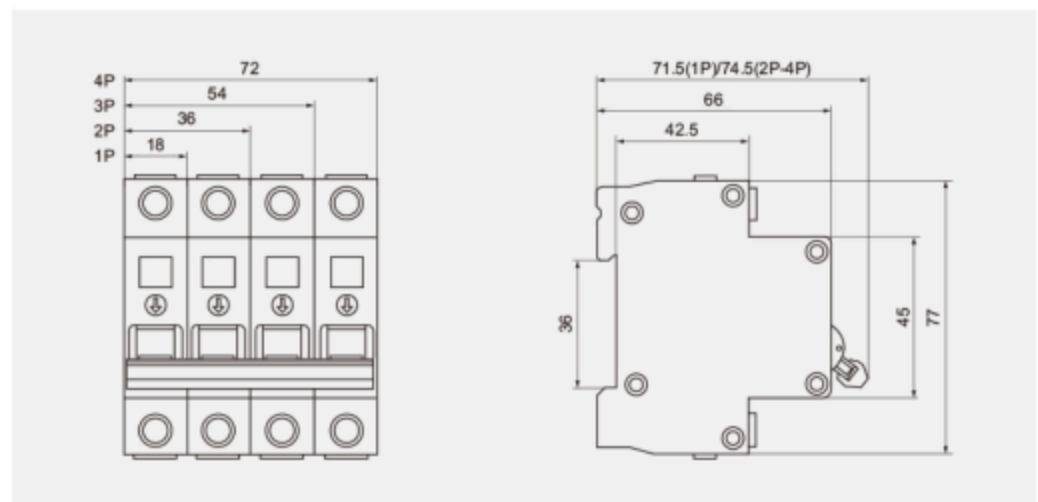
Structure Characteristics

This series of small isolation switch, mainly by the insulation shell, the operating mechanism and contact system composed of three parts, the insulation shell by the high-strength flame-retardant nylon injection molding, the contact for the bridge double breakpoint, the operating mechanism for the spring energy storage fast Dynamic structure. But also has the characteristics of beautiful appearance, light weight, fast breaking speed, sensitive and reliable action. This product uses the standard installation guide rail, easy assembly and disassembly, single-phase, two-pole, three-pole, four-pole can be any combination of small circuit breakers, small leakage circuit breakers. Widely used in industrial, commercial, high-rise buildings, houses and other places.

Normal Use And Installation Conditions

1. Ambient air: -5°C~+40°C, 24h within an average of not more than +35°C;
2. Altitude: not more than 2000m;
3. Atmospheric conditions: The air relative humidity at the installation site should not exceed 50% at +40°C, and the relative humidity should not exceed 90% when the monthly average minimum temperature of the wettest month does not exceed +25°C.
4. Installation categories: II, III grade;
5. Pollution Degree: Grade 2;
6. Installation type: the use of standard rail installation;
7. Installation conditions: small disconnector general vertical mounting handle up for the power position, the installation should be no significant impact and vibration.

Dimension



HL32-100 Isolating Switch

Application

HL32-100 series of small isolation switch for the system 50Hz, rated voltage single-phase 230V, three-phase 400V, rated current to 100A of the circuit, mainly as a line isolated power supply can also be used as line no load of infrequent conversion . This product complies with GB14048.3 standard.

Main Technical Parameter

Number of Poles	1P, 2P, 3P, 4P
Rated Current (A)	16, 20, 25, 32, 40, 63, 80, 100
Rated Voltage (V)	AC 230/240, 400/415(4P)
Frequency	50/60Hz
Endurance	≥10000
Protection degree	IP20

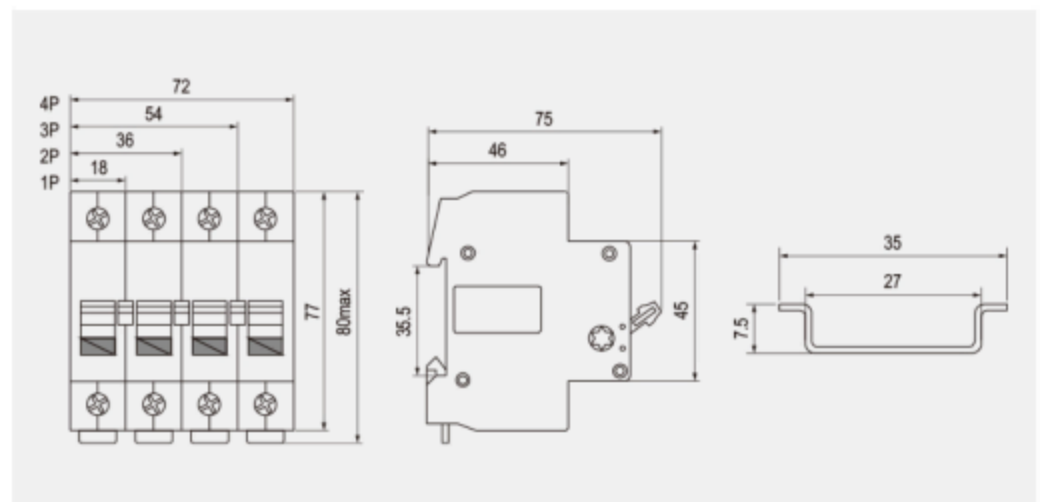
Structure Characteristics

This series of small isolation switch, mainly by the insulation shell, the operating mechanism and contact system composed of three parts, the insulation shell by the high-strength flame-retardant nylon injection molding, the contact for the bridge double breakpoint, the operating mechanism for the spring energy storage fast Dynamic structure. But also has the characteristics of beautiful appearance, light weight, fast breaking speed, sensitive and reliable action. This product uses the standard installation guide rail, easy assembly and disassembly, single-phase, two-pole, three-pole, four-pole can be any combination of small circuit breakers, small leakage circuit breakers. Widely used in industrial, commercial, high-rise buildings, houses and other places.

Normal Use And Installation Conditions

1. Ambient air: -5°C~+40°C, 24h within an average of not more than +35°C;
2. Altitude: not more than 2000m;
3. Atmospheric conditions: The air relative humidity at the installation site should not exceed 50% at +40°C, and the relative humidity should not exceed 90% when the monthly average minimum temperature of the wettest month does not exceed +25°C.
4. Installation categories: II, III grade;
5. Pollution Degree: Grade 2;
6. Installation type: the use of standard rail installation;
7. Installation conditions: small disconnector general vertical mounting handle up for the power position, the installation should be no significant impact and vibration.

Dimension



BD-125S Series External Circuit Breaker

Application

External circuit breaker, with power on the case of automatic closing, power off the case of automatic opening. At the same time, it has the function of fault prevention and overload and short circuit protection. Applicable to AC 50Hz, rated working voltage AC230V(1P+N, 2P), AC400V(3P+N, 4P), rated current 6A~125A circuit for automatic switch on and off control. This products are widely used in photovoltaic (pv) and the utility grid system, when the mains power supply circuit breaker automatic reclosing implementation with use of photovoltaic power generation in parallel, when the mains power circuit breaker automatically disconnected after blocking photovoltaic electric mains and parallel (popular saying: there is electric switch, disconnect without electricity), and inaccessible places for personnel, maintenance personnel is not in place in time. It can also be used for infrequent line operation conversion.

Automatic mode: the circuit breaker closes automatically when the main circuit is powered on, and opens automatically when the power is cut off.

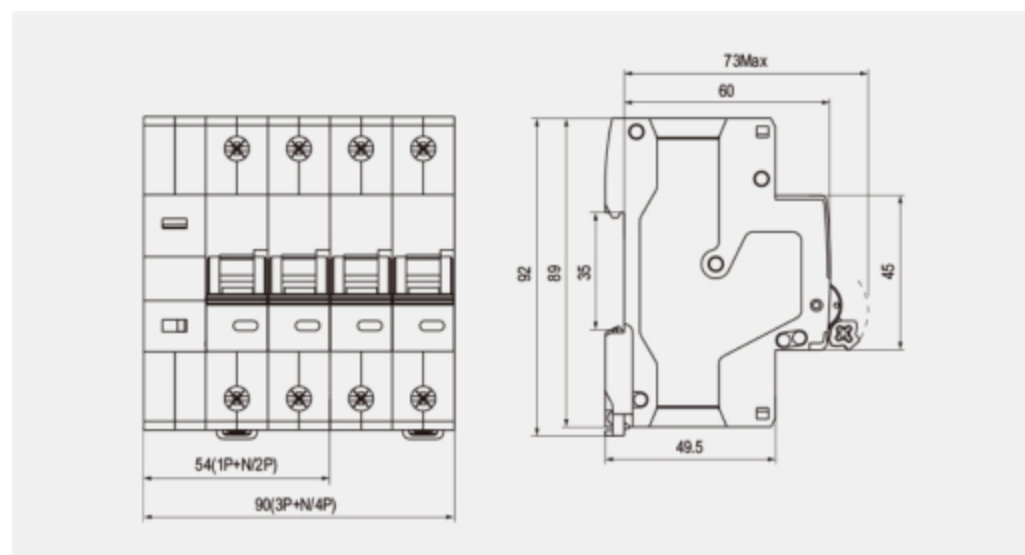
Manual mode: when the main circuit is powered on, the circuit breaker will automatically adjust the opening state, not automatically close, for circuit maintenance, maintenance and safety guarantee.

This product conforms to GB 10963.1, IEC 60898-1 standard.

Specification

Item	Parameter	
Rated Current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125	
Number of Poles	1P+N, 2P, 3P+N, 4P	
Automatic closing time (s)	≤ 3	
Automatic opening time (s)	≤ 1	
Switch on voltage (V)	U: 176V±5V	U: 304V±5V
Switch off voltage (V)	U: 44V±5V	U: 76V±5V
Over voltage protection (V)	U: 275V±5V	U: 475V±5V
Overpressure recovery (V)	U: 250V±5V	U: 432V±5V

Dimension



BD-100S Series Photovoltaic Automatic Reclosing

Application

Photovoltaic overvoltage and undervoltage automatic reclosing circuit breaker, with the power under the condition of automatic closing, power off the case of automatic opening. At the same time, it has the function of fault prevention and overload and short circuit protection. Applicable to AC 50Hz, rated working voltage AC230V(1P+N, 2P), AC400V(3P+N, 4P), rated current 6A~100A circuit for automatic switch on and off control. This products are widely used in photovoltaic (PV) and the utility grid system, when the mains power supply circuit breaker automatic reclosing implementation with use of photovoltaic power generation in parallel, when the mains power circuit breaker automatically disconnected after blocking photovoltaic electric mains and parallel (popular saying: there is electric switch, disconnect without electricity), and inaccessible places for personnel, maintenance personnel is not in place in time. It can also be used for infrequent line operation conversion.

Automatic mode: the circuit breaker closes automatically when the main circuit is powered on, and opens automatically when the power is cut off.

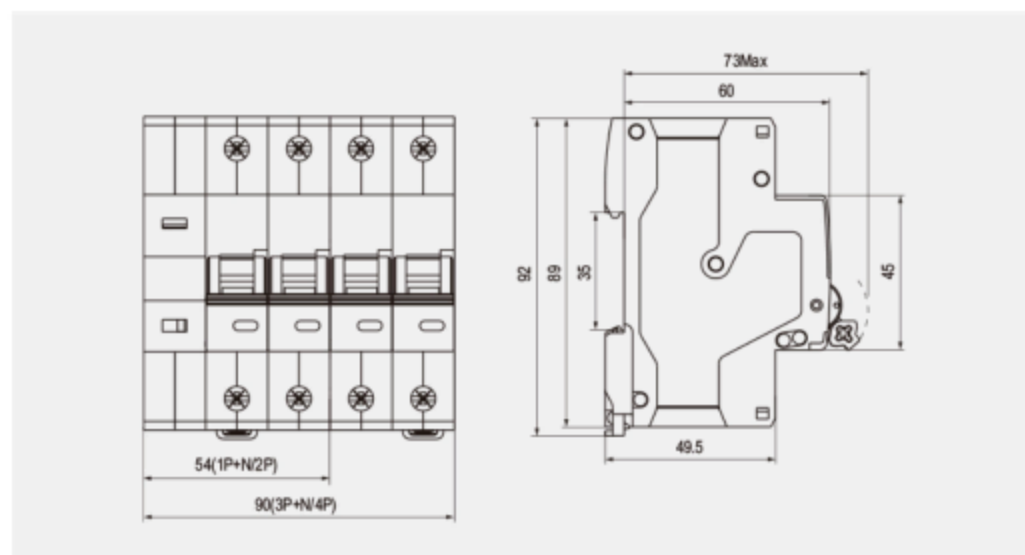
Manual mode: when the main circuit is powered on, the circuit breaker will automatically adjust the opening state, not automatically close, for circuit maintenance, maintenance and safety guarantee.

This product conforms to GB 10963.1, IEC 60898-1 standard.

Specification

Item	Parameter	
Rated Current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100	
Number of Poles	1P+N, 2P, 3P+N, 4P	
Automatic closing time (s)	≤ 3	
Automatic opening time (s)	≤ 1	
Switch on voltage (V)	U: 176V±5V	U: 304V±5V
Switch off voltage (V)	U: 44V±5V	U: 76V±5V
Over voltage protection (V)	U: 275V±5V	U: 475V±5V
Overpressure recovery (V)	U: 250V±5V	U: 432V±5V

Dimension



QJGQS-63 Self-Recovery Overvoltage or Undervoltage Protector



Brief of Product

Self-recovery over-voltage or under-voltage protector is the latest generation of appliance protection device. The control circuit is assembled with imported components, and the products are manufactured according to modular standards with excellent performance and reliability. Can work normally under abnormal voltage condition. When the mains voltage exceeds the action voltage of the protector, the protector can cut off the circuit quickly and reliably to protect electrical appliances and personal safety. When the mains voltage returns to normal, the protector can automatically connect to the power supply and restore the power supply. All functions are automatically implemented without personnel operation. The light-emitting diode on the panel can indicate the working condition of the protector. When the indicator light is green, the power supply is normal. When the red light is red, the protection function is started to cut off the power supply. This series of products compact structure, beautiful appearance, standard guide rail installation.

Application

The self-recovery type overvoltage or undervoltage protector is suitable for users or loads with single-phase AC voltage 220V, frequency 50Hz and rated working current 63A or below. It is used as the protection for single power equipment caused by single-phase over-voltage or undervoltage caused by the fault of the neutral line, such as the distribution lines of residential units and boxes.

Product Features

- Cut off the single-phase line when overvoltage or undervoltage occurs. The line voltage will be restored to normal and the line will be automatically reset and connected after delay without manual operation.
- The line is transient or transient overvoltage, the protector does not produce misoperation, and its own can resist harmonic interference, so the work is very stable.
- The line due to the contact is not real fault voltage instability, or a sudden power and a sudden call, the protector is not connected to the line.
- When the line fault voltage is the highest, the protector itself will not be damaged.
- Voltage protection range: ~600V
- Withstand the impulse voltage: 4kV
- The protector has a two-color light-emitting diode indicator working state, green: a normal voltage indicator, red: an over-undervoltage or delay indicator.
- Modular design, guide rail installation.
- Wiring capacity: 16 square mm and below insulated wire.

Main Technical Parameter

Type	QJGQS-63
Rated operating voltage (V)	AC230/240
Frequency (Hz)	50
Current (A)	25, 32, 40, 50, 63
Load power (kVA)	4.4, 6.6, 8.8, 11, 13.2
Overvoltage action cut off value (V)	AC270V±5V
Overvoltage recovery value (V)	AC255±5V
Undervoltage action cut off value (V)	AC170±5V
Undervoltage recovery value (V)	AC185±5V
Power transmission delay after power failure	30±10 seconds
Power consumption (W)	≤2
Electrical life	2000 time

QJGQS-63 Self-Recovery Overvoltage or Undervoltage Protector

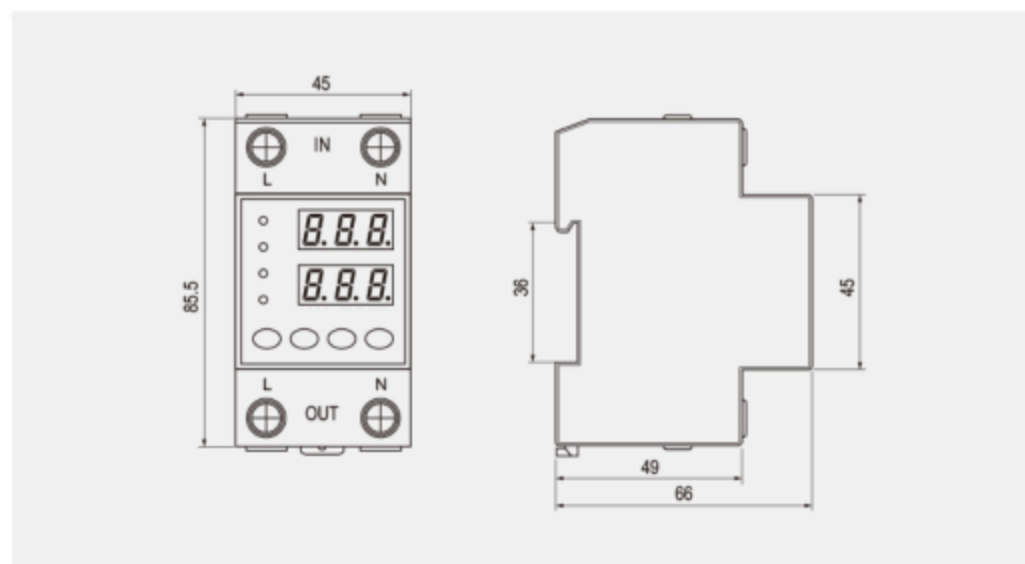
Operating Environment

- Ambient temperature: $-25^{\circ}\text{C}\sim 40^{\circ}\text{C}$
- Relative humidity: 10%-90%
- Altitude not more than 2500 meters.
- The use place should be equipped with rainproof facilities.

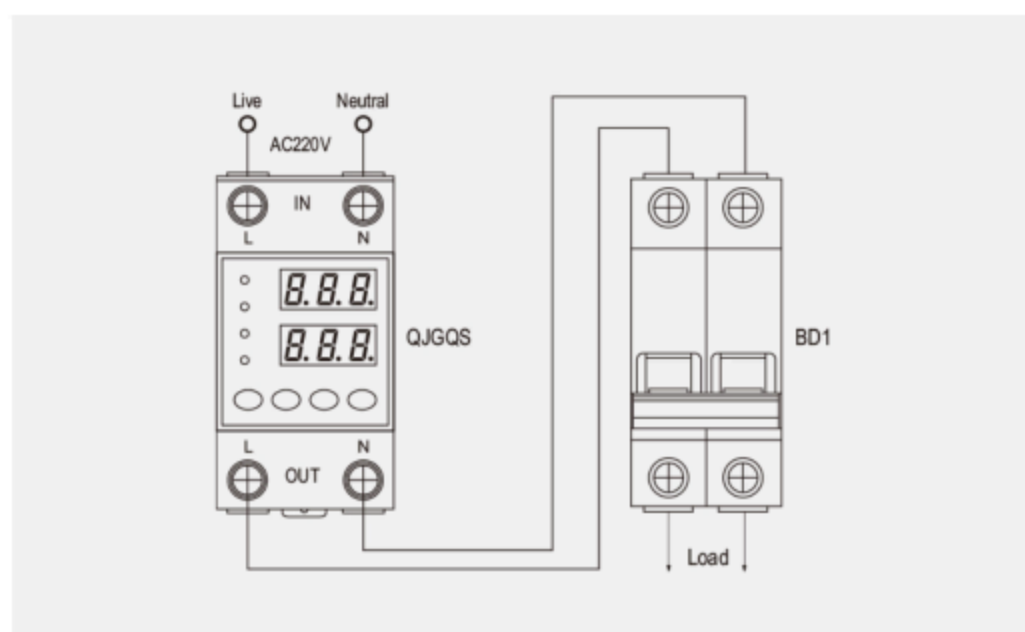
Matters Needing Attention

- When the protector is powered on for the first time, it needs to delay 30+10 seconds to supply normal power to the load.
- Protector N is zero line, L is the live line, can not be connected wrong.
- Before use, please tighten the wiring screw, to prevent bad contact and damage to the product.

Overall Dimensions



Connection Mode



BD1LE-63 Combined Leakage Protector (RCBO)



Application

BD1LE-63 is applicable to a line of AC 50/60Hz, rated voltage 230V for single pole two-wire, 2-pole or 400V for 3-pole, 3-pole 4-wire, 4-pole and rated current up to 40A. It can protect the line and motor from overload and short circuit. It can also be used for infrequent line conversion and infrequent motor start. It conforms with the standards of IEC61009.

Main Technical Parameter

Type	BD1LE-63	
Pole	1P+N, 2P	3P, 3P+N, 4P
Rated current (A)	6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage (V)	230	400
Rated short circuit breaking capacity $I_{cn}(kA)$	6-32: 6kA, 40-63: 4kA	
Rated residual making/breaking capacity $I_{\Delta m}(A)$	2000	
Rated residual action current $I_{\Delta n}(A)$	0.03, 0.05, 0.1, 0.3	
Rated residual non-action current $I_{\Delta no}(A)$	0.5 $I_{\Delta n}$	
Dimension (L×W×H) (mm)	100×72×75, 100×100×75, 215×122×90	

Applicable Conducting Wire

Rated current (A)	1-6	10	16, 20	25	32	40, 50	63
Normal cross section of wire (mm ²)	1	1.5	2.5	4	6	10	16

Residual Current Breaking Time

$I_n(A)$	$I_{\Delta n}$	Breaking time(s) when equals to rating following				
		$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	5, 10, 20, 50, 100, 200, 500 ^a (A)	$I_{\Delta t}^b$
6-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	0.04	0.04	0.04

The Over-Current Protection Property

Ambient Temperature	Initial Status	Test Current	Expected Result	Expected Result	Note
30±2℃	Cold position	1.13 I_n	$t \geq 1h$	Non-release	—
	Carried out immediately after previous test	1.45 I_n	$t < 1h$	Release	—
	Cold position	2.55 I_n	$1s < t < 60s (I_n \leq 32A)$	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55 I_n	$1s < t < 120s (I_n > 32A)$	Release	
-5~+40℃	Cold position	3 I_n	$t \geq 0.1s$	Non-release	Type B
	Cold position	5 I_n	$t < 0.1s$	Release	Type B
	Cold position	5 I_n	$t \geq 0.1s$	Non-release	Type C
	Cold position	10 I_n	$t < 0.1s$	Release	Type C
	Cold position	10 I_n	$t \geq 0.1s$	Non-release	Type D
	Cold position	20 I_n	$t < 0.1s$	Release	Type D

Leakage Protection Switch



Brief of Product

QJ-40L series leakage protection switch is mainly used in rated voltage 230V/50Hz and rated current less than 40A, it is protection for a single bundle of power lines ; at the same time, it can also prevent electrical fire hazards caused by equipment insulation damage and ground fault current generation.

This product is suitable for providing electric shock and leakage protection on electrical equipment such as air conditioners, electric water heaters, solar water heaters, vending machines, water dispensers, refrigerators, washing machines, etc. It is especially suitable for under 5P household air conditioners with function of anti-electric shock, Anti-leakage, anti-fire and other protection. This product conforms to GB16916.1-2003 national standard ((similar as RCCB --Residual current operated circuit breakers without overcurrent protection).

Operating Conditions

- The altitude of the installation site shall not exceed 2000m.
- Ambient air temperature $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$, the average temperature within 24 hours does not exceed $+35^{\circ}\text{C}$.
- The relative humidity of the atmosphere does not exceed 50% when the ambient air temperature is $+40^{\circ}\text{C}$, and it can be higher at lower temperatures (not higher than 20°C).The relative humidity should not exceed 90%.
- It should be installed in a place where there is no significant vibration or impact, and no rain and snow intrusion. The magnetic field near the installation place should not exceed 5 times the geomagnetic field in any direction.
- Installation method: Use screws to fix the 86-type Embedded concealed installation on the indoor wall or surface mounted on the wall.

Main Technical Parameter

Type	QJ-40L
Rated Voltage (V)	230
Rated Current (A)	10, 16, 20, 32, 40
Rated frequency (Hz)	50
Breaking capacity (A)	1500
Residual current (mA)	30

Structure and Working Principle

1. The product is an electronic high-speed, non-acting protection switch subject to inrush current, and adopts a semiconductor integrated special circuit for high-speed ground leakage protection.

2. Compared with ordinary electromagnetic leakage protectors, it has higher response sensitivity, anti-interference and impact ability; adopts special moving contact mechanism and arc extinguishing mechanism to make the breaking speed faster, the arc extinguishing performance is better, and the breaking capacity is higher; The screw connection method is adopted to make the connection more stable and reliable, which can avoid serious consequences such as poor contact or looseness of the plug and socket connection method, which may cause overheating or even fire. The contact closure is completed by manual operation, and the contact opening operation can be disconnected by the trip coil assembly or manually.

NT-50 Circuit Breaker With Light Series

Brief of Product

NT-50 residual current circuit breaker is suitable for AC 50Hz, rated voltage upto 240V, rated current up to 32A, it is used for protection of the overload and short of all kinds of modern family applicable apparatus. It can also be used for unfrequently operation and control.

Circuit Breaker Advantages

1. The appearance of new, superb technology
2. Small size, high breaking, easy installation
3. Safer distribution
4. Higher reliability and cost-effective

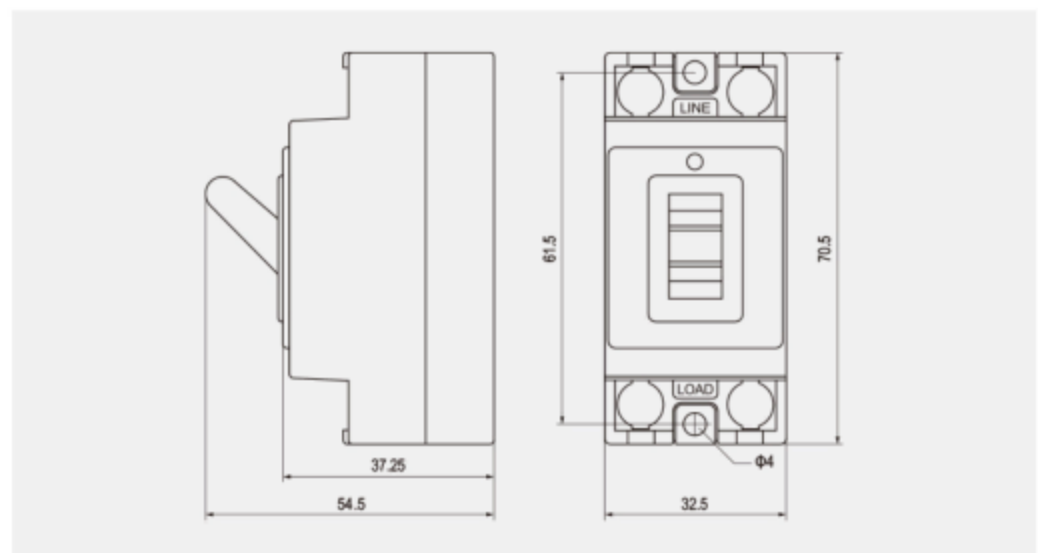
Normal Using Conditions

1. Ambient temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$ relative humidity lower than 95%
2. Installation site altitude not exceeding 2000 meters,
3. Atmospheric relative humidity does not exceed 50% at the highest temperature $+40^{\circ}\text{C}$. when low humidity can have a high temperature, such as in the wettest month average temperature does not exceed $+25^{\circ}\text{C}$, the monthly relative humidity less than 90%, and allows when temperature changing, there is condensation on the surface of the circuit breaker.
4. The breaker's using place: pollution degree 2
5. Breaker's installation category: usually class II

Main Technical Parameter

Type	NT-50
Frame lever rated current I_{nm} (A)	32
Number of Poles	2P1E/2P2E
Rated Voltage U_n (V)	115/230
Rated frequency (Hz)	50, 60
Rated current I_n (A)	5, 10, 16, 20, 25, 32, 40
Rated breaking capacity I_m (A)	115V/2500, 230V/2000
Rated limit short-circuit current I_{nc} (A)	3000

Dimension



NT-50 Circuit Breaker Cover Series



Brief of Product

NT-50 series circuit breakers are suitable for ac 50Hz, rated voltage 230V, rated current 32A lines, the electrical circuit mainly from overload protection, small and exquisite external, The internal is the use of bipolar structure design, one pole is protected, one pole is not protected, bipolar with closed, disconnected, so as to solve the civil and industrial single-phase end only use its 1 pole switch there are all kinds of hidden dangers, really safe and reliable, so it is the ideal protector in the field of industrial control.

Circuit Breaker Advantages

1. The appearance of new, superb technology
2. Small size, high breaking, easy installation
3. Safer distribution
4. Higher reliability and cost-effective

Normal Using Conditions

1. Ambient temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$ relative humidity lower than 95%
2. Installation site altitude not exceeding 2000 meters,
3. Atmospheric relative humidity does not exceed 50% at the highest temperature $+40^{\circ}\text{C}$. when low humidity can have a high temperature, such as in the wettest month average temperature does not exceed $+25^{\circ}\text{C}$, the monthly relative humidity less than 90%, and allows when temperature changing, there is condensation on the surface of the circuit breaker.
4. The breaker's using place: pollution degree 2
5. Breaker's installation category: usually class II

Main Technical Parameter

Type	NT-50
Frame lever rated current I_{nm} (A)	32
Number of Poles	2P1E/2P2E
Rated Voltage U_n (V)	115/230
Rated frequency (Hz)	50, 60
Rated current I_n (A)	5, 10, 16, 20, 25, 32, 40
Rated breaking capacity I_m (A)	115V/2500, 230V/2000
Rated limit short-circuit current I_{nc} (A)	3000

NT-50L Leakage Circuit Breakers Series (RCBO)

Brief of Product

NT-50L leakage circuit breakers for AC 50Hz, rated voltage 230V or 115V, rated current to 32A single-phase circuit. Its main function is to provide protection against electric shocks that have fatal dangers. At the same time, it can also be used to prevent electrical fire hazard caused by earth fault current due to equipment insulation damage. Leakage circuit breakers derived products also have overload protection, there is effective to prevent burning electrical equipment.

With features of small size, high breaking height, reliable operation and environmental protection, NT50 leakage circuit breaker can be widely used in electric water heaters, solar water heaters, vending machines, drinking fountains, refrigerators, washing machines and other electrical equipment to provide electric shock, leakage, overload Protection, is the ideal product for users.

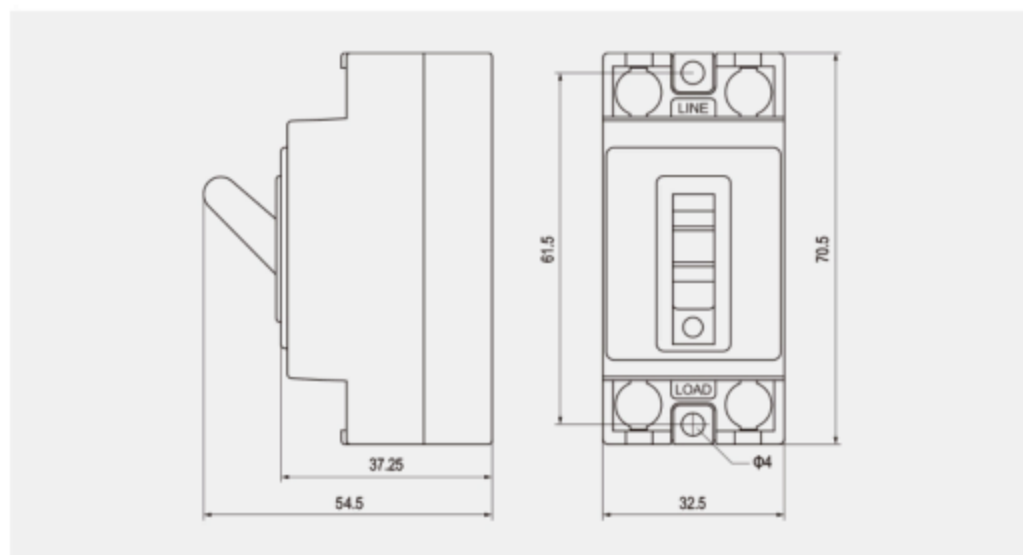
Normal Using Conditions

1. Ambient temperature: $-5^{\circ}\text{C}\sim+40^{\circ}\text{C}$ relative humidity lower than 95%
2. Installation site altitude not exceeding 2000 meters,
3. Atmospheric relative humidity does not exceed 50% at the highest temperature $+40^{\circ}\text{C}$. when low humidity can have a high temperature, such as in the wettest month average temperature does not exceed $+25^{\circ}\text{C}$, the monthly relative humidity less than 90%, and allows when temperature changing, there is condensation on the surface of the circuit breaker.
4. The breaker's using place: pollution degree 2
5. Breaker's installation category: usually class II

Main Technical Parameter

Type	NT-50L
Frame lever rated current I_{nm} (A)	32
Number of Poles	2P1E/2P2E
Rated Voltage U_n (V)	115/230
Rated frequency (Hz)	50, 60
Rated current I_n (A)	5, 10, 16, 20, 25, 32, 40
Rated breaking capacity I_m (A)	115V/2500, 230V/2000
Rated limit short-circuit current I_{nc} (A)	3000
Rated residual actuating current I_n (mA)	30, 15, 10
Rated residual non-actuating current I_n (mA)	15, 7.5, 5

Dimension



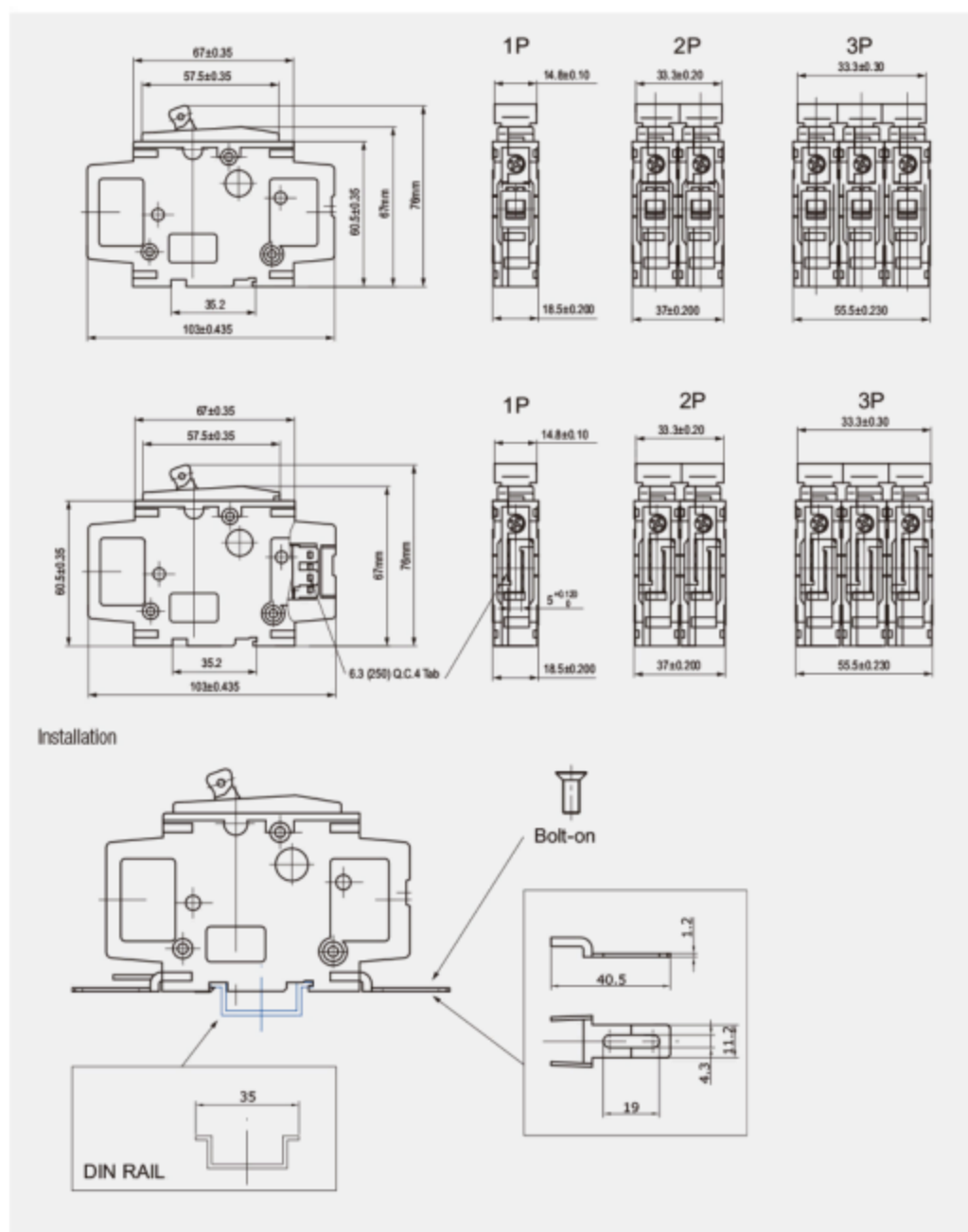
Miniature Circuit Breaker



Specifications and Characteristics

- Number of Poles: 1P, 2P, 3P
- Rated Volts: 120/240VAC
- Rated Current: 15A, 20A, 25A, 30A, 40A, 45A, 50A, 60A
- Rated Frequency: 50/60Hz
- Breaking Capacity: 10kA
- Ambient Temperature: -5~40°C
- Tripping Characteristics: Tripping at 200% rated current, 0-30A≤2', 31-50A≤4', 51-100A≤6'
- Overload Tripping: 15-20A≥150A, 25-60A≥600%
- Life Span: 10000 (Electrical Endurance≥6000, Mechanical Endurance≥4000)
- Connection: Wire-in
- Wire Range: 14-4 AWG, CU only
- Torque: 5 N·m, or 45 in·lbs
- Mounting: 1. Din Rail 35mm
2. Fast Clip

Dimension



Surge Protector Series

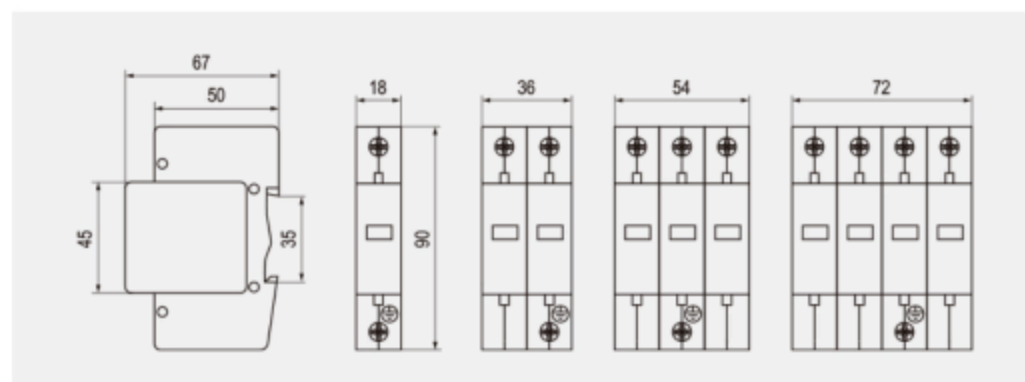
Brief of Product

- Consistent pluggability (even for N/PE spark gap)
- Own developed technology to manufacture MOV
- Thermal disconnect device for each individual connector
- Optical/mechanical status indication for the individual arresters
- With or without floating remote indication contact
- Suitable for almost all network configurations
- Din rail mountable (35 mm)

Technical Parameter

Type	QJSPC / 1P, 2P, 3P, 4P		
Rated voltage (max. continuous a.c. voltage) [Uc]	275V or 385V		
Nominal discharge current (8/20) [In]	10kA	20kA	30kA
Maximum discharge current [Imax]	20kA	40kA	60kA
Voltage protection level [Up]	≤1.5kV	≤1.8kV	≤2.2kV
Response time [tA]	≤25ns		
Max. backup fuse	125A gL/gG		
Operating temperature range [Tu]	-40°C~+70°C		
Cross-sectional area	1.5mm~25mm solid / 35mm flexible		
Mounting on	35mm DIN rail		
Enclosure material	Purple (module)/light gray (base) thermoplastic, UL94-V0		
Dimension	1 mod		
Test standards	IEC 61643-1; GB 18802.1; YD/T 1235.1		
Certification	CE ROHS ISO9001 CQC		
Type of remote signalling contact	Switching contact		
Switching capacity a.c.	250V / 0.5A		
Switching capacity d.c.	250V / 0.1A; 125V/0.2A; 75V/0.5A		
Cross-sectional area for remote signalling contact	Max. 1.5mm² solid / flexible		

Dimension



Surge Protector Series

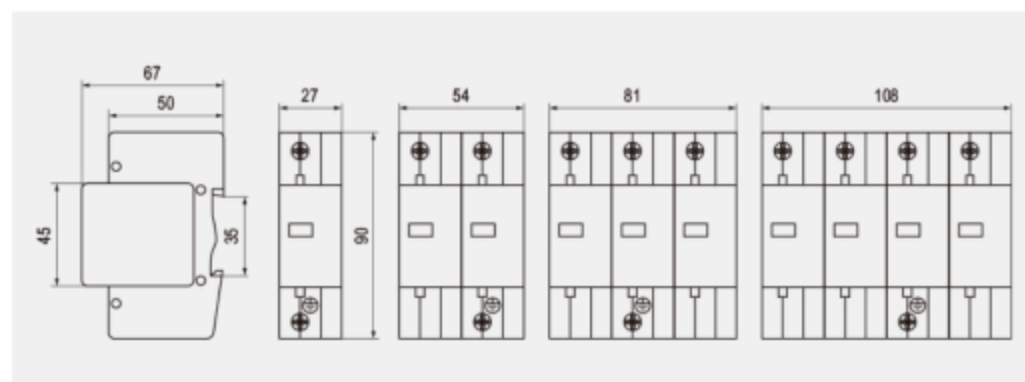
Brief of Product

- Consistent pluggability(even for N/PE spark gap)
- Own developed technology to manufacture MOV
- Thermal disconnect device for each individual connector
- Optical/mechanical status indication for the individual arresters
- With or without floating remote indication contact
- Suitable for almost all network configurations
- Din rail mountable (35 mm)

Technical Parameter

Type	QJSPC / 1P, 2P, 3P, 4P	
Rated voltage (max. continuous a.c.voltage) [Uc]	275V or 385V	
Nominal discharge current (8/20) [In]	40kA	60kA
Maximum discharge current [Imax]	80kA	100kA
Voltage protection level [Up]	≤2.4kV	≤2.5kV
Response time [tA]	≤25ns	
Max.backup fuse	125A gL/gG	
Operating temperature range [Tu]	-40°C~+70°C	
Cross-sectional area	1.5mm~25mm solid / 35mm flexible	
Mounting on	35mm DIN rail	
Enclosure material	Purple (module)/light gray (base) thermoplastic,UL94-V0	
Dimension	1 mod	
Test standards	IEC 61643-1; GB 18802.1; YD/T 1235.1	
Certification	CE ROHS ISO9001 CQC	
Type of remote signalling contact	Switching contact	
Switching capacity a.c	250V / 0.5A	
Switching capacity d.c	250V / 0.1A; 125V/0.2A; 75V/0.5A	
Cross-sectional area for remote signalling contact	Max.1.5mm² solid / flexible	

Dimension



Surge Protector Series

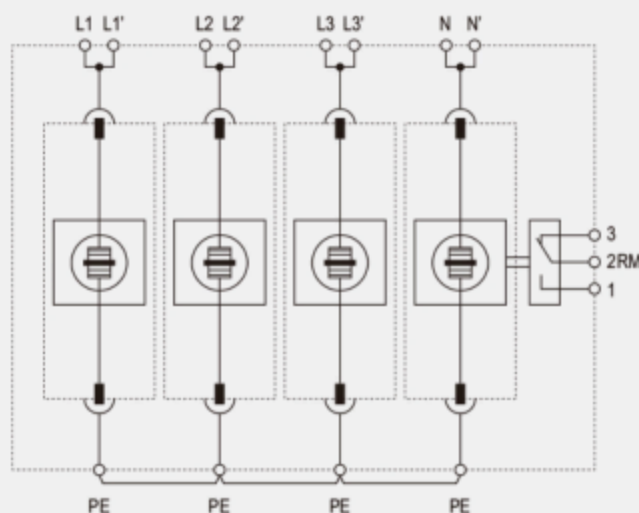


Brief of Product

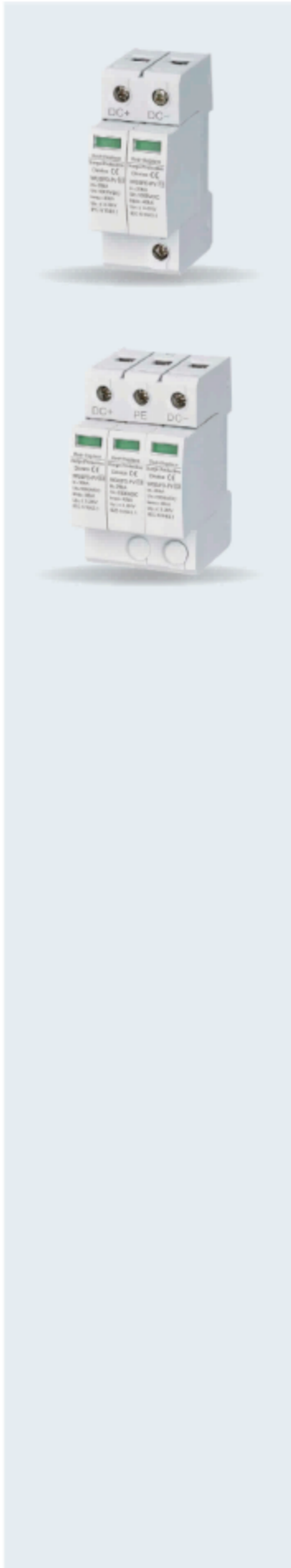
- 10/350 μ s, 8/20 μ s sparkgap
- Single-pole lightning current arrester, pluggable
- Adopt hermetical GDT technology, high follow current extinguishing capability
- Extremely low voltage protection level
- Double terminals for parallel or series (V-shape) connection
- Multifunctional connection for conductors and busbars
- Green window will change to red when fault occurs, also provide remote alarm terminal at the same time

Technical Parameter

Type	QJSPC
Rated voltage (max. continuous a.c.voltage) [U_c]	385V or 275V
Lightning impulse current (10/350) [I_{imp}]	12.5, 15, 25, 50kA
Nominal discharge current (8/20) [I_n]	50kA
Voltage protection level [U_p]	$\leq 1.8kV$
Follow current extinguishing capability at UC [I_f]	32A fuse will not be triggered at 2kArms 255V
Response time [t_A]	$\leq 100ms$
Max.backup fuse (L)	200A gL/gG
Max.backup fuse (L-L')	125A gL/gG
TOV voltage	335V/5sec
Operating temperature range (parallel wiring) [T_{up}]	-40°C~+80°C
Operating temperature range (through wiring) [T_{us}]	-40°C~+60°C
Cross-sectional area	35mm ² solid / 50mm ² flexible
Mounting on	35mm DIN rail
Enclosure material	Purple (module)/light gray (base) thermoplastic,UL94-V0
Dimension	2 mods
Test standards	IEC 61643-1; GB 18802.1; YD/T 1235.1
Certification	CE ROHS ISO9001 CQC TUV
Type of remote signalling contact	Switching contact
Switching capacity a.c	250V / 0.5A
Switching capacity d.c	250V / 0.1A; 125v/0.2A; 75v/0.5A
Cross-sectional area for remote signalling contact	Max. 1.5mm ² solid / flexible
Packing unit	1pc(s)
Weight	384g



DC Solar Power System SPD PV Surge Protection

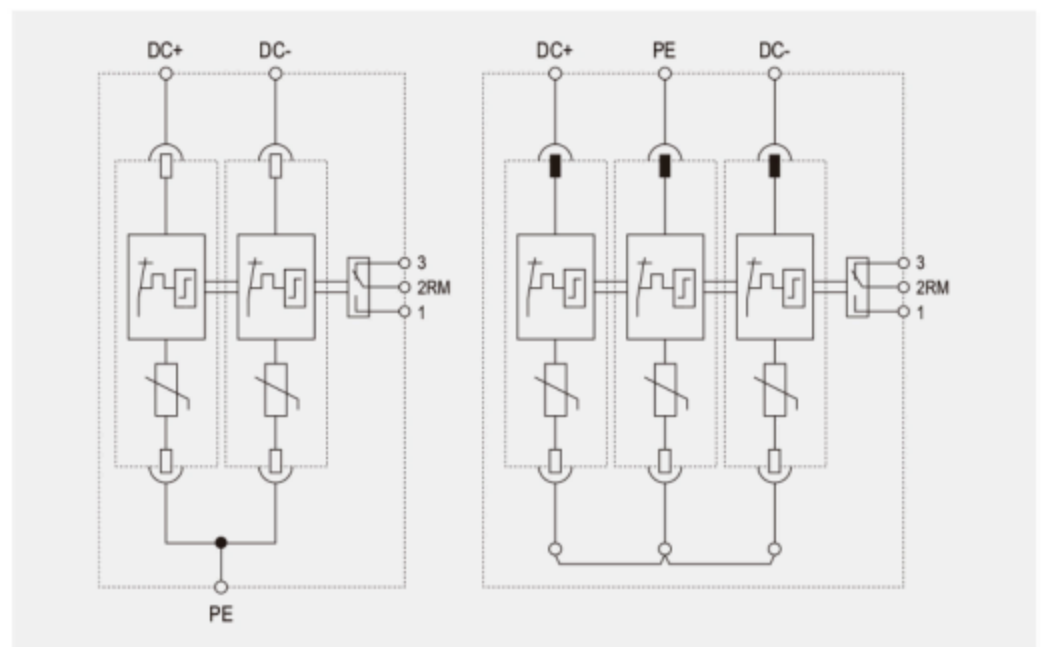


Brief of Product

- Consistent pluggability (even for N/PE spark gap)
- Own developed technology to manufacture MOV
- Thermal disconnect device for each individual connector
- Optical/mechanical status indication for the individual arresters
- With or without floating remote indication contact
- Suitable for almost all network configurations
- Din rail mountable (35 mm)

Technical Parameter

Type	QJSPC-PV/2P	QJSPC-PV/3P
Rated voltage (max. continuous a.c. voltage) [Uc]	800V/1000V/1200V	
Nominal discharge current (8/20) [In]	20kA	
Maximum discharge current [Imax]	40kA	
Voltage protection level [Up]	≤3.2kV/≤4.0kV/≤4.4kV	
Response time [tA]	≤25ns	
Max. backup fuse	125A gL/gG	
Operating temperature range [Tu]	-40°C...+70°C	
Cross-sectional area	1.5mm²~25mm² solid/35mm² flexible	
Mounting on	35mm DIN rail	
Enclosure material	Purple (module)/light gray (base) thermoplastic, UL94-V0	
Dimension	2 mod	1 mod
Test standards	IEC 61643-1; GB 18802.1; YD/T 1235.1	
Certification	CE ROHS ISO9001 CQC	
Type of remote signalling contact	Switching contact	
Switching capacity a.c.	250V/0.5A	
Switching capacity d.c.	250V/0.1A; 125V/0.2A; 75V/0.5A	
Cross-sectional area for remote signalling contact	Max. 1.5mm² solid/flexible	
Packing unit	2pc(s)	1pc(s)
Weight	300g	400g



Surge Protection Device Backup Power SCB SPD Protector



Brief of Product

- There is no gap structure for this product;
- Low residual pressure (almost equal to wire residual pressure);
- Unmistakable action; No blind area;
- Independent main circuit system, auxiliary system and tripping system;
- Complete the specifications and meet the requirements of SPD at T1, T2 and T3 levels;
- The installation of 35mm card rail is in line with the installation requirements around the world;
- It has instantaneous or delayed tripping function, and the tripping current is accurate;
- Test button can be used to verify the integrity of the tripping system.

Scope of Application

The SPD dedicated backup protector, provide power supply with 1, 2, 3 equipment to protect the SPD (lightning protector) professional backup protection, is suitable for the need to install the SPD lightning protection devices, such as: civil construction, electrical, communications, road traffic, such as the petrochemical industry of power equipment.

Product Usage

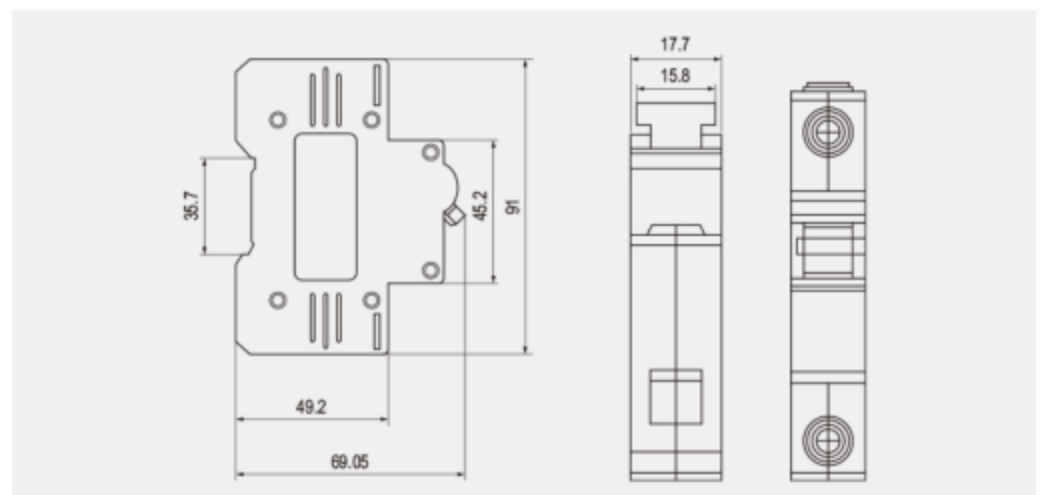
It is effective to protect the SPD from the occurrence of abnormal transient overcurrent, so as to avoid serious fire accidents.

The actual selective separation of the working frequency current and lightning current can effectively protect the SPD from the occurrence of degradation, which can reduce the starting voltage of the SPD to a lower than that of the power supply voltage, so as to avoid causing serious problems. Fire accident.

When the SPD has an outdated lightning flow, this external disconnection will not cause an error trip, so that the lightning protection of electrical equipment is always in an effective state.

Technical Parameter

Technical Parameter	T1	T2	T3
Specification	QJSCB-100G	QJSCB-80G	QJSCB-40G
Rated working voltage U_e	300V/AC	600V/AC	630V/AC
Nominal insulation voltage (Ui)	230V/400V/AC	230V/400V/AC	230V/400V/AC
Applicable SPD (Iimp, In)	$\leq 25kA(10/350\mu s)$	$\leq 60kA(8/20\mu s)$	$\leq 20kA(8/20\mu s)$
Frequency current tripping value	3A	3A	3A
Power frequency current breaking times	1000	1000	1000
Short-circuit current breaking capacity (Ics)	6kA	6kA	6kA
Frequency short-circuit current breaking capacity (Ics)	35kA	35kA	35kA
Maximum terminal connection	25mm	25mm	25mm
Protection degree	IP20	IP20	IP20
Ambient temperature	-25°C-60°C	-25°C-60°C	-25°C-60°C
Storage environment	-40°C-75°C	-40°C-75°C	-40°C-75°C
Work environment	20%~90%	20%~90%	20%~90%



Surge Protection Device Backup Power SCB-DC SPD Protector



Brief of Product

- There is no gap structure for this product;
- Low residual pressure (almost equal to wire residual pressure);
- Unmistakable action; No blind area;
- Independent main circuit system, auxiliary system and tripping system;
- Complete the specifications and meet the requirements of PSD at T1, T2 and T3 levels;
- The installation of 35mm card rail is in line with the installation requirements around the world;
- It has instantaneous or delayed tripping function, and the tripping current is accurate;
- Test button can be used to verify the integrity of the tripping system.

Scope of Application

The SPD dedicated backup protector, provide power supply with 1, 2, 3 equipment to protect the SPD (lightning protector) professional backup protection, is suitable for the need to install the SPD lightning protection devices, such as: civil construction, electrical, communications, road traffic, such as the petrochemical industry of power equipment.

Product Usage

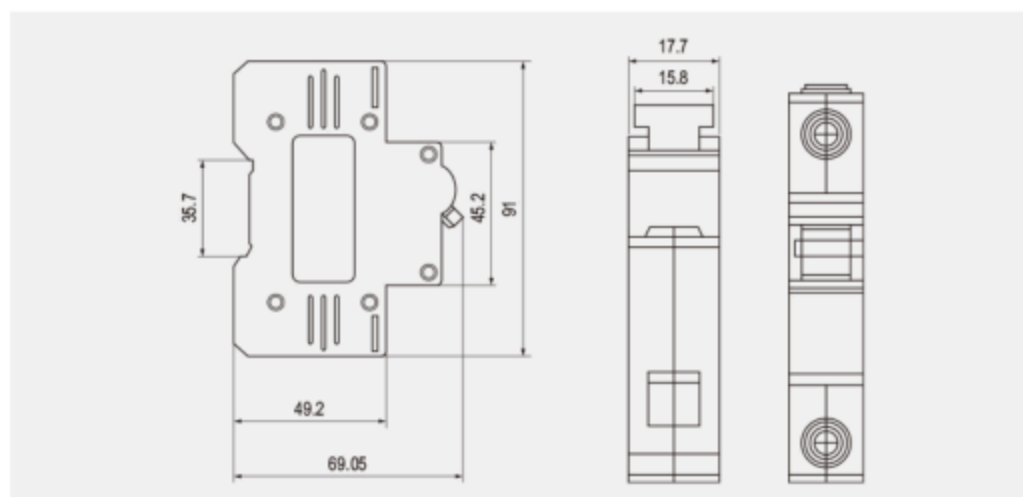
It is effective to protect the SPD from the occurrence of abnormal transient overcurrent, so as to avoid serious fire accidents.

The actual selective separation of the working frequency current and lightning current can effectively protect the SPD from the occurrence of degradation, which can reduce the starting voltage of the SPD to a lower than that of the power supply voltage, so as to avoid causing serious problems. Fire accident.

When the SPD has an outdated lightning flow, this external disconnection will not cause an error trip, so that the lightning protection of electrical equipment is always in an effective state.

Technical Parameter

Technical Parameter	T1	T2	T3
Specification	QJSCB-100G	QJSCB-80G	QJSCB-40G
Rated working voltage U_e	1000V/DC	1000V/DC	1000V/DC
Nominal insulation voltage (Ui)	1200V/DC	1200V/DC	1200V/DC
Applicable SPD (Iimp, In)	$\leq 25kA(10/350\mu s)$	$\leq 60kA(8/20\mu s)$	$\leq 20kA(8/20\mu s)$
Frequency current tripping value	4A	4A	4A
Power frequency current breaking times	1000	1000	1000
Short-circuit current breaking capacity (Ics)	0.5kA	0.5kA	0.5kA
Frequency short-circuit current breaking capacity (Ics)	35kA	35kA	35kA
Maximum terminal connection	25mm	25mm	25mm
Protection degree	IP20	IP20	IP20
Ambient temperature	-25°C-60°C	-25°C-60°C	-25°C-60°C
Storage environment	-40°C-75°C	-40°C-75°C	-40°C-75°C
Work environment	20%~90%	20%~90%	20%~90%



Intelligent Adjustable Time Switch



Brief of Product

QinJia intelligent adjustable time switch, mainly used in 50Hz single-phase 230V, current upto 63A , the product has overload, short circuit protection and countdown function. The products are widely used for water supply (drain) by water pumps, timing charging of battery cars, outdoor farmland irrigation, timing of household appliances, and are most suitable for in some local area that need to be restricted by time as well as for unattended electricity places. This product is currently the most advanced and most affordable economical product in China.

Product Description

- When the handle of the circuit breaker is facing upwards, it is closed, "closed" and power-on state, the green indicator light is on, and when the handle is facing downwards, it is turned off, "opened" and power-off state.
- The product works in two time periods, A: 60 minutes, please dial X10 minutes 1 , then the number 1 represents 10 minutes, B: 6 hours, please dial X1 hours 1 , at this time the number 2 represents 2 hours, the knob tip arrow cannot rotate to the buffer zone because the product cannot switch on here .

Main Technical Parameter

Type	QJDS-63
Rated voltage (V)	2P: 230/240, 4P: 400/415
Rated current (A)	32, 63
Poles	2P, 4P
Max. power (W)	12000
Time error	± 2 minute
Countdown range	2 minutes to 6 hours
Function	Overload protection, short circuit protection
Installation	Din Rail
Dimension (L×W×H) (mm)	81×72×85(2P), 81×108×85(4P)

Wiring Instruction

- Upper connected to 230V power circuit , left connected to fire line, the right connected to Zero Line. Don't connect it in wrong way.
- The lower outlet line of the timer is connected to electrical equipment power cord "red and blue two-color line", such as: chargers, motors, fans, rice cookers, refrigerators, neon lights, production equipment, household appliances, etc.;
- The left side is a miniature circuit breaker, and the right side is a knob setting timing tripping device.

Intelligent Digital Display Time Switch



Brief of Product

QinJia intelligent adjustable time switch, mainly used in 50Hz single-phase 230V, current upto 63A , the product has overload, short circuit protection and countdown function. The products are widely used for water supply (drain) by water pumps, timing charging of battery cars, outdoor farmland irrigation, timing of household appliances, and are most suitable for in some local area that need to be restricted by time as well as for unattended electricity places. This product is currently the most advanced and most affordable economical product in China.

Product Description

When the circuit breaker is connected to the 230V power supply, the LCD will light up and will display No.. After setting the time, manually close the circuit breaker, the circuit breaker will trip automatically after the set time is up. The product has an automatic memory function. If the power failure , the original set time will not change without manually change.

Main Technical Parameter

Type	QJDS-63
Rated voltage (V)	230/240
Rated current (A)	32, 63
Poles	2P, 4P
Max. power (W)	12000
Time error	1 second per day
Countdown range	1 minutes to 99 hours 59 minutes
Over voltage (V)	275V±5V
Under voltage (V)	175V±5V
Function	Overload protection, short circuit protection, over voltage and under voltage protection
Installation	Din rail
Dimension (L×W×H) (mm)	81×72×85(2P), 81×108×85(4P)

Wiring Instruction

- Upper connected to 230V power circuit , left connected to fire line, the right connected to Zero Line. Don't connect it in wrong way.
- The lower outlet line of the timer is connected to electrical equipment power cord "red and blue two-color line", such as: chargers, motors, fans, rice cookers, refrigerators, neon lights, production equipment, household appliances, etc.;
- The left side is a miniature circuit breaker, and the right side is a key setting timing tripping device.

Intelligent Digital Display Programmable Time Switch



Brief of Product

Qinjia intelligent adjustable time switch, mainly used in 50Hz single-phase 230V, current upto 63A , the product has overload, short circuit protection and timing function. It has 16 groups on and off time setting. The products are widely used for water supply (drain) by water pumps, timing charging of battery cars, outdoor farmland irrigation, timing of household appliances, and are most suitable for in some local area that need to be restricted by time as well as for unattended electricity places. This product is currently the most advanced and most affordable economical product in China.

Product Description

When the circuit breaker is connected to the 230V power supply, the LCD will light up and will display No.. After setting the time, manually close the circuit breaker, the circuit breaker will trip automatically after the set time is up. The product has an automatic memory function. If the power failure , the original set time will not change without manually change.

Main Technical Parameter

Type	QJDS-63
Rated voltage (V)	230/240
Rated current (A)	32, 63
Poles	2P
Max. power (W)	12000
Programmable groups	16 groups on and off
Function	Overload protection, short circuit protection, over voltage and under voltage protection
Installation	Din rail

Wiring Instruction

- Upper connected to 230V power circuit, left connected to fire line, the right connected to Zero Line. Don't connect it in wrong way.
- The lower outlet line of the timer is connected to electrical equipment power cord "red and blue two-color line", such as: chargers, motors, fans, rice cookers, refrigerators, neon lights, production equipment, household appliances, etc.;
- The left side is a miniature circuit breaker, and the right side is a key setting timing tripping device.

Fully Intelligent Water Level Controller

Brief of Product

The intelligent water level controller has joint control of upper and lower pools, sump drainage, and pressure tank water supply control. It can automatically replenish water tanks and drain sumps, and effectively prevent excessive water level overflow or no water, and prevent the pump from idling and burning the motor.

Operating Instructions

- Press the setting button to choose a working mode between permanent open, automatic and permanent close. When choose permanently open, the controller is always open, and the controller is permanently closed, it is always closed; when in automatic, the controller performs according to the water level of the water tank. The controller will open automatically when the water level is below the low water level , and it will close when the water tank is at the full water level. The setting key is valid 4 seconds after selection.
- On/Off key. On/Off key is only valid when the output is in automatic state. The controller can be turned on or off by the On/Off key. When it is in automatic state, turn on the controller, and the controller will work until the water is full and shut down.
- When the controller is working, the work indicator light is on; when the water tank water level is below the low water level or water shortage, the alarm light is on. If the pipeline is short of water, the motor runs idly, the automatic cycle detection will be turned off after a delay recognition.

Main Technical Parameter

Type	ZNSK-2
Rated voltage (V)	230/240
Rated current (A)	32, 63
Poles	2P
Max. power (W)	3000
Function	Overload protection, short circuit protection
Installation	Din Rail

Cautions

- After receiving the product, please check whether the packaging and appearance are in good condition , and check the model and specifications are the same as your order.
- According to the process connection, electrical connection and installation method provided by the product, install and wire the product correctly and reliably.
- Do not install with power on.
- In use process ,please pay attention to the technical specifications and use conditions of products,such as allowed medium temperature , overload pressure and supply voltage, etc.
- Pressure switch belongs to the precision component, please don't remove it by yourself , don't touch diaphragm with hard objects, so as not to cause damage to the product.
- During the installation process , pay attention to protect the product and don't install or remove by force, otherwise it will damage the product especially the mounting thread,
- During installation, please use the appropriate wrench to install or remove, do not forcibly twist the shell to tighten or disassemble by hand, otherwise, the damage are beyond the scope of the warranty.
- Electricity test after installation, if abnormal phenomenon appears, unless with regulating equipment and technology,please send products to our after-sales technical personnel.



Time Programmable Switch



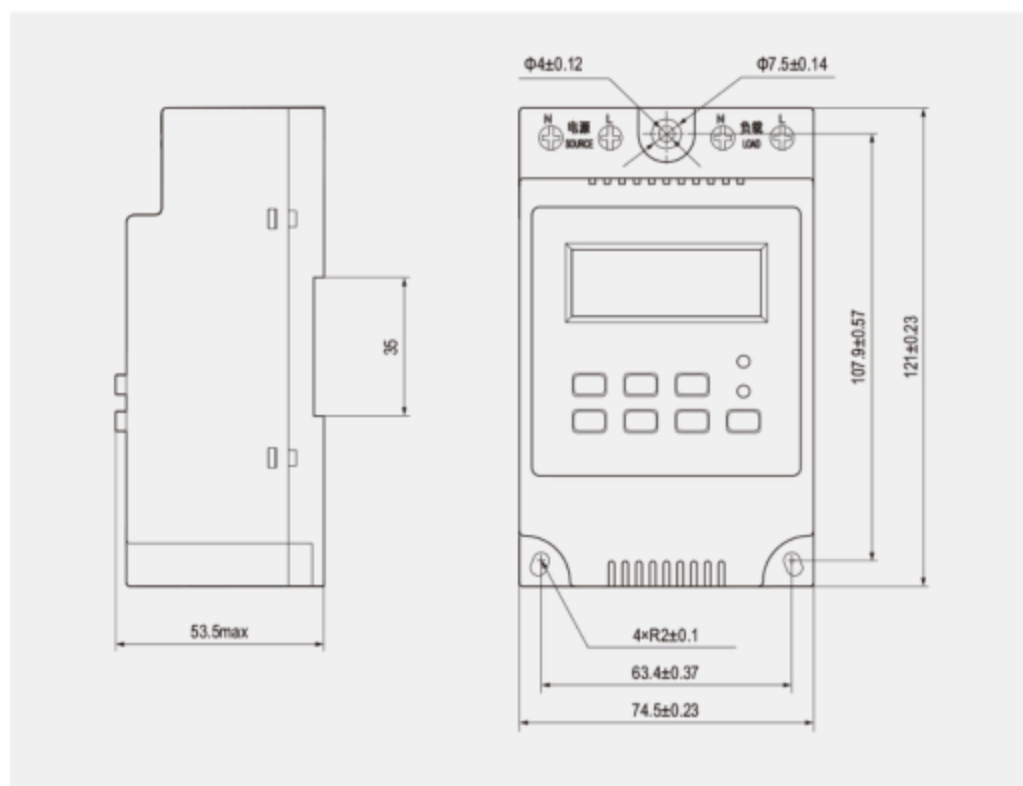
Brief of Product

This product can automatically turn on and off the power of various electrical equipment according to the time set by the user. Control objects can be street lights, neon lights, advertising sign lights, production equipment, radio and television equipment, and all power equipment and household appliances that need to be turned on and off regularly. Built-in 1.2V/40mA rechargeable battery, high precision, industrial grade chip, strong anti-interference. The built-in high-performance battery is used as a backup power source. In the event of a mains power failure, it can still maintain timing display and storage display and store various data for more than 12 months, which can basically meet the needs of various users. It is widely used in the automatic control of street lights, neon lights, electric bells, radio and television equipment, production equipment, electrical equipment and household appliances.

Main Technical Parameter

Model	KG316T
Voltage (V)	AC180-250
Time error	$\pm 2s/day (25^{\circ}C)$
No. of programmable	16 on 16 off
Power consumption	<4VA
Minimum setting range	1 minutes
Time setting range	1 minutes -168Hours
Contact capacity	Lamp load: 1000W Resistive: 16A/250VAC(Cos Φ =1) Inductive Load: 3A/250VA(COS Φ =0.6)
Operating temperature	-10~+40°C
Weight (g)	125
Mounting	DIN rail mounting

Dimension



Time Programmable Switch



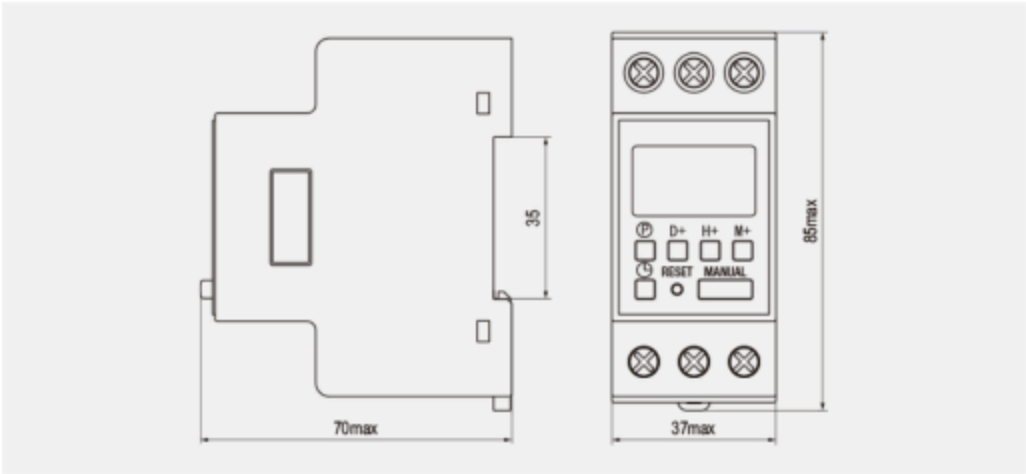
Brief of Product

This product can automatically turn on and off the power of various electrical equipment according to the time set by the user. Control objects can be street lights, neon lights, advertising sign lights, production equipment, radio and television equipment, and all power equipment and household appliances that need to be turned on and off regularly. Built-in 1.2V/40mA rechargeable battery, high precision, industrial grade chip, strong anti-interference. The built-in high-performance battery is used as a backup power source. In the event of a mains power failure, it can still maintain timing display and storage display and store various data for more than 12 months, which can basically meet the needs of various users. It is widely used in the automatic control of street lights, neon lights, electric bells, radio and television equipment, production equipment, electrical equipment and household appliances.

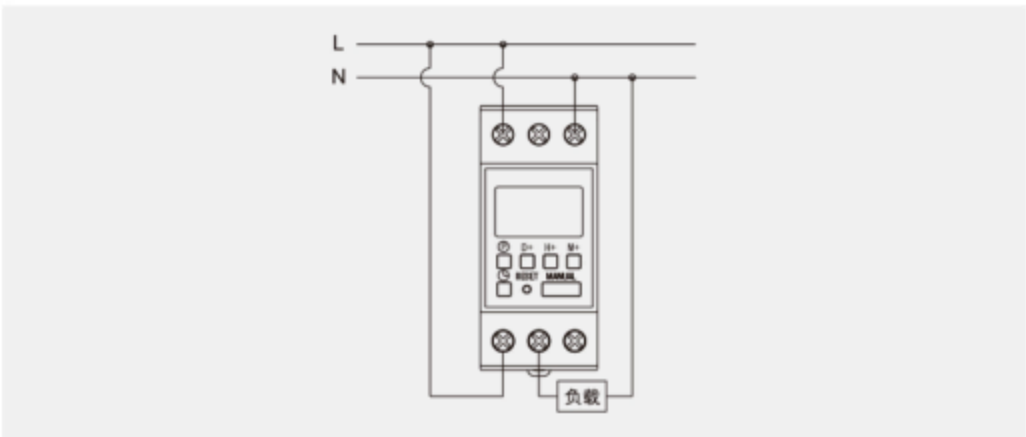
Main Technical Parameter

Model	THC-15
Voltage (V)	AC180-250
Time error	±2s/day (25°C)
No. of programmable	16 on 16 off
Power consumption	<4VA
Minimum setting range	1 minutes
Time setting range	1 minutes -168Hours
Contact capacity	Lamp load: 1000W Resistive: 16A/250VAC(Cosφ =1), Inductive Load: 3A/250VA(COSφ=0.6)
Operating temperature	-10~+40°C
Weight (g)	125
Mounting	DIN rail mounting

Dimension



Wiring Diagram



WiFi Reclosing Protector



Brief of Product

WiFi reclose protector is suitable for ac 50Hz, rated voltage 220V line to remote control, multi-person control, can be set according to Beijing time on and off.

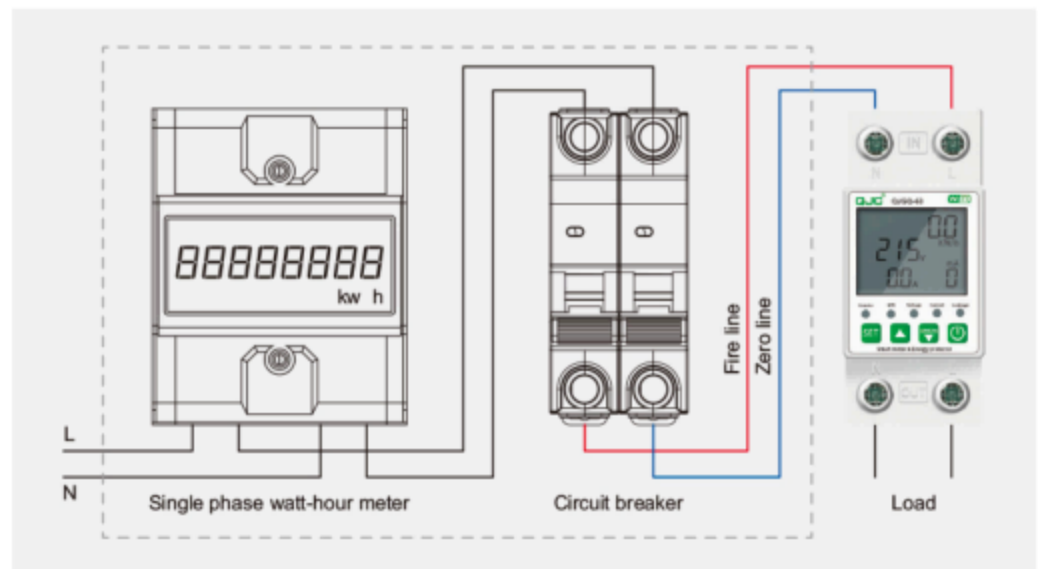
It is suitable for remote intelligent control of electrical equipment in various environments, such as families, schools, enterprises, municipal projects, street lights, farms, rental houses, water pumps, floor heating, water heaters, etc.

Features

- This product with over voltage protection, under voltage protection, overload protection, leakage protection, delay protection, electricity metering, time setting switch.
- Remote control can be realized only when the protection switch of remote control is in the state of networking. "On" "Off" set the current, voltage and leakage to limit the electricity consumption through the parameters of mobile phone APP.
- This product is not short circuit protection, please use together with air breaker, to prevent the line or equipment short circuit fire caused unnecessary loss.
- When the device is not connected to the network, it can be connected to the device through bluetooth of mobile phone within 20 meters to realize remote control "On" and "Off".
- Product protector switch width 36mm, 2 placeholders.
- Without the need for remote control, the device can also realize automatic closing, over-voltage, under-voltage, leakage can also play a protection.
- Product parameter setting, current 1~63A can be set, over voltage 250~300V, under voltage 150~190V, leakage 10~99mA (can close the leakage function), delay time 5~90 seconds can be set (can only be set on the switch).
- Product switch setting long press the setting button for three seconds to enter the setting procedure, short press the query, the leakage will not automatically close after three times, the display is OFF, please check the line or equipment before using.

Main Technical Parameter

Model	QJGQ-63
Rated voltage (V)	AC220
Rated current (A)	63
Rated frequency (Hz)	50/60
Rated power (W)	63A: Resistive load $\leq 13000W$; Inductive load $\leq 6000W$
Power consumption (W)	<2
Ambient temperature	$-25\sim+60^{\circ}\text{C}$
Environmental humidity	$<95\%$
Dimension	$36\times 85\times 49\text{mm}$



Note: This switch cannot be used as a main breaker. Please install an miniature circuit breaker with overload and short-circuit protection function before this product.

WiFi Timing Remote Control Switch



Brief of Product

QJWiFi-63 is suitable for AC 50Hz, rated voltage 220V remote control and multi-person control, according to different needs set the timing mode that needs to be turned on (countdown timing, cycle timing, etc).

Suitable for electrical equipment in various environments, such as homes, schools, enterprises, municipal engineering, street lights, farms, rental houses, water pumps, radiant floor heating water heater, and other places.

Features

Mobile phone remote control

The switch is placed where there is Wifi signal, and the product can be controlled with Wifi signal.

Multiple timing control, multi-person control, status feedback.

Timing control

According to different needs on Tuya smart APP

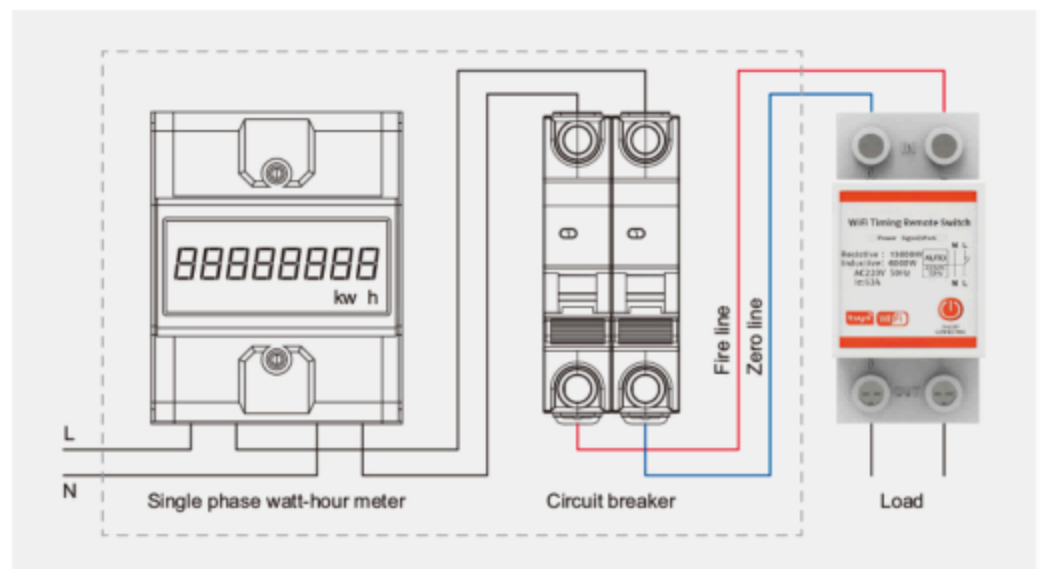
Set the timing mode that needs to be turned on (countdown, timing, cycle timing, etc.)

Manual control

Manual control can be realized on the switch

Main Technical Parameter

Model	QJWiFi-63
Rated voltage (V)	AC220
Rated current (A)	63
Rated frequency (Hz)	50/60
Rated power (W)	Resistive load $\leq 13000W$; Inductive load $\leq 6000W$
Power consumption (W)	< 2
Ambient temperature	$-25 \sim +60^{\circ}C$
Environmental humidity	$< 95\%$
Installation method	Din Rail
Control method	Manual/mobile control
Dimension	$36 \times 85 \times 49mm$



Note: This switch cannot be used as a main breaker. Please install an miniature circuit breaker with overload and short-circuit protection function before this product.

Intelligent Remote Control Switch

Brief of Product

The high-power remote control switch is suitable for remote control of electrical equipment with working voltage AC220V/380V, and the remote control distance supports 100-500 meters. The high-power remote control switch 380V control has the function of three-phase anti-phase loss and anti-burnout motor. Wireless remote control switch is suitable for garage door control, light control, electric door,

Remote control curtains, lifting equipment, motor control, water pump control, agricultural greenhouse control, feeder, household appliances, projection lift control and security industry and other fields.

Features

- The high-power silver point relay can directly control the electromechanical equipment.
- It can load large current, and can remotely switch the main household power supply, and easily control the household electricity.
- The signal penetration is strong, the remote control distance is long, and it can penetrate the wall in 360 degrees.
- The 63A power module adopts grid isolation transformer, the 40A adopts electric independent power module, and the output adopts high-power silver point relay to ensure the stable performance of the product.
- The IP65 outdoor rain-proof suit can be used outdoors without fear of sun and rain.
- The remote control can be controlled in multiple ways and can be paired with multiple switches.

Main Technical Parameter

Model	QJYK-63/63A
Rated voltage (V)	AC220/380
Rated current (A)	63
Rated power (W)	40A: Resistive load $\leq 8000W$; Inductive load $\leq 3000W$ 63A: Resistive load $\leq 13000W$; Inductive load $\leq 6000W$
Remote control code	315MHz
Remote control distance	100-500m
Dimension	36×83×50mm

Intelligent Remote Control Switch

Brief of Product

The high-power remote control switch is suitable for remote control of electrical equipment with working voltage AC220V/380V, and the remote control distance supports 500-1500 meters. The high-power remote control switch 380V control has the function of three-phase anti-phase loss and anti-burnout motor. Wireless remote control switch is suitable for garage door control, light control, electric door, Remote control curtains, lifting equipment, motor control, water pump control, agricultural greenhouse control, feeder, household appliances, projection lift control and security industry and other fields.

Features

- 3 meters long high-gain suction cup antenna, 500-1500 meters long-distance remote control;
- Both manual and remote control;
- 6000W high power control;
- High sensitivity receiving module;
- Remote control and receiver can be paired by themselves.

Main Technical Parameter

Model	QJYK-63/63A
Rated voltage (V)	AC220/230
Rated current (A)	63
Rated power (W)	Resistive load: 6000W; Inductive load: 3000W
Remote control code	315MHz
Remote control distance	500-1500m
Dimension	36×83×50mm

Intelligent Remote Control Switch

Brief of Product

The high-power remote control switch is suitable for remote control of electrical equipment with working voltage AC220V/380V, and the remote control distance supports 100-500 meters. The high-power remote control switch 380V control has the function of three-phase anti-phase loss and anti-burnout motor. Wireless remote control switch is suitable for garage door control, light control, electric door, Remote control curtains, lifting equipment, motor control, water pump control, agricultural greenhouse control, feeder, household appliances, projection lift control and security industry and other fields.

Features

- Long distance: Adopt Imported ultra-high frequency three-level signal amplifying and launching tube , and the general remote control distance is between 500-1000 meters in open areas (different environments, the distance is also different, the actual use depends on the size of the environmental interference), there are obstacles Under the circumstances, the distance will be shortened.
- Switching power supply step-down circuit: The switching power supply chip LNK304 produced by the American POWER company is used to control the power supply, with quality assurance, stability and durability.
- Wide voltage: suitable for voltages between AC85V-260V to ensure long-term stable operation in circuits with different voltage environments.
- High-power: 30A relay is used to ensure long-term stable control of high-power electrical appliances. No need AC contactor, and it can directly control water pumps, motors, lamps, car washers and other electrical appliances within 2000W.
- High sensitivity: The signal reception adopts the real superheterodyne RXB8 module, the sensitivity is -114dBm, the sensitivity and anti-interference ability are far from the super regenerative and ordinary superheterodyne modules on the supermarket surface, and the remote control distance is longer and more stable.
- Learning code matching: You can learn to code the same frequency remote control at will, (don't worry if the remote control is lost during use, just buy a remote control and learn it, you don't need to replace the whole set, which greatly saves the user's cost) .
- Easier operation: There are 2 buttons on the remote control, one button is on and the other button is off, which is convenient and easy to use.
- Non-interference: using digital coding, there will be no mutual control phenomenon between products of the same model with neighbors. (That is, multiple sets of products of the same model can be used in the same environment without mutual control.)

Main Technical Parameter

Model	QJYK-63/63A
Rated voltage (V)	AC220/380 (AC380V must add AC Contactor)
Rated current (A)	63
Rated power (W)	Resistive load $\leq 2000W$; Inductive load $\leq 1000W$
Remote control code	315MHz
Remote control distance	500-1000m
Dimension	55×92×23mm

Intelligent Remote Control Socket



Brief of Product

- Built-in 30A relay, easy to control high-power electromechanical equipment, water pumps and motors within 2200 watts can be directly controlled.
- The independent isolation transformer has the function of isolation current surge protection, strong anti-interference performance, high stability, suitable for inductive loads such as water pumps, motors, etc., and can run for a long time in a complex circuit environment.
- Long-distance remote control, can penetrate the wall.
- Flame-retardant material, durable and safe, and the remote control is 100 meters.
- Contains a new generation of smart chips, low power consumption, more stable socket performance and long service life.
- Wide application: suitable for lamp control, home appliance control, motor control, water pump control, fan control, etc.

Main Technical Parameter

Model	QJYK-63/63A
Rated voltage (V)	AC220/380
Rated current (A)	30
Rated power (W)	Resistive load $\leq 2000W$; Inductive load $\leq 1000W$
Remote control code	315MHz
Remote control distance	100m

ADC Series Modular Socket

Brief of Product

ADC modular socket is suitable for AC 50Hz, rated working voltage to 440V, and rated current not exceeding 32A. It is mainly used in homes, offices, farms, light industries and other places. It can be used by non-professionals, and in most cases it is compatible with Electricity and equipment are connected.

The product complies with GB 2099.1, GB1002 and GB 1003 standards.

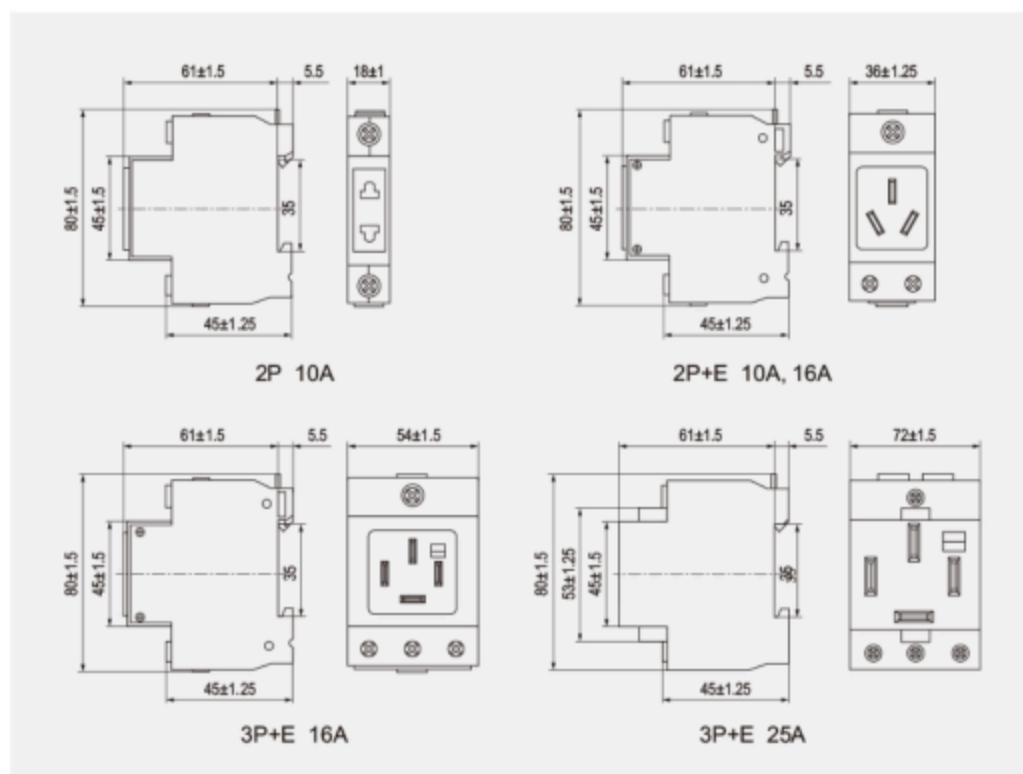
Structural Features

ADC modular socket has good contact reliability, suitable for rail installation, and can be used in conjunction with other modular terminal electrical appliances.

Main Technical Parameter

Model	Poles	Rated voltage (V)	Rated current (A)	Operating life (time)
AC30-103	2P	250	10	5000
AC30-108	2P+E	250	10	5000
AC30-110	2P+E	250	16	5000
AC30-416	3P+E	440	16	5000
AC30-451	3P+E	440	25	5000
AC30-10530	4P	250	10	5000
AC30-10540	4P	250	16	5000

Dimension



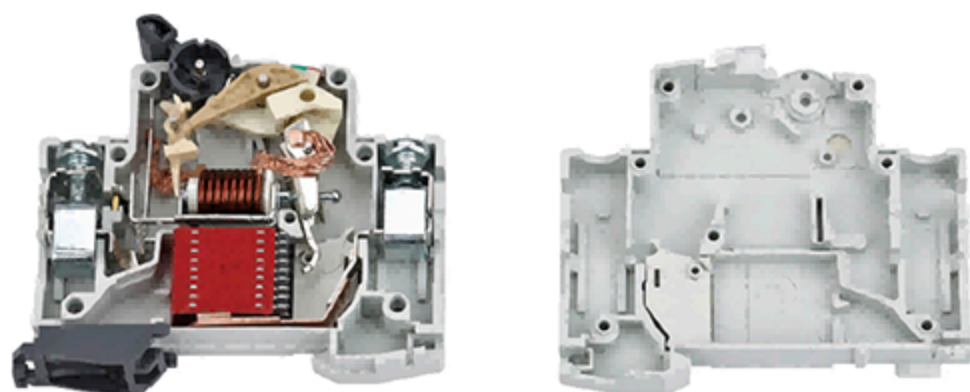
Ordering Instructions

When placing an order, the user must specify: product model specification, rated current, number of poles, and quantity.

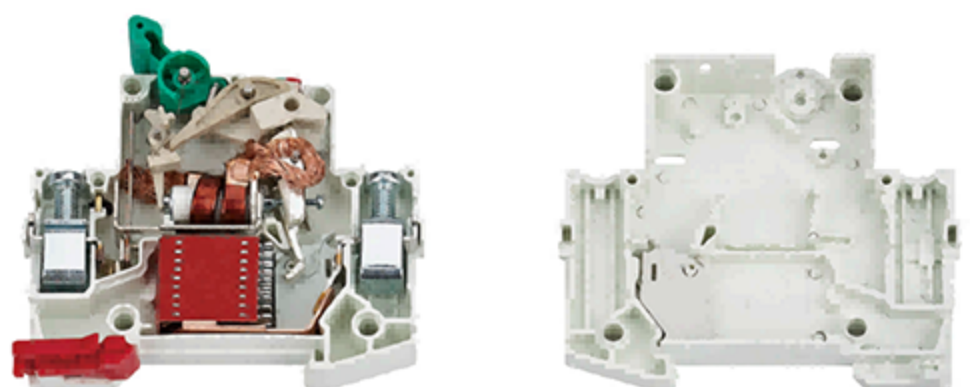
Example: Order 500 sets of 2P 10A ADC modular sockets. Should be written as: AC30 2P 10A 500 units.

Miniature Circuit Breaker SKD parts

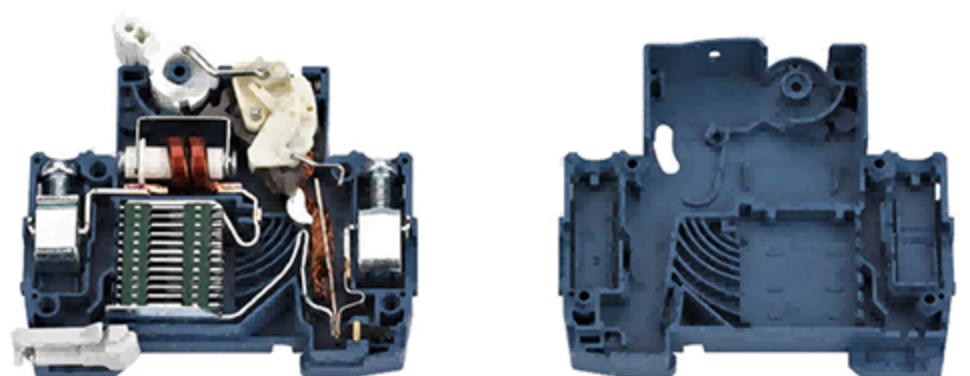
MG65N Series (4kA)



MCB Series (4kA)



BD1 Series (6kA)



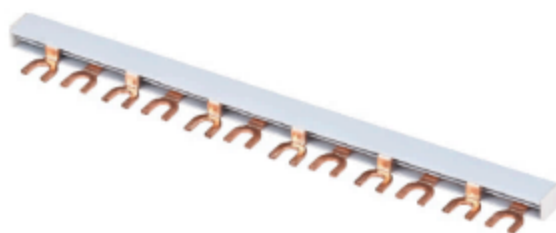
Accessory

QJ201D Series Busbar (C45 1P~4P)



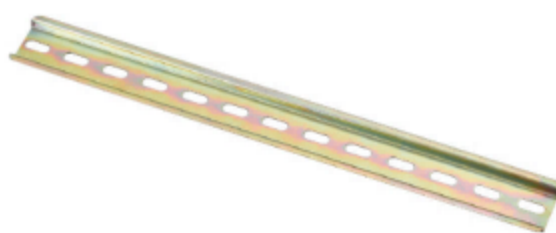
Model	Thickness (mm)	Cross section (mm ²)	Current (A)	Width (mm)
QJ201D-1	1.0 ± 0.05	6	32	5 ± 0.2
QJ201D-2	1.2 ± 0.05	6	40	5 ± 0.2
QJ201D-3	1.4 ± 0.05	10	63	7 ± 0.2
QJ201D-4	1.4 ± 0.05	13	63	9 ± 0.2
QJ201D-5	1.8 ± 0.05	16	100	9 ± 0.2

QJ301 Series Busbar (U Type 1P~4P)



Model	Thickness (mm)	Cross section (mm ²)	Current (A)	Width (mm)
QJ301-1	1.2	6	40	5
QJ301-2	1.5	10	63	7
QJ301-3	1.5	13	70	9
QJ301-4	1.5	16	80	11

DIN Rail Series



Model	Width (mm)	Thickness (mm)	Hole pattern (mm)
HGK-01	35	0.9, 1.0, 1.2	4.0 × 12, 4.0 × 15, 6.0 × 12, 6.0 × 15

Memo

