Modular DIN Rail

YCB6 series

Page A03

YCB6-63

Miniature Circuit Breaker

Page A08

YCB6HLN-63

Residual Current Circuit Breaker with Over Current Protection

Page A10

YCB6HLE-63

Residual Current Circuit Breaker with Over Current Protection

Page A12

YCB6N-32

Miniature Circuit Breaker DPN

Page A14

YCB6-125

Miniature Circuit Breaker

Page A17

YCB1LE-125

Residual Current Circuit Breaker with Over Current Protection

Page A19

YCH6Z-125

Isolating Switch

Page A21

YCB6RL-100

RCCB Electromagnetic

YCB7 series

Page A25

YCB7-63N

Miniature Circuit Breaker

Page A31

YCB7LE-63Y

Residual Current Circuit Breaker with Over Current Protection

Page A33

YCB7LE-63

Residual Current Circuit Breaker with Over Current Protection

Page A35

YCB7-125N

Miniature Circuit Breaker

Page A38

YCB7LE-125

Residual Current Circuit Breaker with Over Current Protection

Page A40

YCB7RL-100

RCCB Electromagnetic

Page A42

YCH7-125N

Miniature Circuit Breaker

Page A44

YCD7-125

Residual Current Circuit Breaker with Over Current Protection

Modular DIN Rail

YCB9 series

Page A48

YCB9-80M/H

Miniature Circuit Breaker

Page A51

YCB9 Series

Circuit Breaker Accessories

Page A53

YCB9-63

Miniature Circuit Breaker

Page A55

YCB9-63R

Miniature Circuit Breaker

Page A59

YCB9N-40

Miniature Circuit Breaker DPN

Page A61

YCB9NL-40

Residual Current Circuit Breaker with Over Current Protection

Page A63

YCB9L-40

Residual Current Circuit Breaker with Over Current Protection

Page A66

YCB9HL-63

Residual Current Circuit Breaker with Over Current Protection

Page A69

YCB9LE-80M

Residual Current Circuit Breaker with Over Current Protection

Page A71

YCB9RL-100

RCCB Electromagnetic

Page A73

YCB9-125

Miniature Circuit Breaker

Page A75

YCH9-40

Isolating Switch

Page A77

YCH9-125

Isolating Switch

Page A79

AFDD

Arc Fault Detection Devices

Smart circuit breaker

Page A85

YCB9ZF-100AP 4G

Page A85

YCB9ZF-100AP WIFI

Page A85

YCB9ZF-100W WIFI

Page A92

YCSi

Smart switch controller

Page A94

YCWF-Y02 WIFI

Modular DIN Rail

Changeover switch

Page A98

YCBZ-40

Page A99

YCBZ-63

Page A100

YCBZ-125

Indicator

Page A101

ADM

Page A102

YCD9

Voltage meter

Page A103

YCMV3

Overvoltage and undervoltage protector

Page A105

YC6VA

Overvoltage and Under-voltage Protector

Page A107

YC6VAZs

Electronic phase switch

Page A109

YC6VAs/YC6Vs

Overvoltage and Under-voltage Protector

Page A114

YC7VA

Overvoltage and Under-voltage Protector

Page A119

YC9VA

Voltage protector with current control

Page A122

YC9VA-3

Voltage protector with current control

Page A126

YCZF6

Self-recovery Overvoltage and Undervoltage Protector

Modular socket

Page A128

TMS-5

Surge protection device

Page A129

YCS6-B

(30~60kA)
(40~80kA)
(60~100kA)

Page A130

YCS6-C

(20~40kA)
(15~30kA)

Page A131

YCS6-D

(10~20kA)
(5~10kA)

Page A132

YCS7N

Modular DIN Rail

Modular contactor

Page A136

YCCH6

Automatic type

Page A136

YCCH7

Manual automatic integration

Consumer box

Page A139

YCX1

Surface Mount Distribution Box (IP40)

Page A140

YCX2

Flush Mount Distribution Box (IP40)

Page A141

YCX3

Surface Mount Distribution Box (IP40)

Page A142

YCX6

Lighting Distribution Box (IP40)

Page A143

HA

Water proof Distribution Box (IP65)

Page A144

SH-Q3

Water proof Junction Box (IP65 without hole IP54 with hole)

Page A145

YCS1

Enclosure (IP65)

Busbar

Page A148

Busbar Pin

Page A149

Busbar Fork

Low Voltage fuse

Page A151

RT18

Page A152

RT18L

Plug-in Circuit Breaker

Page A153

YCLP

Multimedia distribution box

Page A155

YCX4

YCB6 Series

- **Reliable performance for more safety**
- **Convenient to use**

CNC
ELECTRIC

YCB6 Series MCB

Overview

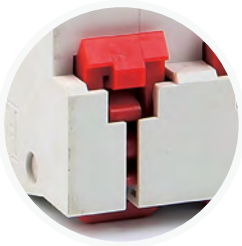
A

High flame retardant,high temperature resistance and impact resistance

Magnetic blowing arc extinguishing device

Wind groove design beside for rapid heat dissipation

Contact indication window, easy to see ON/OFF status



Easy installation and closely clip

Ergonomic designed handle for more comfortable operation

YCB6-63 MCB

A

General

YCB6-63 miniature circuit breaker(circuit breaker) is applicable to the circuit with AC50Hz/60Hz, rated voltage of no more than 400V, rated current up to 63 A for overload protection and short circuit protection. This product can be applied to various places such as industrial, commercial, tall buildings, and residential houses.

Standard: IEC60898-1

Type designation

YC B 6 - 63 1P C 63A

- 63A — Current
- C — Tripping type
- 1P — 1P,2P,3P,4P
- 63 — Breaking No: 3kA H: 4.5kA
- 6 — Series code
- B — Miniature circuit breaker
- YC — Company code

Modular DIN Rail

YCB6-63 MCB

Technical data

Type	Standard		IEC/EN 60898-1
Electrical features	Rated current In	A	1.2,4,6,10,16,20,25,32.40,50,63
	Poles	P	1, 2, 3, 4
	Rated voltage Ue	V	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	3000,4500
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind. Freg. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B, C, D
Mechanical features	Electrical life	t	6000
	Mechanical life	t	20000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average≤35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/ bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top/ bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip
	Connection		From top or bottom

Selection

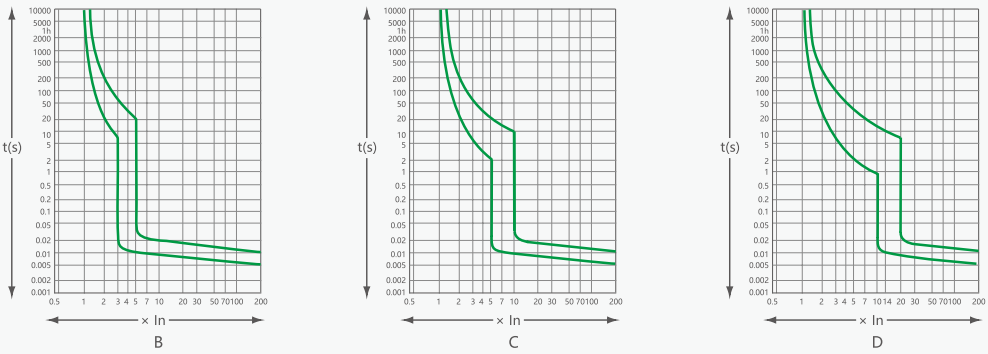
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
D	10In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	
D	20In	t < 0.1s	

YCB6-63 MCB

A

Curve



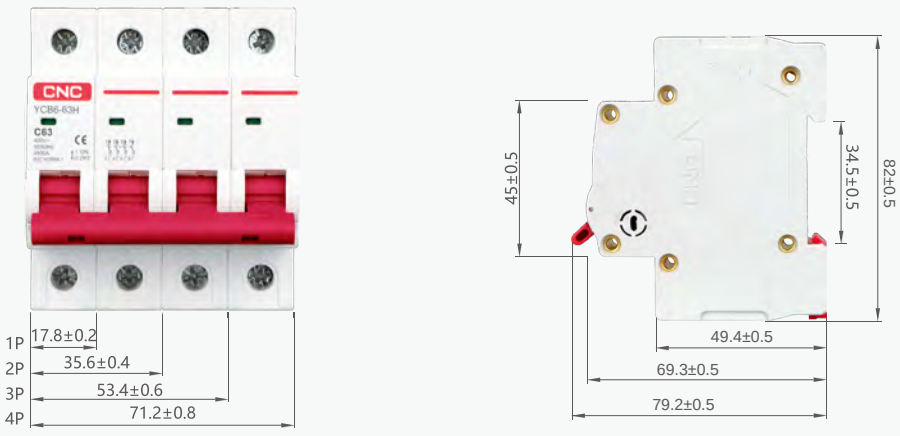
Temperature drop correction table

The maximum allowable current of the circuit breaker is related to the ambient temperature of the circuit breaker. The ambient temperature refers to the temperature in the distribution box or switch cabinet where the circuit breaker is installed. The reference temperature of various circuit breakers can be found in the values of the colored rows in the table.

Product standard: GB/T10963.1 IEC60898-1 (household standard)

temperature(°C)	-5	0	5	10	15	20	25	30	35	40	45
Rated current											
1A	1.16	1.14	1.11	1.09	1.07	1.05	1.02	1.00	0.98	0.95	0.92
2A	2.30	2.26	2.22	2.18	2.13	2.08	2.04	2.00	1.96	1.92	1.88
4A	4.72	4.63	4.53	4.43	4.32	4.22	4.11	4.00	3.89	3.77	3.65
6A	6.97	6.84	6.71	6.57	6.43	6.29	6.15	6.00	5.85	5.69	5.53
10A	12.25	11.95	11.65	11.34	11.02	10.69	10.35	10.00	9.64	9.26	8.86
16A	18.72	18.35	17.98	17.60	17.22	16.82	16.42	16.00	15.57	15.13	14.68
20A	23.24	22.80	22.36	21.91	21.45	20.98	20.49	20.00	19.49	18.97	18.44
25A	29.12	28.57	28.01	27.43	26.85	26.24	25.63	25.00	24.35	23.69	23.01
32A	37.18	36.49	35.78	35.05	34.32	33.56	32.79	32.00	31.19	30.36	29.50
40A	46.66	45.77	44.86	43.93	42.98	42.01	41.02	40.00	38.96	37.88	36.78
50A	58.57	57.43	56.26	55.06	53.84	52.59	51.31	50.00	48.65	47.27	45.84
63A	74.73	73.17	71.57	69.94	68.27	66.56	64.81	63.00	61.14	59.22	57.24

Overall and mounting dimensions(mm)



Modular DIN Rail

YCB6-63 MCB

Genreal

This series circuit breaker accessories are used in household, building and other electrical circuits with YCB6-63 circuit breaker cooperated for remote control and diferent accessories selected for different needs, featured with auxiliary signal, opening and closing status indication, and even alarm signal function for better protection on the circuit, personal and property safety.

Standard: IEC60947-5-1

Type designation

OF SD MV + MN MX MX + OF

- MX + OF — Shunt release + Auxiliary contact
- MX — Shunt release
- MV + MN — Under-voltage and over-voltage release
- SD — Alarm contact
- OF — Auxiliary contact

Function

Accessory name	Code	Function
Auxiliary contact	OF	Provide auxiliary signal and control auxiliary circuit
Alarm contact	SD	When the circuit breaker is due to a fault, the alarm signal would work and indicate.
Shunt release	MX	Over the range of 70% ~ 110% of the rated control supply voltage, the release should trip the circuit breaker to protect the circuit.
Shunt release + Auxiliary contact	MX+OF	Remote control of circuit and control the auxiliary circuit by auxiliary contact.
Over-voltage and under-voltage release	MV+MN	When the rated voltage 230V increase to 270V+/-5% or reduce to 170V+/-5%,the circuit breaker should trip for over-voltage and under-voltage protection.

Installation

All the electrical accessories should be installed at the side of the circuit breaker , details are shown in the fiqure below. (Remark: each MCB can be installed with 3 (MAX.)indicating accessories.)

Auxiliary contact | Alarm contact | Shunt release | Shunt release + Auxiliary contact | Over-voltage and under-voltage release | Circuit breaker

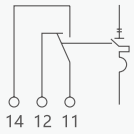
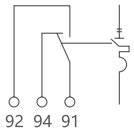
Operating Conditions

- Ambient temperature:-5°C ~ +40°C;
- Altitude: Below 2000m;
- Environment: The medium should be no risk of blasting and can't corrode the metal and damage insulating gas as well asconductive dust;
- Installation: 35mm standard din rail.

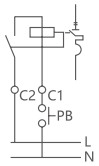
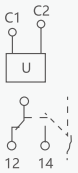
YCB6-63 MCB

Technical data

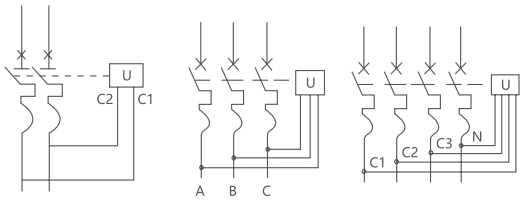
Auxiliary contact and Alarm contact technical parameters

Accessory name	Rated current(A)			Number of contacts	Diagram
	AC 380V	AC 220V	AC 110V		
Auxiliary contact OF	3	6	1	1NO 1NC	
Alarm contact SD	3	6	1	1NO 1NC	

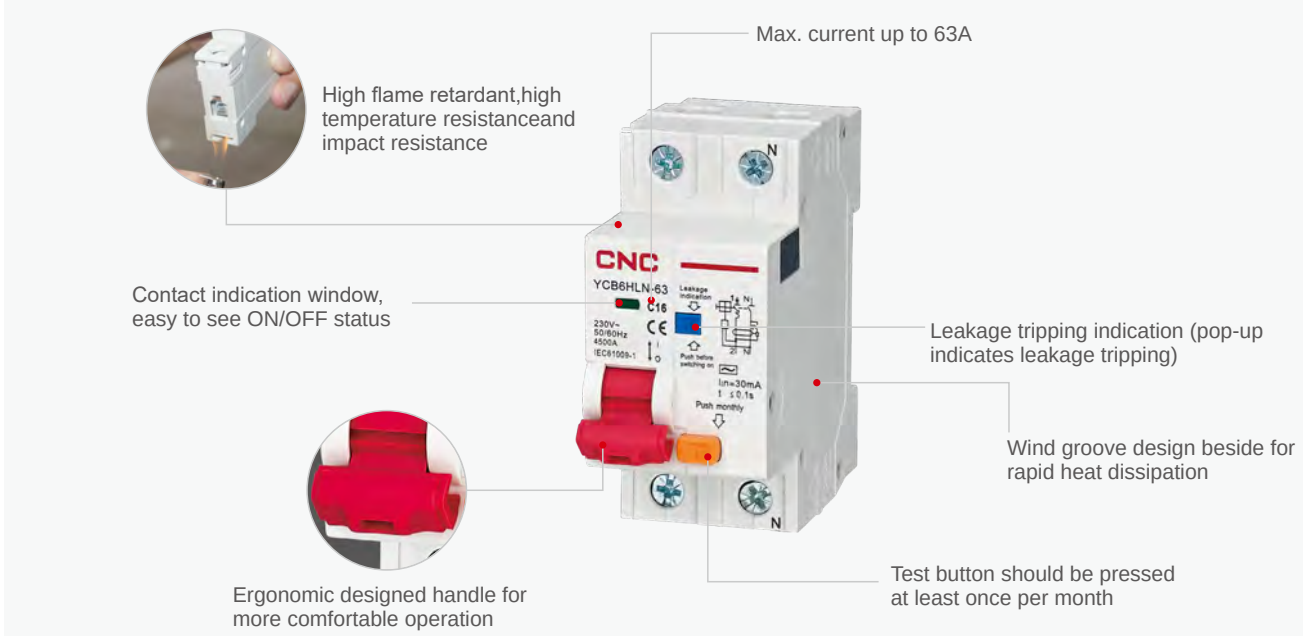
Shunt release, Shunt release + Auxiliary contact technical parameters

Accessory name	Rated insulation voltage Ui	Rated control voltage Us	Tripping power consumption (W or VA)	Operation voltage Us	Diagram
Shunt release MX	415V	AC/DC:220~380V 110~220V	240	0.7~1.1	
		AC/DC:24~48V	120		
Shunt release + Axiliary contact MX+OF	415V	AC/DC:220~380V 110~220V	240	0.7~1.1	
		AC/DC:24~48V	120		

Under-voltage & Over-voltage Release technical parameters

Accessory name	Rated insulation voltage Ui	Operation voltage Us	Diagram
Shunt release MX	AC230V	Under-voltage:170V±5% Over-voltage:270V±5%	 2 phase 3 phase 3 phase 4 wire
Shunt release + Axiliary contact MX+OF	AC380V	Under-voltage:300V±5% Over-voltage:460V+5%	

YCB6HLN-63 RCBO Eletronic



Genreal

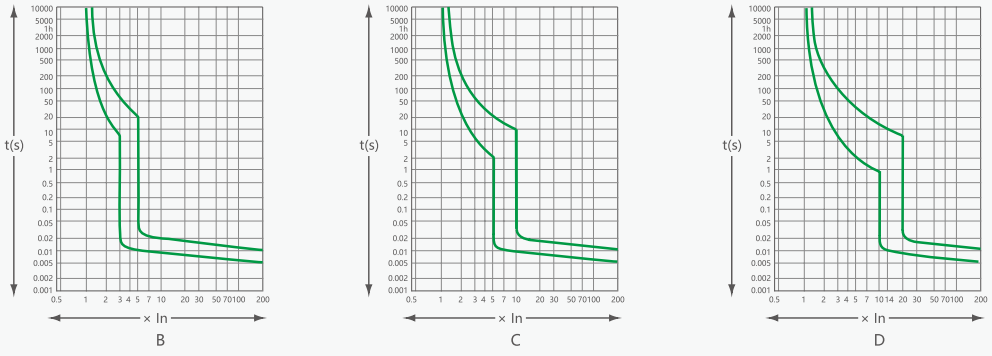
1. Protection against overload and short-circuit currents.
2. Protection against the effects of sinusoidal alternating earth fault currents.
3. Protection against indirect contacts and additional protection against direct contacts.
4. Protection against fire hazard caused by insulation faults.
5. Used in residential building.
6. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In, type D(10-20)In.

Selection

Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
D	10In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	
D	20In	t < 0.1s	

Curve



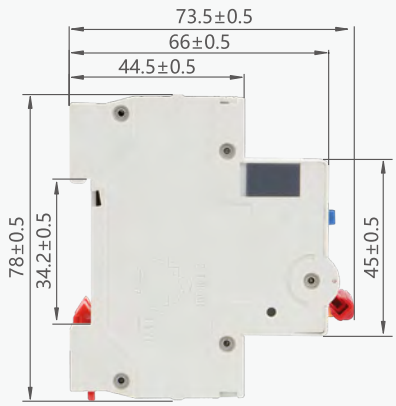
Modular DIN Rail

YCB6HLN-63 RCBO Eletronic

Technical data

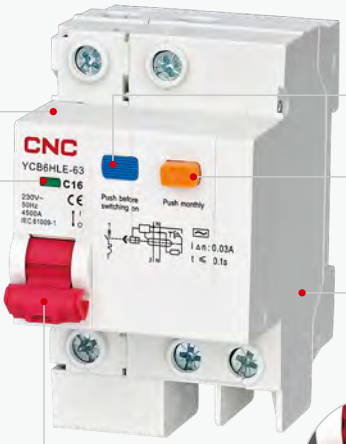
Type	Standard		IEC/EN 61009/1
Electrical features	Poles	P	1P+N
	Type(wave form of the earth leakage sensed)		AC, A
	Thermomagnetic release characteristic		B, C, D
	Rated current In	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Rated voltage Ue	V	230
	Rated sensitivity IΔn	A	0.03, 0.1, 0.3
	Rated residual making and breaking capacity IΔm	A	500(In>40A) 630(In>40A)
	Rated short-circuit capacity Icn	A	4500
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freg.for 1min	Kv	2
	Insulation voltage Ui	V	500
	Pollution degree		2
Mechanical features	Electrical life	times	4000
	Mechanical life	times	10000
	Contact position indicator		Yes
	Protection degree	times	IP20
	Ambient temperature(with daily average≤35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/ bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top/ bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions(mm)



YCB6HLE-63 RCBO Eletronic

High flame retardant,high temperature resistanceand impact resistance



Leakage tripping indication (pop-up indicates leakage tripping)

Test button should be pressed at least once per month

Wind groove design beside for rapid heat dissipation

Contact indication window, easy to see ON/OFF status

Ergonomic designed handle for more comfortable operation

Genreal

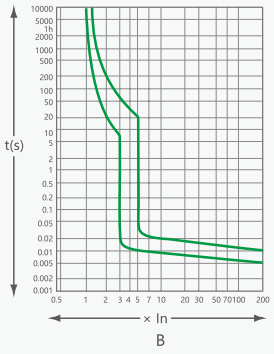
1. Protection against overload and short-circuit currents.
2. Protection against the effects of sinusoidal alternating earth fault currents.
3. Protection against indirect contacts and additional protection against direct contacts.
4. Protection against fire hazard caused by insulation faults.
5. Used in residential building.
6. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In, type D(10-20)In.

Selection

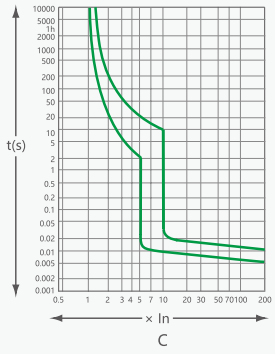
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
D	10In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	
D	20In	t < 0.1s	

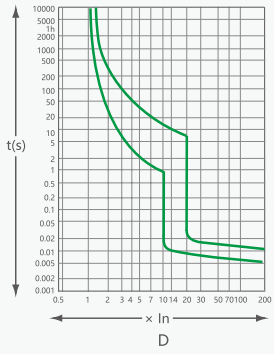
Curve



B



C



D

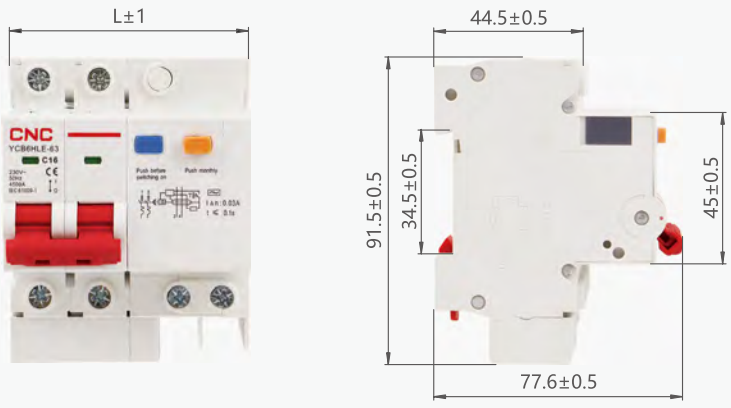
Modular DIN Rail

YCB6HLE-63 RCBO Eletronic

Technical data

Type	Standard		IEC/EN 61009/1
Electrical features	Poles	P	1P+N, 2,3,3P+N,4
	Type(wave form of the earth leakage sensed)		AC
	Thermomagnetic release characteristic		B, C, D
	Rated current In	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Rated voltage Ue	V	230V AC(1P+N,2P) 400V AC(3P,3P+N,4P)
	Rated sensitivity IΔn	A	0.03, 0.1, 0.3
	Rated residual making and breaking capacity IΔm	A	500(In>40A) 630(In>40A)
	Rated short-circuit capacity Icn	A	4500
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freg.for 1min	Kv	2
	Insulation voltage Ui	V	500
	Pollution degree		2
Mechanical features	Electrical life	times	4000
	Mechanical life	times	10000
	Contact position indicator		Yes
	Protection degree	times	IP20
	Ambient temperature(with daily average≤35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/ bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top/ bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions(mm)



Poles	L(mm)
1P+N	53.3
2P	71.1
3P	101.9
3P+N	114.9
4P	132.7

YCB6N-32 MCB DPN

High flame retardant,high temperature resistanceand impact resistance

Anti-slip design handle for more comfortable operation

DPN Max current up to 32A

Genreal

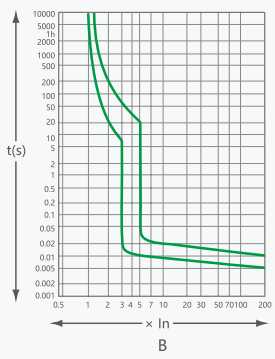
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure.
5. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In

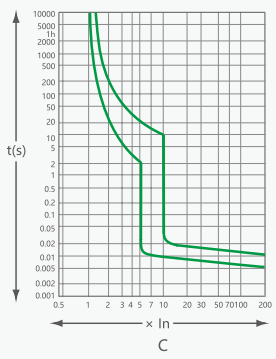
Selection

Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
D	10In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	
D	20In	t < 0.1s	

Curve





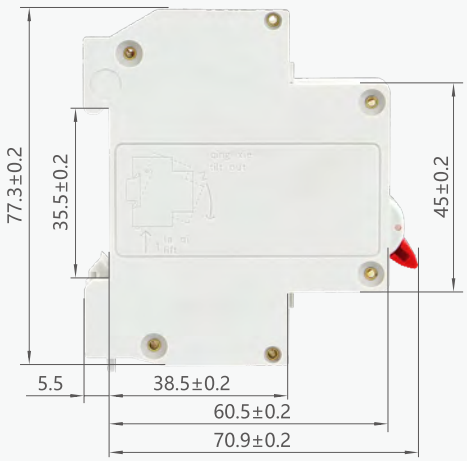
Modular DIN Rail

YCB6N-32 MCB DPN

Technical data

Type	Standard		IEC/EN 60898/1
Electrical features	Rated current In	A	6, 10, 16, 20, 25, 32
	Poles	P	1P+N
	Rated voltage Ue	V	230
	Insulation voltage Ui	V	500
	Rated frequency	HZ	50/60
	Rated breaking capacity	A	3000
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freg.for 1min	kV	2
	Pollution degree		2
	Thermomagnetic release characteristic		B, C
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Protection degree		IP20
	Reference temperature for setting of therrmal element	°C	30
	Ambient temperature(with daily averages35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top / bottom for cable	mm^2	16
		AWG	18-5
	Terminal size top / bottom for busbar	mm^2	10
		AWG	18-5
	Tightening torgue	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions(mm)



Modular DIN Rail

YCB6-125 MCB

High flame retardant,
high temperature resistance
and impact resistance

With contact indication window,
easy to see ON/OFF status.

Rated current
(6A, 10A, 16A, 25A,
32A,40A, 50A, 63A,
80A, 100A, 125A)

Short-circuit breaking
capacity Icn 6000A

General

YCB6-125 miniature circuit breaker(circuitbreaker)is applicable to the circuit with AC50Hz/60Hz, rated voltage of no more than 400V, and rated current from 6A to 125A for overload protection and short circuit protection. This product can be applied to various places such as industrial, commercial, tall buildings,and residential houses.

Standard: IEC 60947-2, IEC 60898-1.

Features

1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure.

Type designation

YCB6 -125 □ □ □

- Rated current
- Release characteristic
- Number of poles
- Shell frame
- Product name

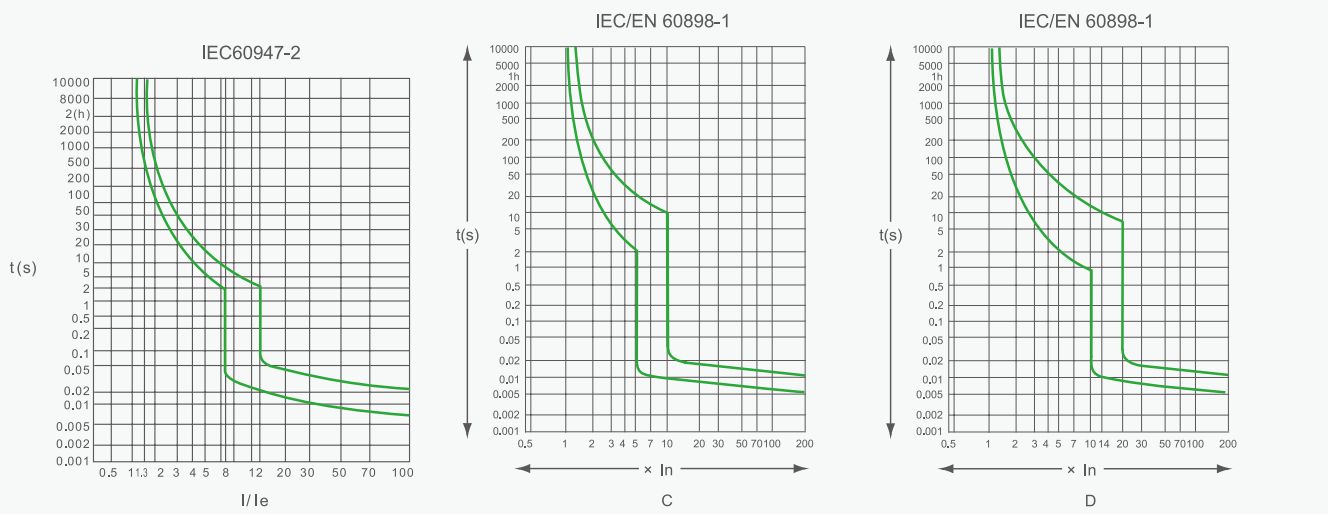
Modular DIN Rail

YCB6-125 MCB

Specifications

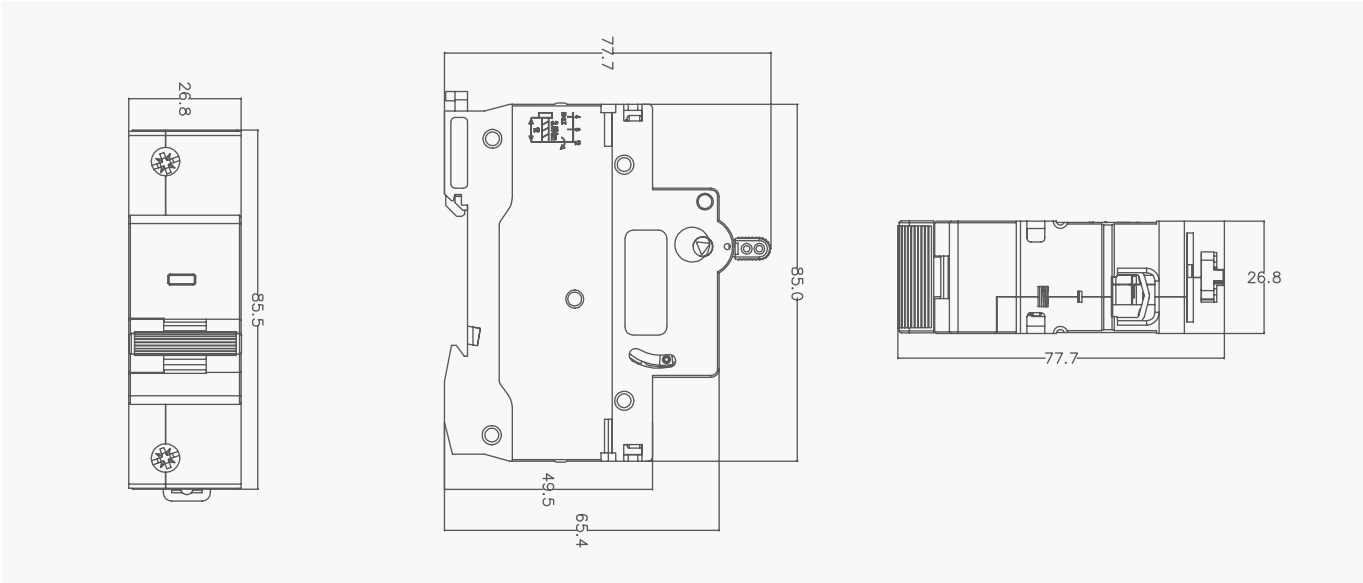
Type	Standard		IEC/EN 60947-2	IEC/EN 60898-1
Electrical features	Rated current In	A	6,10,16,25,32,40,50,63,80,100,125	
	Poles	P	1,2,3,4	
	Rated voltage Ue	V	230/400	
	Insulation voltage Ui	V	500	
	Rated frequency	Hz	50/60	
	Rated breaking capacity	A	6000	
	Rated impulse withstand voltage(1.2/50) Uimp	V	6000	
	Dielectric test voltage at ind. Freq. for 1min	kV	2.5	
	Pollution degree		3	
	Thermo-magnetic release characteristic		8-12In	B,C,D
Mechanical features	Electrical life	t	4000	
	Mechanical life	t	10000	
	Contact position indicator		Yes	
	Protection degree		IP20	
	Reference temperature for setting of thermal element		30	
	Ambient temperature (with daily average ≤35°C)	°C	-5~+40(Special application please refer to temperature compensation correction)	
	Storage temperature	°C	-25~+70	
Installation	Terminal connection type		Cable/Pin-type busbar	
	Terminal size top / bottom for cable	mm²	50	
		AWG	18-1/0	
	Terminal size top / bottom for busbar	mm²	50	
		AWG	18-1/0	
	Tightening torque	N*m	3.5	
		In-lbs	31	
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device	
	Connection		From top and bottom	

Release Curve diagram



YCB6-125 MCB

Overall and mounting dimensions(mm)

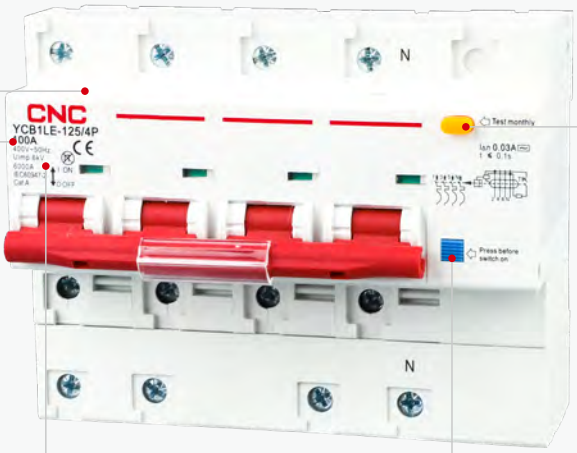


Ordering instruction

1. When ordering, the customer shall indicate the product type, tripping curve, rated current, number of poles, accessories and quantity of the circuit breaker. For example: YCB6-125 3P C 125A 1000pcs.
2. Customers can negotiate separately if you have special requirements .

YCB1LE-125 RCBO Electronic

A



Test button should be pressed at least once per month

High flame retardant,high temperature resistanceand impact resistance

Rated current (63A,80A,100A)

Short-circuit breaking capacity Icn 6000A

Leakage tripping indication (pop-up indicates leakage trip)

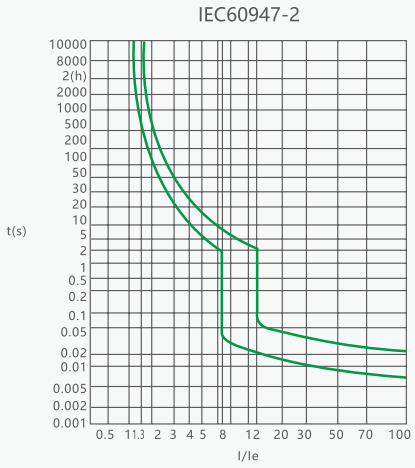
Genreal

1. Personnel and fire protection
2. Cable and line protection against overload and short-circuits

Selection

1. IΔn ≤ 30 mA: additional protection in the case of direct contact.
2. IΔn ≤300 mA: preventative fire protection in the case of ground fault currents.
3. AC class - tripping operation is ensured for sinusoidal, alternating currents, whether they be quickly applied or slowly increase.

Curve

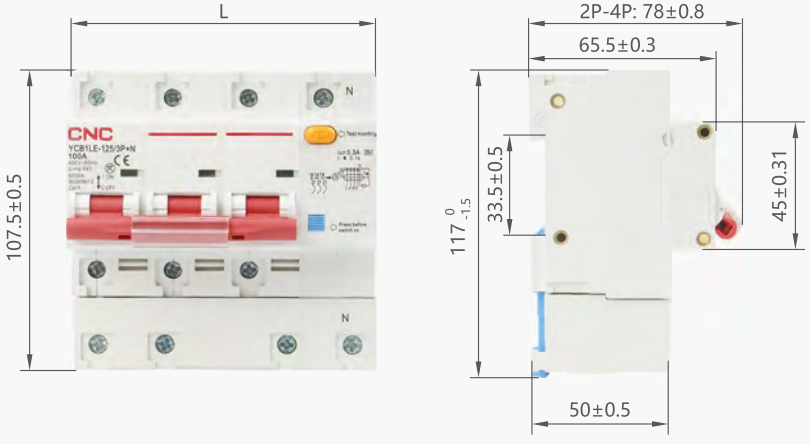


YCB1LE-125 RCBO Electronic

Technical data

Type	Standard		IEC/EN 60947-2
Electrical features	Type (wave form of the earth leakage sensed)		AC
	Thermo-magnetic release characteristic		8-12In
	Rated current In	A	63, 80, 100
	Poles		1P+N, 2P, 3P, 3P+N, 4P
	Rated voltage Ue	V	230/400
	Rated sensitivity IΔn	A	0.03, 0.1, 0.3
	Rated short-circuit capacity Icn	A	6000
	Break time below IΔn	s	≤0.1
	Rated impulsewithst and voltage (1.2/50)Uimp	V	4000
	Dielectric TEST voltage at ind. Freg. for 1min	kV	1.89
	Insulation voltage Ui	V	500
	Pollution degree		3
Mechanical features	Electrical life		1500
	Mechanical life		8500
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature(with daily averages35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top / bottom for cable	mm^2	16~50
		AWG	6-1/0
	Terminal size top / bottom for busbar	mm^2	16~35
		AWG	6-2
	Tightening torgue	N*m	3.5
		In-lbs	3.1
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions(mm)



Poles	L(mm)
1P+N	54
2P	81
3P	108
3P+N	108
4P	135

YCH6Z-125 Isolating Switch

A

Genreal

YCH6Z-125 series isolating switch is suitable for the resistive circuit of Ac 50/60HZ, rated voltage 230/400v, rated current up to 125A.It's mainly used for circuit's turning on or off in non-load ed situation. And it functions on connection and isolation between lines and power, especially suitable to isolate power effectively and prevent circuit breaker from closing accidentay when maintaining the circuit in order to ensure the safe operation of maintainer.

Standard:IEC600947-3

Selection

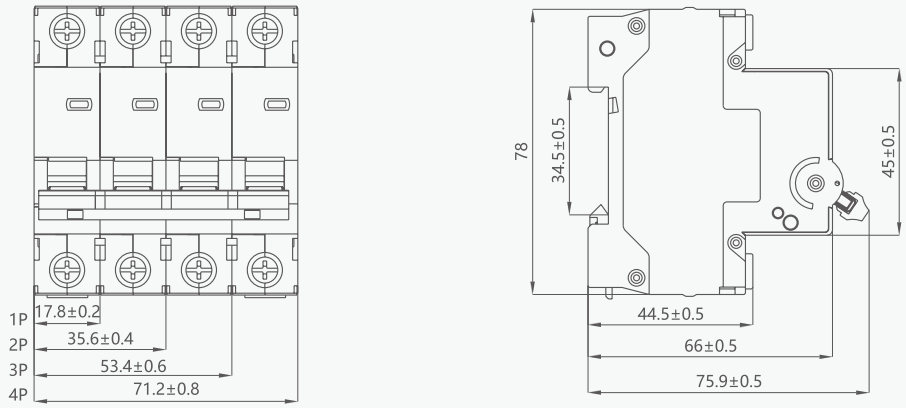
1. Ambient Temperature: -25°C~+60°
2. Altitude: Not higher than 2000m
3. Use Category: AC-22A
4. Installation Method: Embedded vertical standard rail mounting
5. Wiring Method: Clamp connection wire with screw, tightening torque 2.5N.m

YCH6Z-125 Isolating Switch

Technical data

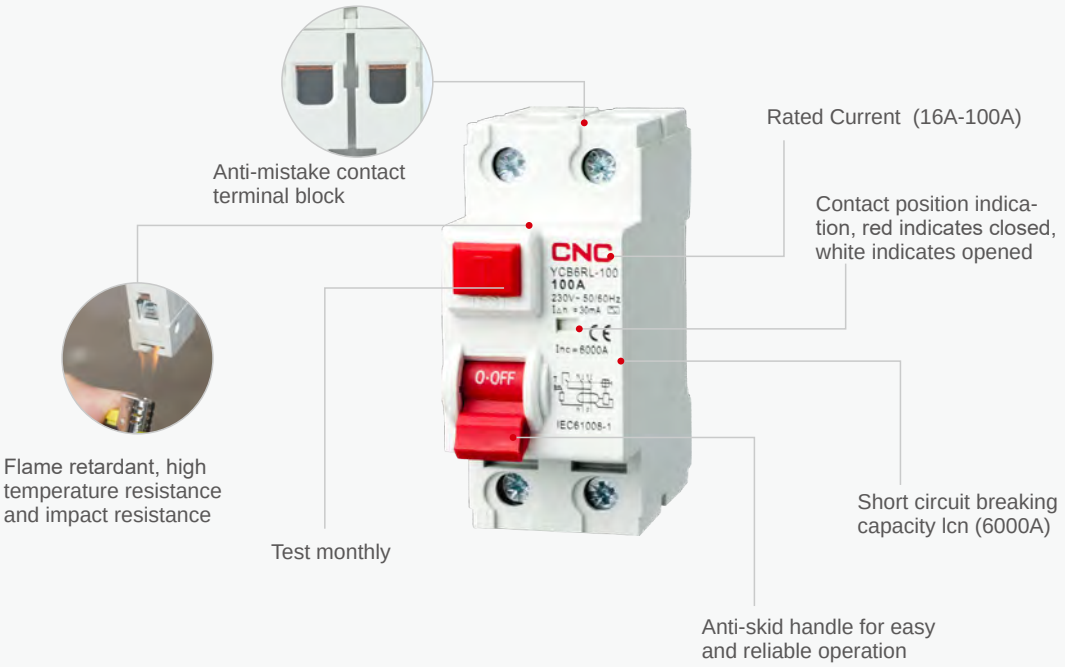
Type	Standard		IEC/EN 60947-2
Electrical features	Poles	P	1,2,3,4
	Rated voltage Ue	V	230/400
	Rated current Ie	A	20,32,40,63,80,100,125
	Rated frequency	Hz	50/60
	Rated impulsewithst and voltage (1.2/50)Uimp	V	4000
	Rated short-time withstand current Icw		12Ie,1s
	Rated making and breaking capacity		3Ie,1.05Ue,cosΦ=0.65
	Rated short circuit making capacity		20Ie,t=0.1s
	Dielectric test voltage at ind.Freg.for 1min	kV	2.5
	Insulation voltage Ui	V	500
	Pollution degree		2
Mechanical features	Electrical life	t	1500
	Mechanical life	t	8500
	Protection degree		IP20
	Ambient temperature(with daily average≤35°C)	°C	-5~+40
Installation	Terminal size top/bottom for cable and pin-type busbar	mm^2	50
		AWG	18-1/0

Overall and mounting dimensions(mm)



Modular DIN Rail

YCB6RL-100 RCCB Electromagnetic



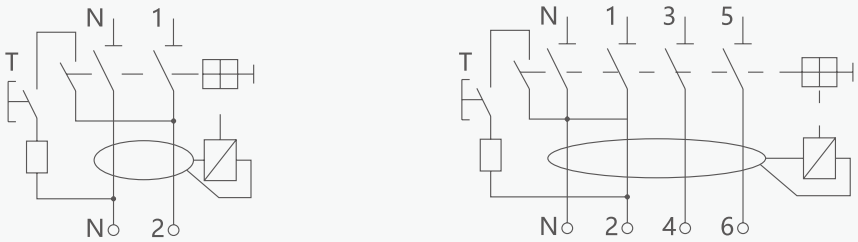
Genreal

1. Protection against the effects of sinusoidal alternating earth fault currents
2. Protection against indirect contacts and additional protection against direct contacts
3. Protection against fire hazard caused by insulation faults
4. Controlling and Switching
5. Used in residential building, non-residential building, energy sources, industry and infrastructure

Selection

Type		Tripping sensitivity data	
AC	For residual sinusoidal alternating currents	30mA	The personnel, material and fire protection, as well as for protection against direct contact
A	For residual sinusoidal alternating currents and residual pulsating direct currents	100mA	For providing protection against indirect contacts
S	For selectivity, with time delay	300mA	For providing fire protection in case of insulation faults

Wiring Diagram

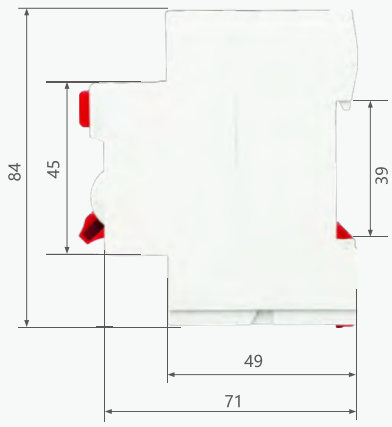


YCB6RL-100 RCCB Electromagnetic

Technical data

Type	Standard		IEC/EN 61008-1
Electrical features	Leakage type		Electromagnetic type
	Rated current in	A	16,25,32,40,50,63,80,100
	Type (wave form of the earth leakage sensed)		A, AC
	Poles	P	1P+N, 3P+N
	Rated voltage Ue	V	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity Inc=IΔn	A	6000A
	Rated impulsewithst and voltage (1.2/50)Uimp	V	4000
	Dielectric TEST voltage at ind. Freg. for 1min	kV	2.5
	Rated sensitivity IΔn	A	0.03, 0.1, 0.3
	Rated residual making and breaking capacity IΔm	A	500(In≤40A);630(In=50A/63A);1000(In=80A/100A)
Mechanical features	Pollution degree		2
	Electrical life	t	4000
	Mechanical life	t	8500
	Protection degree		IP20
	Storage temperature	°C	-25~+70
	Ambient temperature(with daily averages35°C)	°C	-5~+40
	Terminal connection type		Cable/Pin-type busbar
Installation	Terminal size top / bottom for cable	mm^2	25/35
		AWG	18-3/18-2
	Terminal size top / bottom for busbar	mm^2	10/16
		AWG	18-8/18-5
	Tightening torgue	N*m	2.5
		In-lbs	22
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions(mm)



YCB7 Series

- Industrial aesthetic designe
- Higher performance

CNC
ELECTRIC

YCB7 Series MCB

Overview

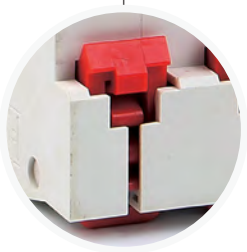
A

High flame retardant,high temperature resistance and impact resistance

Magnetic blowing arc extinguishing device

Wind groove design beside for rapid heat dissipation

Contact indication window, easy to see ON/OFF status



Easy installation and closely clip

Ergonomic designed handle for more comfortable operation

YCB7-63N MCB

General

The YCB7-63N series miniature circuit breaker are suitable for overcurrent protection building line facilities and similar purposes in AC 50/60Hz, rated voltage 230V/400V,rated current up to 63A circuits. They have isolation, overload, and short circuit protection functions, and can also be used for infrequent operation and switching of lines undernormal circumstances. Circuit breakers are suitable for various places such as industry,commerce, high-rise buildings, and residential buildings.
Standard: IEC/EN 60898-1.

Type designation

Model		Shell grade current	Breaking capacity	Poles	Tripping charac-teristics	Rated current
YCB7	-	63	N	1P	C	16
Miniature circuit breaker		63	N:6kA	1P 2P 3P 4P	B C D	1 2 4 6 10 16 20 25 32 40 50 63

Note:This product can be assembledwithaccessories(YCB7-63N OF/SD/OF+SD/MX/ MVMN/MX +OF, etc)

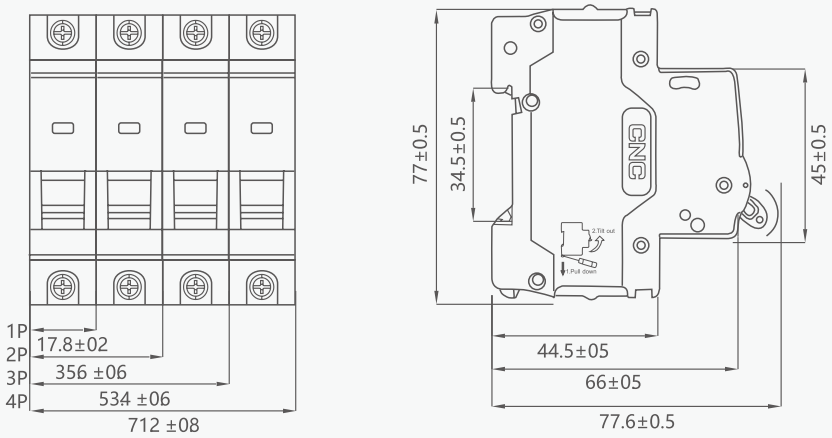
YCB7-63N MCB

Technical data

Type	Standard			IEC/EN 60898-1
Comprehensive data	Function			Overload, Short circuit, Isolation
	Number of poles			1P, 2P, 3P, 4P
	Rated current In		A	1-63A
	Rated frequency		Hz	50/60Hz
Electrical features	Rated voltage Ue		V	230/400
	Rated insulation voltage Ui		V	500
	Rated breaking capacity Icn		A	6000
	Rated impulse withstand voltage Uimp(1.2/50)		kA	4
	Pollution degree			2
	Use category			II , III
	Trip type			Thermal magnetic release
	Thermal magnetic tripping characteristics			B, C, D
	Electrical and mechanical accessories			□
Mechanical features	Mechanical life		times	20000
	Electrical life		times	10000
	Protection degree			IP20
	Antihumidity and heat resistance			The relative humidity of the air is not more than 50% when the ambient air temperature is +40°C, and it can have a higher relative humidity at a lower temperature
	Reference ambient temperature		°C	30
	Ambient temperature		°C	-5°C-+40°C, the average value of 24h does not exceed +35°C
	Height		m	Not exceeding 2000
Installation	Terminal connection type			Cable/Pin-type busbar
	Maximum wire capacity	Terminal size top/ bottom for cable	mm^2	25
			AWG	18-3
		Terminal size top/ bottom for busbar	mm^2	25
			AWG	18-3
	Torque		N*m	2
			In-lbs	18
	Tool		18	Phillips screwdriver or flat-blade screwdriver
	Installation			On DIN rail EN 60715 (35mm) by means of fast clip device
	Wiring method			From top or bottom

YCB7-63N MCB

Overall and mounting dimensions(mm)

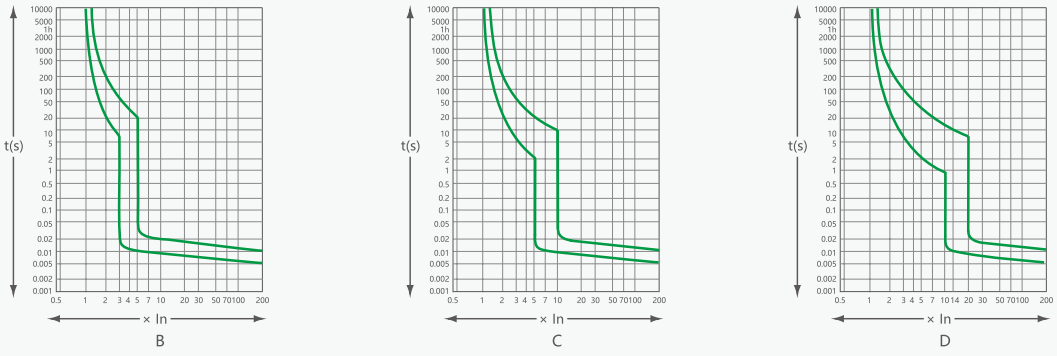


Selection

Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
D	10In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	
D	20In	t < 0.1s	

Curve



Temperature drop correction table

The maximum allowable current of the circuit breaker is related to the ambient temperature of the circuit breaker. The ambient temperature refers to the temperature in the distribution box or switch cabinet where the circuit breaker is installed. The reference temperature of various circuit breakers can be found in the values of the colored rows in the table.

Product standard: GB/T10963.1 IEC60898-1 (household standard)

temperature(°C)	-5	0	5	10	15	20	25	30	35	40	45
Rated current											
1A	1.16	1.14	1.11	1.09	1.07	1.05	1.02	1.00	0.98	0.95	0.92
2A	2.30	2.26	2.22	2.18	2.13	2.08	2.04	2.00	1.96	1.92	1.88
4A	4.72	4.63	4.53	4.43	4.32	4.22	4.11	4.00	3.89	3.77	3.65
6A	6.97	6.84	6.71	6.57	6.43	6.29	6.15	6.00	5.85	5.69	5.53
10A	12.25	11.95	11.65	11.34	11.02	10.69	10.35	10.00	9.64	9.26	8.86
16A	18.72	18.35	17.98	17.60	17.22	16.82	16.42	16.00	15.57	15.13	14.68
20A	23.24	22.80	22.36	21.91	21.45	20.98	20.49	20.00	19.49	18.97	18.44
25A	29.12	28.57	28.01	27.43	26.85	26.24	25.63	25.00	24.35	23.69	23.01
32A	37.18	36.49	35.78	35.05	34.32	33.56	32.79	32.00	31.19	30.36	29.50
40A	46.66	45.77	44.86	43.93	42.98	42.01	41.02	40.00	38.96	37.88	36.78
50A	58.57	57.43	56.26	55.06	53.84	52.59	51.31	50.00	48.65	47.27	45.84
63A	74.73	73.17	71.57	69.94	68.27	66.56	64.81	63.00	61.14	59.22	57.24

YCB7 Series MCB Accessories

General

This series circuit breaker accessories are used in household, building and other electrical circuits with YcB7 circuit breaker cooperated for re-mote control and different accessories selected for diferent needs, featured with auxliary signal, opening and closing status indication, and even alarm signal function for better protection on the circuit, personal and property safety.

Standard:IEC60947-5-1

Type designation

OF	SD	MV+MN	MX	MX+OF
Shunt release + Auxiliary contact	Shunt release	Under-voltage and over-voltage release	Alarm contact	Auxiliary contact

Selection

Accessory name	Code	Function
Auxiliary contact	OF	Provide auxiliary signal and control auxiliary circuit
Alarm contact	SD	When the circuit breaker is due to a fault, the alarm signal would work and indicate.
Shunt release	MX	Over the range of 70% ~ 110% of the rated control supply voltage, the release should trip theCircuit breaker to protect the circuit.
Shunt release +Auxiliary contact	MX+OF	Remote control of circuit and control the auxiliary circuit by auxiliary contact.
Over-voltage andunder-voltage release	MV+MN	When the rated voltage 230V increase to 270V+/-5% or reduce to 170V+/-5%the circuit breaker should trip for over-voltage and under-voltage protection.

Installation

All the electrical accessories should be installed at the side of the circuit breaker , details are shown in the fiqure below. (Remark: eeach MCB can be installed with 3 (MAX.) indicating accessories.)

Auxiliary contact | Alarm contact | Shunt release | Shunt release + Auxiliary contact | Over-voltage and under-voltage release | Circuit breaker

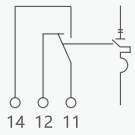
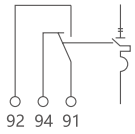
Operating Conditions

- Ambient temperature:-5°°C~+40°C;
- Altitude: Below 2000m;
- Environment: The medium should be no risk of blasting and can't corrode the metal and damage insulating gas as well as conductive dust;
- Installation: 35mm standard din rail.

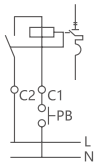
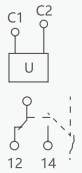
YCB7 Series MCB Accessories

Technical data

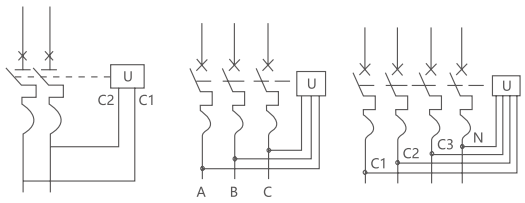
Auxiliary contact and Alarm contact technical parameters

Accessory name	Rated current(A)			Numbers of contacts	Diagram
	AC 380V	AC 220V	AC 110V		
Auxiliary contact OF	3	6	1	1NO 1NC	
Alarm contact SD	3	6	1	1NO 1NC	

Shunt release, Shunt release + Auxiliary contact technical parameters

Accessory name	Rated insulation voltage Ui	Rated control voltage Us	Tripping power consumption (W or VA)	Operation voltage Us	Diagram
Shunt release X	415V	AC/DC: 220~380V 110~220V AC/DC: 24~48V	240 120	0.7~1.1	
Shunt release +Auxiliary contact MX+OF	415V	AC/DC: 220~380V 110~220V AC/DC: 24~48V	240 120	0.7~1.1	

Under-voltage & Over-voltage Release technical parameters

Accessory name	Rated working voltage Ue	Trip voltage	Diagram
Over-voltage and under-voltage release MV+MN	AC230V	Under-voltage:170V±5% Over-voltage:270V±5%	 2 phase 3 phase 3 phase 4 wire
	AC380V	Under-voltage:300V±5% Over-voltage:460V±5%	

YCB7LE-63Y RCBO Electronic

General

YCB7LE-63Y series integrated residual current operated circuit breaker is mainly used in AC 50/60Hz rated voltage 230V rated current up to 63A lines, as a load line for leakage (electric shock), overload and short circuit protection. It can also be used for infrequent connection, disconnection, and switching.

Standard:IEC/EN 61009-1

Feature

1. High breaking capacity
2. Strong applicability of attachments
3. Small volume
4. Anti slip design
5. Stable and reliable

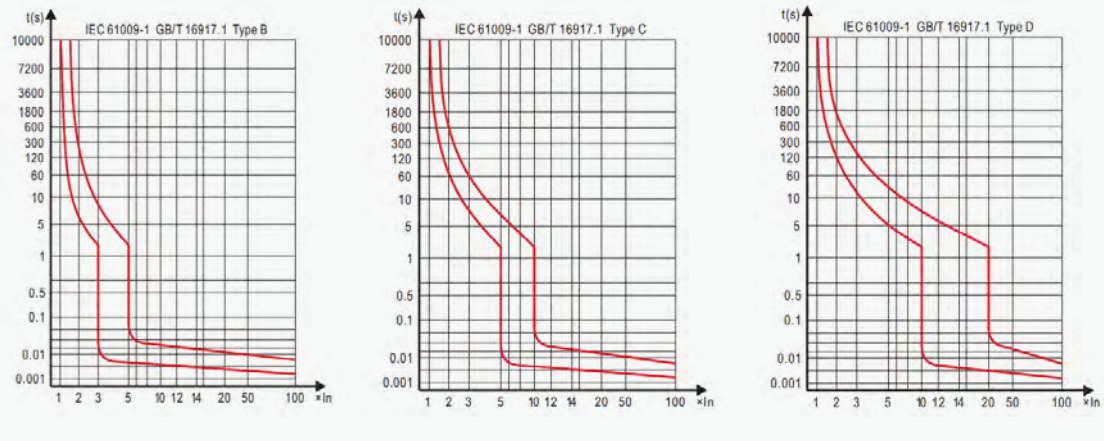
Type designation

Model		Shell grade current	Category	Poles	Tripping char-acteristics	Rated current	Rated residua operating	Type
YCB7LE	-	63	Y	1P+N	C	63	100mA	A Type
Residual Current Operated Circuit Breaker		63	Integrated	1P+N	B C D	6 10 16 20 25 32 40 50 63	Default:30mA 100mA 300mA	Default: AC Type A Type

Product Accessories

There are six different accessories in the circuit breaker, including OF auxiliary contact, MX+OF shunt release, SD alarm contact, MV overvoltage release, MN undervoltage release, and MVMN overvoltage and undervoltage release. All accessories are installed on the left side of the product.

Curve



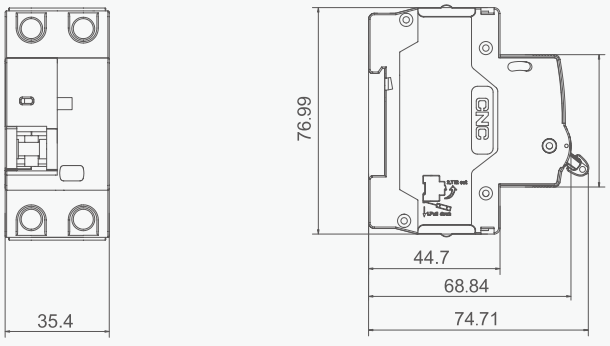
Modular DIN Rail

YCB7LE-63Y RCBO Electronic

Technical data

Type	Standard		
Electrical features	Poles	P	1P+N
	Type(wave form of the earth leakage sensed)		AC, A
	Thermomagnetic release characteristic		B, C, D
	Rated current In	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Rated voltage Ue	V	230
	Rated sensitivity IΔn	A	0.03, 0.1, 0.3
	Rated residual making and breaking capacity IΔm	A	630
	Rated short-circuit capacity Icn	A	6000
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freg.for 1min	Kv	2
	Insulation voltage Ui	V	500
	Pollution degree		2
Mechanical features	Electrical life	times	4000
	Mechanical life	times	10000
	Contact position indicator		Yes
	Protection degree	times	IP20
	Ambient temperature(with daily average≤35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/ bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top/ bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

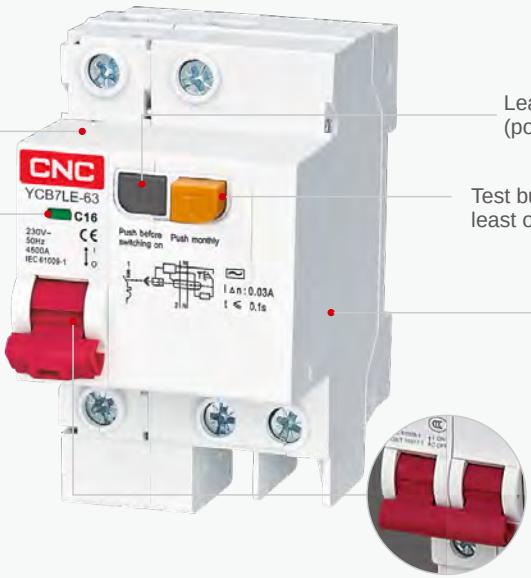
Overall and mounting dimensions(mm)



YCB7LE-63 RCBO Electronic

A

High flame retardant,high temperature resistance and impact resistance



Leakage tripping indication (pop-up indicates leakage tripping)

Test button should be pressed at least once per month

Wind groove design on the side for quickly heat spill out

Contact indication window, easy to see ON/OFF status

Ergonomic designed handle for more comfortable operation

General

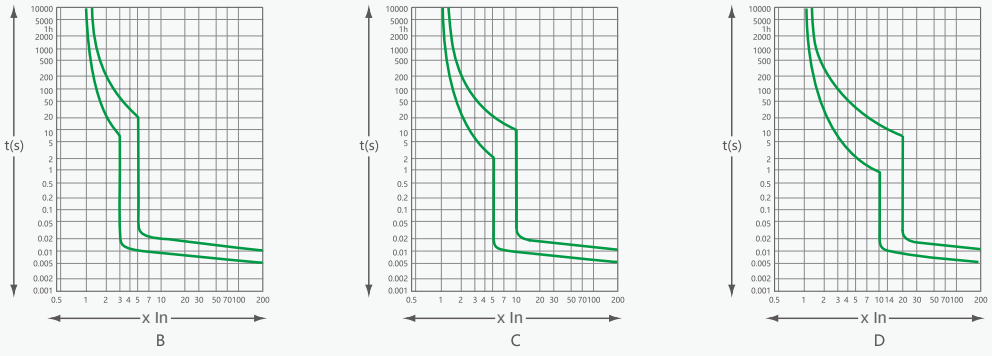
1. Protection against overload and short-circuit currents.
2. Protection against the effects of sinusoidal alternating earth fault currents.
3. Protection against indirect contacts and additional protection against direct contacts.
4. Protection against fire hazard caused by insulation faults.
5. Used in residential building.
6. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In, type D(10-20)In.

Selection

Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
D	10In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	
D	20In	t < 0.1s	

Curve



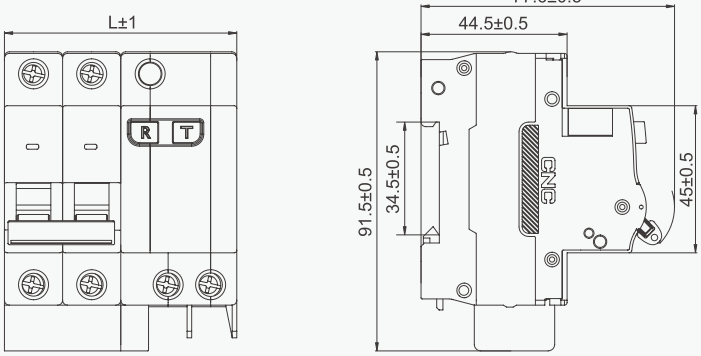
Modular DIN Rail

YCB7LE-63 RCBO Electronic

Technical data

Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	1P+N,2,3,3P+N, 4
	Type(wave form of the earth leakage sensed)		AC
	Thermomagnetic release characteristic		B, C, D
	Rated current In	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Rated voltage Ue	V	230V AC(1P+N,2P)400V AC(3P 3P+N, 4P)
	Rated sensitivity IΔn	A	0.03,0.05, 0.1, 0.3
	Rated residual making and breaking capacity IΔm	A	500(In≤40A) 630(In>40A)
	Rated short-circuit capacity Icn	A	4500
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freg.for 1min	Kv	2
	Insulation voltage Ui	V	500
	Pollution degree		2
Mechanical features	Electrical life	times	4000
	Mechanical life	times	10000
	Contact position indicator		Yes
	Protection degree	times	IP20
	Ambient temperature(with daily average≤35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/ bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top/ bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

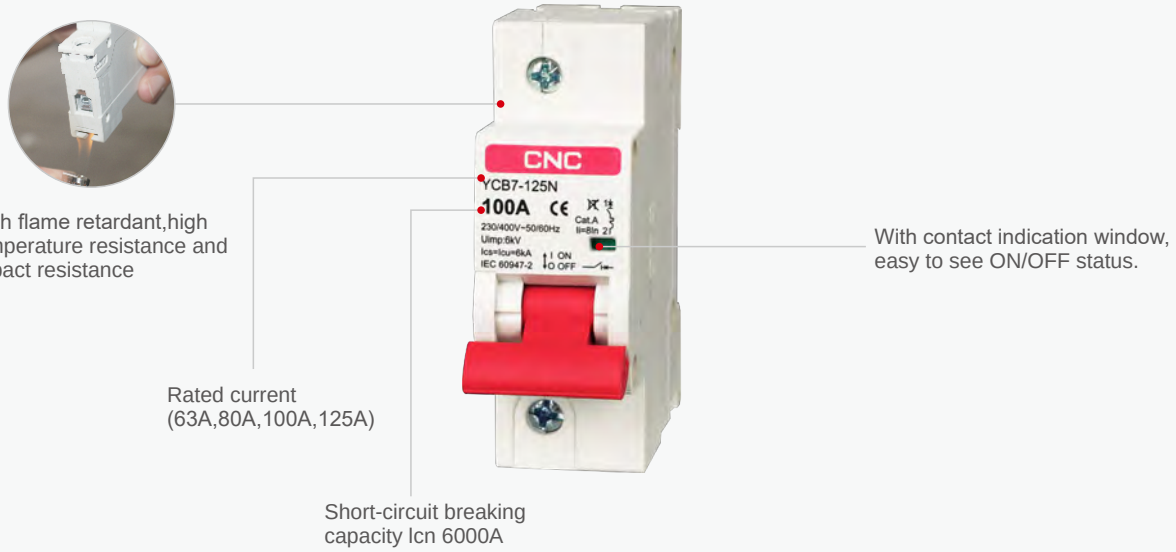
Overall and mounting dimensions(mm)



Poles	L(mm)
1P+N	53.3
2P	71.1
3P	101.9
3P+N	114.9
4P	132.7

Modular DIN Rail

YCB7-125N MCB



General

YCB7-125N miniature circuit breaker(circuit breaker)is applicable to the circuit with AC50 Hz/60Hz, rated voltage of no more than400 V, and rated current from 10A to 125A for overload protection and short circuit protection. This product can be applied to various places such as industrial, commercial, tall buildings, and residential houses.

Standard: IEC 60947-2,IEC 60947-2 IEC 60898-1

Type designation

YC B 7 - 125N/ □

- Number of poles
- Frame size rated current
- Design number
- Miniature circuit breaker
- Company code

Operating conditions

1. Ambient air temperature -5°C ~+40°C (with daily average≤35°C)
2. Altitude:≤2000m.
3. Air conditions: At mounting site, relative humidity not exceed 50% at the maximum temperature of +40°C. For the wettest month, the maximum relative humidity averaged shall be 90% while the lowest temperature averaged in that month is +20°C , special measures should be taken to occurrence of condensation.
4. The installation category is III.
5. The circuit breaker shall be installed on DIN rail EN 60715(35mm), which shall meet theA1.1 TH 35-7.5 steel mounting rail requirements.
6. Pollution grade: 3
7. Mounting conditions: inclination between mounting plane and vertical plane not exceed±5°.
8. The product should locate in the places where there are no obvious impact and shake.

YCB7-125N MCB

Table 1

Ui	Uimp	Number of poles	Rated frequency HZ	Rated voltage Ue	Rated Current In	Thermomagnetic release characteristic	Rated circuit breaking capacity Icn
500V	6kV	1P/2P	50/60	AC230V/400V	10-125A	(C)Ii=8In,	6kAIi=12In
		3P/4P		AC400V			

Release

Type	Test current	Tripping time	Expected result
C,D	1.05In	t ≤1h(In≤63A), t ≤2h(In>63A)	Not tripping
C,D	1.3In	t ≤1h(In≤63A), t ≤2h(In>63A)	Tripping
C,D	2.55In	1s< t <60s	Tripping
C	8Inx80%	t ≤ 0.2s	Not tripping
D	12Inx80%	t ≤ 0.2s	Not tripping
C	8Inx120%	t < 0.2s	Tripping
D	12Inx120%	t < 0.2s	Tripping

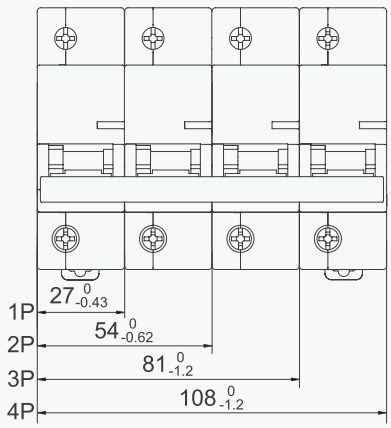
Technical data

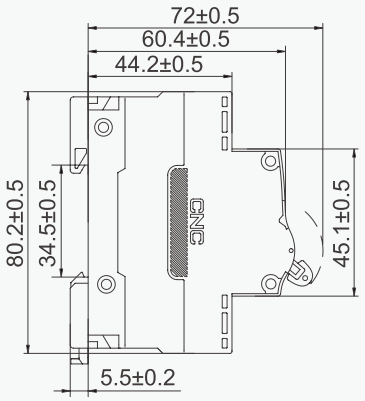
Type	Standard		IEC/EN 60947-2	IEC/EN 60898-1
Electrical features	Rated current In	A	10,16,20,25,32,40,50,63,80,100,125	
	Poles	P	1, 2, 3, 4	
	Rated voltage Ue	V	230/400	
	Insulation voltage Ui	V	500	
	Rated frequency	Hz	50/60	
	Rated breaking capacity	A	6000	
	Rated impulse withstand voltage(1.2/50)Uimp	V	6000	
	Dielectric test voltage at ind. Freg. for 1min	kV	2.5	
	Pollution degree		3	
	Thermo-magnetic release characteristic		(C)Ii=8In,(D)Ii=12In	
Mechanical features	Electrical life	t	1500	
	Mechanical life	t	8500	
	Contact position indicator		Yes	
	Protection degree		IP20	
	Reference temperature for setting of thermal element	°C	30	
	Ambient temperature (with daily average≤35°C)	°C	-5~+40(Special application please refer to temperature compensation correction)	
	Storage temperature	°C	-25~+70	
Installation	Terminal connection type		Cable/Pin-type busbar	
	Terminal size top/ bottom for cable	mm^2	50	
		AWG	18-1/0	
	Terminal size top/ bottom for busbar	mm^2	50	
		AWG	18-1/0	
	Tightening torque	N*m	3.5	
		In-lbs	31	
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip	
	Connection		From top or bottom	

YCB7-125N MCB

A

Overall and mounting dimensions(mm)





Ordering instructions

When ordering, the customer shall indicate the product type, tripping curve, rated current, number of poles, accessories and quantity of the circuit breaker. For example: YCB7- 125N 3P C100 1000pcs.

Customers can negotiate separately if you have special requirements.

Modular DIN Rail

YCB7LE-125 RCBO Electronic

High flame retardant,high temperature resistance and impact resistance

Rated current (63A, 80A,100A)

Short-circuit breaking capacity Icn 6000A

Test button should be pressed at least once per month

Leakage tripping indication (pop-up indicates leakage tripping)

General

1. Personnel and fire protection
2. Cable and line protection against overload and short-circuits

Selection

1. IΔn ≤ 30 mA: additional protection in the case of direct contact.
2. IΔn ≤300 mA: preventative fire protection in the case of ground fault currents.
3. IΔn class - Tripping is ensured for sinusoidal, alternating currents, whether they be quickly applied or slowly increase.

Type			Tripping time	IΔn(A)	Expected result				Note
					IΔn	2IΔn	5IΔn	6IΔn	
General			63,80, 100,125	≥0.03	0.1	0.07	0.04	0.04	Minimum time for tripping
Time delay	Time limit for not tripping	0.06s		≥0.03	0.3	0.2	0.15	0.15	Minimum time for tripping
				≥0.03	0.13	0.06	0.05	0.04	Minimum time for not tripping
		0.1s		≥0.03	0.6	0.4	0.3	0.2	Minimum time for tripping
				≥0.03	0.23	0.1	0.06	0.05	Vinimum time for not tripping

Release

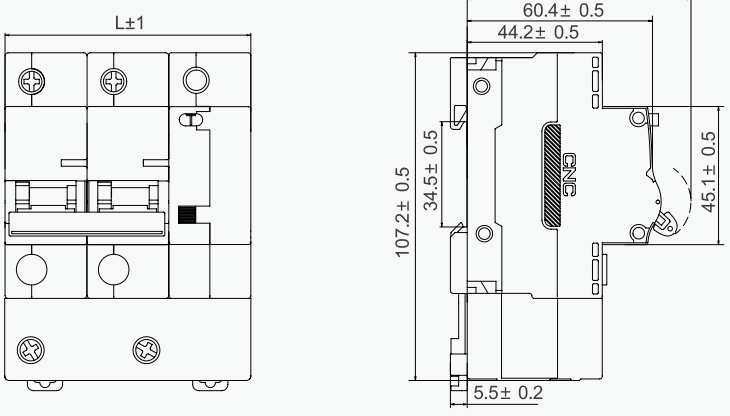
Type	Test current	Tripping time	Expected result
C,D	1.05In	t≤1h(In≤63A),t≤2h(In>63A)	Not tripping
C,D	1.3In	t≤1h(IIn≤63A),t≤2h(In>63A)	Tripping
C,D	2.55In	1s<t<120s	Tripping
C	8Inx80%	t≤0.2s	Not tripping
D	12Inx80%	t≤0.2s	Not tripping
C	8Inx120%	t≤0.2s	Tripping
D	12Inx120%	t≤0.2s	Tripping

YCB7LE-125 RCBO Electronic

Technical data

Type	Standard		IEC/EN 60947-2
Electrical features	Type (wave form of the earth leakage sensed)		AC
	Thermo-magnetic release characteristic		(C)Ii=8In,(D)Ii=12In
	Rated current In	A	63, 80, 100
	Poles		1P+N,2P,3P,3P+N,4P
	Rated voltage Ue	V	230/400
	Rated sensitivity IΔn	A	0.03,0.1,0.3
	Rated short-circuit capacity Icn	A	6000
	Break time under IΔn	s	≤0.1
	Rated impulse withstand voltage (1.2/50)Uimp	V	4000
	Dielectric TEST voltage at ind. Freq. for 1min	kV	1.89
	Insulation voltage Ui	V	500
	Pollution degree		3
	Electrical life		1500
Mechanical features	Mechanical life		8500
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature (with daily average≤35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/ bottom for cable	mm^2	16~50
		AWG	6-1/0
	Terminal size top/ bottom for busbar	mm^2	16~35
		AWG	6-2
	Tightening torque	N*m	3.5
		In-lbs	31
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip
	Connection		From top or bottom

Overall and mounting dimensions(mm)



Poles	L(mm)
1P+N	53.6
2P	80.4
3P	107.2
3P+N	107.2
4P	134

YCB7RL-100 RCBO Electromagnetic

General

YCB7RL-100 series electromagnetic residual current operated circuit breaker is mainly suitable for AC distribution networks with a rated working voltage of 230V or 400V at 50Hz and a rated current of 63A. Used for indirect contact protection of people, and can also be used to prevent fire hazards caused by insulation damage to circuits and equipment, resulting in ground fault currents.

Feature

1. Protection against the effects of sinusoidal alternating earth fault currents.
2. The leakage protection feature does not require an auxiliary power supply.
3. Not affected by voltage fluctuations in the power grid.

Type designation

Model		Shell grade current	Poles	Rated current	Rated residua operating	Type
YCB7RL	-	100	1P+N	63	100mA	A Type
RCCB Electromagnetic		63	1P+N	6 10 16 20 25 32 40 50 63	Default: 10mA 30mA 100mA 300mA	Default: AC Type A Type

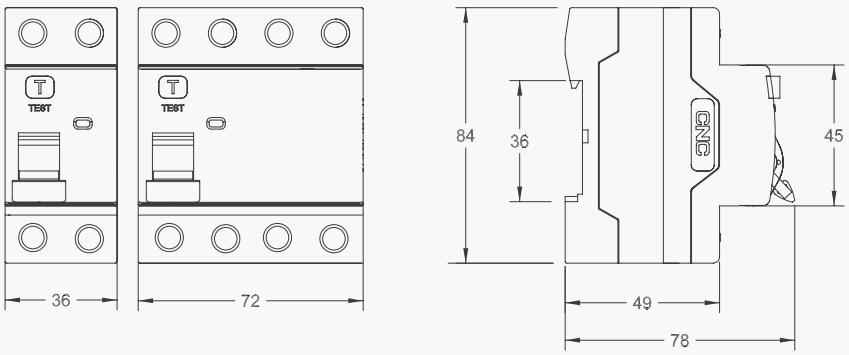
Note: This product cannot be assembled with attachments

YCB7RL-100 RCBO Electromagnetic

Technical data

Type	Standard		
Electrical features	Leakage type		Electromagnetic type
	Rated current In	A	6, 10, 25, 32, 40, 50, 63, 80, 100
	Type (wave form of the earth leakage sensed)		A, AC
	Poles	P	1P+N, 3P+N
	Rated voltage Ue	v	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity Inc=IΔc	A	6000, 10000
	Rated impulse withstand voltage(1.2/50)Uimp	V	6000
	Dielectric test voltage at ind.Freg.for 1min	Kv	2.5
	Rated sensitivity IΔn	A	0.03, 0.1, 0.3
	Rated residual making and breaking capacity IΔm	A	500(In≤40A);630(In=50A/63A);1000(In=80A/100A)
	Pollution degree		2
Mechanical features	Electrical life	times	4000
	Mechanical life	times	8000
	Protection degree		IP20
	Storage temperature	°C	-25~+70
	Ambient temperature(with daily average≤35°C)	°C	-5~+40
	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/ bottom for cable	mm^2	25/35
		AWG	18-3/18-2
	Terminal size top/ bottom for busbar	mm^2	10/16
		AWG	18-8/18-5
	Tightening torque	N*m	2.5
		In-lbs	22
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top or bottom

Overall and mounting dimensions(mm)



YCH7-125N Isolating Switch

General

YCH7-125N series isolating switch is suitable in the resistive circuit of AC 50/60HZ,rated voltage 230/400V, rated current up to 125A.

It's used primarily for circuit's turning on or off in non-load edsituation. And it functions oncon-nection and isolation between lines and power, especially suitable to isolate power effectively and prevent circuit breaker from closing accidentally when maintain the circuit in order to ensure the safe operation of maintainer.

Standard:IEC600947-3

Feature

1. Contact position indication
2. Anti-skid handle for easy and reliable operation
3. Flame retardant, high temperature resistance and impact resistance

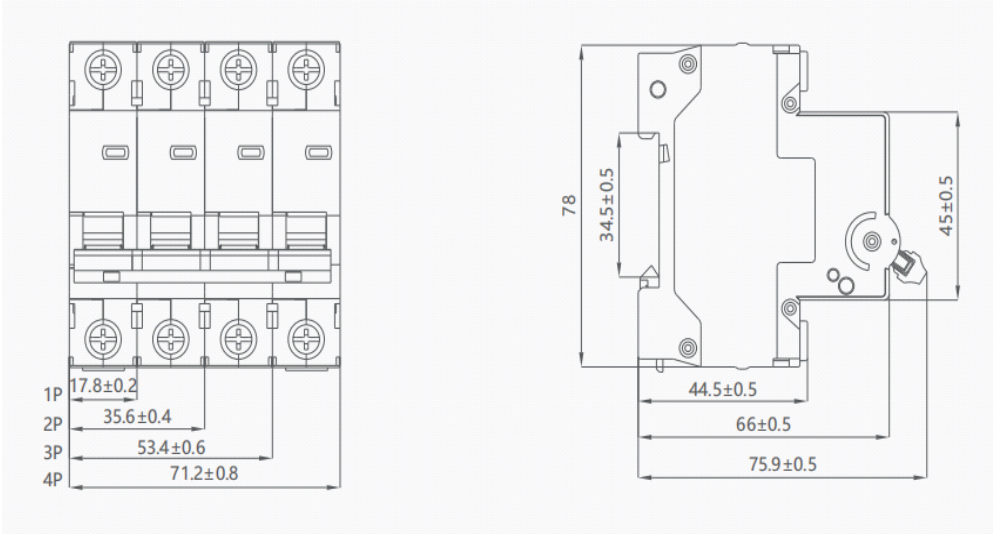
Modular DIN Rail

YCH7-125N Isolating Switch

Technical data

Model	YCH7-125N		
Electrica features	Poles	P	1,2, 3, 4
	Rated voltage Ue	V	230/400
	Rated current Ie	A	20,32,40,63,80,100,125
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Rated short-time withstand current Icw		12Ie, 1s
	Rated making and breaking capacity		3Ie,1.05Ue,cosΦ=0.65
	Rated short circuit making capacity		20Ie,t=0.1s
	Dielectric test voltage at ind.Freg.for 1min	Kv	2.5
	Insulation voltage Ui	V	500
	Pollution degree		2
	Use Category	t	AC-22A
Mechanical features	Electrical life	t	1500
	Mechanical life		8500
	Protection degree		IP20
Installation	Terminal size top/bottom	mm^2	50
	for cable and pin-type busbar	AWG	18-1/0
Operating conditions	Ambient temperature(with daily average≤35°C)		-25~+60
	Altitude		Not higher than 2000m
	Installation Method		Embedded vertical standard rail mounting
	Wiring Method		Clamp connection wire with screw, tightening torque 2.5N.m

Overall and mounting dimensions(mm)



YCD7 Series Signal/Control Rail Module

General

YCD7 Series Signal Display Control Rail Module is a versatile module that includes indicators, buttons, illuminated buttons, and buzzer with light functions. It is suitable for circuit control systems operating at AC/DC voltages up to 230V and a frequency of 50/60Hz. This module is designed to provide control, indication, and fault signaling functions in electrical circuit systems.

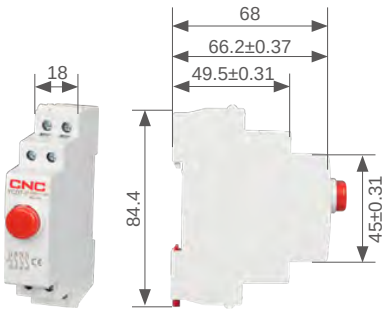
Type designation

Model		Function	Contact	Colour
YCD7	-	P	22	G
Rail signal module		P:Push Button(Unlocking) B:Button(Self-locking)	22:2NO2NC 40:4NO 31:3NO1NC	G Green R:Red

B:Self-locking P: Unocking

Technical data

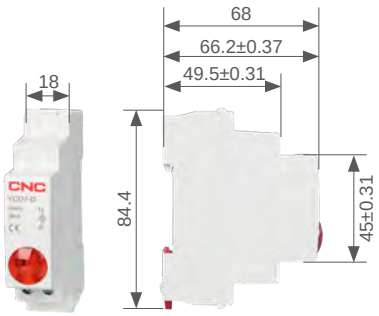
Parameter	Data
Rated working voltage	230V
Rated working current	6A
Agreed heating current	16A
Mechanical life	250000
Electrical life	100000
Contact combination mode	2NO2NC,4NO,3NO1NC
Connecting wire	≤6mm²
Tightening torque	0.8N.m
Use-category	AC-14
Protection grade	IP20
Operation temperature	-5°C~+40°C;(with daily average≤35°C)
Altitude	≤2000m
Installation category	II,III
Pollution degree	2
Installation method	DIN rail TH35-7.5



YCD7 Series Signal/Control Rail Module

Type designation

Model		Function	Contact	Colour
YCD7	-	P	22	G
Rail signal module		D:Indicator	G:Green R:Red Y:Yellow B:Blue W:White GR:Green+Red	380V 230V 110V 24V 12V 6.3V



Technical data

Parameter	Data
Rated working voltage (AC/DC)	6.3V,12V,24V,110V,230V
Rated working current	≤20mA
Working life	≥30000h
Connecting wire	20
Tightening torque	0.8N.m
Protection grade	IP20
Operation temperature	-5°C~+40°C;(with daily average≤35°C
Altitude	≤2000m
Installation category	II,III
Pollution degree	2
Installation method	DIN rail TH35-7.5

YCB9 Series

- **High breaking capacity up to 10kA**
- **Miniature Circuit Breaker Rated current up to 80A**
- **Leakage function can be selected in various places**

CNC
ELECTRIC

YCB9 Series MCB

Overview

A

Anti-mistake contact terminal block

Current-limiting contact system

Contact position indication, red indicates closed,green indicates opened

Ensure the breaking capacity

Magnetically blown arc extinguishing device

Flame retardant, high temperature resistance and impact resistance

Anti-skid handle for easy and reliable operation

Max current up to 80A

Short circuit breaking capacity Icn (6000,10000A)

YCB9-80M/H MCB

General

The YCB9-80 series miniature circuit breaker are suitable for overcurrent protection of building line facilities and similar purposes in AC 50/60Hz, rated voltage 230V/400V, rated current up to 80A circuits. They have isolation, overload, and short circuit protection functions, and can also be used for infrequent operation and switching of lines under normal circumstances. Circuit breakers are suitable for various places such as industry, commerce, high-rise buildings, and residential buildings.

Standard:IEC/EN 60898-1

Type designation

YCB9		80	M	1P	C	16	Double busbar
Model	-	Shell grade current	Breaking capacity	Number of poles	Tripping characteristics	Rated current	Others
Miniature Circuit breaker		80	M:6kA H:10kA	1P 2P 3P 4P	B C D	1 2 4 6 10 16 20 25 32 40 50 63 80	/:Single busbar DB:Double busbar

Note: This product can be assembled with accessories (YCB9-80 OF/SD/OF+SD/MX/MVMN/MX+OF, etc)

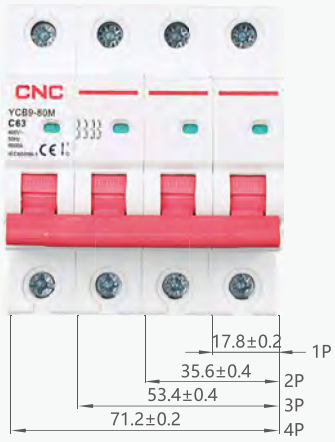
YCB9-80M/H MCB

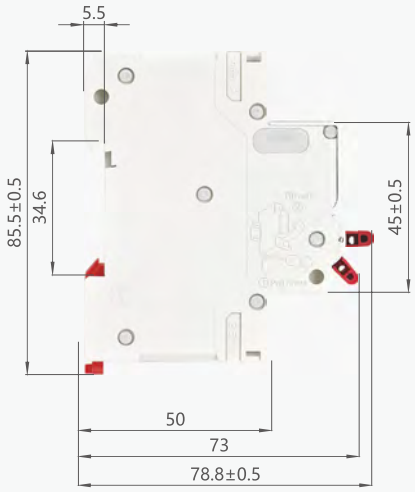
Technical data

Type	Standard			
Comprehensive data	Function			Overload, Short circuit, Isolation
	Number of poles			1P, 2P, 3P, 4P
	Rated current In		A	1-80A
	Rated frequency		Hz	50/60Hz
Electrical features	Rated voltage Ue		V	230/400
	Rated insulation voltage Ui		V	500
	Rated breaking capacity Icn		A	M:6000 H:10000
	Rated impulse withstand voltage Uimp(1.2/50)		kA	4
	Pollution degree			2
	Use category			II , III
	Trip type			Thermal magnetic release
	Thermal magnetic tripping characteristics			B, C, D
	Electrical and mechanical accessories			□
Mechanical features	Mechanical life		times	20000
	Electrical life		times	10000
	Protection degree			IP20
	Antihumidity and heat resistance			The relative humidity of the air is not more than 50% when the ambient air temperature is +40°C, and it can have a higher relative humidity at a lower temperature
	Reference ambient temperature		°C	30
	Ambient temperature		°C	-5°C-+40°C, the average value of 24h does not exceed +35°C
	Height		m	Not exceeding 2000
Installation	Busbar connection type			Single or Double bus bar Anti-mistake contact terminal block
	Terminal connection type			Cable/U-type busbar/Pin-type busbar
	Maximum wire capacity	Terminal size top/ bottom for cable	mm^2	25
			AWG	18-3
		Terminal size top/ bottom for busbar	mm^2	25
			AWG	18-3
	Torque		N*m	2
			In-lbs	18
	Tool		18	Phillips screwdriver or flat-blade screwdriver
	Installation			On DIN rail EN 60715 (35mm) by means of fast clip device
	Wiring method			From top or bottom

YCB9-80M/H MCB

Overall and mounting dimensions(mm)



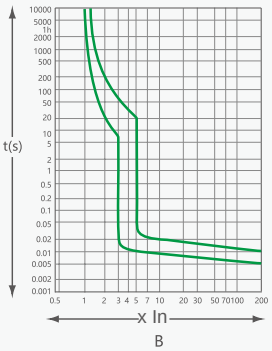


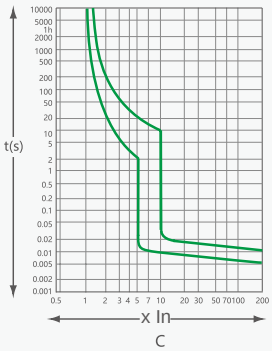
Selection

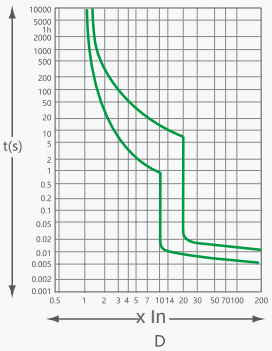
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
D	10In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	
D	20In	t < 0.1s	

Curve







YCB9 Series MCB Accessories

A

General

This series circuit breaker accessories are used in household, building and other electrical circuits, cooperated with YCB9 series circuit breaker to select diferent accessories according to the needs, so as to realize the remote control of circuit breaker, provide auxiliary signal, opening and closing status indication, provide alarm signal function for better protect the circuit, personal and property safety.

Standard:IEC60947-5-1

Type designation

OF SD MV+MN MX MX+OF

- MX+OF — Shunt release + Auxiliary contact
- MX — Shunt release
- MV+MN — Under-voltage and over-voltage release
- SD — Alarm contact
- OF — Auxiliary contact

Function

Accessory name	Code	Function
Auxiliary contact	OF	Provide auxiliary signal and control auxiliary circuit
Alarm contact	SD	When the circuit breaker is due to a fault, the alarm signal would work and indicate.
Shunt release	MX	Over the range of 70% ~ 110% of the rated control supply voltage, the release should trip the circuit breaker to protect the circuit.
Shunt release + Auxiliary contact	MX+OF	Remote control of circuit and control the auxiliary circuit by auxiliary contact.
Over-voltage and under-voltage release	MV+MN	When the rated voltage 230V increase to 270V+/-5% or reduce to 170V+/-5%,the circuit breaker should trip for over-voltage and under-voltage protection.

Installation

All the electrical accessories should be installed at the side of the circuit breaker , details are shown in the fiqure below. (Remark: each MCB max installed with 3 indicate accessories(OF or SD),2 release accessories.)

Auxiliary contact + Alarm contact + Shunt release + Shunt release + Auxiliary contact + Over-voltage and under-voltage release + Circuit breaker

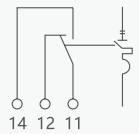
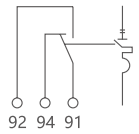
Operating Conditions

- Ambient temperature:-5°C~+40°C;
- Altitude: Below 2000m;
- Environment: The medium should be no risk of blasting and can't corrode the metal and damage insulating gas as well asconductive dust;
- Installation: 35mm standard din rail.

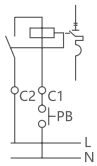
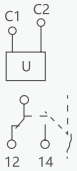
YCB9 Series MCB Accessories

Technical data

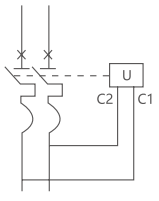
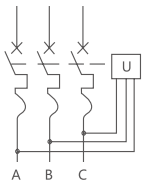
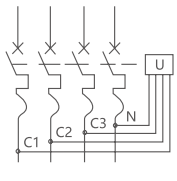
Auxiliary contact and Alarm contact technical parameters

Accessory name	Rated current(A)			Number of contacts	Diagram
	AC 380V	AC 220V	AC 110V		
Auxiliary contact OF	3	6	1	1NO 1NC	
Alarm contact SD	3	6	1	1NO 1NC	

Shunt release, Shunt release + Auxiliary contact technical parameters

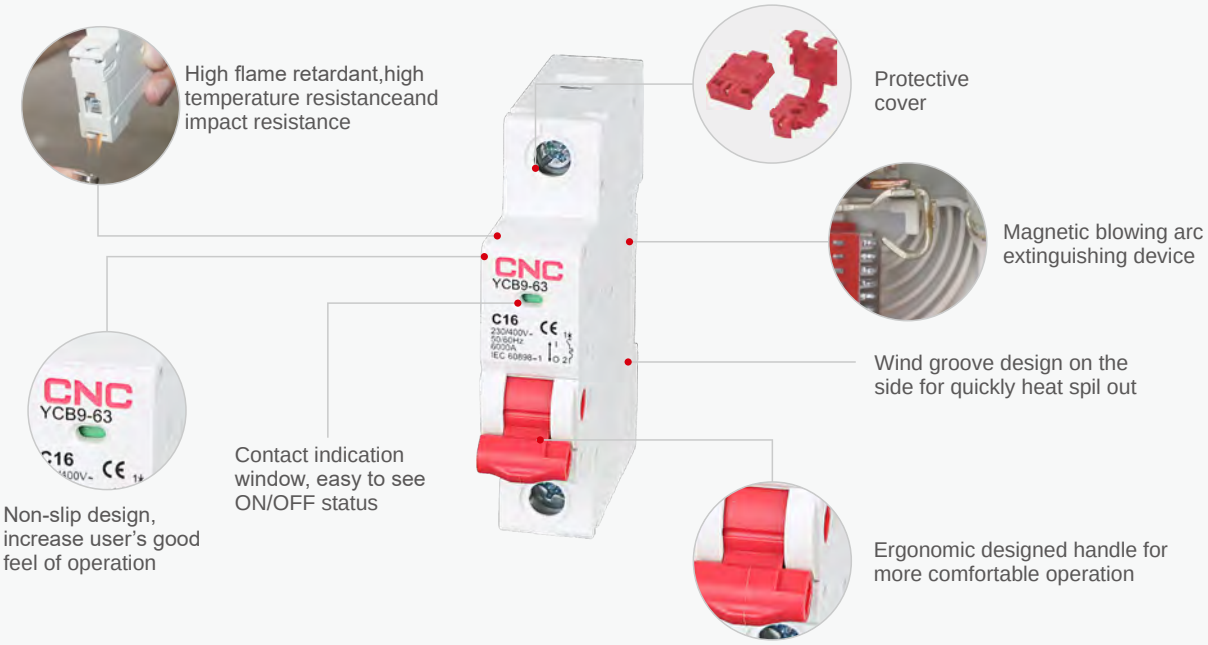
Accessory name	Rated insulation voltage Ui	Rated control voltage Us	Tripping power consumption (W or VA)	Operation voltage Us	Diagram
Shunt release MX	415V	AC/DC:220~380V 110~220V	240	0.7~1.1	
		AC/DC:24~48V	120		
Shunt release + Axiliary contact MX+OF	415V	AC/DC:220~380V 110~220V	240	0.7~1.1	
		AC/DC:24~48V	120		

Under-voltage & Over-voltage Release technical parameters

Accessory name	Rated insulation voltage Ui	Operation voltage Us	Diagram
Shunt release MX	AC230V	Under-voltage:170V±5% Over-voltage:270V±5%	 2 phase  3 phase  3 phase 4 wire
Shunt release + Axiliary contact MX+OF	AC380V	Under-voltage:300V±5% Over-voltage:460V+5%	

YCB9-63 MCB

A



General

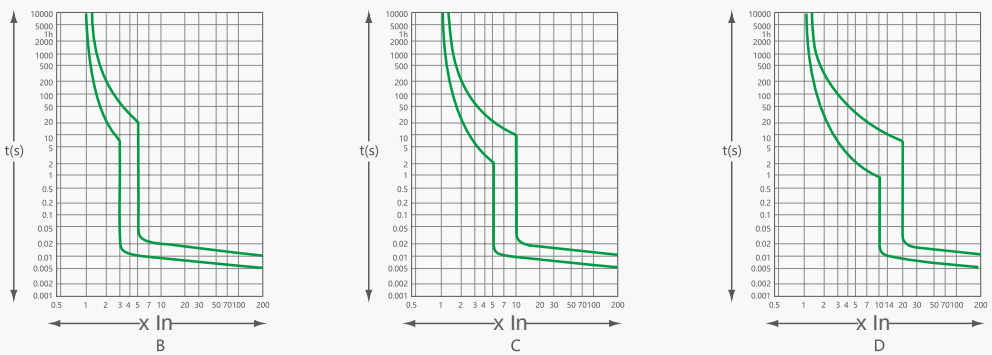
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure
5. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In, type D(10-20)In

Selection

Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
D	10In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	
D	20In	t < 0.1s	

Curve

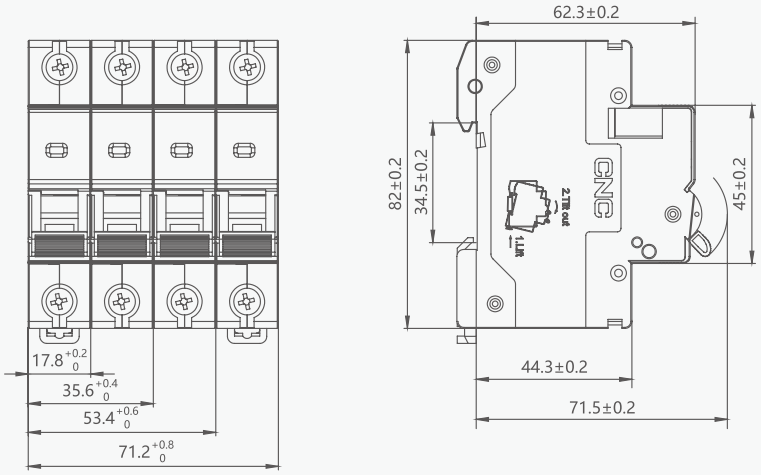


YCB9-63 MCB

Technical data

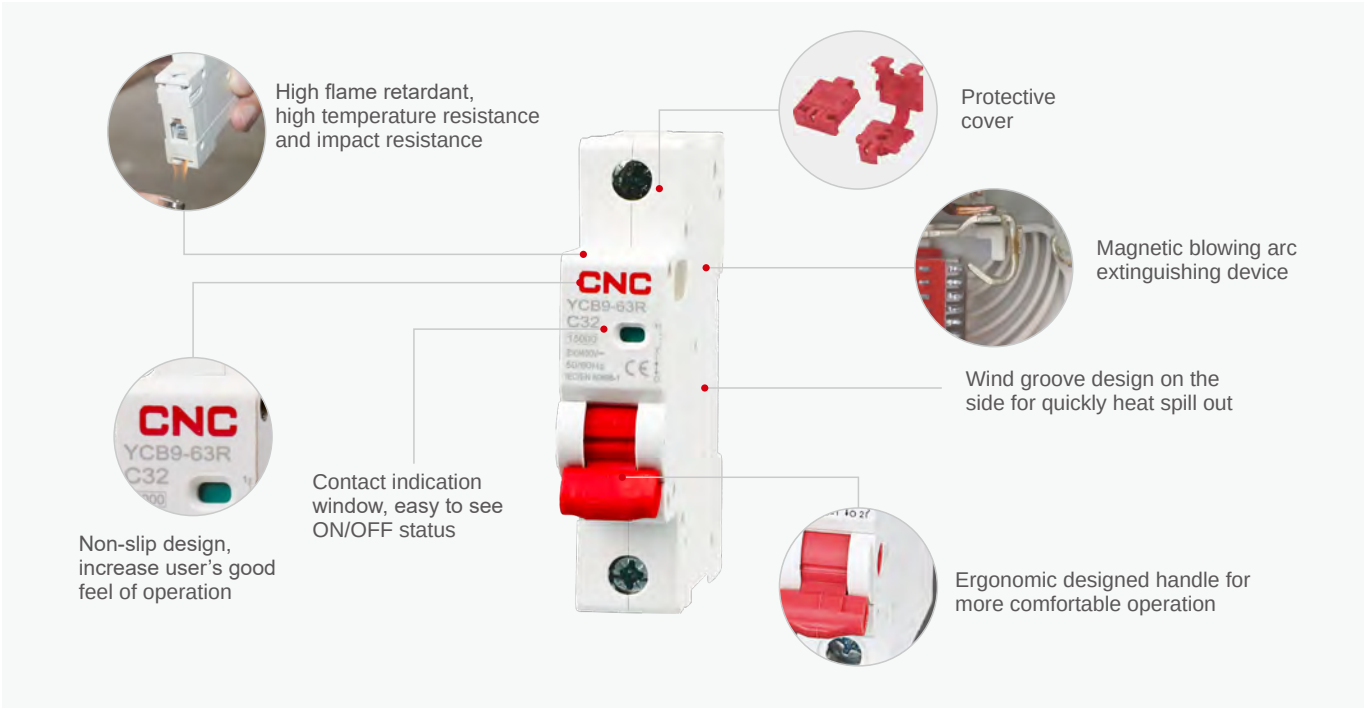
Type	Standard		IEC/EN 60898-1
Electrical features	Rated current In	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1, 2, 3, 4
	Rated voltage Ue	V	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	4500,6000
	Rated impulse withstand voltage(1.2/50)Uimp	V	4500(80A)/6000(1-63A)
	Dielectric test voltage at ind. Freg. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C,D
Mechanical features	Electrical life	t	6000
	Mechanical life	t	20000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average≤35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/ bottom for cable	mm^2	25
		AWG	18-3
	Terminal size top/ bottom for busbar	mm^2	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip
	Connection		From top or bottom

Overall and mounting dimensions(mm)



Modular DIN Rail

YCB9-63R MCB



General

YCB9-63R Series Miniature circuit breaker is applicable to protecting from overload and short circuit in the circuit of AC 50/60Hz, Rated voltage 230/400V rated current 63A,it also can be used in switch the infrequent operation of the circuit under normal conditions. It's mainly used in industry, commerce, high-rise buildings and residential houses and so on.

Standard: IEC 60898-1

Feature

1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure
5. According to the type of instantaneous release classified as follows: type B(3-5)In, type C(5-10)In, type D(10-20)In

Type designation

YC B 9 - 63 R

- R — Breaking capacitiy:15kA/25kA
- 63 — Frame size rated current
- 9 — Design number
- B — Miniature circuit breaker
- YC — Company code

YCB9-63R MCB

Operating conditions

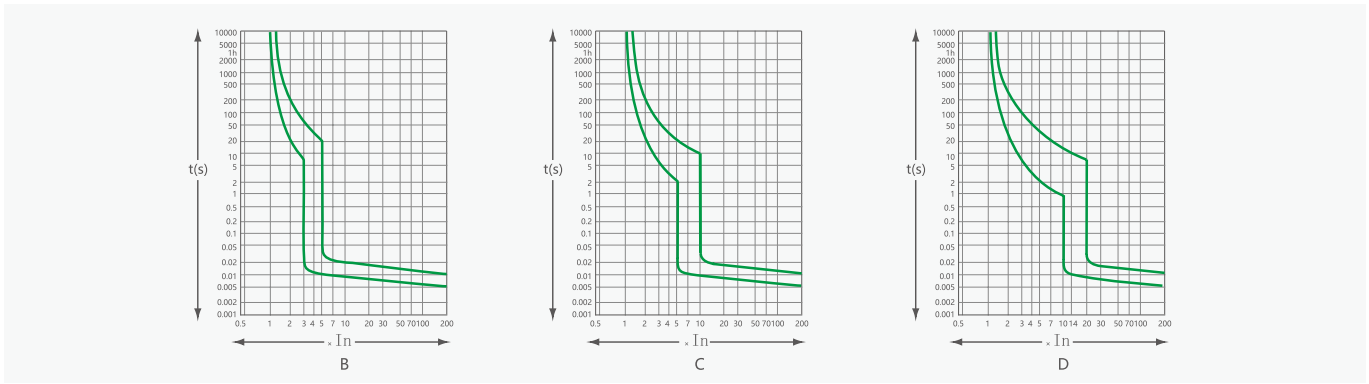
1. Circumstance temperature -5°C~+40°C,average temperature within 24h not exceeding +35°C.
2. Altitude above sea level less than 2000m.
3. Humidity not exceeding 50% at 40°C and not exceeding 90% at 25°C.
4. Pollution class 2.
5. Installation class Ⅱ or Ⅲ.
6. Installation method DIN Rail mounting type.
7. Product shall be installed at the place where there shall be no severe impact and vibration.
8. The product should locate in the places where there are no obvious impact and shake.

Selection

Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
D	10In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	
D	20In	t < 0.1s	

Curve



YCB9-63R MCB

Technical data

Type	Standard		IEC/EN 60898-1	
Electrical features	Rated current In	A	1.2,4,6,10,16,20,25,32.40,50,63	1,2,4,6,10,16,20,25,32,40
	Poles	P	1, 2, 3, 4	
	Rated voltage Ue	V	230/400	
	Insulation voltage Ui	V	500	
	Rated frequency	Hz	50/60	
	Rated breaking capacity	A	15000A	25000A
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000	
	Dielectric test voltage at ind. Freg. for 1min	kV	2	
	Pollution degree		2	
	Thermo-magnetic release characteristic		B, C, D	
Mechanical features	Electrical life	t	8000	
	Mechanical life	t	20000	
	Protection degree		IP40	
	Reference temperature for setting of thermal element	°C	30	
	Ambient temperature (with daily average≤35°C)	°C	-5~+40	
	Storage temperature	°C	-25~+70	
Installation	Terminal connection type		Cable/Pin-type busbar	
	Terminal size top/ bottom for cable	mm^2	25	
		AWG	18-3	
	Terminal size top/ bottom for busbar	mm^2	25	
		AWG	18-3	
	Tightening torque	N*m	2	
		In-lbs	18	
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip	
	Connection		From top or bottom	

Before installation, check whether technical parameter of the circuit breaker is in conformity with user's requirement. The conductor of power supply shall be connected to the up terminal of circuit breaker.During installation, the tightening torque is max 2.5N·m. The sectional area of connecting wire can refer to Table 1.

Table 1

Rated current In A	Conductor cross section S mm^2
6	1
10	1.5
16,20	2.5
25	4
32	6
40,50	10
63	16

YCB9-63R MCB

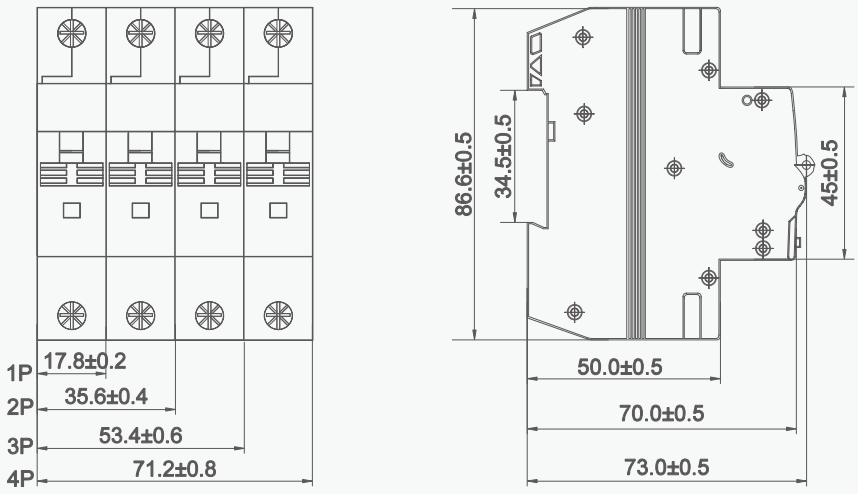
Temperature drop correction table

The maximum allowable current of the circuit breaker is related to the ambient temperature of the circuit breaker. The ambient temperature refers to the temperature in the distribution box or switch cabinet where the circuit breaker is installed. The reference temperature of various circuit breakers can be found in the values of the colored rows in the table.

Product standard: GB/T10963.1 IEC60898-1 (household standard)

temperature(°C)	-5	0	5	10	15	20	25	30	35	40	45
Rated current											
1A	1.16	1.14	1.11	1.09	1.07	1.05	1.02	1.00	0.98	0.95	0.92
2A	2.30	2.26	2.22	2.18	2.13	2.08	2.04	2.00	1.96	1.92	1.88
4A	4.72	4.63	4.53	4.43	4.32	4.22	4.11	4.00	3.89	3.77	3.65
6A	6.97	6.84	6.71	6.57	6.43	6.29	6.15	6.00	5.85	5.69	5.53
10A	12.25	11.95	11.65	11.34	11.02	10.69	10.35	10.00	9.64	9.26	8.86
16A	18.72	18.35	17.98	17.60	17.22	16.82	16.42	16.00	15.57	15.13	14.68
20A	23.24	22.80	22.36	21.91	21.45	20.98	20.49	20.00	19.49	18.97	18.44
25A	29.12	28.57	28.01	27.43	26.85	26.24	25.63	25.00	24.35	23.69	23.01
32A	37.18	36.49	35.78	35.05	34.32	33.56	32.79	32.00	31.19	30.36	29.50
40A	46.66	45.77	44.86	43.93	42.98	42.01	41.02	40.00	38.96	37.88	36.78
50A	58.57	57.43	56.26	55.06	53.84	52.59	51.31	50.00	48.65	47.27	45.84
63A	74.73	73.17	71.57	69.94	68.27	66.56	64.81	63.00	61.14	59.22	57.24

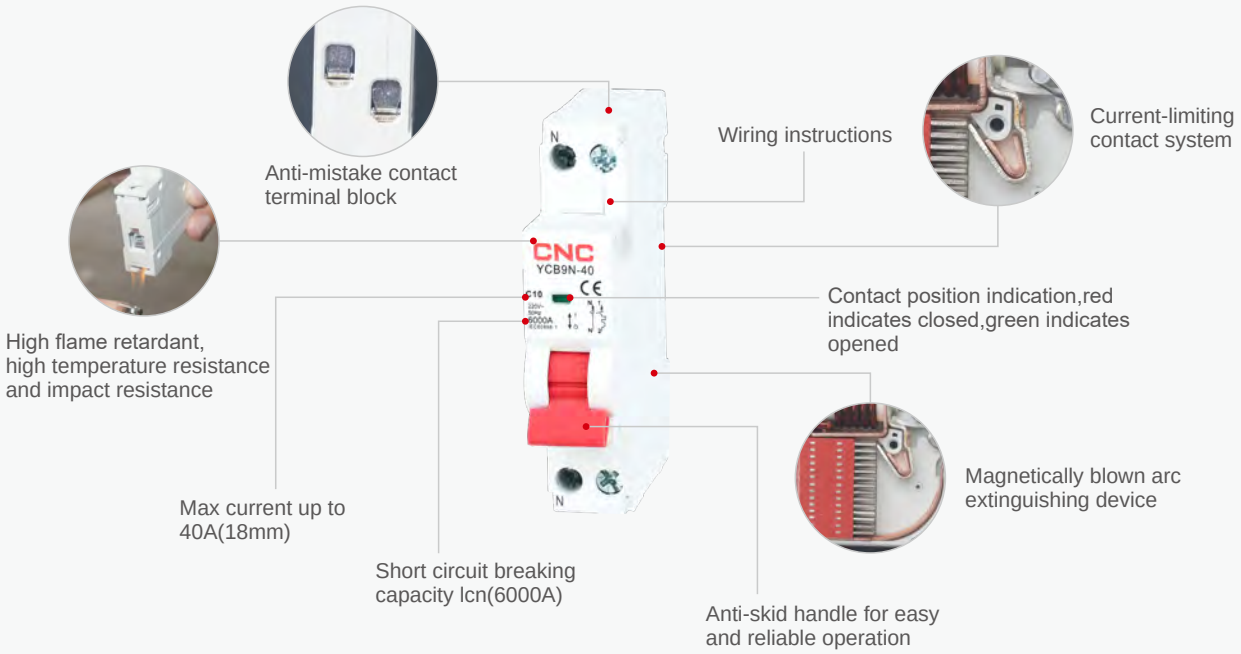
Overall and mounting dimensions (mm)



Operating conditions

1. When ordering, the customer shall indicate the product type, tripping curve, rated current, number of poles, accessories and quantity of the circuit breaker. For example: YCB9-63R C25 3P 880pcs.
2. Customers can negotiate separately if you have special requirements.

YCB9N-40 MCB DPN



General

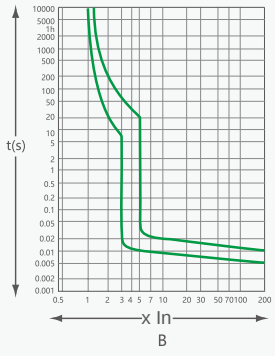
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure
5. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In

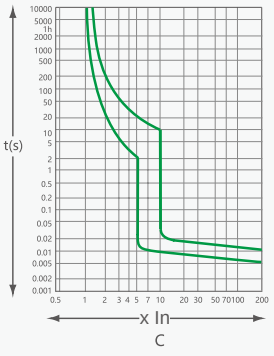
Selection

Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	

Curve





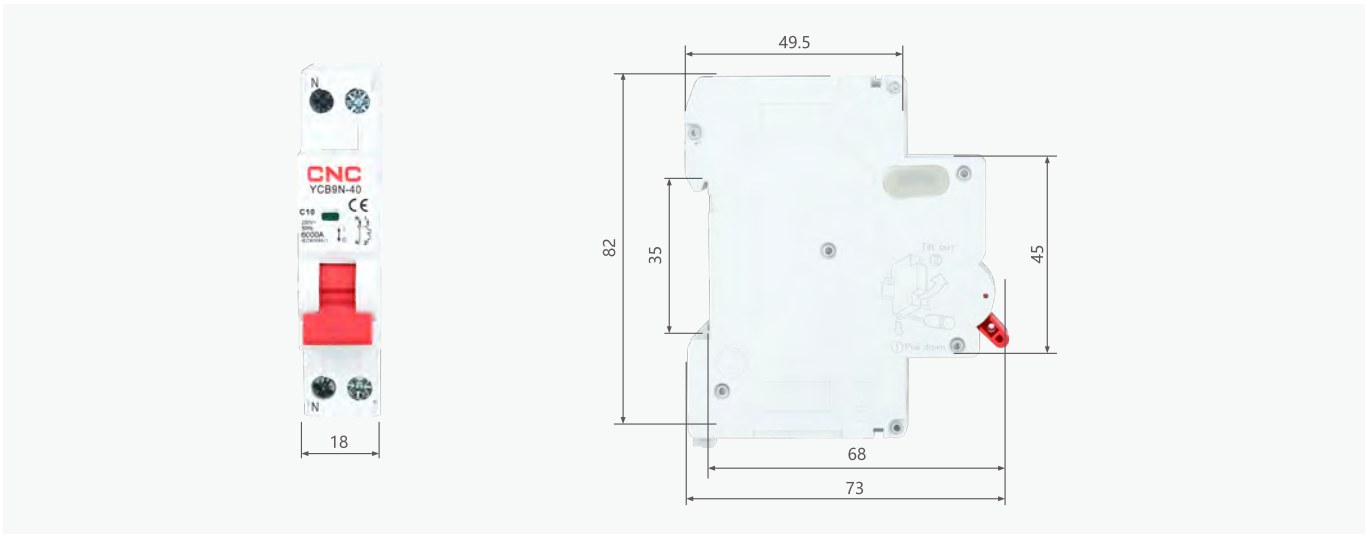
Modular DIN Rail

YCB9N-40 MCB DPN

Technical data

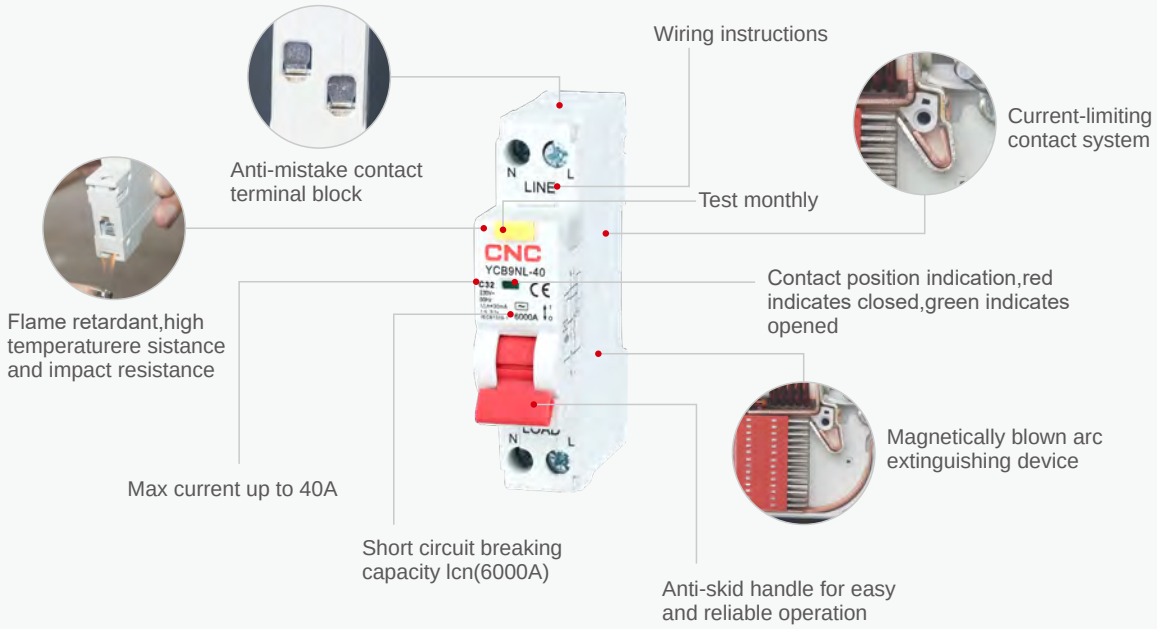
Type	Standard		IEC/EN 60898-1
Electrical features	Rated current In	A	6,10,16,20,25,32,40
	Poles	P	1P+N
	Rated voltage Ue	V	230
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	6000
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind. Freg. for 1min	kV	2
	Pollution degree		2
	Thermo-magnetic release characteristic		B,C
Mechanical features	Electrical life	t	8000
	Mechanical life	t	20000
	Protection degree		IP20
	Reference temperature for setting of thermal element	°C	30
	Ambient temperature (with daily average≤35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/ bottom for cable	mm^2	16
		AWG	18-5
	Terminal size top/ bottom for busbar	mm^2	10
		AWG	18-5
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip
	Connection		From top or bottom

Overall and mounting dimensions (mm)



Modular DIN Rail

YCB9NL-40 RCBO Electronic



General

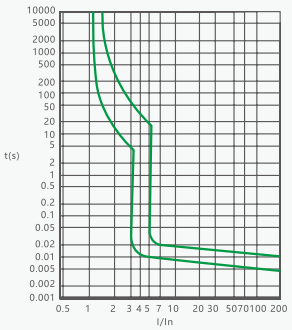
1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts.
4. Protection against fire hazard caused by insulation faults
5. Used in residential building
6. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In

Selection

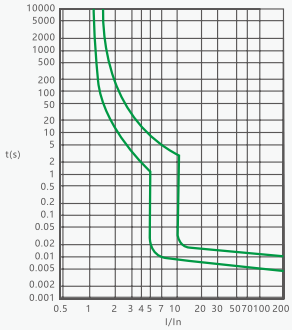
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.25In	1s< t <60s(In≤32A)	Tripping
	2.25In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	

Curve



B curve



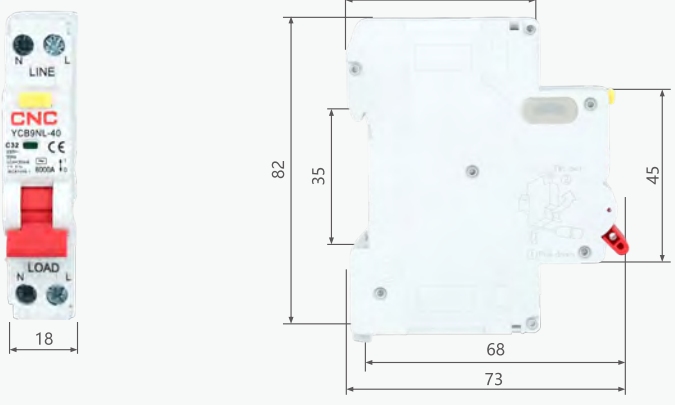
C curve

YCB9NL-40 RCBO Electronic

Technical data

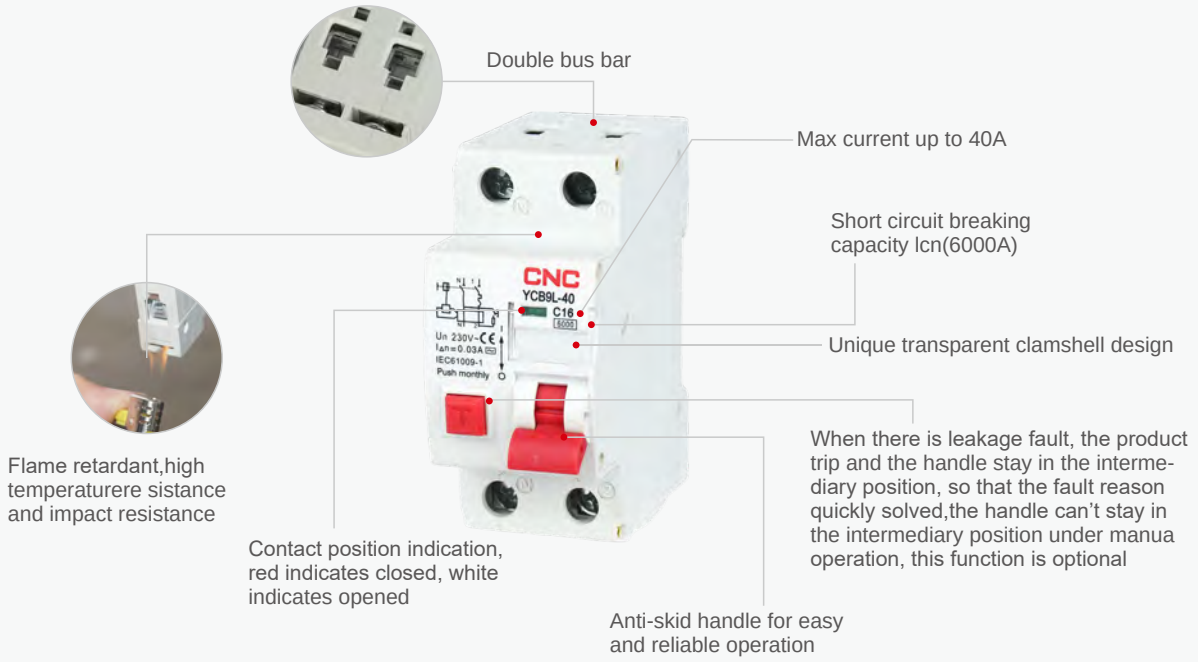
Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	1P+N
	Type(wave form of the earth leakage sensed)		AC
	Thermal-magnetic release characteristic		B, C, D
	Rated current In	A	6, 10, 16, 20, 25, 32, 40
	Rated voltage Ue	V	230
	Rated sensitivity IΔn	A	0.03, 0.05, 0.1
	Rated residual making and breaking capacity IΔm	A	500(In≤40A) 630(In>40A)
	Rated short-circuit capacity Icn	A	6000
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq.for 1min	kV	2
	Insulation voltage Ui	V	500
	Pollution degree		2
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Contact position indicator		Yes
	Protection degree		IP20
	Ambient temperature(with daily average≤35°C)	°C	-5~+40
	Storage temperature	°C	-25~+70
Installation	Terminal connection type		Cable/Pin-type busbar
	Terminal size top/bottom for cable	mm²	16
		AWG	18-5
	Terminal size top/bottom for busbar	mm²	10
		AWG	18-5
	Tightening torque	N*m	2
		In-lbs	18
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions (mm)



Modular DIN Rail

YCB9L-40 RCBO Electromagnetic



General

1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts
4. Protection against fire hazard caused by insulation faults
5. Used in residential building
6. According to the type of instantaneous release classified as follows: type B(3-5)In, type C(5-10)In

Selection

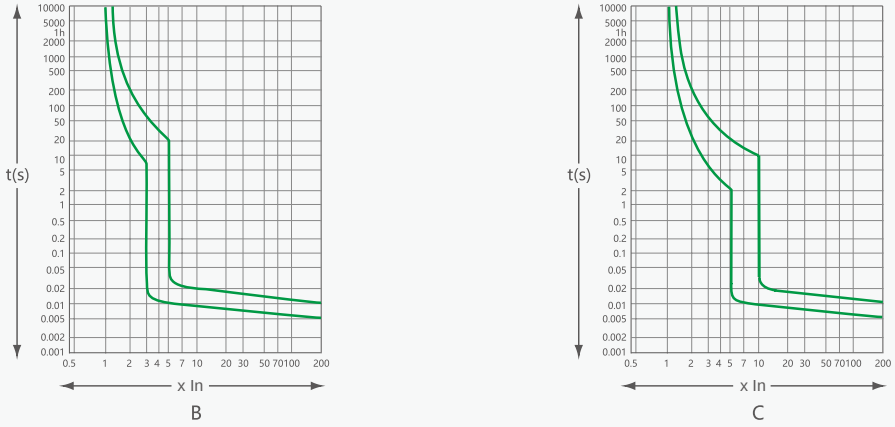
Type	Test current	Tripping time	Expected result
B,C	1.13In	t≤1h(In≤63A)	Not tripping
	1.13In	t≤2h(In>63A)	
B,C	1.45In	t<1h(In≤63A)	Tripping
	1.45In	t<2h(In>63A)	
B,C	2.55In	1s<t<60s(In≤32A)	Tripping
	2.55In	1s<t<120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	

YCB9L-40 RCBO Electromagnetic

Curve

B,C Curve

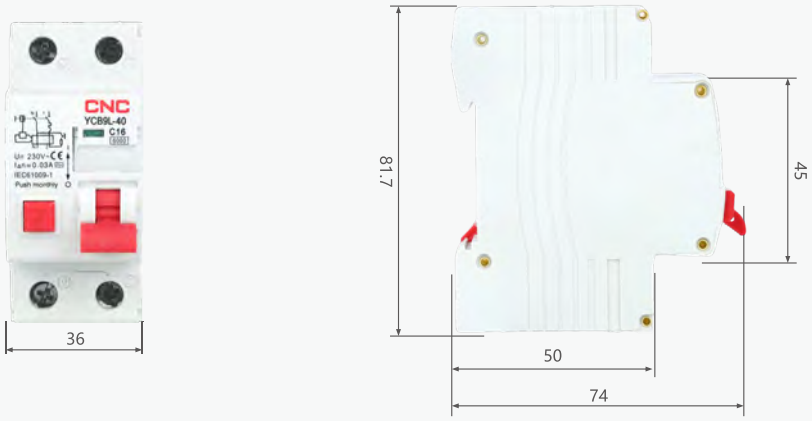


Technical data

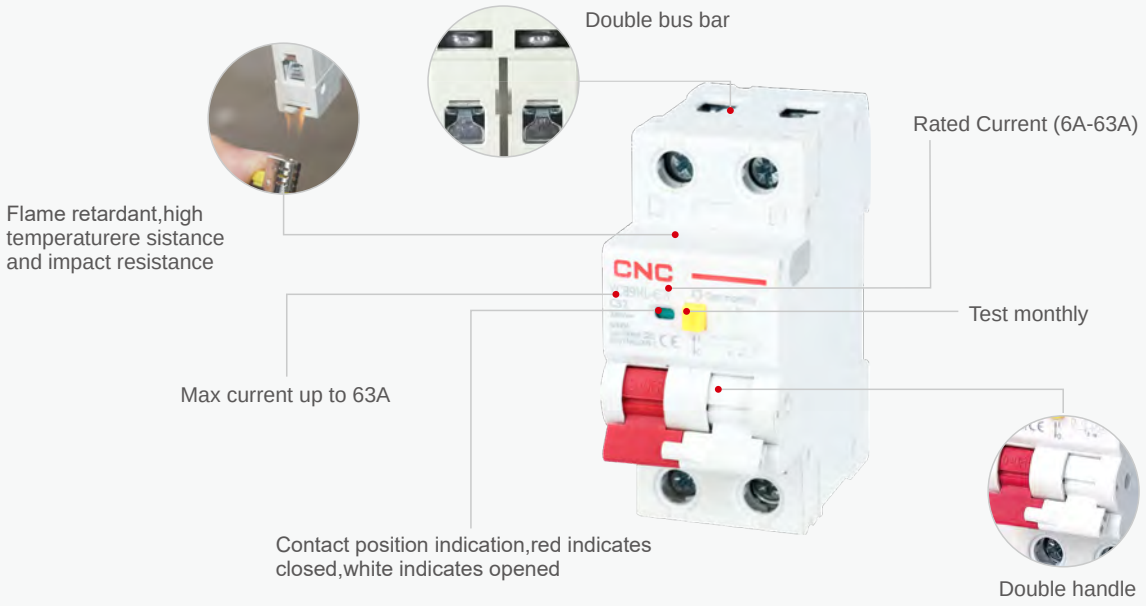
Type	Standard		IEC/EN 61009-1
Electrical features	Leakage type		Electromagnetic type
	Rated current In	A	6, 10, 16, 20, 25, 32, 40
	Type (wave form of the earth leakage sensed)		A, AC
	Poles	P	1P+N
	Rated voltage Ue	V	230
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity Icn	A	6000
	Rated impulse withstand voltage (1.2/50) Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Rated sensitivity IΔn	A	0.03, 0.05, 0.1
	Break time under IΔn	s	≤0.1
	Rated residual making and breaking capacity IΔm	A	500
	Pollution degree		2
Mechanical features	Electrical life	t	4000
	Mechanical life	t	8000
	Protection degree		IP20
	Storage temperature	°C	-25~+70
	Ambient temperature (with daily average≤35°C)	°C	-5~+40
Installation	Terminal connection type		Cable/U-type bar/Pin-type busbar
	Terminal size top / bottom for cable	mm²	16
		AWG	18-5
	Terminal size top / bottom for busbar	mm²	16
		AWG	18-5
	Tightening torque	N*m	1.2
		In-lbs	11
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

YCB9L-40 RCBO Electromagnetic

Overall and mounting dimensions (mm)



YCB9HL-63 RCBO Electromagnetic



General

YCB9HL-63 RCBO is an combined structure,the N pole is on the right side of the product.

Without auxiliary power supply, it overcomes the defects of electronic products; poor anti-interference, be greatly affected by power grid voltage fluctuation and can't be protected if the neutral line is disconnected;

Test circuit is dynamic controlled, and the test resistance is not easy to burn;

N pole contact can be opened and closed separately, with isolation function;

The impulse withstand voltage between L pole and N pole can reach up to 6000V;

The impulse withstand voltage between L pole, N pole and the metal support can reach up to 8000V;

Under the impact current of 200A, it has the ability to bear, and does not cause misoperation.

Feature

1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts
4. Protection against fire hazard caused by insulation faults
5. Used in residential building
6. According to the type of instantaneous release classified as follows: type B(3-5)In, type C(5-10)In

YCB9HL-63 RCBO Electromagnetic

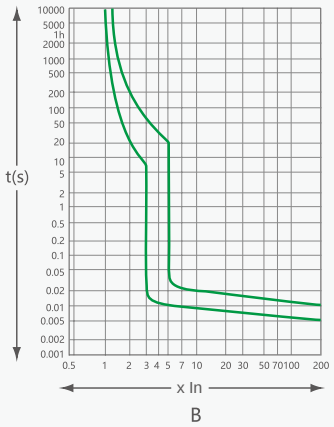
Selection

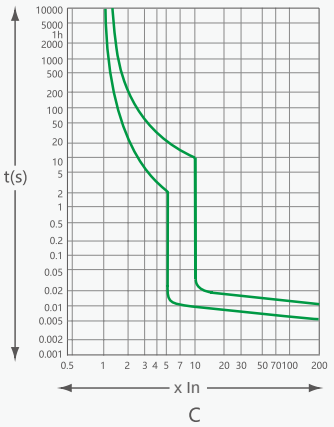
Type	Test current	Tripping time	Expected result
B,C	1.13In	t≤1h(In≤63A)	Not tripping
	1.13In	t≤2h(In>63A)	
B,C	1.45In	t<1h(In≤63A)	Tripping
	1.45In	t<2h(In>63A)	
B,C	2.55In	1s<t<60s(In≤32A)	Tripping
	2.55In	1s<t<120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	

Curve

B,C Curve





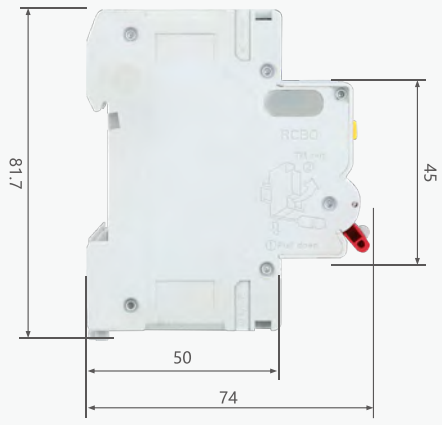
Modular DIN Rail

YCB9HL-63 RCBO Electromagnetic

Technical data

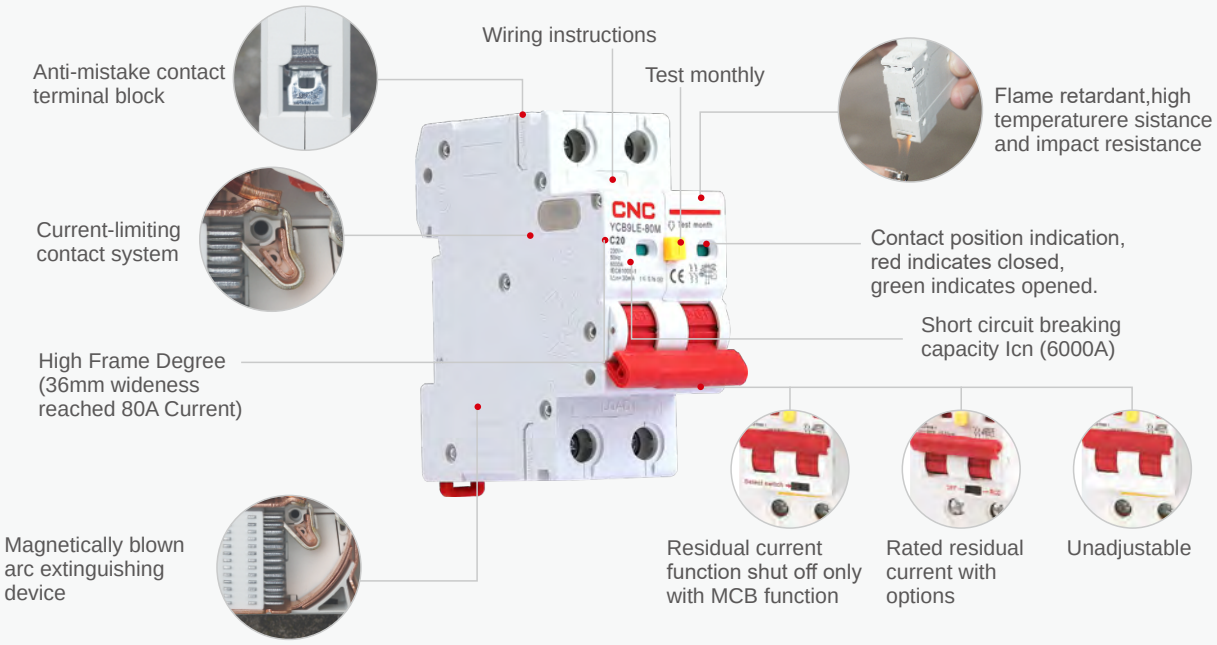
Type	Standard		IEC/EN 61009-1
Electrical features	Leakage type		Electromagnetic type
	Rated current In	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Type (wave form of the earth leakage sensed)		A,AC
	Poles	P	1P+N
	Rated voltage Ue	V	230
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity Icn	A	6000
	Rated impulse withstand voltage (1.2/50) Uimp	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Rated sensitivity IΔn	A	0.03, 0.05, 0.1
	Break time under IΔn	s	≤0.1
	Rated residual making and breaking capacity IΔm	A	500
	Pollution degree		2
Mechanical features	Electrical life	t	4000
	Mechanical life	t	8000
	Protection degree		IP20
	Storage temperature	°C	-25~+70
	Ambient temperature (with daily average≤35°C)	°C	-5~+40
Installation	Terminal connection type		Cable/U-type bar/Pin-type busbar
	Terminal size top / bottom for cable	mm²	16
		AWG	18-5
	Terminal size top / bottom for busbar	mm²	16
		AWG	18-5
	Tightening torque	N*m	1.2
		In-lbs	11
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

Overall and mounting dimensions (mm)



Modular DIN Rail

YCB9LE-80M RCBO Electronic



General

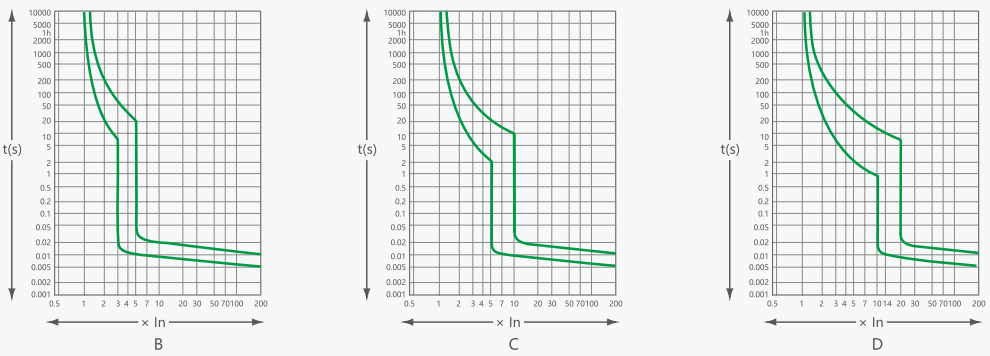
1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts
4. Protection against fire hazard caused by insulation faults
5. Used in residential building
6. According to the type of instantaneous release classified as follows: type B(3-5)In, type C(5-10)In

Selection

Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.55In	1s< t <60s(In≤32A)	Tripping
	2.55In	1s< t <120s(In>32A)	

Type	Test current	Tripping time	Expected result
B	3In	t≤0.1s	Not tripping
C	5In	t≤0.1s	
D	10In	t≤0.1s	
B	5In	t<0.1s	Tripping
C	10In	t<0.1s	
D	20In	t<0.1s	

Curve

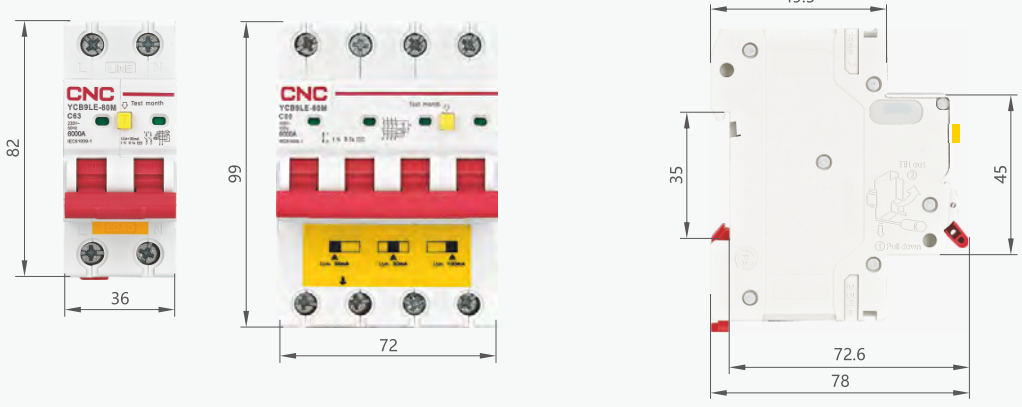


YCB9LE-80M RCBO Electronic

Technical data

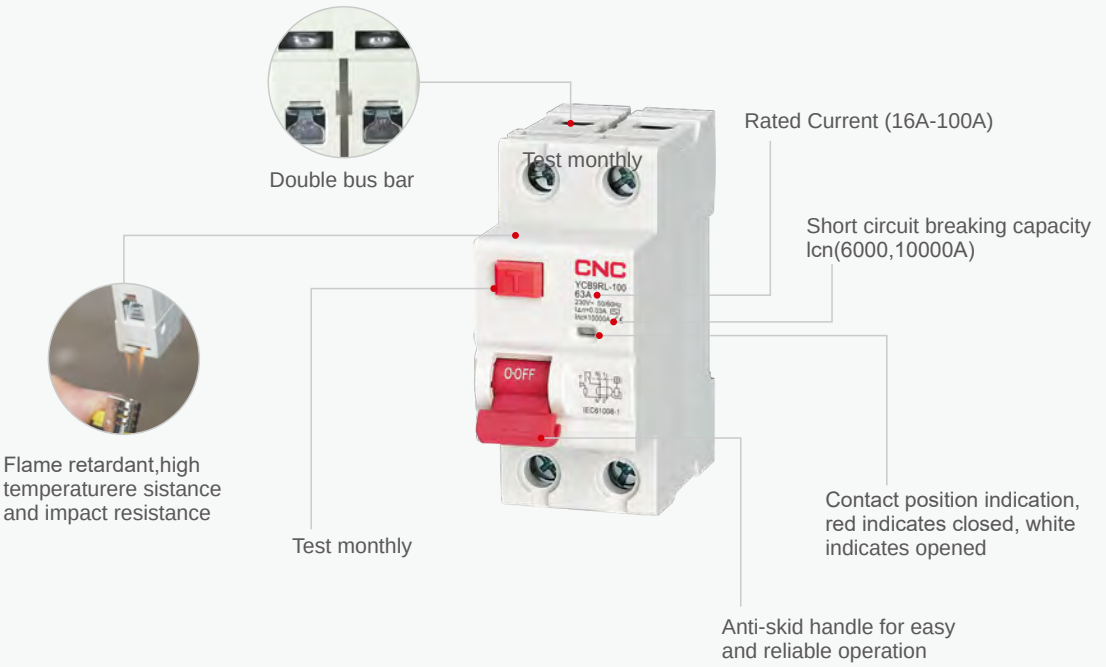
Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	2, 4
	Type(wave form of the earth leakage sensed)		A/AC
	Thermo-magnetic release characteristic		B, C, D
	Rated current In	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80
	Rated voltage Ue	V	230/400
	Rated sensitivity IΔn	A	0.03, 0.05, 0.1, 0.2
	Rated residual making and breaking capacity IΔm	A	500(In≤40A) 630(In>40A)
	Rated short-circuit capacity Icn	A	6000
	Break time under IΔn	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind.Freq.for 1min	kV	2
	Insulation voltage Ui	V	500
	Pollution degree		3
Mechanical features	Electrical life	t	4000
	Mechanical life	t	10000
	Contact position indicator		Yes
Installation	Protection degree		IP20
	Connection capacity	mm²	1~35
	Circumstance temperature	°C	-25~+70
	Elevation	m	≤2000
	Pollution degree		3
	Terminal connection type		Cable/Pin-type busbar
	Installation Environment		No obvious vibration and shock
	Installation category		III
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions (mm)



Modular DIN Rail

YCB9RL-100 RCCB Electromagnetic



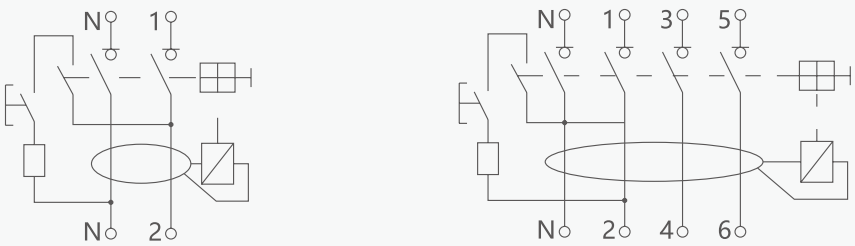
General

1. Protection against the effects of sinusoidal alternating earth fault currents
2. Protection against indirect contacts and additional protection against direct contacts
3. Protection against fire hazard caused by insulation faults
4. Controlling and Switching
5. Used in residential building, non-residential building, energy sources, industry and infrastructure

Selection

Type		Tripping sensitivity data	
AC	For residual sinusoidal alternating currents	30mA, 10mA	For personnel, material and fire protection, as well as for protection against direct contact
A	For residual sinusoidal alternating currents and residual pulsating direct currents	100mA	For providing protection against indirect contacts
S	For selectivity, with time delay	300mA	For providing fire protection in case of insulation faults

Wiring Diagram



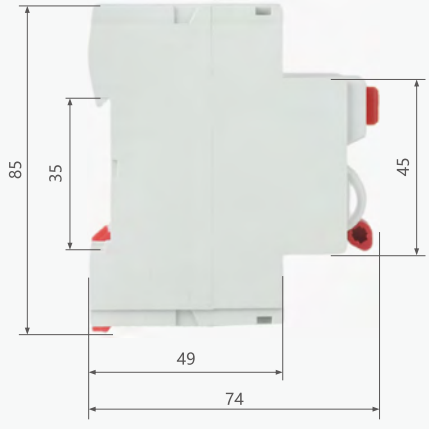
Modular DIN Rail

YCB9RL-100 RCCB Electromagnetic

Technical data

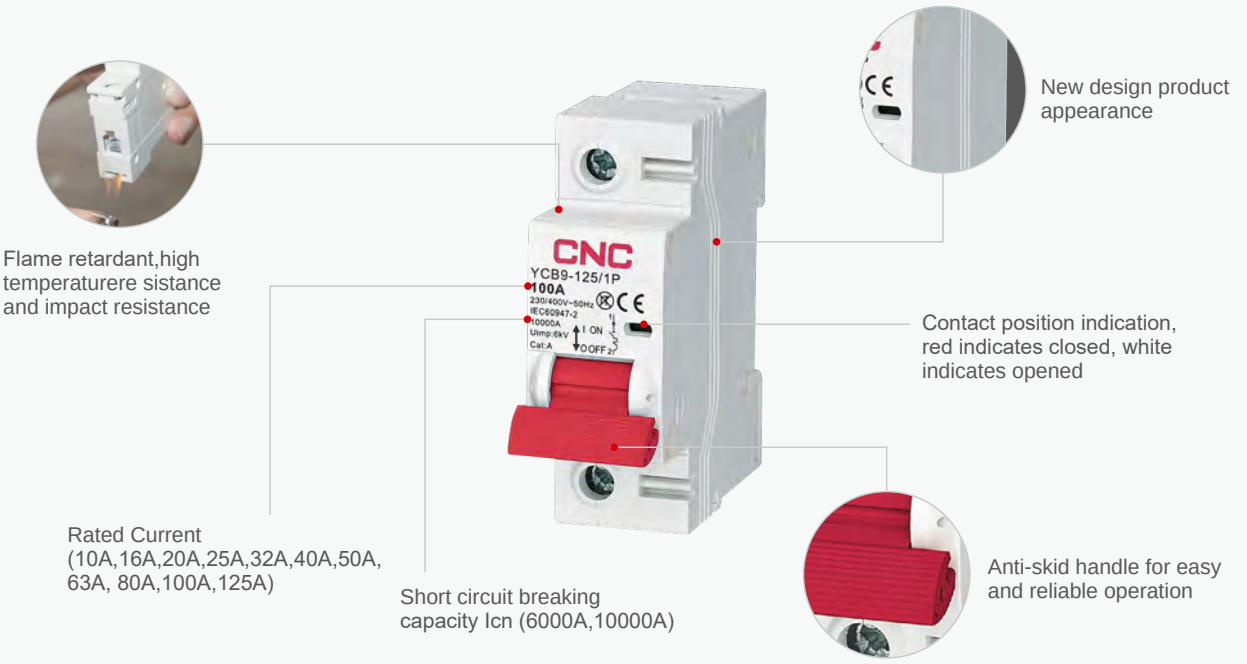
Type	Standard		IEC/EN 61008-1
Electrical features	Leakage type		Electromagnetic type
	Rated current In	A	16, 25, 32, 40, 50, 63, 80, 100
	Type (wave form of the earth leakage sensed)		A, AC,AS
	Poles		2, 4
	Rated voltage Ue	P	230/400
	Insulation voltage Ui	V	500
	Rated frequency	V	50/60
	Rated breaking capacity Inc=IΔc	Hz	6000, 10000
	Rated impulse withstand voltage (1.2/50) Uimp	A	6000
	Dielectric test voltage at ind. Freq. for 1min	V	2.5
	Rated sensitivity IΔn	kV	0.03, 0.1, 0.3
	Rated residual making and breaking capacity IΔm	A	500(In≤40A); 630(In=50A/63A);1000(In=80A/100A)
	Pollution degree		2
	Electrical life	t	4000
Mechanical features	Mechanical life	t	8000
	Protection degree		IP20
	Storage temperature	°C	-25~+70
Installation	Ambient temperature (with daily average≤35°C)	°C	-5~+40
	Terminal connection type		Cable/Pin-type busbar/U-type busbar
	Terminal size top / bottom for cable	mm²	25/35
		AWG	18-3/18-2
	Terminal size top / bottom for busbar	mm²	10/16
		AWG	18-8/18-5
	Tightening torque	N*m	2.5
		In-lbs	22
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Connection		From top and bottom

Overall and mounting dimensions (mm)



YCB9-125 MCB

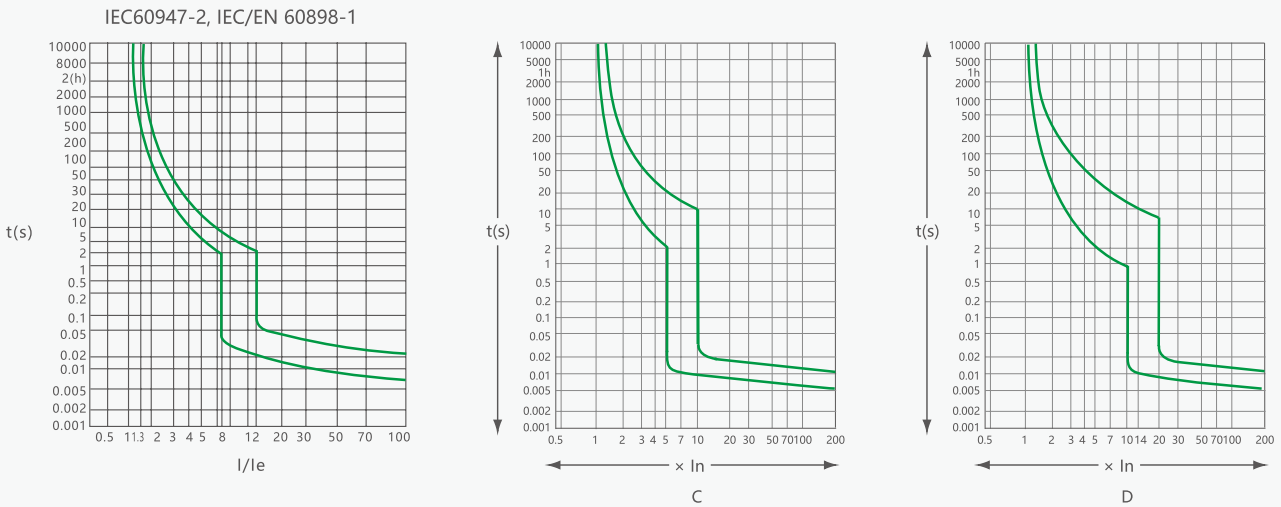
A



General

1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure

Curve



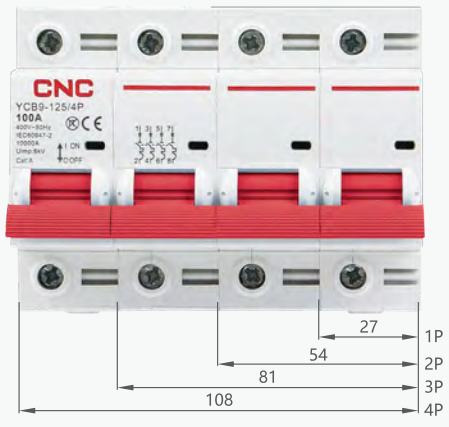
Modular DIN Rail

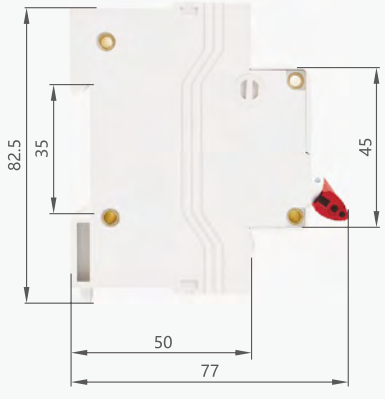
YCB9-125 MCB

Technical data

Type	Standard		IEC60947-2	IEC/EN 60898-1
Electrical features	Rated current In	A	10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125	
	Poles	P	1, 2, 3, 4	
	Rated voltage Ue	V	230/400	
	Insulation voltage Ui	V	500	
	Rated frequency	Hz	50/60	
	Rated breaking capacity	A	6000	
	Rated impulse withstand voltage(1.2/50) Uimp	V	6000, 10000	
	Dielectric test voltage at ind. Freq. for 1min	kV	2.5	
	Pollution degree		3	
	Thermo-magnetic release characteristic		8-12In	B, C,D
Mechanical features	Electrical life	t	1500	
	Mechanical life	t	10000	
	Contact position indicator		Yes	
	Protection degree		IP20	
	Reference temperature for setting of thermal element		30	
	Ambient temperature (with daily average ≤35°C)	°C	-5~+40(Special application please refer to temperature compensation correction)	
	Storage temperature	°C	-25~+70	
Installation	Terminal connection type	°C	Cable/Pin-type busbar	
	Terminal size top / bottom for cable	mm²	50	
		AWG	18-1/0	
	Terminal size top / bottom for busbar	mm²	50	
		AWG	18-1/0	
	Tightening torque	N*m	3.5	
		In-lbs	31	
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device	
	Connection		From top and bottom	

Overall and mounting dimensions(mm)





Modular DIN Rail

YCH9-40 Isolating Switch

General

YCH9-40 was designed according to lEc 60947-3. 1t meets thedemand of loading and isolating the circuit, it is used as a main switch in distrlbution boxesin household applications or as a switch for individual electric circuits, easily to be assembledand work with the same series compact circuit breakers together.

Standard:IEC60947-3

Features

1. Rated Current up to 40A
2. Only 9mm for 1P
3. Frameworks are 2P/4P
4. Compatible with customized busbar

Type designation

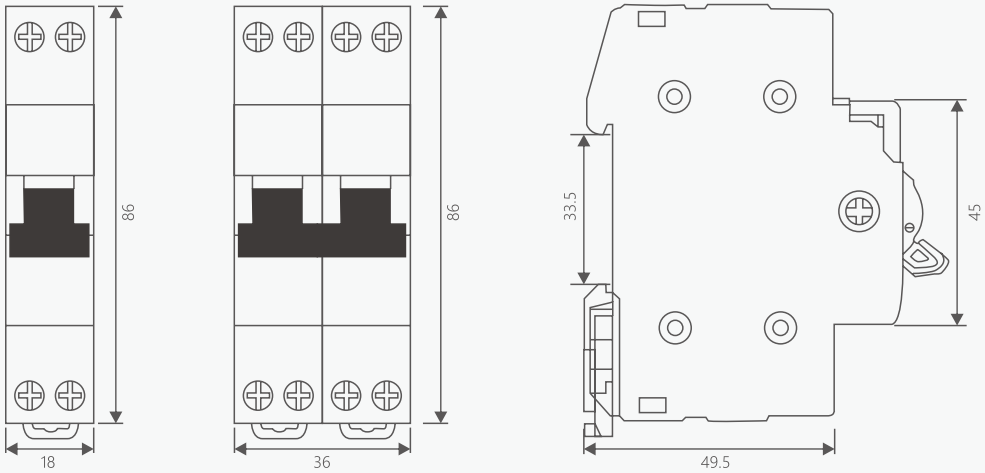
Model		Shell frame	Poles	Rated current
YCH9	-	40	1M	25A
IIsolation switch (narrow type)		40	1M:2-circuit 2M:4-circuit	25A 40A

Technical data

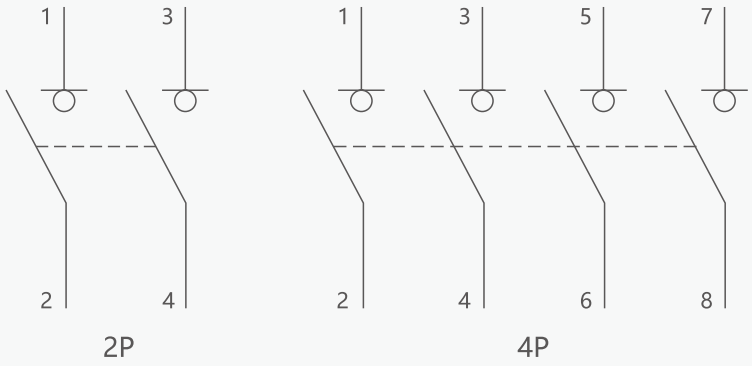
Model	Standard	Model	IEC/EN 60947-3
Electrical features	Poles	P	2P, 4P
	Rated voltage Ue	V	240/415
	Rated current le	A	16,20,25,32,40
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage Uimp	V	4000
	Rated short-time withstand current lcw	A	480
	Rated short circuit making capacity lcm	A	480
	Pollution degree		3
	Insulation voltage Ui	V	500
Mechanical features	Electrical life	t	1500
	Mechanical life	t	8500
	Protection degree		IP20
	Ambient temperature(with daily average≤35°C)	°C	-5~+40
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Terminal capacity	t	1-10mm^2
	Busbar specification	t	08-2.5mm
	Terminal fastening torque		1.2N.m

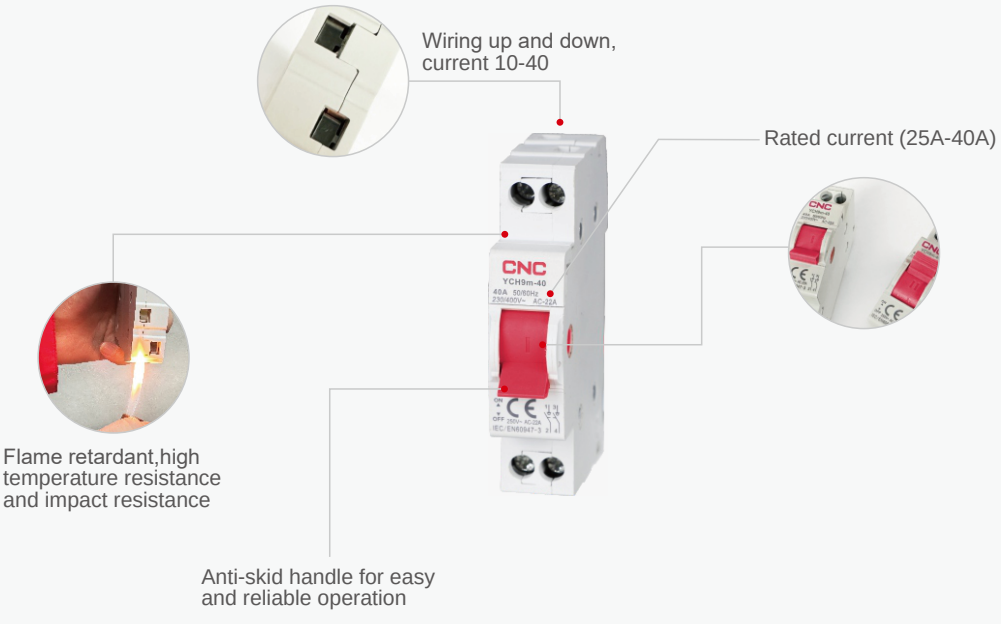
YCH9-40 Isolating Switch

Overall and mounting dimensions(mm)



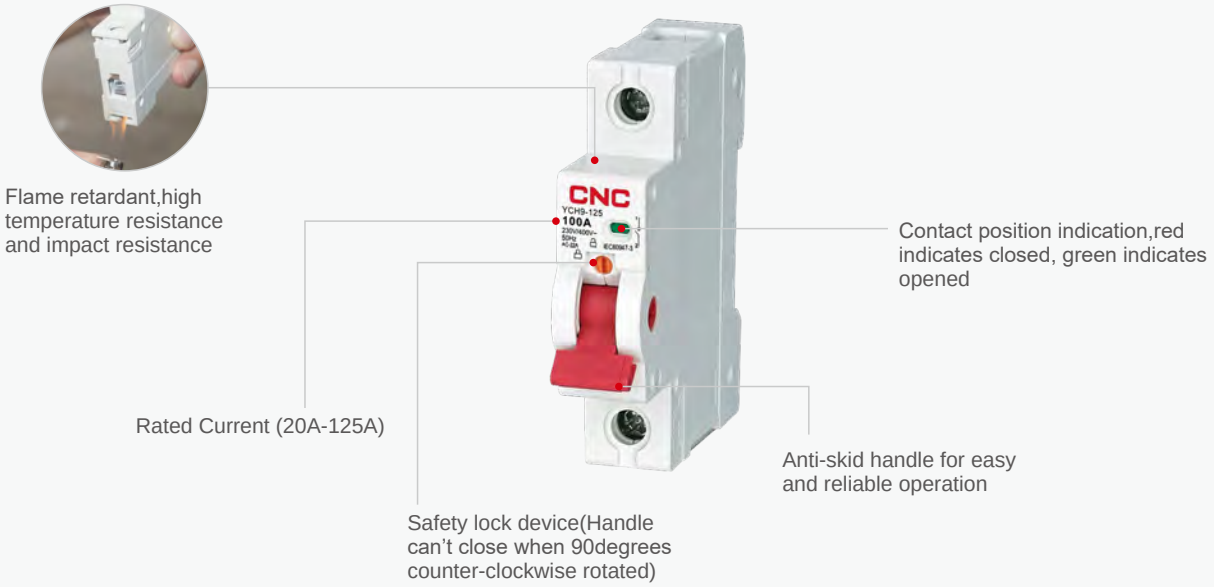
Wiring diagram





Modular DIN Rail

YCH9-125 Isolating Switch



General

YCH9-125 series isolating switch is suitable in the resistive circuit of Ac 50/60HZ, rated voltage 230/400V, rated current up to 125A. It's used primarily for circuit's turning on or off in non-load ed situation, And it functions on connection and isolation between lines and power, especially suitable to isolate power effectively and prevent circuit breaker from closing accidentally when maintain the circuit in order to ensure the safe operation of maintainer.

Product standard:IEC600947-3

Operating Conditions

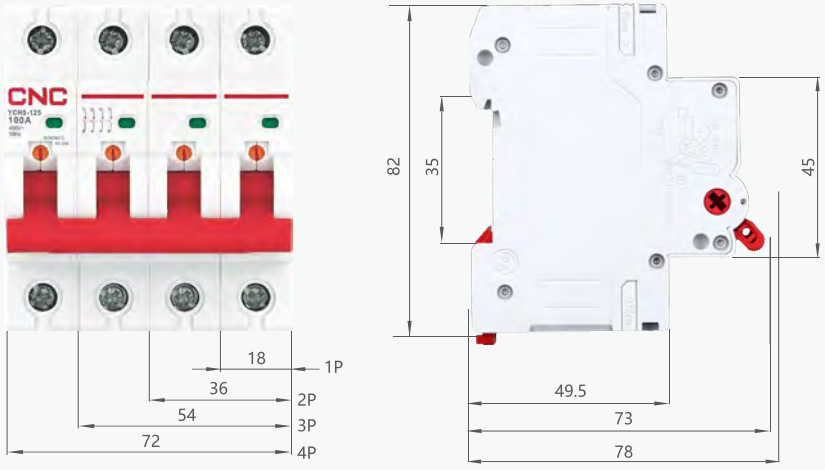
1. Ambient Temperature: -25°C~+60°C
2. Altitude: Not higher than 2000m
3. Use Category: AC-22A
4. Installation Method: Embedded vertical standard rail mounting
5. Wiring Method: Clamp connection wire with screw, tightening torque 2.5N.m

YCH9-125 Isolating Switch

Technical data

Model	Standard	Model	IEC/EN 60947-3
Electrical features	Poles	P	1,2,3,4
	Rated voltage Ue	V	230/400
	Rated current Ie	A	20,32,40,63, 80,100,125
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Rated short-time withstand current Icw		12Ie, 1s
	Rated making and breaking capacity		3Ie,1.05Ue, cosΦ=0.65
	Rated short circuit making capacity		20Ie, t=0.1s
	Dielectric test voltage at ind.Freg.for 1min	kV	2.5
	Insulation voltage Ui	V	500
	Pollution degree	t	2
Mechanical features	Electrical life	t	1500
	Mechanical life		8500
	Protection degree	°C	IP20
	Ambient temperature(with daily average≤35°C)	mm^2	-5~+40
Installation	Terminal size top/bottomfor cable and pin-type busbar	AWG	50

Overall and mounting dimensions(mm)



AFDD Arc Fault Detection Devices

A

*Setting Button: The setting button is concealed internally and can be accessed using a paperclip. A short press of the button will cause the operation light to flash a certain number of times, indicating the current working mode. A long press will toggle between the four working modes.

Flash once: Interference-resistant mode,suitable for scenarios with strong interference, large machine tools, and high harmonics pollution (lower sensitivity).

Flash twice: Strict mode,suitable for general factories, centralized lighting, large offices, and places with complex power conditions.

Flash three times: Normal mode,suitable for residential homes, office buildings, dormitories, and other places with good power environments.

Flash 4 times: Sensitive mode,suitable for scenarios with long line attenuation and no interference in the power grid.

AFDD Arc Fault Detection Devices

AFDD C20

General

AFDD (Arc Fault Detection Devices)is a new type of electrical fire protection device, which can avoid the fire caused by short circuit, wire aging, heavy load, poor contact, electrical product failure and so on. AFDD built-in computer chip, real-time automatic control. Its working principle is to process, compare and identify the detected arc pulse through the electronic circuit and MCU. Once the fault arc pulse that is prone to fire is detected, a signal is output to drive the tripping device and cut off the load power supply to prevent fire.Generally it is used in residential buildings, as the end of the protection of electrical appliances, AFDD application range is very wide, in principle as long as there is electricity, it can use AFDD to prevent electrical fire, such as residential buildings, office buildings, hospitals, shopping malls, supermarkets, factories, vehicles (cars, trains, ships, planes), etc.,especially for the residential for electrical fire prevention.

Feature

1. Overload long delay protection
2. Overload short delay protection
3. Instantaneous trip protection
4. Series arc fault protection
5. Parallel arc fault protection
6. Ground arc fault protection
7. Multiple current ratings.

Type designation

AFDD 2P C 16A

- 16A — Electric current
- C — Trip type
- 2P — Number of poles
- AFDD — Arc barrier protection

AFDD Arc Fault Detection Devices

Technical data

Table 1

Item	Parameter	Data
Electrical features	Rated voltage Ue (V)	230V~
	Rated current In (A)	6A,10A,16A,20A,25A, 32A,40A,50A,63A
	Rated sensitivity IΔn(A)	0.03A
	Poles	2P+N , 2P , 1P+N
	Wave form of the earth leakage sensed	AC
	Thermo-magnetic release characteristic	C(5-10In)
	Rated short circuit capacity Icn (A)	4500
	Rated residual making and breaking capacity IΔm (A)	500A(In≤50A),630A(In≤63A)
	Rated insulation voltage Ui (V)	500V
	Rated impulse withstand voltage Uimp (V)	4000V
	Pollution degree	2
Mechanical features	Electrical life	10000
	Mechanical life	20000
	Protection degree	IP20
	Ambient temperature (°C)	-25~+40
	Storage temperature (°C)	-25~+70
Installation	Tightening torque (N.m)	2
	Terminal size for cable (mm)	16
	Installation category	Ⅱ

Features

AFDD-63 series Arc Fault Detection Devices includes residual current protection, fault arc protection, overload and short circuit protection. The residual current tripping characteristics of AFDD are shown in Table 2 below.

Technical data

Table 2

Model	In(A)	IΔn	Time limit for tripping or not tripping			
			IΔn	2IΔn	5IΔn	
AFDD-63	6A,10A,16A, 20A,25A,32A, 40A,50A,63A,	>0.03	0.03	0.15		Maximum tripping time
		0.03	0.03	0.15		
		<0.03	0.03	0.15	0.04	

The arc fault protection function of AFDD mainly includes the arc fault protection detection unit, the unit detects and identifies fault arcs in the line and sends tripping signals, tripping release takes off the operation mechanism of the product and makes the main contact of AFDD-63 from closed position to open position, thus disconnecting the fault line and effectively avoiding the fire caused by the arc fault.

The time limit for tripping of AFDD-63 with rated voltage 230V are shown in Table 3 and Table 4.

AFDD Arc Fault Detection Devices

Limit value for tripping of AFDD under small arc current below 63A

Table 3

Arc current of test(the effective value)	3A	6A	13A	20A	40A	63A
Maximum tripping time	1s	0.5s	0.25s	0.15s	0.12s	0.12s
The arc current of test is the expected current before ignition occurs in the test circuit.						

Limit value for tripping of AFDD under large arc current above 63A

Table 4

Arc current of test(the effective value)	75A	100A	150A	200A	300A	500A
N	12	10	8	8	8	8
N is the number of half waves at the rated frequency						

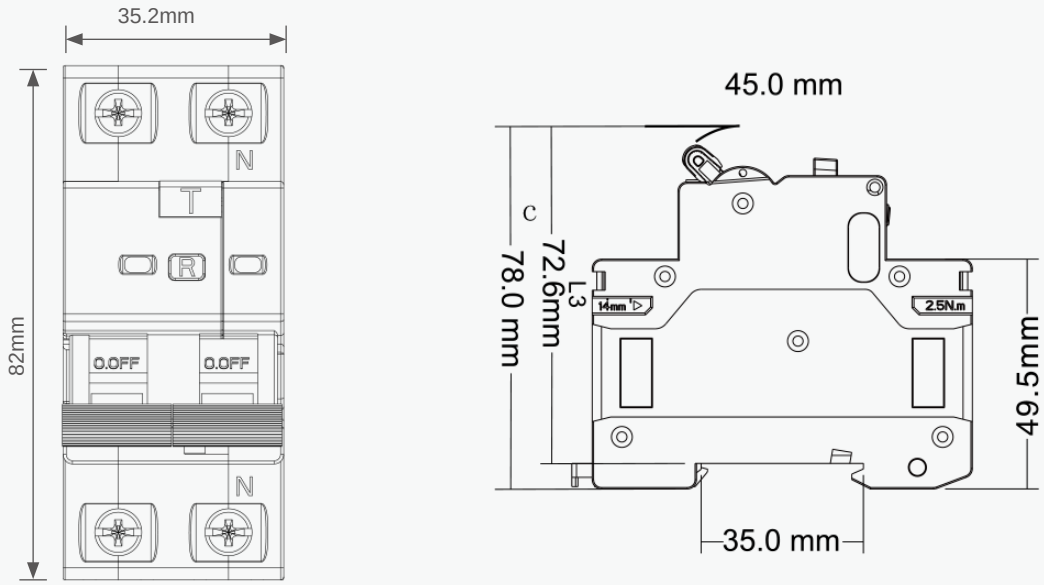
Over current protection characteristics (reference temperature 30°C)

Table 5

Type	In(A)	Tripping time	Expected result
B,C,D	1.13In	t≤1h(In≤63A)	Not tripping
	1.13In	t≤2h(In>63A)	
B,C,D	1.45In	t<1h(In≤63A)	Tripping
	1.45In	t<2h(In>63A)	
B,C,D	2.55In	1s<t<60s(In≤32A)	Tripping
	2.55In	1s<t<120s(In>32A)	

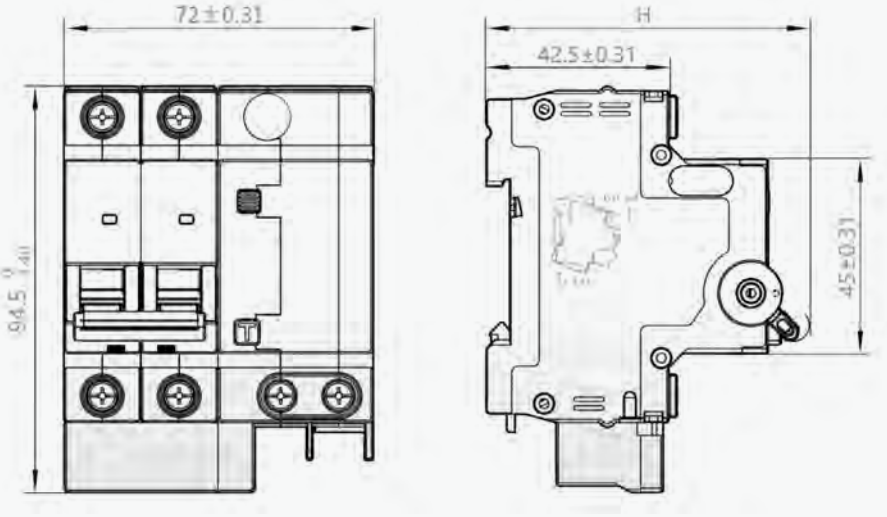
Type	In(A)	Tripping time	Expected result
B,C,D	B	t≤0.1s	Not tripping
	C	t≤0.1s	
B,C,D	D	t≤0.1s	
	B	t<0.1s	Tripping
B,C,D	C	t<0.1s	
	D	t<0.1s	

Overall and mounting dimensions(mm)

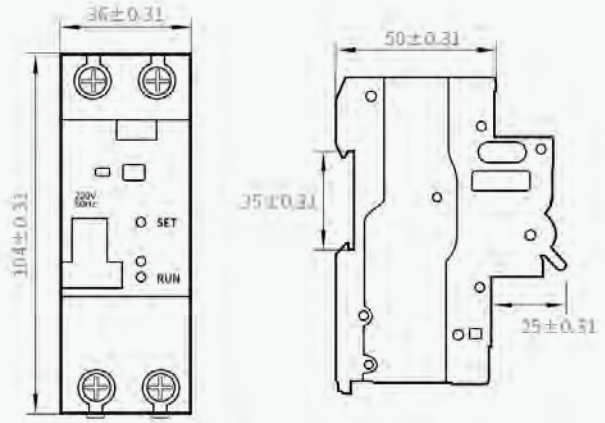


2P+N

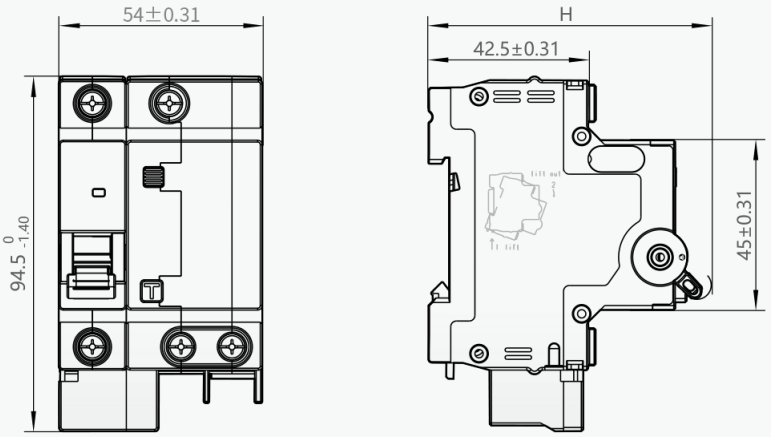
AFDD Arc Fault Detection Devices



2P+N



2P Single handle



1P+N

Installation and Usage (Maintenance)

a. Before installation, check if the product markings match the intended conditions of use.

b. Before installation, operate the AFDD arc fault protection device to ensure that its mechanism moves smoothly, reliably, and without any jamming.

c. Connect the input terminal to the power supply and the output terminal to the load.

d. After power is applied, press the test button on the AFDD arc fault protection device several times to confirm its reliable operation.

e. When the handle moves upwards, the MCB (Miniature Circuit Breaker) side handle displays "0N," and the indicator window changes from green to red, indicating that the circuit is in the ON state. When the handle moves downwards and the MCB side handle displays "OFF," the indicator window changes from red to green, indicating that the circuit is in the OFF state.

f. During installation, securely fix the AFDD arc fault protection device onto the installation rail to prevent loosening or falling. To remove the AFDD arc fault protection device, simply pull the stopper.

g. The working reference temperature for the AFDD arc fault protection device is +30+5 °C. When the ambient temperature changes, the rated values should be adjusted accordingly. If multiple AFDD arc fault protection devices are installed in an enclosed enclosure, the internal temperature of the enclosure will rise, and the rated current should be multiplied by a derating factor of 0.8.

Fault analysis

Fault Analysis and Troubleshooting of AFDD Arc Fault Protection Device can be found in Table 6.

Table 6

Fault cause		Fault analysis	Troubleshooting
Refusal to operate	The AFDD circuit breaker is not connected to the neutral wire, causing refusal to operate	The AFDD circuit breaker is only connected to the phase wire on the power side and the neutral wire is not connected.	Connect the neutral wire on the power side.
False tripping	The AFDD circuit breaker trips due to a short circuit	The line (L) and neutral (N) wires at the incoming and outgoing terminals of the AFDD circuit breaker are crossed	Strictly follow the wiring diagram and the product markings to correctly connect the circuit.

YCB9ZF-100AP,100W Smart Circuit Breaker

A

YCB9ZF-100W(WIFI)

General

- Data monitoring
- Fault alarm, protection
- Centralized management
- Analysis of energy consumption
- Portable barrier remover
- Handle dangerous situations anytime and anywhere
- Remote control
- Rights management
- The regional search
- Data report
- Remote location + diagnosis

Features

Comprehensively protect the safety of human electricity

- Local + remote integrated control Local + remote leakage self-check
- Operation record can be checked
- Fault early warning
- Over undervoltage protection
- Over temperature protection
- Voltage/current imbalance
- Preventing electricity-stolen
- Current limit
- Automatic reclosing
- Local + remote locking
- Custom warning thresholds
- Troubleshooting advice
- Centralized management
- Electricity statistics
- Maintenance and overhauls closed by mistake
- Electrical fire factor monitoring
- Generate report analysis automatically
- The leakage protection current can be adjusted
- Fault location/fault alarm
- Overload protection
- Open phase protection
- Fault phase protection
- Scene mode
- Short circuit protection
- Fault cause recording
- Power factor calculation
- Chart simulation display
- Line timing
- Tripping protection
- Rights management
- Power contrast
- Conditional linkage control
- Historical data import
- Status indication

YCB9ZF-100W(WIFI)

YCB9ZF-100AP(4G)

Multi-function instrument

Contactor

Leakage protection circuit breaker

Electrical fire monitoring detector

Electric meter

The circuit breaker

Intelligent lighting module

Over undervoltage protector

Temperature sensor

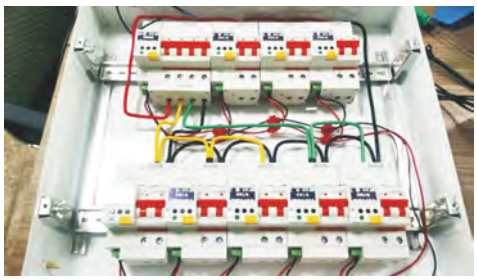
Residual current transformer

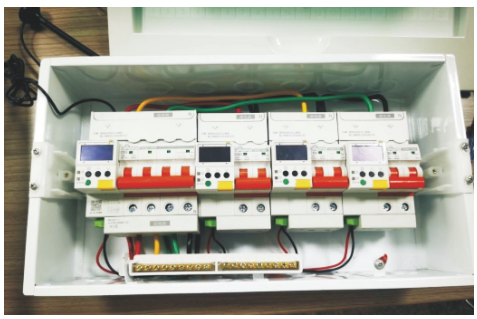
Current transformer

Time switch

YCB9ZF-100AP,100W Smart Circuit Breaker

YCB9ZF-100AP(4G)





Functions

- OLED lattice LIQUID crystal display has long life and good low temperature characteristics;
- Can be set as a communication gateway, through the ontology 485 interface for the branch small current switch combination networking;
- It integrates multiple protection functions such as over voltage, under voltage, missing phase, wrong phase, loss of voltage, overload, short circuit, leakage, temperature, voltage/current imbalance, over power, under power, anti-power theft and so on into one, and supports early warning in accordance with the preset proportion;
- Multiple functions can be closed, alarm, trip any combination, more widely applicable;
- Support 12 months frozen electric energy and 7 days frozen electric energy query, let the remote energy management more convenient;
- Electric parameters such as active power, reactive power, apparent power and power factor are supported for collection and uploading;
- Support positive and negative energy statistics.
- RS485 in non-gateway mode supports DL/T-645/Modbus protocol and automatic conversion;
- Support external dry contact control, cabinet door control;
- Support multiple groups of any time timer control closing, opening operation for more arbitrary controlling;
- Multi-component modular design, optional collocation, more flexible useage.
- Remote wireless communication technology, supporting 2G, 4G, Ethernet, wifi, Bluetooth, MQTT and other communication modes;
- Real-time reporting on operation event, alarm event and failure event ensures easier access to your equipment anytime anywhere. The alarm is accompanied by a buzzer prompt, and can be muted remotely or locally to make the device alarm more intelligently;
- Support multiple remote OTA upgrade methods to facilitate device upgrades.Maintenance is no longer troublesome;
- Hundreds of local event records (power on, power off) are stored, which can be checked at any time for accident cause analysis;
- The clock is timed and synchronized on the cloud to ensure the accuracy of event recording time. The daily error is no more than 1S in the case of no network;
- Real-time statistics of the number of events can focus on frequent abnormal,support switching display in Chinese and English;
- Support 12 months frozen electric energy and 7 days frozen electric energy query,let the remote energy management moreconvenient;
- Electric parameters such as active power, reactive power, apparent power and power factor are supported for collection and uploading;
- Support positive and negative energy statistics.

YCB9ZF-100AP,100W Smart Circuit Breaker

YCB9ZF-100AP(4G)

YCB9ZF-100W(WIFI)

Advantages

- Maintenance safety lock: greatly ensure the personal safety of maintenance personnel;
- Protection against electric theft cover plate: it can effectively prevent electric theft, private cable, etc.
- Independent power supply design: it can effectively prevent the whole system from being paralyzed and unable to work;
- 1.3 inch OLED display design: Provide more intuitive man-machine operation interface for maintenance personnel;
- Modular design: optional collocation, more flexible use;;
- High accuracy: voltage and current detection accuracy level 0.5, power accuracy level 1.0;
- The overall function of the circuit breaker saves the characteristics of the miniature circuit breaker;
- Flexible choice of communication mode, can also do gateway use;
- Flexible choice of function shutdown, alarm and tripping protection mode;
- A variety of remote upgrade mode, so that users upgrade maintenance no longer trouble;
- Power off protection design: After the power off of the main circuit, the data can be saved and uploaded without loss;
- Automatic judgment and analysis of the cause of the fault and operation events, display log, convenient for maintenance and troubleshooting;
- The functions of load imbalance, missing phase, wrong phase and over temperature protection greatly ensure the aging of equipment and lines, and the safety of electricity use;
- Timing switch function: guarantee the timing switch of equipment and energy consumption, as well as electricity saving;
- The leakage action protection is sensitive. Different leakage protection values can be set according to the usage environment.

Usage

- This product RS485 is a standard configuration communication port. It can be connected to computers and various communication devices through RS485 to USB converter to realize information exchange and control;
- The default baud rate of the system is 9600bps. You can check and set the required Baud rate in the setting communication menu.
- You must insert SIM card before using for Network GPRS product, which can be connected to the server through GPRS or gateway, router for the exchange andcontrol of network information;
- Real-time query and analysis of all kinds of electricity consumption data and view the history, statistics and settlement of electricity consumption on a monthly basis;
- The product installation must be carried out by professional electricians;
- Products can be customized according to user needs, contact the relevant technical personnel.

YCB9ZF-100AP,100W Smart Circuit Breaker

Technical data

Item	YCB9ZF-100AP	YCB9ZF-100W
Product		
Poles	1P+N,3P+N	1P,2P,3P,4P
Rated voltage	Single-phase AC230V, 50/60Hz; Three-phase AC440V, 50/60Hz	
Rated current	32A, 63A, 100A	
Residual operating current	30-500mA	
Short circuit breaking capacity	Icn=Ics=6kA	
Mechanical life	More than 20000 times	
Electrical life	More than 6000 times	
Action time	Leakage action less than 100ms; Closing time is less than 1.5s and opening time is less than 1S	
Protection grade	IP20	
Operating environment temperature	40 °C~70 °C	
Principle of action process	Under normal condition of voltage leakage: If the device is in the state of breaking, the device will not close automatically, but can only close remotely by controlling the device end or manually by local operation. If the device is in the closing state, the device will not open automatically, but can only close remotely by controlling the device end or manually open by local operation. Under abnormal voltage leakage: If the equipment is in the closing state, the equipment will automatically open, and voltage is changed to normal. If the leakage self-check is not normal, the equipment will continue to open automatically once. After troubleshooting, manually operate locally or remotely control the closing. If the device is in the opening state at this time, the device will not close automatically. After the voltage returns to normal, the device needs to be manually operated locally or remotely controlled to close.	
Remove lock	After manual on-site troubleshooting, remove the safety lock, push back the safety lock lever, and try to manually operate the closing and opening button once. Is the closing successful? If the closing is not successful, check whether the equipment is in arrears or other circumstances to perform the opening;	
Safety lock	After manual on-site troubleshooting, remove the safety lock, push back the safety lock lever, and try to manually operate the closing and opening button once. Is the closing successful? When the safety lock lever is not pulled out, the equipment is in operation mode: when the safety lock is pulled out, the equipment is in maintenance mode and can be repaired only after padlock is needed. The safety lock and the mechanical structure of the circuit breaker can not be closed even if manually or remotely controlled, so as to ensure the personal safety of the maintenance personnel.	

Modular DIN Rail

YCB9ZF-100AP,100W Smart Circuit Breaker

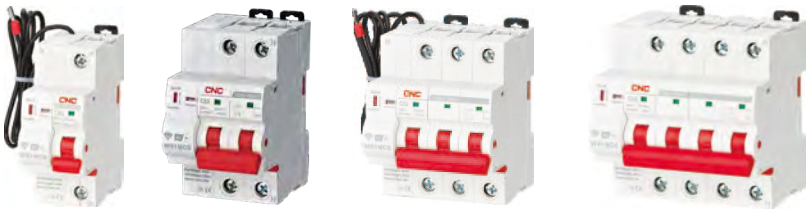
Technical data

Item	Data
YCB9ZF-100AP	4G ▶  WIFI ▶ 
Thermo-magnetic release characteristic	C type (Other types can be customized)
Rated current In	32A, 63A,100A
Rated short-circuit capacity Icn	6kA
Short-circuit protection	When there is short circuit fault, it can trip within 100ms
Leakage protection	When there is leakage fault, it can trip within 100ms
Leakage protection value	30~500mA can be set freely
The leakage self-inspection	According to the actual use, can set the day, hour and minute
Over and under voltage protection	When there is over or under voltage fault, it can trip after 3s(0~99s can be set); over-voltage set value:250~320V; under-voltage set value:100~200V
On-delay	When there is power, the switch will be automatically closed,0~99s can be set
Rated current setting	1A~1In
Overload delay protection	0~99s can be set
Over temperature protection	0~120°C can be set, OFF-delay time 0~99s can be set
Under power	The amount of load change can be set, OFF-delay time 0~99s can be set
Over power	The amount of load change can be set, OFF-delay time 0~99s can be set
Power limit	Reach limit power, OFF-delay time 3s,(0~99s can be set)
Timing control	5 groups of times can be set
Imbalance	Percentage can be set for both voltage and current, OFF-delay time 0~99s can be set
Record	Locally queried 680 switch event logs
Display	Chinese and English Menu
Operation times	Record various operation times of circuit breaker to determine whether the circuit breaker is within its effective life
Maintain	Set self check, device reset, power reset, record reset, synchronize clock, restart device, restore system default, etc
Check	Local view of voltage, current, leakage current, temperature, active power, reactive power, apparent power, power factor, cumulative electricity, daily electricity (view 7-day record)
Manual automatic integrated control	Mobile phone APP or PC control, can be controlled by the button, can also be controlled through the handle
Cover plate, pull rod	It has the function of preventing electricity-stolen, maintenance and overhauls closed by mistake.
Communication mode	RS485 standard; 4G,WIFI,NB,RJ45 optional
Remote Software Upgrade	According to the actual situation, customized procedures to achieve remote update and upgrade
The following functions can be set to open, close, alarm or trip functions	overvoltage protection, undervoltage protection, overload protection, automatic closing, power off protection, remote control, open cover protection, under load protection, over power protection, under power protection, early warning function, timing self - check, warning allowed,gear return, high temperature protection, timing control, open phase protection, fault phase protection, voltage imbalance, current imbalance

Modular DIN Rail

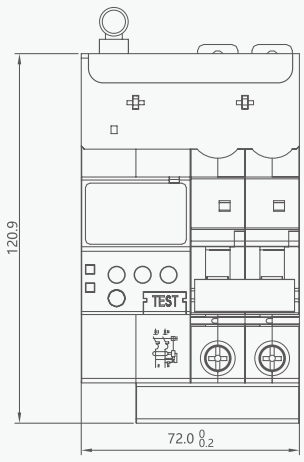
YCB9ZF-100AP,100W Smart Circuit Breaker

Technical data

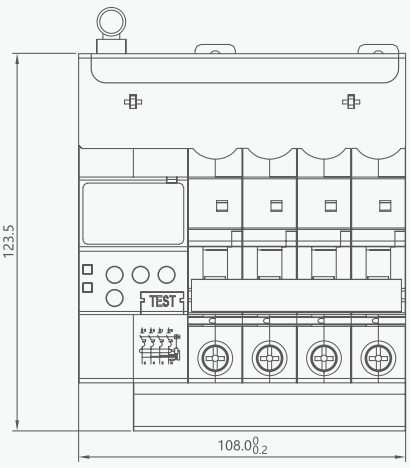
Item	Data
YCB9ZF-100W	
Thermo-magnetic release characteristic	C type (Other types can be customized)
Rated current In	16A,20A,25A,32A,40A,50A,63A,80A,100A
Rated short-circuit capacity Icn	6kA
Short-circuit protection	When there is short circuit fault, it can trip within 100ms
Over and under voltage protection	When there is over or under voltage fault, it can trip after 3s(0~99s can be set); Percentage can be set for over and under voltage
Overload delay protection	according to rated current, meet standard IEC 60898-1 requirement
Timing control	Set according to requirements
Check	The voltage and switching status can be checked through the APP on the phone
Manual automatic integrated control	Mobile phone APP control, can also be controlled through the handle
Communication mode	Wireless WIFI

Outline and installation dimensions(mm)

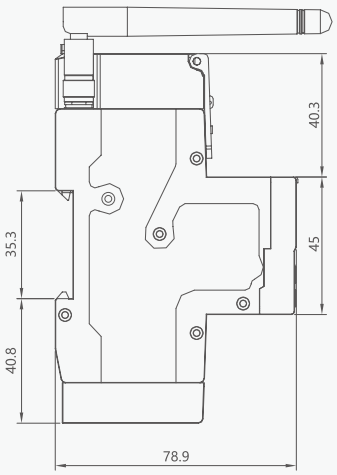
YCBZF-100AP



YCBZF-100AP-2P

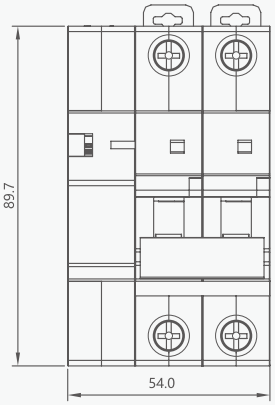


YCBZF-100AP-4P

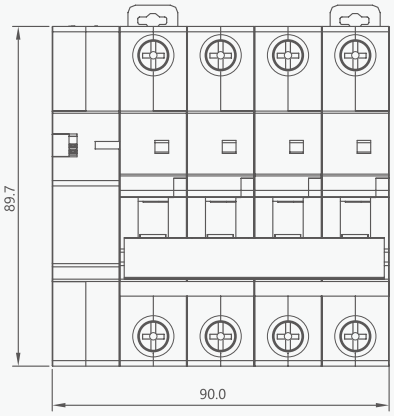


YCB9ZF-100AP,100W Smart Circuit Breaker

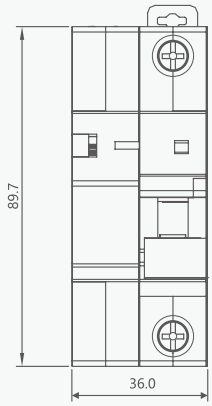
YCBZF-100W-4P



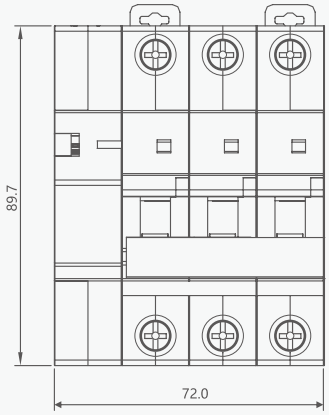
YCBZF-100W-2P



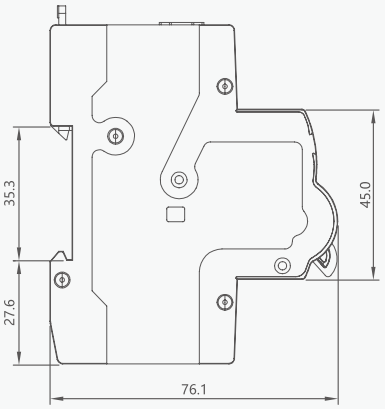
YCBZF-100W-4P



YCBZF-100W-1P



YCBZF-100W-3P



YCSi Smart Circuit Breaker

works with TUYA
woks with WIFI
woks with Smart lifi

General

The intelligent remote control switch is suitable for users or loads with AC50Hz/60Hz, rated operating voltage of 230V, and rated working current of 63A and below. It has a beautiful appearance, excellent performance, and reliable operation.It can quickly switch on/off and is installed with modular rail. It is mainly used inhomes, shopping malls, office buildings, hotels,schools, hospitals, villas, and other places.

Type designation

Model	Protection function		Shell frame	Communication	Function	Version	Number of poles	Rated current
YCSI	L	-	40	W	J	P	1P+N	16A
Smart switch	/: No L: With leakage protection		40 63	W: WiFi Z: ZigBee	/: No J: Metering	/:General P : Plus	1P+N 2P	40A 63A

Note: 40 frame is with no leakage protection The Plus enhanced version has adjustable functions for current, overvoltage,temperature, under-voltage, and leakage values

Features

- Auto-closing: The product can automatically close the circuit when power is supplied during normal operation on the line, and can also be set to not close the circuit when power is supplied.
- Remote control: mobile phone APp or computer remote control opening/closing.
- Real-time feedback: real-time feedback of product opening/closing status.
- Timing: Timing, delay opening/closing.
- Sharing control: can share control with multiple people.
- Residual curent protection: When the leakage current exceeds the set value or personal electric shock (with leakage protection), the protector automatically disconnects within 0.1s.
- With metering function: can display voltage, current, power, and electricity.

Modular DIN Rail

YCSi Smart Circuit Breaker

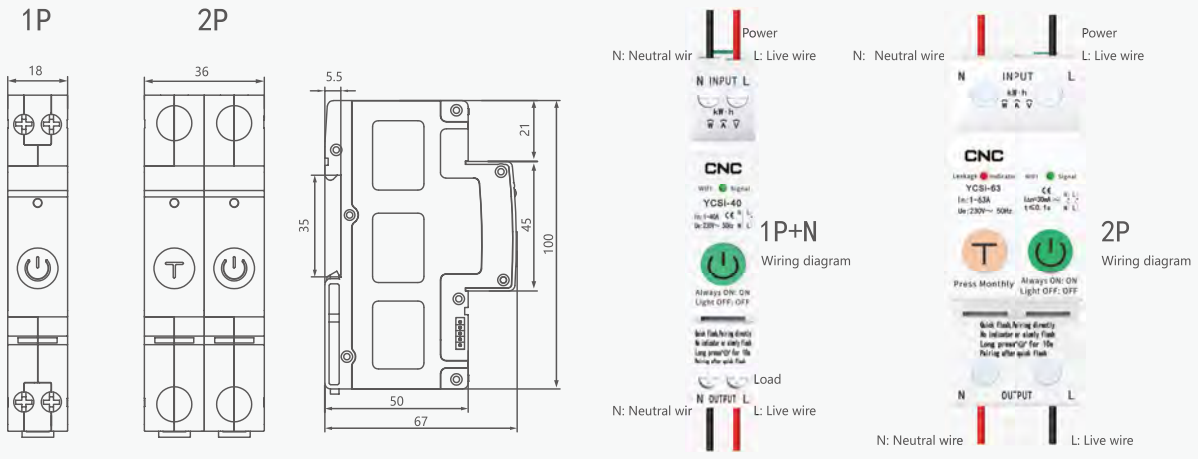
Technical data

Rated working voltage	AC230V
Rated current In	1-40A/1-63A
Life	Electrical life 100000 on/off times
Local power consumption	<3W
Working voltage range	AC110V-280V
Maximum rated output current	40A/63A
Wiring	Using clamp terminals, the cross-sectional area of the wire can reach 16mm
Installation	Installed on a standard TH35 rail
RS485 communication	Baud rate: 9600; communication address range: 1-247

Technical data

Ambient air temperature	-5°C~+40°C, the average value within 24 hours does not exceed +35°C
Limiting service temperature	-25°C~+70°C
Altitude	The altitude of the installation site does not exceed 2000 meters
Humidity	a. When the ambient air temperature is +40°C, the relative humidity of the air should not exceed 50%, and there can be a higher relative humidity at a lower temperature. b. When the monthly average minimum temperature of the wettest month is 25°C, the monthly average relative humidity is 90%. c. Condensation on the product surface due to temperature changes has been taken into account.
Pollution degree	Level 2
Installation Category	Class II and III

Overall and mounting dimensions(mm)



YCWF-Y02 WIFI Smart Switch Controller

General

YCWF series WiFi intelligent switch controller, whose shell is made of PC flame retardant material, which is safer to use ; The maximum load of 230V/2A can be extended to 125A through the contactor, using standard WiFi : 2.4GHz b/g/n.

Functions

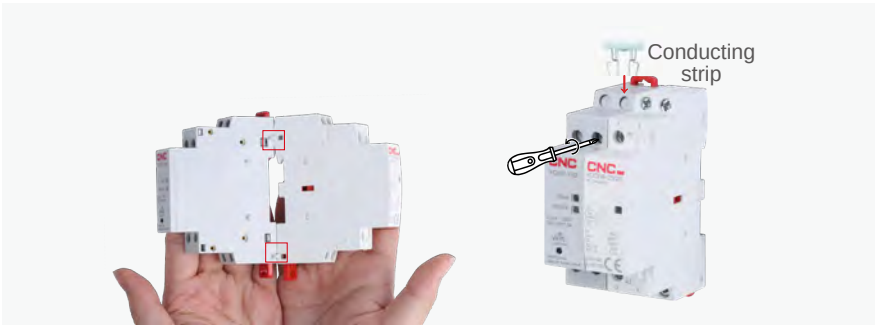
Support smart configuration for fast networking; Support multiple control types:switch, timer switch, cycle control, etc.; Support WLAN local control and remote control; Access to mainstream voice-activated assistants such as Google, Alexa, Tmall Genie, DuerOS, Xiao Ai, etc, Voice-activated smart device sharing and cloud account device sharing function;APP support Android and iOS systems;

Application:

Home control system
Building automation
Industrial control system
Medical and electrical equipment

Used with YCcH6 series contactor

1. First, you need to use the hook at the lower right side of the WiFi controller
2. Then install conductive connectors at NO(A1) and N (A2).



User Guide

1. Search for' Tuya' to download and install Tuya APP
2. Allow all permissions during installation.
3. Register an account and login.

TUYA

Download on the App Store

GET IT ON Google Play

YCWF-Y02 WIFI Smart Switch Controller

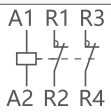
A

Technical data

	YCWF	
WiFi Characteristic	Standard	IEEE 802.11b/g/n
	Working Mode	STA/AP/STA+AP
	IEC/EN 60947-1,IEC/EN 60947-4-1,IEC/EN 60947-5-1	
	CE	
Enclosure protection degree	IP20	
Ambient temperature	Operation temperature limits: -35 °C~+70 °C Normal operation temperature range: -5 °C~+40 °C The 24-hour average temperature should not exceed +35 °C For use beyond the normal operation temperature range.	
Altitude	Not exceeding 2000m above sea level	
Atmospheric conditions	The relative humidity should not exceed 50% at the upper temperature limit of +70°C. A higher relative humidity is allowed at a lower temperature, e.g. 90% at +20 °C. Special precautions should be taken against occasional condensation due to humidity variations.	
Installation conditions	The angle between the installation surface and the vertical surface should not exceed ±5°.	

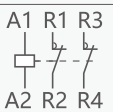
YCWF+YCCH6-25/20

AC 1modules

Model	Rated current(In)		Control voltage (V AC)(50Hz)	Circuit diagram
	AC-7a AC-1	AC-7b AC-3		
YCWF+YCCH6-16/20	16A	6A	24/110/230	
YCWF+YCCH6-20/20	20A	7A		
YCWF+YCCH6-25/20	25A	9A		
YCWF+YCCH6-16/02	16A	6A	24/110/230	
YCWF+YCCH6-20/02	20A	7A		
YCWF+YCCH6-25/02	25A	9A		

YCWF+YCCH6-63/20

AC 2modules

Model	Rated current(In)		Control voltage (V AC)(50Hz)	Circuit diagram
	AC-7a AC-1	AC-7b AC-3		
YCWF+YCCH6-40/20	40A	18A	24/110/230	
YCWF+YCCH6-63/20	63A	25A		
YCWF+YCCH6-40/02	40A	18A	24/110/230	
YCWF+YCCH6-63/02	63A	25A		

YCWF-Y02 WIFI Smart Switch Controller

YCWF+YCCH6-25/40

AC 2modules

Model	Rated current(In)		Control voltage (V AC)(50Hz)	Circuit diagram
	AC-7a AC-1	AC-7b AC-3		
YCWF+YCCH6-16/40	16A	6A	24/110 /230/380	A1 1 3 5 7 / A2 2 4 6 9
YCWF+YCCH6-20/40	20A	7A		
YCWF+YCCH6-25/40	25A	9A		
YCWF+YCCH6-16/04	16A	6A	24/110 /230/380	A1 R1 R3 R5 R7 / A2 R2 R4 R6 R8
YCWF+YCCH6-20/04	20A	7A		
YCWF+YCCH6-25/04	25A	9A		

YCWF+YCCH6-63/40

AC 3modules

Model	Rated current(In)		Control voltage (V AC)(50Hz)	Circuit diagram
	AC-7a AC-1	AC-7b AC-3		
YCWF+YCCH6-40/40	40A	18A	24/110 /230/380	A1 1 3 5 7 / A2 2 4 6 8
YCWF+YCCH6-63/40	63A	25A		
YCWF+YCCH6-40/04	40A	18A	24/110 /230/380	A1 R1 R3 R5 R7 / A2 R2 R4 R6 R8
YCWF+YCCH6-63/04	63A	25A		

YCWF+YCCH6-100/20

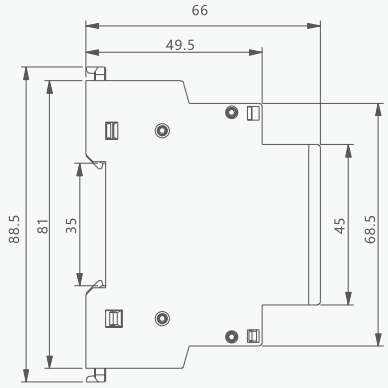
AC 3modules

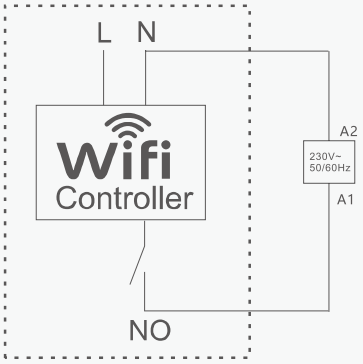
Model	Rated current(In)		Control voltage (V AC)(50Hz)	Circuit diagram
	AC-7a AC-1	AC-7b AC-3		
YCWF+YCCH6-100/40	100A	40A	24/110/230	A1 1 3 / A2 2 4
YCWF+YCCH6-100/11	100A	40A	24/110/230	A1 R1 1 / A2 R2 2
YCWF+YCCH6-100/02	100A	40A	24/110/230	A1 R1 R3 / A2 R2 R4

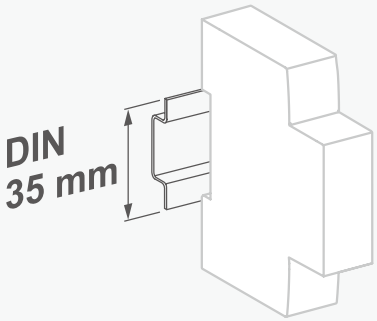
YCWF-Y02 WIFI Smart Switch Controller

A

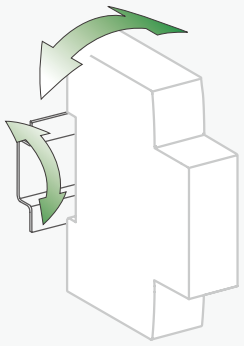
Overall and mounting dimensions(mm)







Installed on 35mm
standard guide rail



±30°vertical

YCBZ-40 Changeover switch

General

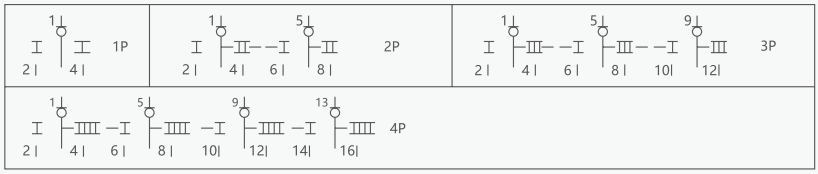
The Changeover Switch can switch on, load and break the circuit under normal conditions,using as Switch Disconnectors.

Standard: IEC 60947-3

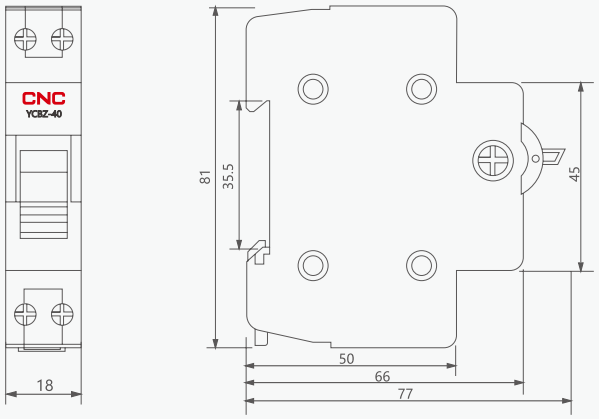
Technical data

Parameter	Data
Rated Voltage	240/415V~
Rated Current	16,25,32,40A
Rated Frequency	50/60Hz
Number of Poles	1,2,3,4P
Contact form	1-0-2
Electrical Life	1500 Cycles
Mechanical Life	8500 Cycles
Protection degree	IP20
Ambient Temperature	-5°C~40°C
Terminal/Cable size	10mm²
Mounting	On DIN rail EN60715(35mm) by means of fast clip device.

Wiring diagram



Overall and mounting dimensions(mm)



YCBZ-63 Changeover switch

General

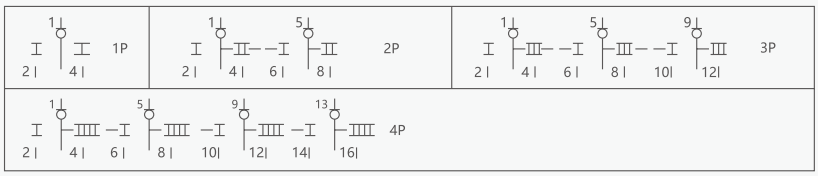
The Changeover Switch can switch on, load and break the circuit under normal conditions,using as Switch Disconnectors.

Standard: IEC 60947-3

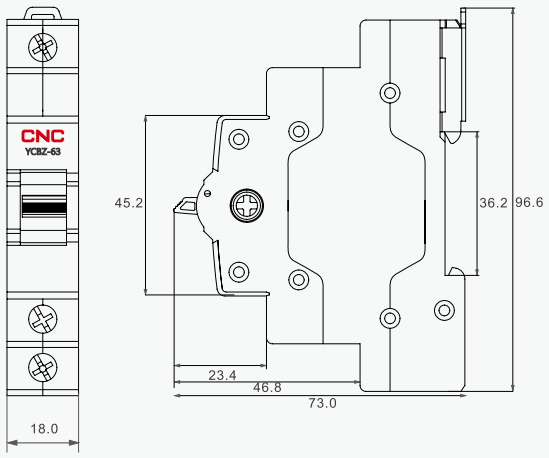
Technical data

Parameter	Data
Rated Voltage	240/415V~
Rated Current	32,40,50,63
Rated Frequency	50/60Hz
Number of Poles	1P,2P,3P,4P
Contact form	1-0-2
Electrical Life	1500 Cycles
Mechanical Life	8500 Cycles
Protection degree	IP20
Ambient Temperature	-5°C~40°C
Terminal/Cable size	16mm²
Mounting	On DIN rail EN60715(35mm) by means of fast clip device.

Wiring diagram



Overall and mounting dimensions(mm)



YCBZ-125 Changeover switch

General

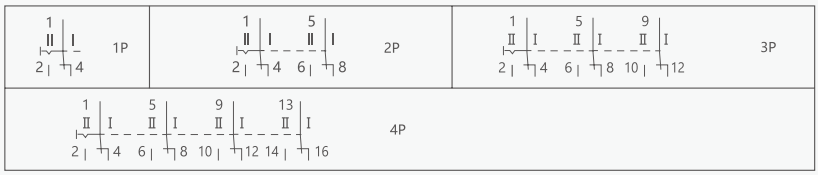
The Changeover Switch can switch on, Load and break the circuit under normal conditions,usingas Switch Disconnectors.

Standard: IEC 60947-3

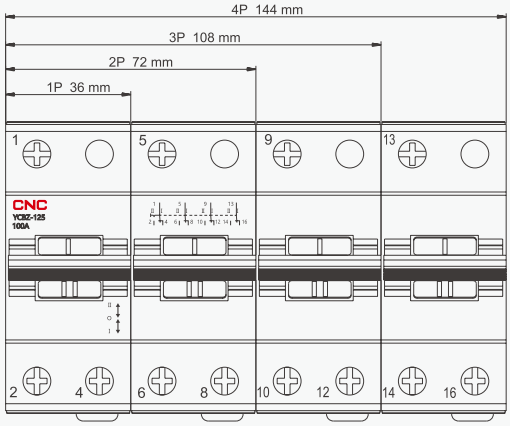
Technical data

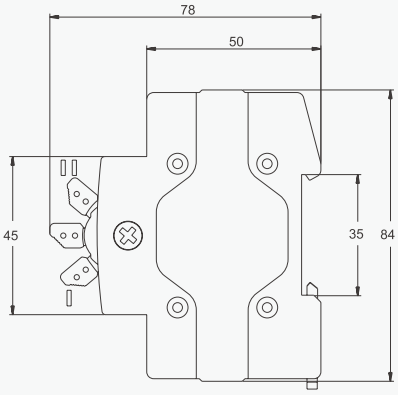
Parameter	Data
Rated Voltage	240/415V~
Rated Current	63,80,100,125
Rated Frequency	50/60Hz
Number of Poles	1,2,3,4P
Contact form	1-0-2
Electrical Life	1500 Cycles
Mechanical Life	8500 Cycles
Protection degree	IP20
Ambient Temperature	-5°C~40°C
Terminal/Cable size	50mm²
Mounting	On DIN rail EN60715(35mm) by means of fast clip device.

Wiring diagram



Overall and mounting dimensions(mm)





ADM Indicator

A

ADM-1

ADM-2

ADM-3

General

The Modular Signal Lamp is applicable to circuit with rated voltage 230V~and frequency 50/60Hz for visual indication and signaling.

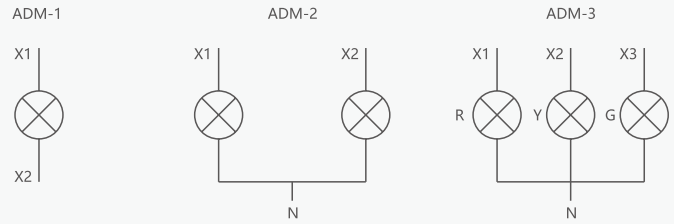
Construction and Feature: Low service duration,minimum power consumption,Compact design in modular size,Easy installation.

Standard: IEC 60947-5-1

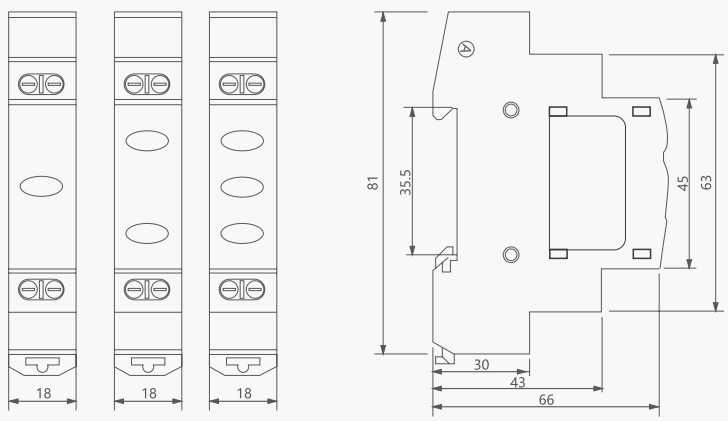
Technical data

Parameter	Data
Rated voltage	230V AC, 100V AC,48V AC/DC, 24V AC/DC
Rated frequency	50/60Hz
Colour	ADM-1 Red, green, yellow ADM-3 Red/ Green/Yellow, Red/ Green/Blue
Connection terminal	Pillar terminal with clamp
Connection capacity	Rigid conductor 1.5mm²
Installation	On symmetrical DIN rail 35mm
Max power	0.6W
Illumination	LED
Service duration	30000 hours

Wiring diagram



Overall and mounting dimensions(mm)



YCD9 Indicator

YCD9-1

YCD9-2

YCD9-3

General

The Signal Lamp is applicable to circuit with rated voltage 230V~and frequency 50/60Hz for visual indication and signaling.

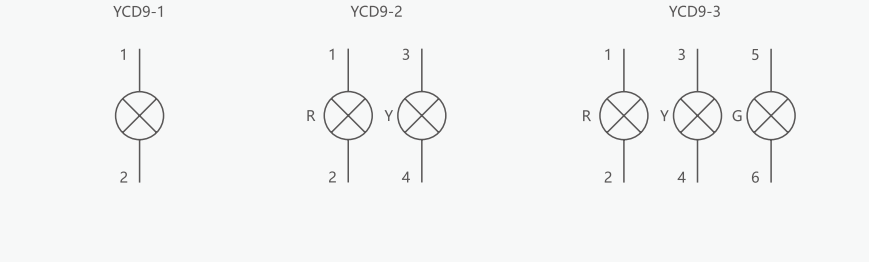
Construction and Feature: Low service duration,minimum power consumption, compact design in modular size,easy installation.

Standard: IEC 60947-5-1

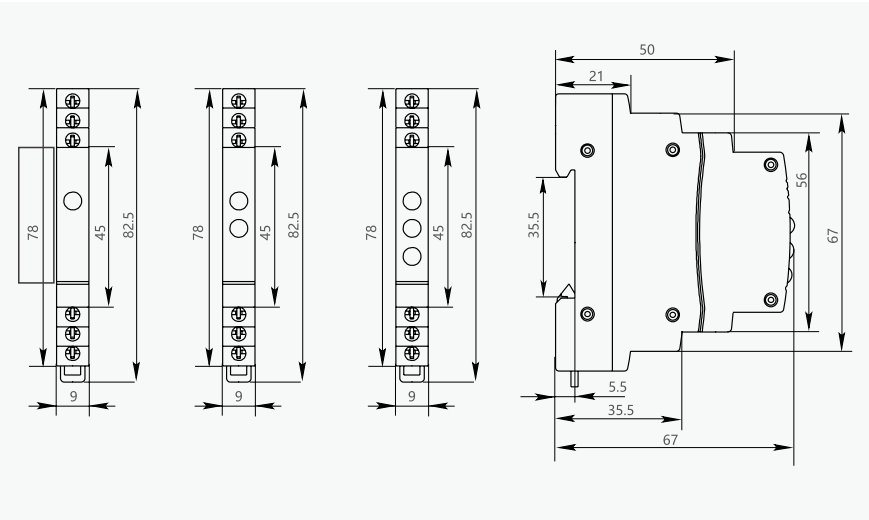
Technical data

Parameter	Data
Rated voltage	230V
Rated current	0.5A
Rated frequency	50/60Hz
Colour	YCD9-1 Red, green, yellow ,YCD9-2,YCD9-3
Connection capacity	Rigid conductor 1.5mm²
Installation	On symmetrical DIN rail 35mm

Wiring diagram



Overall and mounting dimensions(mm)



Modular DIN Rail

YCMV3 Voltage Meter

ADM-1

ADM-2

General

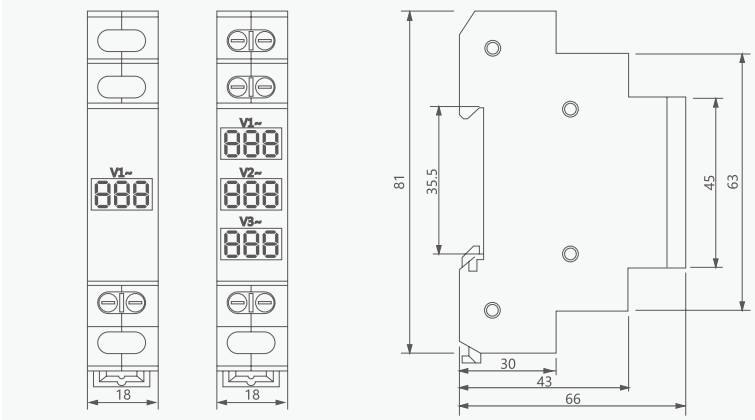
The Modular Voltage Meter is applicable to circuit with rated frequency 50/60Hz for measure and display digital voltage.

Standard: IEC 60051-1

Technical data

Parameter	Data
Type	YCMV1: Single phase 1 LED digital display YCMV3: Three phase 3 LED digital display
Terminal for wiring	Single phase L+N Three phase 3L+3N
Digital colour	Red, Green
Measurement voltage range	AC 80V~500V
Rated frequency	50/60Hz
Working current	≤20mA
Measuring accuracy	1
Measuring rate	>200MS/time
Protection degree	IP20
Electrical Life	≥15000hours
Ambient temperature (with daily verage≤35°C)	-5°C~+40°C
Storage temperature	-25°C~+70°C
Air relative humidity	10-80%(no condensation)
Working pressure	80~160Kpa
Sunniness	no sunniness
Terminal for wiring	1.5mm²
Mounting	On DIN rail EN60715(35mm) by means of fast clip device

Overall and mounting dimensions(mm)



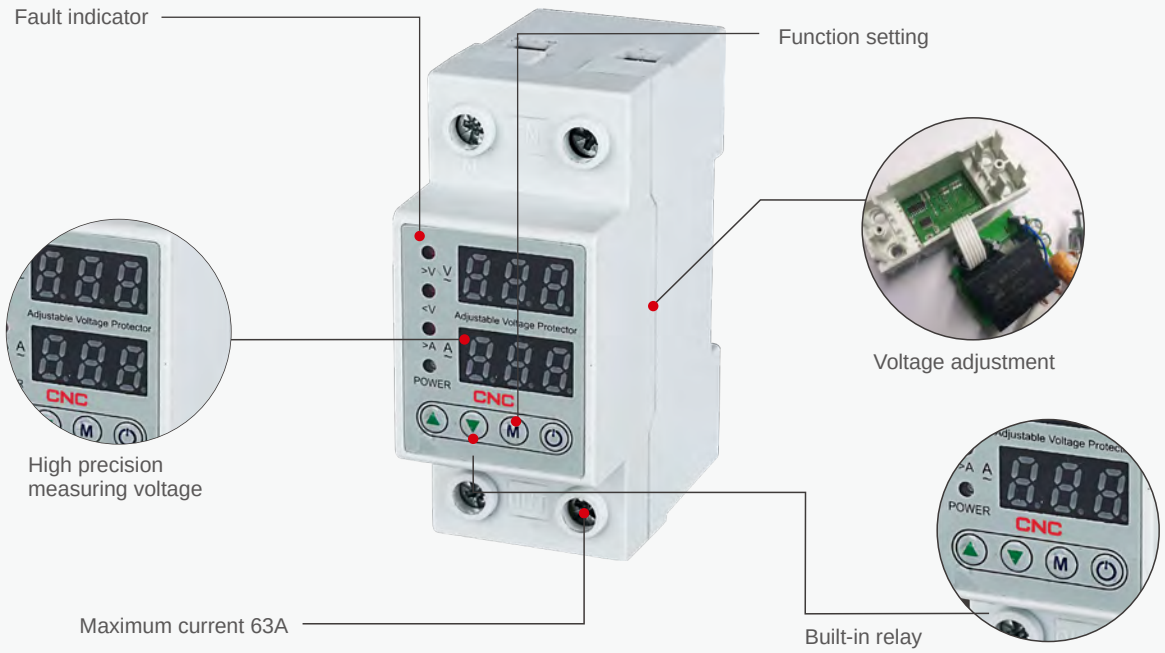
YC6VA

Overvoltage and Undervoltage Protector

CNC
ELECTRIC

Modular DIN Rail

YC6VA Overvoltage and Undervoltage Protector



General

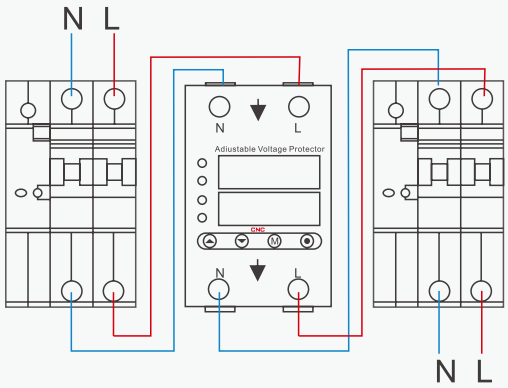
Voltage and current display relay is a microprocessor-based voltage monitoring device for single-phase AC networks to protect electrical equipment from surge voltage. The device analvzes the main voltage and displavs its current value on a dioital indicator. Load is switched by electromagnetic relay. The user can set the current voltage value and delay time through the button.The valye is stored in non-volatile memory, Aluminum wires and copper wires can be used for connection.

Application

Voltage and current display relay used in administrative, industrial and residential buildings and has the function of protecting single-phase lines:

- Undervoltage protection;
- Overvoltage protection;
- Working under voltmeter mode;
- Overcurrent proteciton.

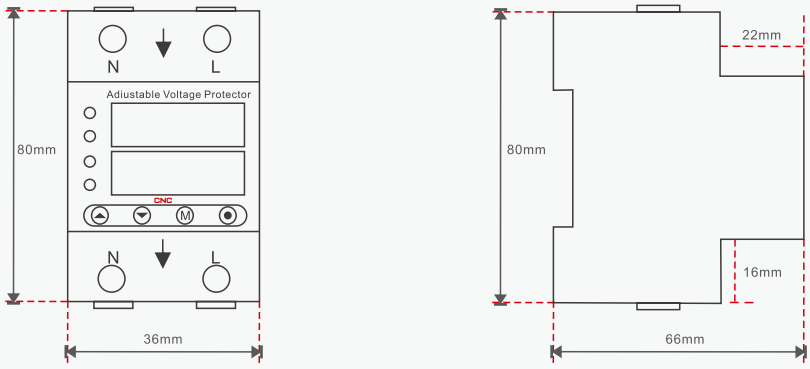
Wiring diagram



YC6VA Overvoltage and Undervoltage Protector

Technical data	
Rated Working Voltage	AC
Rated Frequency	50/60HZ
Rated Working Current	40A Or 63A
Over-voltage Protection Value	AC230V-AC300V
Under-voltage Protection Value	AC100V-AC220V
Voltage Power Off Time	1-400s
Overcurrent Protection Value	1-40A,Or 1-63A
Overcurrent Power Off Time	1-30s
Recover time(Starting Delay Time)	1-400s
Own Power Consumption	≤1.5W
Pollution Level	2 Class
Rated Insulation Voltage	400V
Output Contact	1NO
Protection	Ip20
Pollution	3
Electrical Life	100000 times
Mechanical Life	1000000 times
Altitude	≤2000m
Operating Temperature	-5°C~40°C
Relative Humidity	50% at 40°C(non-condensing)
Storage Temperature	-40°C~55°C
Installation	35mm DIN rail

Overall and mounting dimensions(mm)



Modular DIN Rail

YC6VAZs Electronic phase switch

Genral

Function description: When a phase of L1,L2,L3 overvoltaged,undervoltaged or phase lacked, the relay will be disconnected and automatically search for the normal phase,and switch to open the relay of the normal phase, switching priority L1>L2>L3!

Techinal data

Model	YC6VAZs		
Rated Supply voltage	AC 220V		
Operation voltage	AC 80V-400V(single phase)		
Rated frequency	50/60Hz		
Electric current(>A)setting range	63A/80A/100A		
Overvoltage(>U)setting range	230-300V		
Undervoltage(<U) setting range	110-210V		
Reset/start delay	1-30S		
Voltage measurement accuracy	2%(Not exceeding 2% of the overall range)		
Rated insulation voltage	400V		
Output contact	1NO		
Electrical life	10^5		
Mechanical life	10^6		
Protection degree	IP20		
Pollution degree	8		
Altitude	≤2000m		
Operatintg temperature	-50°C~55°C		
Humidity	<50% at 40°C(without condensation)		
Storage temperature	-30°C~70°C		
Current Specification	63A	80A	100A
Rated Operating current(In,A)	63A	80A	100A
Max Operating Current Imax(A,within 10min)	80A	100A	60A
Max power of load (KW)	13.9KW	17.6KW	22KW

Default Setting

Technical Parameter	Setting range	Step	Factory Setting
Over-voltage protection value	AC230V-300V	1V	AC270V
Under-voltage protection value	AC210V-140V	1V	AC170V
Recovery delay time	1S-30S	1S	1S

YC6VAZs Electronic phase switch

Function setting

Press the L key to set the undervol tage value,short press or long press again to adjust the undervoltage

Press SAVE to save when finished

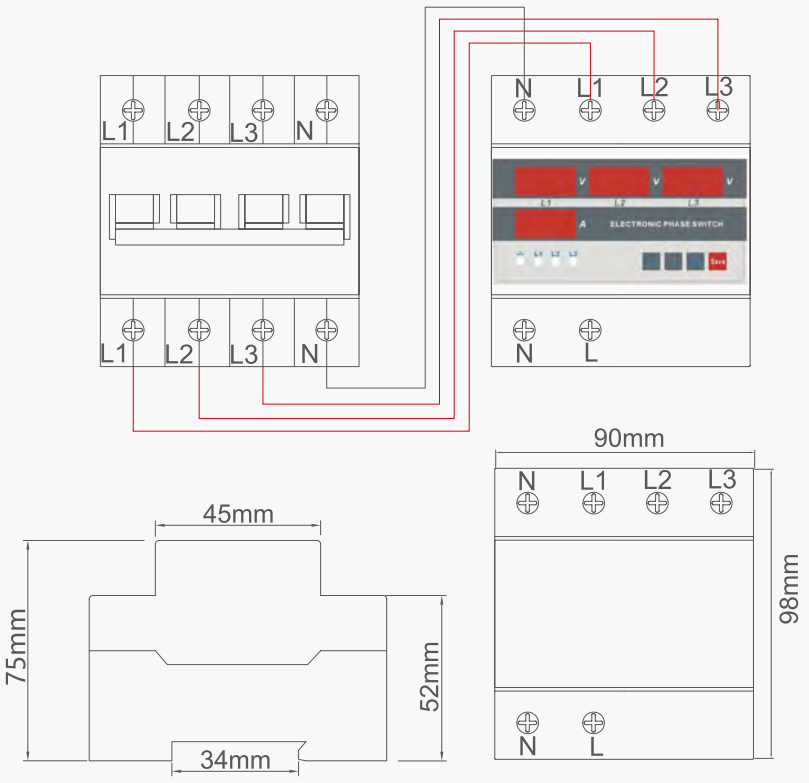
Press the H key to set overvoltage value,short press or long press again to adjust theovervoltage value

Press SAVE to save when finished

Press the TIME key to set the delay recovery time value, short press or long press again to adjust the value of the delay recovery

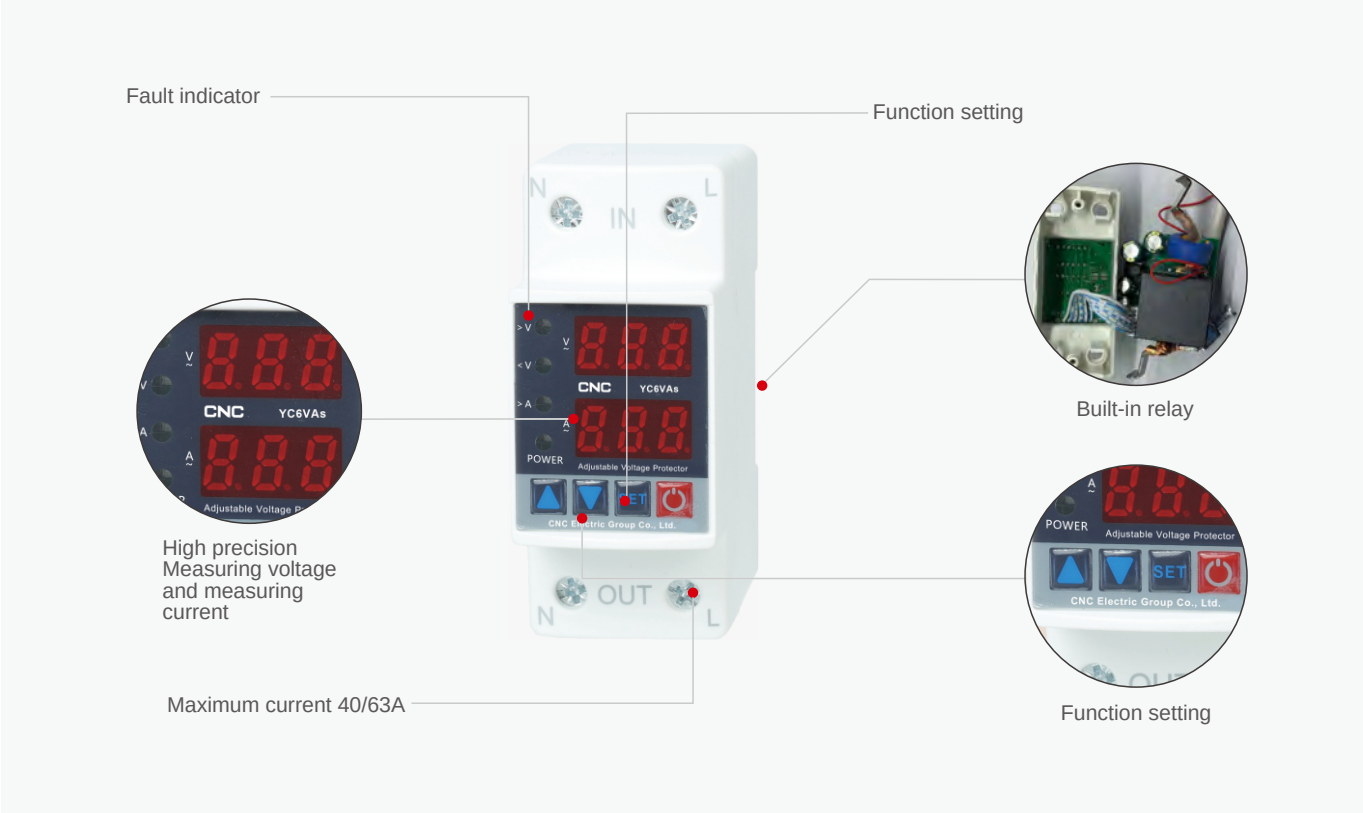
Press SAVE to save when finished

Overall and mounting dimensions (mm)



YC6VAs/YC6Vs Overvoltage and Undervoltage Protector

A



General

Voltage and current display relay is a microprocessor-based voltage monitoring device for sinale-phase AC networks to protect electrical equipment from surge voltage. The device analyzes the main voltage and displays its curent value on a digital indicator. Load is switched by electromagnetic relay. The user can set the current voltage value and delay time through the button.The value is stored in non-volatile memory. Aluminum wires and copper wires can be used for connection.

Application

Voltage and current display relay used in administrative, industrial and residential buildings and has the function of protecting single-phase lines:

- Undervoltage protection;
- Overvoltage protection;
- Working under voltmeter mode;
- Overcurrent proteciton.

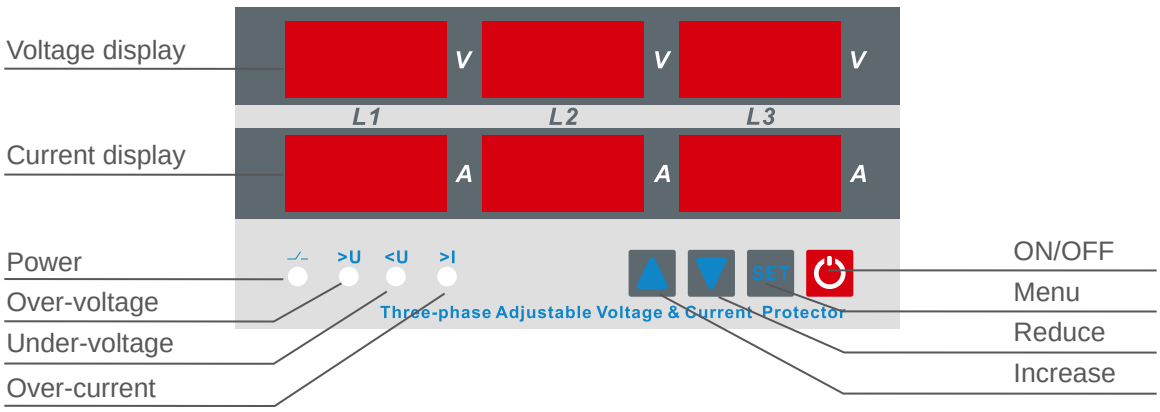
YC6VAs/YC6Vs Overvoltage and Undervoltage Protector

Technical data	YC6VAs	YC6Vs	YC6AS
Rated Working Voltage	AC 220V		
Operation voltage range	AC80V-400V		AC80V-350V
Rated frequency	50Hz/60Hz		
Overvoltage(>U)setting range	230-300V		
Undervoltage(<U)setting range	140~220V		
Rated current	40/63A(subject to prodect label)		1~40/63A(subject to prodect label)
> U and <U trip delay	0.1~30s	0.5S	0.5S(>Atrip delay)
Reset/start delay	1~500S	1~600S	1~600S
Voltage measurement accuracy	2% (Not exceeding 2% of the overall range)		1% (Not exceeding 1% of the overall range)
Rated insulation voltage	400V		
Output contact	1NO		
Electrical Life	105		
Mechanical Life	106		
Protection degree	IP20		
Pollution degree	3		
Altitude	≤ 2000m		
Operating temperature	-50°C~55°C		
Humidity	≤50% at 40%(without condensation)		
Storage temperature	-30°C~70°C		

Current specification	15A	25A	32A	50A	63A
Rated operating current(In, A)	15	25	32	50	63
Maximum operating current Imax(A, within 10min)	25	30	40	60	80
Max. power of load(kW)	3.6	5.5	7	11	13.9

YC6VAs/YC6Vs Overvoltage and Undervoltage Protector

Technical data	YC6VAs-3(L-N)	YC6VAs-3(L-L)
Rated supply voltage	AC 220V	AC 380V
Operation voltage range	AC 80~400V(three phase)	AC140~700V(three phase)
Rated frequency	50/60Hz	50/60Hz
Electric current(>A)setting range	1~40A/63A/80A/100A	1~40A/63A/80A/100A
Overvoltage(>U)setting range	230~300v	390~500V
Undervoltage(<U)setting range	210~140V	370~260V
Rated current	40A/63A/80A/100A	40A/63A/80A/100A
>U and <U trip delay	0.1~30S	0.1~30S
Reset/start delay	1~500S	1~500S
Voltage measurement accuracy	2%	2%
Rated insulation voltage	400V	700V
Output contact	3NO	3NO
Electrical life	10^5	10^5
Mechanical life	10^6	10^6
Protection degree	IP20	IP20
Pollution degree	3	3
Altitude	≤ 2000m	≤ 2000m
Operatintg temperature	-50°C~+55°C	-50°C~+55°C
Humidity	≤ 50%at+4 (withou tcondensation)	≤ 50%at+4 (withou tcondensation)
Storage temperature	-30°C~+70°C	-30°C~+70°C



YC6VAs/YC6Vs Overvoltage and Undervoltage Protector

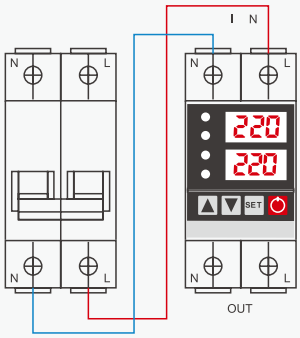
Default setting

Technical parameter	Setting range	Setp	Factory setting
Power-on delay time	1~500S	1S	10S
Over-voltage protection value	230~300V/390~500V	1V	270V/430V
Over-voltage recovery value	225~295V/385~495V	1V	265V/425V
Over-voltage recovery delay time	1~500S	1S	30S
Over-voltage protection action time	0.1~30S	0.1S	1S
Under-voltage protection value	210~140V/370~260V	1V	170V/330V
Under-voltage recovery value	215~145V/375~265V	1V	175V/335V
Under-voltage recovery delay time	40A/63A/80A/100A	1S	30S
Under-voltage protection action time	1~500S	0.1S	1S
Three phase voltag eerror value	0.1~30S	0.5%	0%
Three phase voltage unbalanoe value	-9.5~9.5%	1V	20V
Three phase voltageun balanoe recovery value	20~99V	1V	15V
Three phase voltageun balanoe protection switch	5~94V		on
Phase sequence protection switch	oFF/on		on
Over-current protection value	oFF/on	0.1A	30A
Over-current recovery delay time	1~A/63A/80A/100A	1A	30S
Over-current protection action time	1~500S	0.1S	1S
Three phase curent error value	0.1~30S	0.5%	0%
Continuous over-current protect times	-9.5~9.5%	1	OFF

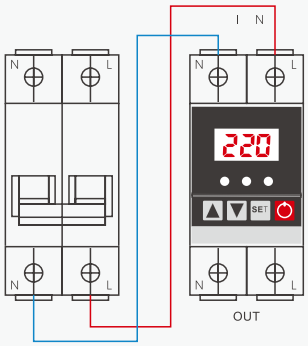
YC6VAs/YC6Vs Overvoltage and Undervoltage Protector

A

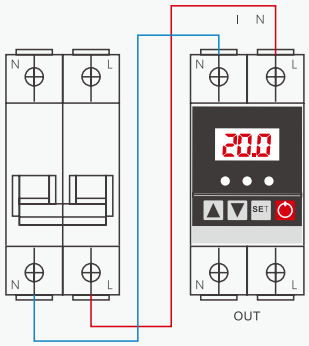
Wiring diagram



YC6VAs

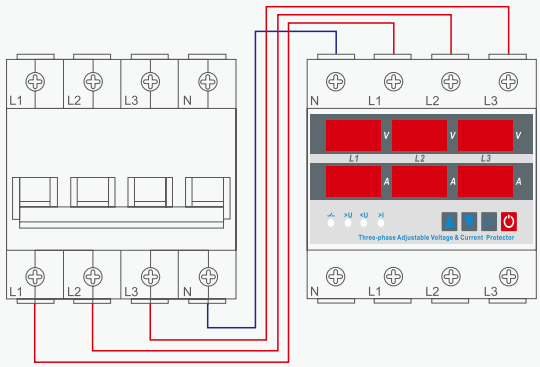


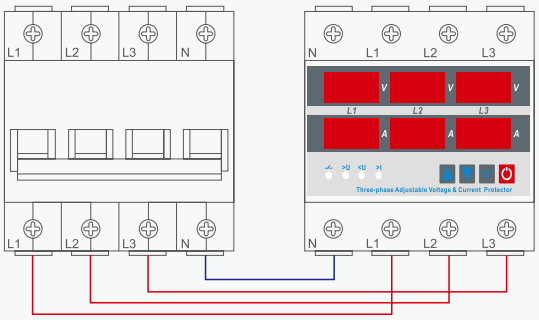
YC6Vs



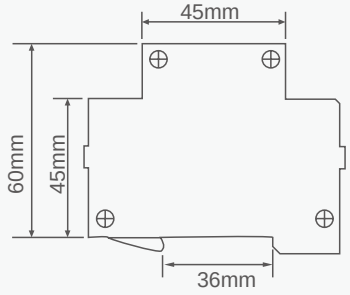
YC6As

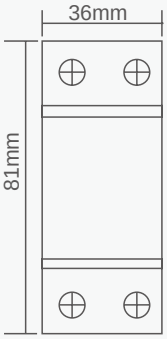
Three-phase

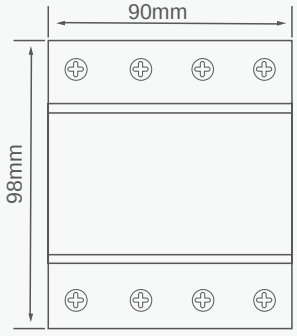




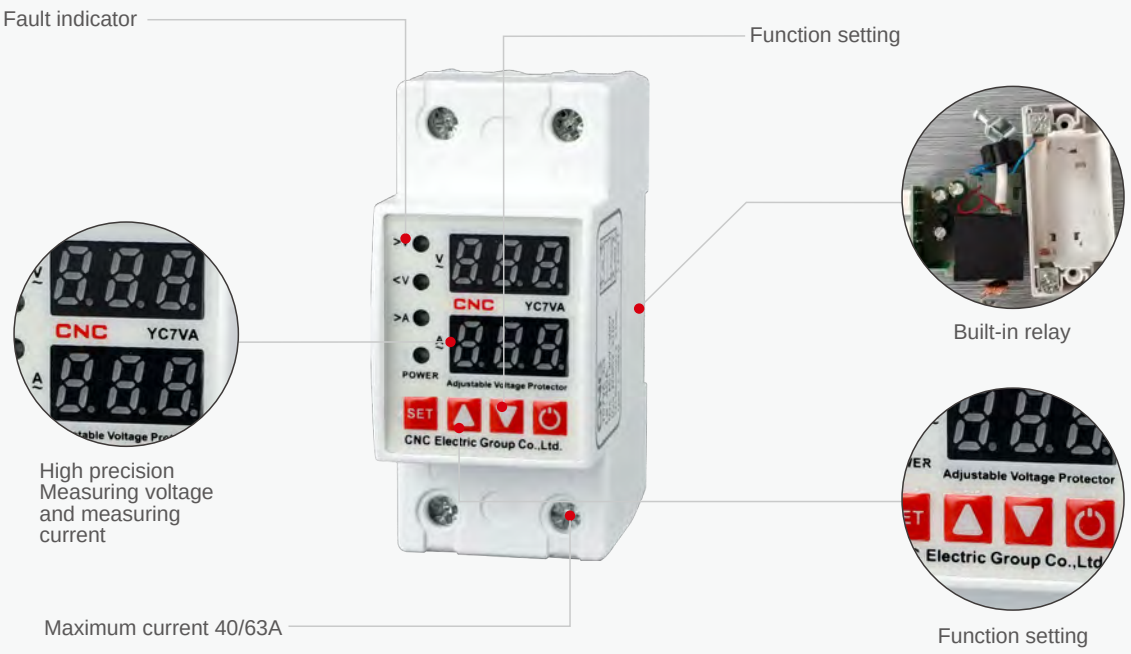
Overall and mounting dimensions(mm)







YC7VA Overvoltage and Undervoltage Protector



General

Voltage and current display relay is a microprocessor-based voltage monitoring device for sinale-phase AC networks to protect electrical equipment from surge voltage. The device analyzes the main voltage and displays its curent value on a digital indicator. Load is switched by electromagnetic relay. The user can set the current voltage value and delay time through the button.The value is stored in non-volatile memory. Aluminum wires and copper wires can be used for connection.

Application

Voltage and current display relay used in administrative, industrial and residential buildings and has the function of protecting single-phase lines:

- Undervoltage protection;
- Overvoltage protection;
- Working under voltmeter mode;
- Overcurrent proteciton.

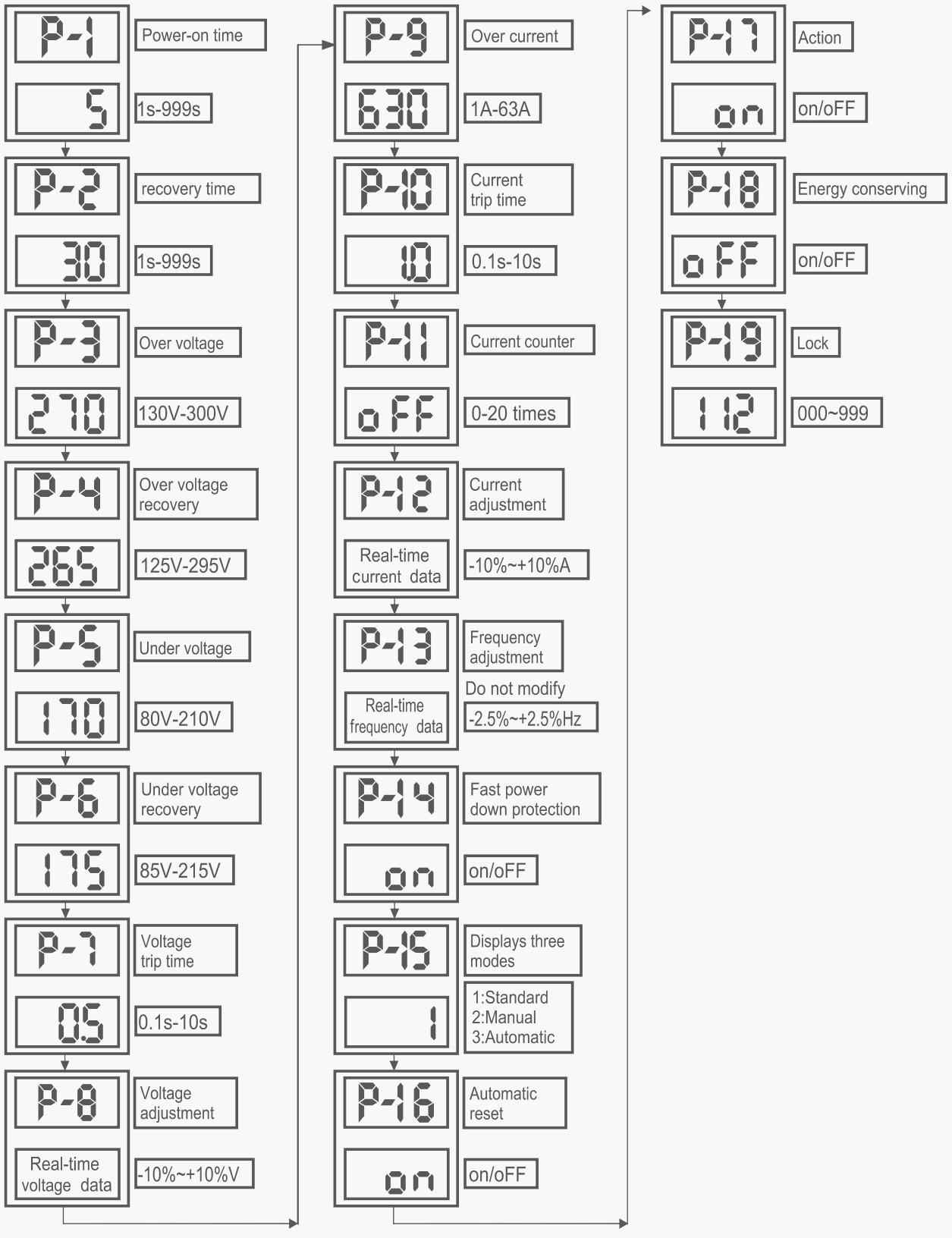
YC7VA Overvoltage and Undervoltage Protector

Technical data	YC7VA	YC7V	YC7A
Rated Working Voltage	AC 220V		
Operation voltage range	AC 80V-300V		AC 80V-300V
Rated frequency	50Hz/60Hz		
Overvoltage(>U)setting range	130-300V		
Undervoltage(<U)setting range	80-210V		
Rated current	40/63A(subject to prodect label)		1~40/63A(subject to prodect label)
> U and <U trip delay	1-999S	Default 30S	0.5S(>Atrip delay)
Reset/start delay	1-999S	Default 5S	1~999S
Voltage measurement accuracy	2% (Not exceeding 2% of the overall range)		1% (Not exceeding 1% of the overall range)
Rated insulation voltage	400V		
Output contact	1NO		
Electrical Life	105		
Mechanical Life	106		
Protection degree	IP20		
Pollution degree	3		
Altitude	≤ 2000m		
Operating temperature	-50°C~55°C		
Humidity	≤50% at 40%(without condensation)		
Storage temperature	-30°C~70°C		

Current specification	15A	25A	32A	50A	63A
Rated operating current(In, A)	15	25	32	50	63
Maximum operating current Imax(A, within 10min)	25	30	40	60	80
Max. power of load(kW)	3.6	5.5	7	11	13.9

YC7VA Overvoltage and Undervoltage Protector

Set UP menu



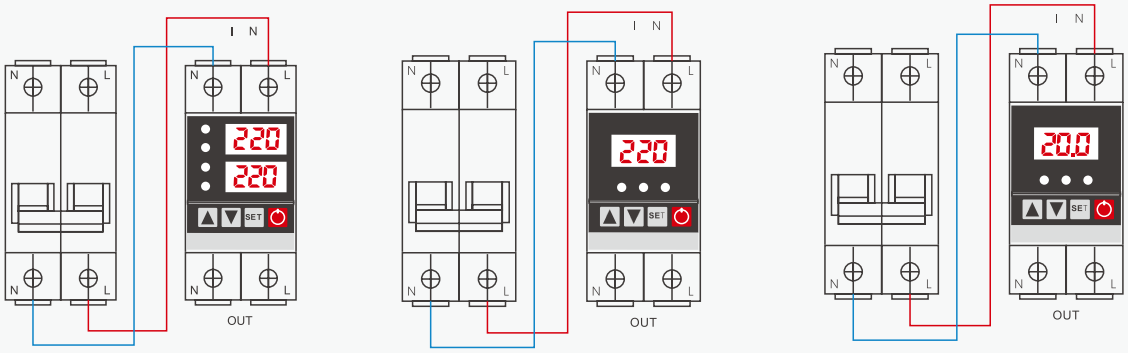
YC7VA Overvoltage and Undervoltage Protector

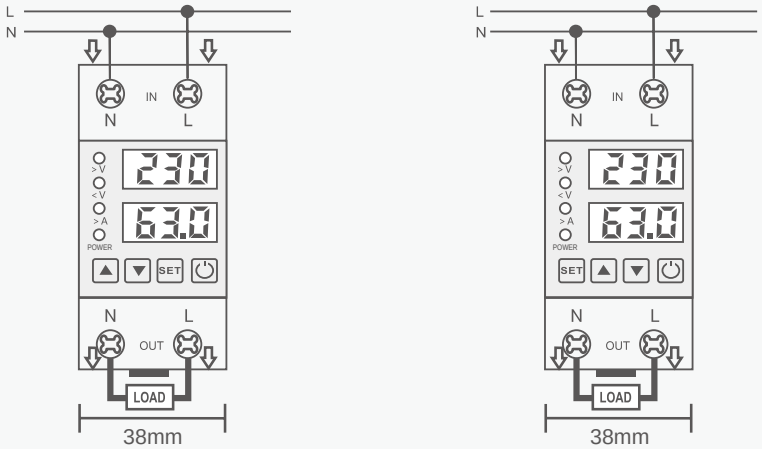
Setting

NO.	Option code	Option	max	min	Default	Step	Unit	Description
P1	Pt	Power-on delay	999	1	5	1/10	S	
P2	rt	Recoverydelay	999	1	30	1/10	S	
P3	oU	Overvoltage	300	130	270	1/10	V	Close overvoltage if greater than 300
P4	oUr	Overvoltage recovery value	295	125	265	1/10	V	Skip this setting when overvoltage is turned off
P5	uU	Undervoltage	210	80	170	1/10	V	Close undervoltage if below 80
P6	uUr	Undervoltage recoveryvalue	215	85	175	1/10	V	Skip this setting when undervoltage is turned off
P7	Utt	Overvoltage action delay	10.0	0.1	0.5	0.1/1.0	S	
P8	UAd	Voltage correction	+10%	-10%	0	0.5%	V	Long press settingis not recommended
P9	oC	Overcurrent	63.0	1.0	63.0	0.1/1.0	A	Close overcurrent if greater than 63.0
P10	Ctt	Overflow as delay	10.0	0.1	1.0	0.1/1.0	S	
P11	CC	Continuous overcurrent counting	20	0	0	1	Times	0: Turn off counting
P12	CAd	Current correction	+10%	-10%	0	0.5%	A	Long press settingisnot recommended
P13	FAd	Frequency correction	+2.5%	-2.5%	0	0.1%	Hz	Modifying this value will affect the accuracy ofthe timer
P14	FPd	Rapid power failure protection	on	off	on		MS	
P15	dS	Display mode	3	1	1	1		1:Standards 2: Manualswitch 3:Automatic switch
P16	Ar	Automatic reset	on	off	on			on: Self-recovery off: Manual recovery
P17	Act	Action/knife mode	on	off	on			on: Protector working properly off: knife mode
P18	EC	Energy saving mode	on	off	off			on: Open off: Close
P19	Loc	Setup lock password	999	000	112	1/10		When this value is not 112, you can only view the parameter and cannot set it

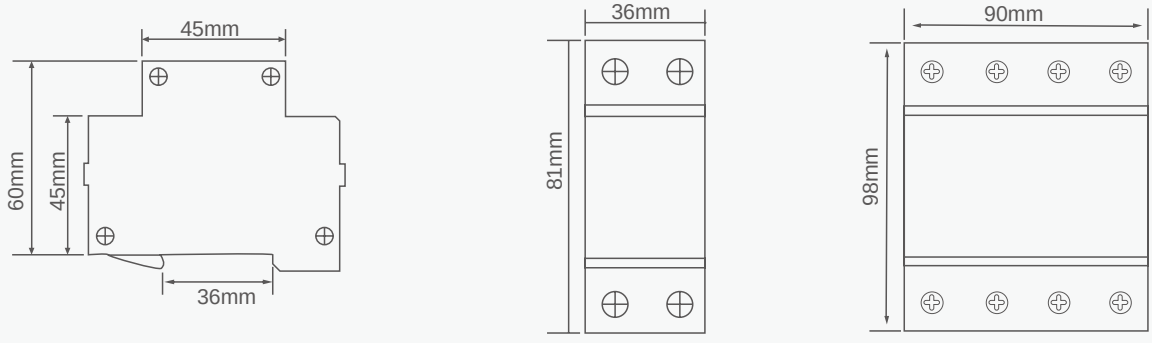
YC7VA Overvoltage and Undervoltage Protector

Wiring diagram





Overall and mounting dimensions(mm)



Example of ordering

YC7VA 63A 230V 50 pieces

Modular DIN Rail

YC9VA Overvoltage and Undervoltage Protector

YC9VA

YC9VA2

General

YC9VA/YC9VA2 voltage and current display relay is a microprocessor-based voltage monitoring device for single-phase AC networksto protect electrical equipment from surge voltage. The device analyzes the main votage and displays its current value on a digital indicator. Load is switched by electromagnetic relay. The user can set the current voltage value and delay time through the buton. The value is stored in non-volatile memory, Aluminum wires and copper wires can be used for connection.

Application

YC9VA/YC9VA2 voltage and current display relay used in administrative, industrial and residential buildings and has the function of protecting single-phase lines:

- Undervoltage protection;
- Overvoltage protection;
- Working under voltmeter mode;
- Overcurrent proteciton.

YC9VA Overvoltage and Undervoltage Protector

Technical data

Parameter	Data
Rated power supply voltage	AC230V
Rated frequency	50/60Hz
Maximum voltage adjustment range	230V~300V
Minimum voltage adjustment range	110V~210V
Range of adjustment of the maximum current	1A~63A
Deviation	2%
Maximum action time	<275V: 0,1s,≥275V: 0,02s
Delay time adjustment range	1-90s
Minimum action time	0.5s(≥160V); <0.1s(<160V)
Delay time adjustment range, overcurrent trip time	1-90s (Inom <Iism <Imax :); 0.1s (Iism≥Imax)
Voltmeter accuracy	≤1%
Rated insulation voltage	400V
Output contact	1NO
Protection	IP20
Pollution	3
Electrical life	100000 times
Mechanical life	1000000 times
Altitude	≤2000m
Operating temperature	-5°C~40°C
Relative humidity	50% at 40°C(non-condensing)
Storage temperature	-5°C~40°C
Installation	35mm DIN rail
Range of adjustment of the on-delay time	1-90s

Operation

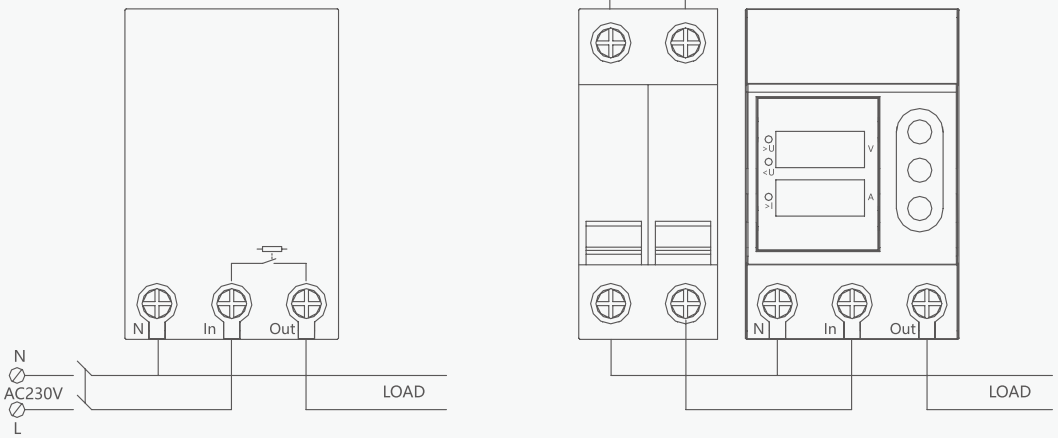
When a voltage is applied to the device, the digital indicator will display the current value of the voltage in the network.
A flashing light indicates that there is no votage on the output of the device. If the supply voltage is within the set range, after a whilel(default is 30 seconds), the load will turn on and the indicator will stop flashing. If the voltage is not within the specified range, the load wil not be connected to the ine until the voltage returns to norma. Meantime. if the votage is lower than the set lower limit during the restart, the error indicator will flash. If the votage is higher than the set upper limit, the error indicator wil remain on.

YC9VA Overvoltage and Undervoltage Protector

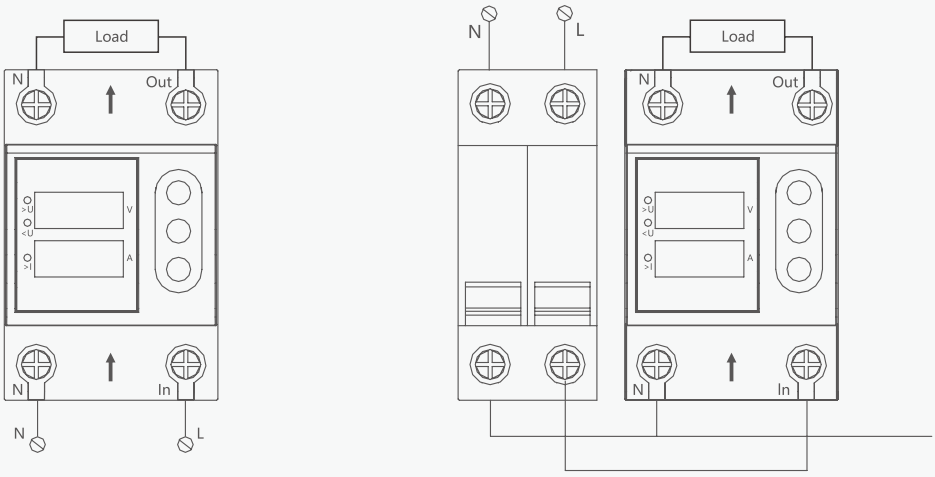
A

Wiring diagram

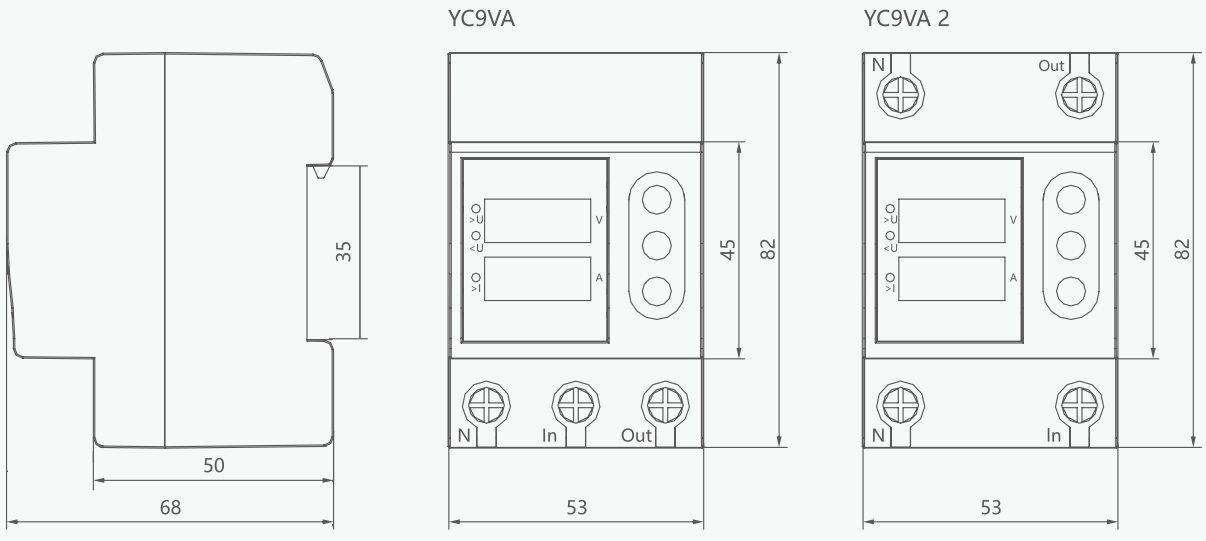
YC9VA



YC9VA2

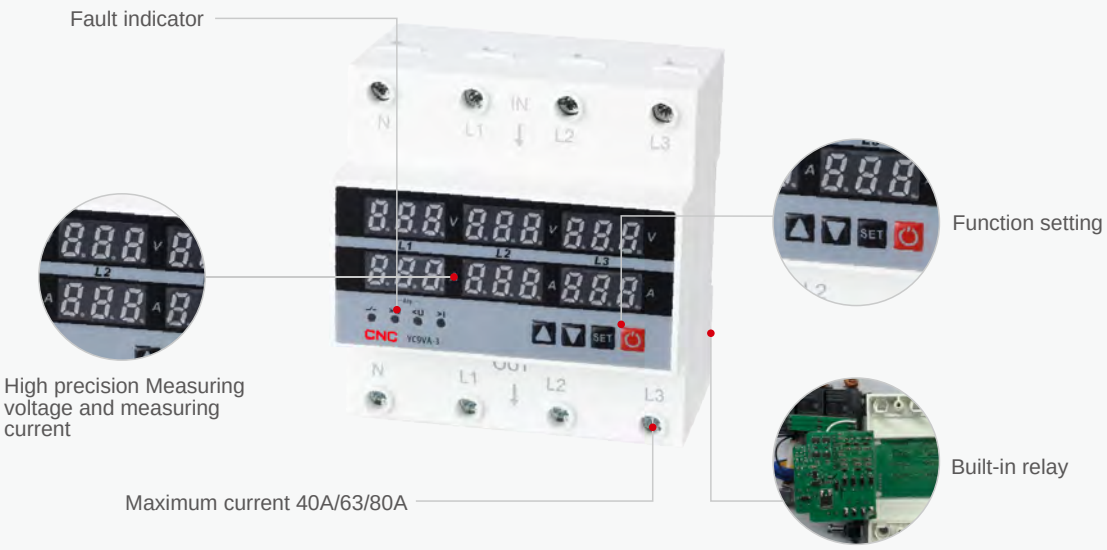


Overall and mounting dimensions(mm)



Modular DIN Rail

YC9VA-3 Overvoltage and Undervoltage Protector



General

YC9VA-3 voltage and current display relay is a microprocessor-based voltage monitoring device for three-phase AC networks to protect electrical equipment from surge voltage. The device analyzes the main voltage and displays its current value on a digital indicator. Load is switched by electromagnetic relay. The user can set the current voltage value and delay time through the button. The value is stored in non-volatile memory. Aluminum wires and copper wires can be used for connection.

Application

YC9VA3 voltage and current display relay used in administrative, industrial and residential buildings and has the function of protecting single-phase lines:

- Undervoltage protection;
- Overvoltage protection;
- Working under voltmeter mode;
- Overcurrent proteciton.

YC9VA-3 Overvoltage and Undervoltage Protector

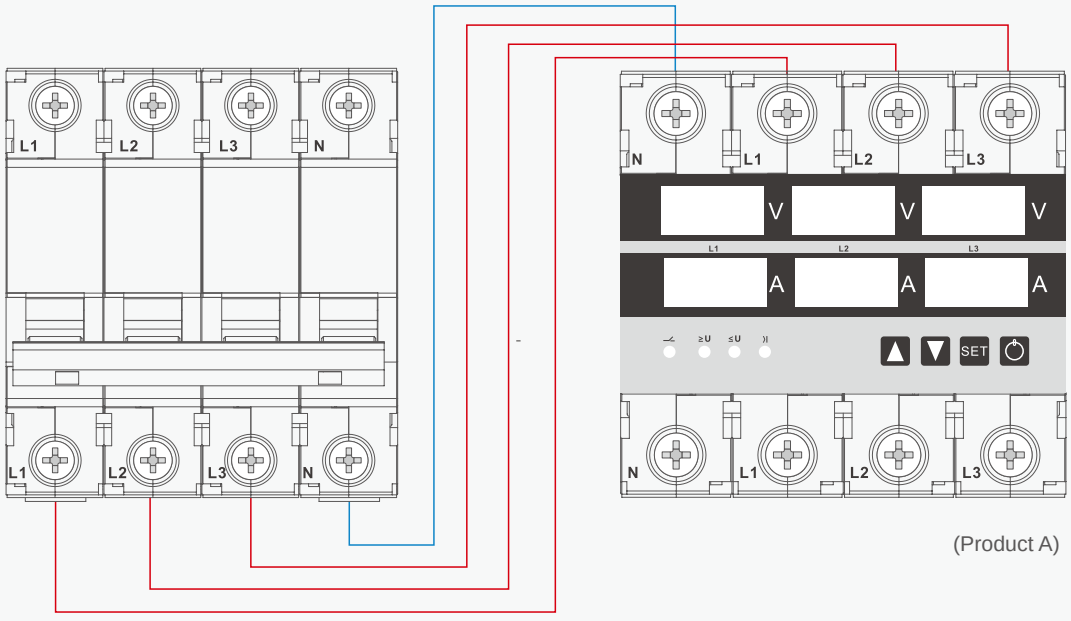
Technical data

Parameter	L-N	L-N
Rated supply voltage	AC 220	AC 380V
Operation voltage range	AC 80~400V(three phase)	AC 140~700V(three phase)
Rated frequency	50/60Hz	50/60Hz
Electric current(>A)setting range	1~40A/63A/80A	1~40A/63A/80A
Overvoltage(>U)setting range	230~300V	390~500V
Undervoltage(<U)setting range	140~220V	260~370V
Rated current	40A/63A/80A/100A	40A/63A/80A/100A
>U and <U trip delay	0.1~30S	0.1~30S
Reset/start delay	1~500S	1~500S
Voltage measurement accuracy	2%	2%
Rated insulation voltage	400V	700V
Output contact	3NO	3NO
Electrical life	10^5	10^5
Mechanical life	10^6	10^6
Protection degree	IP20	IP20
Pollution degree	3	3
Altitude	≤2000m	≤2000m
Operatintg temperature	-50°C~55°C	-50°C~55°C
Humidity	≤50% at 40(without condensation)	≤50% at 40(without condensation)
Storage temperature	-30°C~70°C	-30°C~70°C

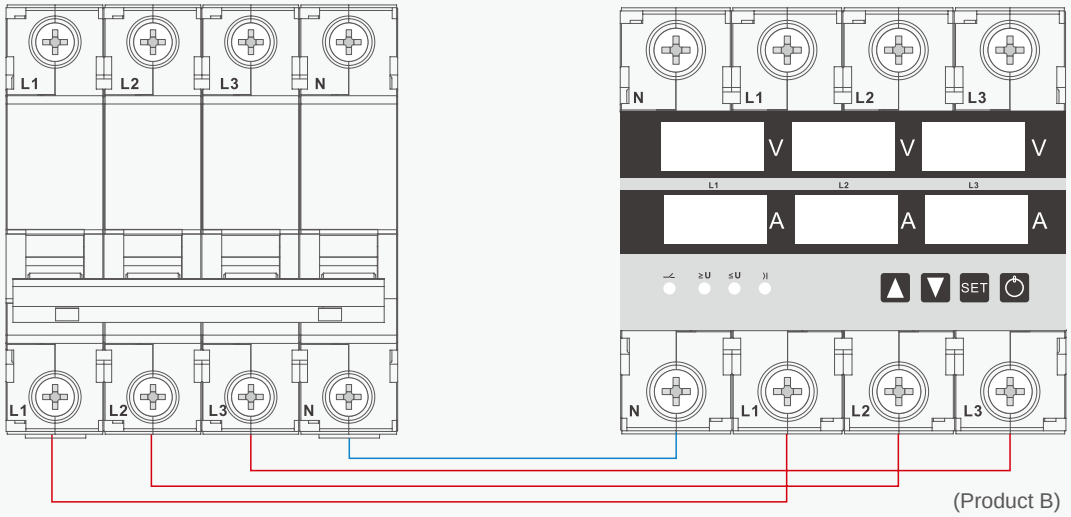
Rated supply voltage	AC 220				AC 380V			
Current specification	40A	63A	80A	100A	40A	63A	80A	100A
Rated operating current(In, A)	40	63	80	100	40	63	80	100
Maximum operating current Imax(A, with in 10 min)	63A	80A	100A	125A	63A	80A	100A	125A
Max. power of load(kW)	8.8	13.9	17.6	22	15.2	24	30.4	38

YC9VA-3 Overvoltage and Undervoltage Protector

Wiring diagram

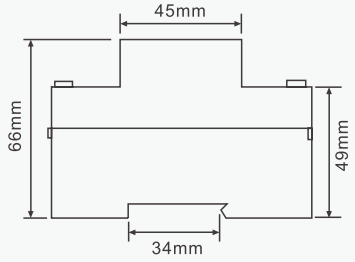


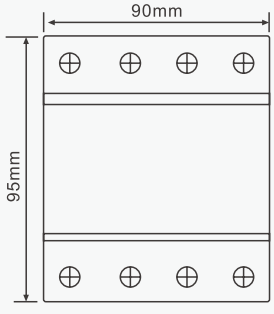
(Product A)



(Product B)

Overall and mounting dimensions(mm)





YCZF6

Self-recovery Overvoltage and Undervoltage Protector

CNC ELECTRIC

YCZF6 Self-recovery Overvoltage and Undervoltage Protector

General

self-recovery overvoltage and undervoltage protector is a new type of intelligent protection apparatus.With the modular standard design,in case of overvoltage ro undervoltage of power supply line,the protector can quickly and safely break the circuit under continuous high voltage surge,avoiding the happening of an accident due to abnormal voltage entry into the terminal apparatus;when voltage resumes normal value,the protector will automatically close the circuit within the specified time to ensure the terminal apparatus can operate normally in an unattended way.

self-recovery overvoltage and undervoltage protector is applied for the users or loads of AC 230V,50Hz and rated operating current and below.It is mainly used in the household distribution box or other distribution line requiring protection.

Meet the requirements of building electrical design code;
Small size,automatic reset without manual operation;
Cut off the circuit quickly and safely when the voltage fluctuation is too high or too low;
Automatic re-closing and voltage loss trip function by detectiong voltage;
With over voltage,under voltage,re-closing indicator state;
Low power consumption and long service life.

Type designation

YC ZF 6 - □ / □

- Number of poles:2P(AC230V), 4P(AC400V)
- Rated current:10A,16A,20A,25A,32A, 40A,50A,63A,80A,100A
- Design No.
- Self-recovery over-voltage and und er -voltageprotector
- CNC

Operating Conditions

- Ambient temperature:-35°~70°C;
- Altitude:≤3000M;
- Atmospheric conditions:The atmospheric relative humidity is not more than 50% when the ambient air temperature is +40°C;high relative humidity is permitted under low temperature,For example,it may be up to 90% at +20°C;special measures should be taken in case of occasional condensation due to temperature variation;
- Pollution degree:level 2;
- Mounting category:category II or III;
- Mounting form:It is installed using the TH35-7.5 section steel mounting rail.The inclination of installing surface cannot exceed 5°.

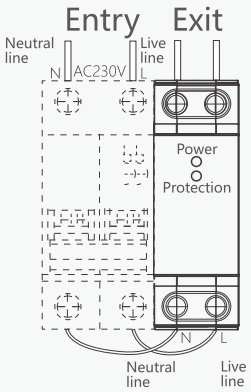
Modular DIN Rail

YCZF6 Self-recovery Overvoltage and Undervoltage Protector

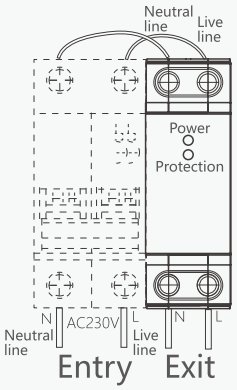
Technical data

Rated voltage	AC230V/400V 50Hz
Overvoltage operation cutoff value	275V±5V
Undervoltage opetation cutoff value	165V±5V
Rated operating current	10A,16A,20A,25A,32A,40A,63A,80A,100A
Operating time of protection	≤1s
Time delay close time	20s-60s
Electric mechanical life	≥50000 times
Power consumption	≤2W

Wiring diagram

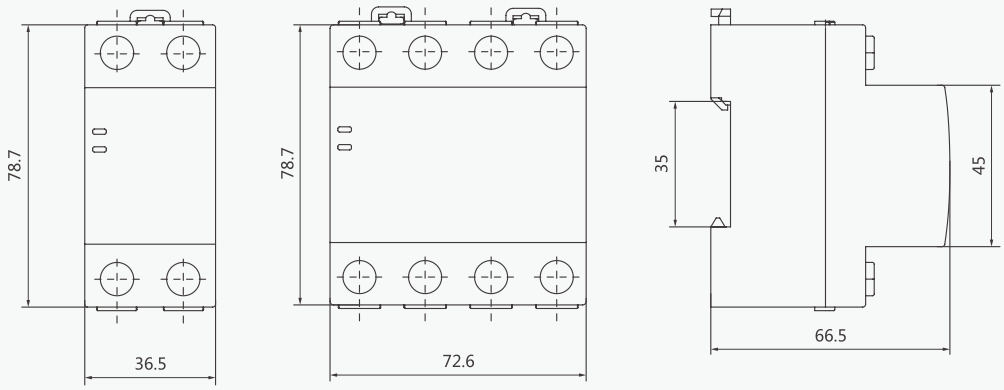


Bottom Entry and Upper Exit Connection Diagram



Upper Entry and Bottom Exit Connection Diagram

Overall and mounting dimensions(mm)



TMS-5 Modular Socket

General

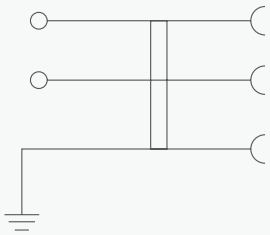
Grounded socket TMS-5 is suitable for single-phase power supply, used in the A auxiliary AC circuit for connecting electrical appliances (portable lamps, power supply, etc.).

Standard: IEC 60884-1.

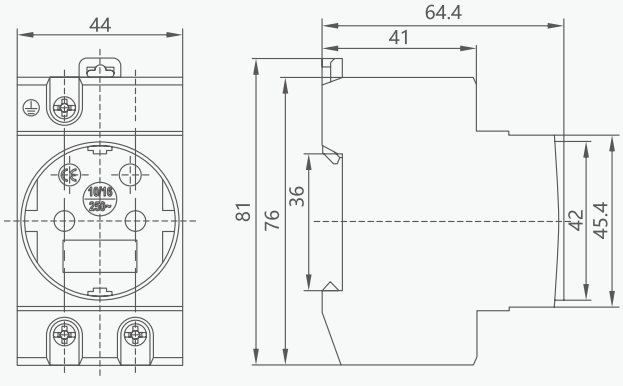
Technical data

Parameter	Value
Rated voltage, Un, V	180-250
Rated frequency, fn, Hz	40-60
Rated current, A	16
Connection mode	2P+PE
Protection degree	IP 20
Cross-sectional area of wire, mm²	2,5

Wiring diagram



Overall and mounting dimensions(mm)



The socket must be installed and connected by professional electrical personnel.
The socket is mounted on DIN 35mm guide rail, the tightening torque is 2.5 N.m.

YCS6-B Surge Protection Device

A

General

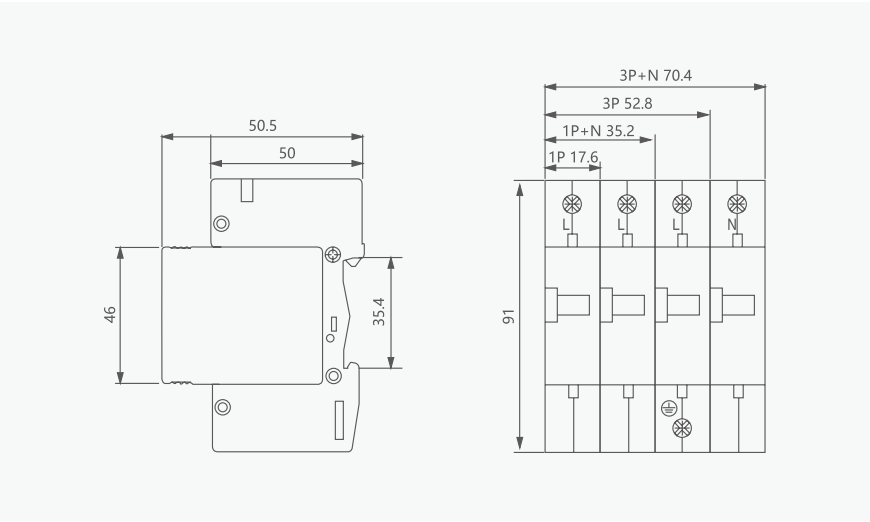
YCS6-B series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 100kA lightning stroke current.

Standard: IEC61643-1.

Technical data

Rated Operating Voltage Uc(V~)	220V	380V		220V	380V		220V	380V	
Maximum Continuous Operating Voltage Uc(V~)	275V	385V	420V	275V	385V	420V	275V	385V	420V
Voltage Protection Level Up(V~)kV	≤1.8	≤2.0	≤2.2	≤2.0	≤2.2	≤2.4	≤2.2	≤2.5	≤2.5
Nominal Discharge Current In(8/20μs)kA	30			40			60		
Maximum Discharge Current Imax(8/20μs)kA	60			80			100		
Response Time ns	<25								
L/N(mm2)The Cross Section of L/N Line	6								
PE(mm2)The Cross Section of PE Line	10								
Fuse or Switch(A)	63A			63A			100A		
Operating Environment°C	-40°C~+85°C								
Relative Humidity(25°C)	≤95%								
Installation	Standard Rail 35mm								

Overall and mounting dimensions(mm)



YCS6-C Surge Protection Device

General

YCS6-C series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. It can work as the equipotential bonding when the lightning strike.

The product is mainly applied to protect the low voltage electric equipment and prevent the surge causing by the thunder or switching overvoltage. As a univoltage limiting device, YCS6-C is equipped with the heavy-duty Zinc Oxide piezoresistor.

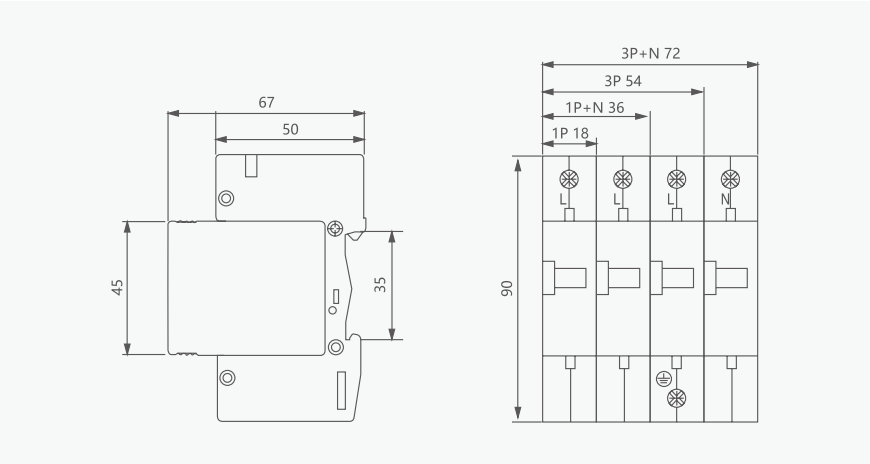
YCS6-C series (Protection level: II) Protection Device need to be installed on the up link of the equipment, connecting with outer conductor(L) or neutral conductor(N) and the earthing device. Users can install the YCS6-C in the boundary of LPZOA or LPZ1, usually in the incoming line low voltage main distribution box.

Standard: IEC61643-1.

Technical data

Rated Operating Voltage Uc(V~)	110V	220V		380V			220V		380V		
Maximum Continuous Operating Voltage Uc(V~)	140V	275V	320V	385V	420V	440V	275V	320V	385V	420V	440V
Voltage Protection Level Up(V~)kV	≤0.8	≤1.2	≤1.5	≤1.8	≤2.0	≤2.2	≤1.0	≤1.4	≤1.5	≤1.8	≤2.0
Nominal Discharge Current In(8/20μs)kA	20						15				
Maximum Discharge Current Imax(8/20μs)kA	40						30				
Response Time ns	<25										
Test Standard	IEC61643-1										
L/N(mm2)The Cross Section of L/N Line	2.5										
PE(mm2)The Cross Section of PE Line	6										
Fuse or Switch(A)	32A						100A				
Operating Environment°C	-40°C~+85°C										
Relative Humidity(25°C)	≤95%										
Installation	Standard Rail 35mm										

Overall and mounting dimensions(mm)



YCS6-D Surge Protection Device

A

General

YCS6-D series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 20kA lightning stroke current.

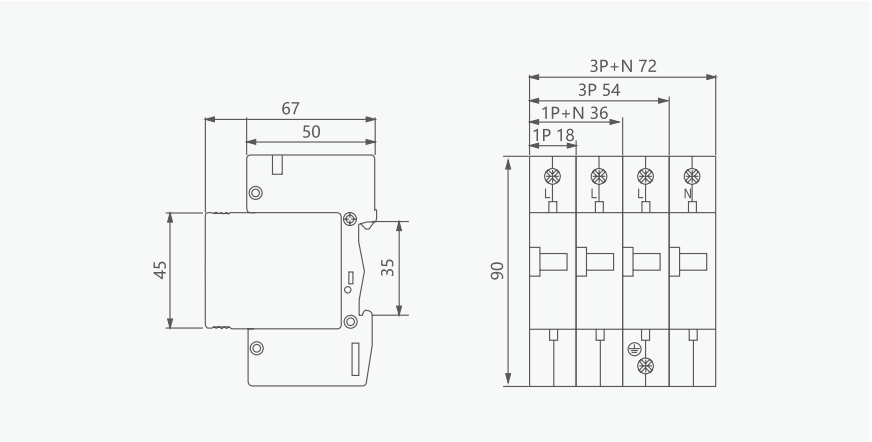
The lightning current SPD protection with protection level: III is applied to the Equipotential bonding when the lightning strike. YCS6-D Device should be installed in the boundary of LPZ1, LPZ2 and LPZn, usually in front of the residential distribution box, computer center, informational equipment, electronic equipment and controlling equipment or in the nearest socket box.

Standard: IEC61643-1.

Technical data

Rated Operating Voltage Uc(V~)	220V	380V	220V	380V
Maximum Continuous Operating Voltage Uc(V~)	275V	385V	275V	385V
Voltage Protection Level Up(V~)kV	≤0.7	≤1.0	≤1.2	≤1.5
Nominal Discharge Current In(8/20μs)kA	5		10	
Maximum Discharge Current Imax(8/20μs)kA	10		20	
Response Time ns	<25			
Test Standard	IEC61643-1			
L/N(mm2)The Cross Section of L/N Line	2.5			
PE(mm2)The Cross Section of PE Line	6			
Fuse or Switch(A)	10A,16A		16A,25A	
Operating Environment°C	-40°C~+85°C			
Relative Humidity(25°C)	≤95%			
Installation	Standard Rail 35mm			

Overall and mounting dimensions(mm)



YCS7N Surge Protection Device

General

YCS7N series Surge Protection Device is suitable for TT, IT, TN-S, TN-C and TN-C-S, the power supply system with the rated voltage up to 230/400V and AC 50/60Hz. Its design corresponds to IEC61643-1. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 80kA lightning stroke current.

Type designation

YC S7N - □□□ □□□

Surge protection device	Design code		Level	Lightning impulse current
YC	S7N	-	□□□	□□□
CNC	New 7 series		I+II: T1(10/350μs)+T2(8/20μs) /:T2	12.5kA,15kA,20kA, 40kA,60kA,80kA

Feature

1. Installation
   - The surge protector's housing size meets the space saving18mm width modulus requirement,so the device is easy to install.The lightning arrester can be easily installed by attaching it to the 35mm guide rail.
2. Characteristics
   - Seal structure design, no arc leakage during operation;
   - Modular design, integrated design, more beautiful appearance;
   - Limp12.5kA,15kA, fast response time;
   - Imported high energy graphite, stable performance, safe use;
   - 35mm standard rail installation.
3. the use of advantages
   - Switch type modular surge protector, with high lightning current discharge capacity;
   - The unique use of sealed design structure, even in the operation, there will be no leakage arc;
   - The use of high safety, no continuous flow;
   - No grounding jumper,more convenient installation, more safe;
   - When used with the post-stage voltage limiting typesurge arrester, the two-stage surge arrester can be installedtogether.

Operating Conditions

1. It is needless to adjust the protection device after it has been mounted.
2. Only the protection device is installed appropriately, it can protect the poer grid automatically at once;
3. When the protection device is operating,the tablet ot module shall be examined regularly, to check if it glows,meanwhile,observe if the red indicator lamp of fuse brightens. Please change the fault element in time.

YCS7N Surge Protection Device

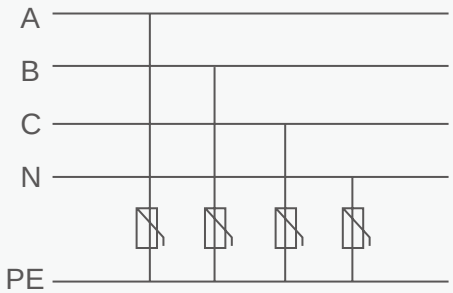
Technical data

Table 1 Variety & spec.of YCS7N series surge protection device

Moedl & spec	Rated operating voltage (Un)	Max continuous operating voltage Uc(V)	Protection level UP(KV)	Nominal operating currentIn 8/20us (kA)	Max effective current 8/20us (kA)	Lightning impulse current 10/350us (kA)	Response time ns	Operating temperature
YCS7N	220V/ 380V	385/420 140/275 320/440	1.0	5	10	/	<2.5	-40~+80°C
YCS7N			1.5	10	20	/		
YCS7N			1.8	20	40	/		
YCS7N			2.0	30	60	/		
YCS7N			2.2	40	80	/		
YCS7N		255/385 /440	2.0	/	/	12.5	<100	
YCS7N			2.0	/	/	15		

Index / Code	N-PE/12.5	N-PE/15
continuous ooperating voltage Uc(V)	255V/280V/385	
protection level UP(KV)	≤ 1.5KV ≤ 2.0KV ≤ 2.5	
Nominal operating currentin 8/20us (KA)	/	/
Lightning impulse current 10/350us (KA)	12.5	15
Response Time ns	< 100ns	
Color	Blue/Wie	

Main constitution and working principle



380V Network diagram

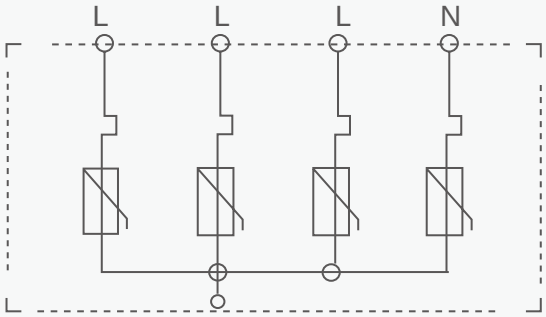
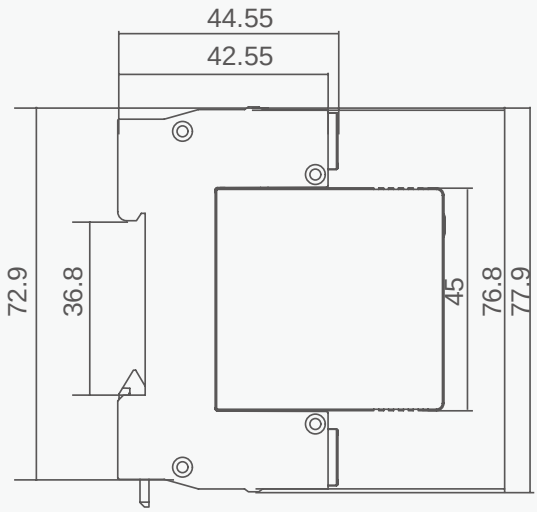
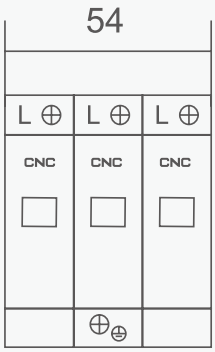


Diagram 2 1 Thermal failure release 2 Piezoresistor

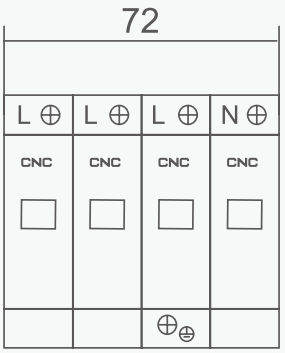
YCS7N Surge Protection Device

Overall and mounting dimensions(mm)

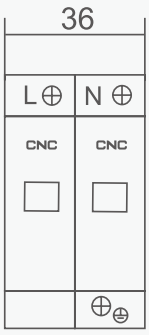




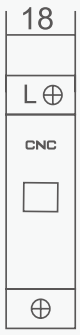
3 pole



4 pole



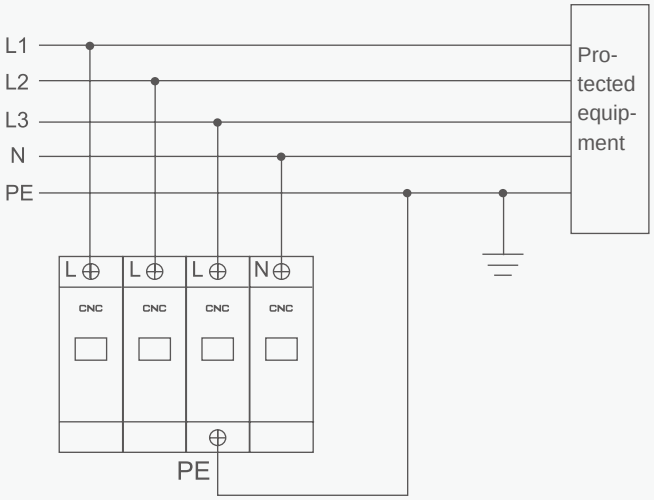
2-pole



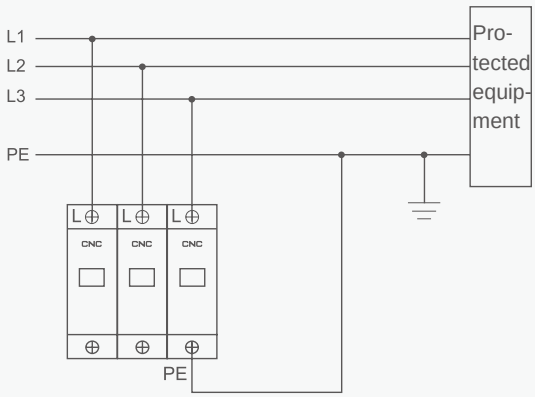
1-pole

YCS7N Surge Protection Device

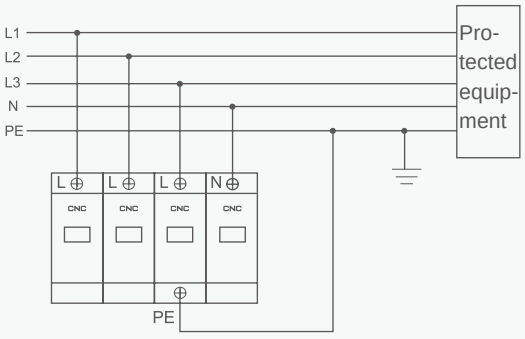
A



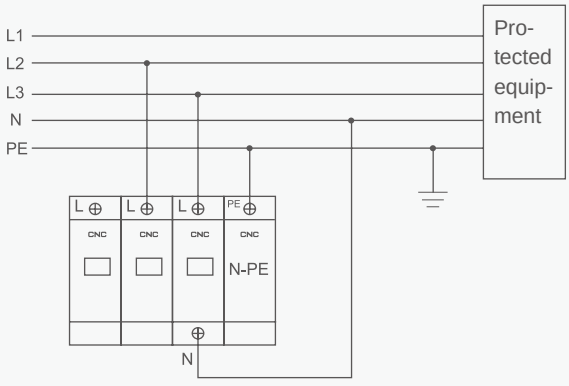
Wiring mode of TN-S power supply system



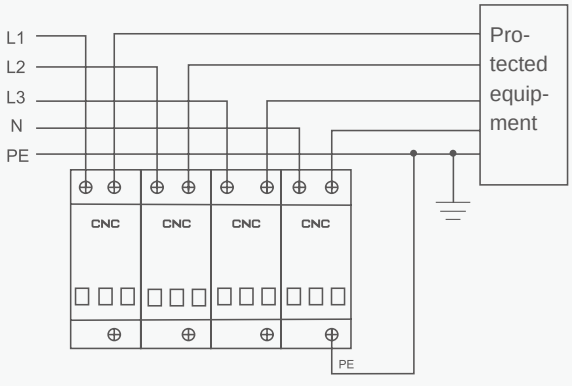
Wiring mode of TN-C power supply system



Wiring mode of TT power supply system



“3+1” wiring mode



Kevin wiring mode

YCCH6(YCCH7) Modular Contactor (Manual Automatic Integration)

YCCH6-25/40
(Automatic style)

YCCH6-63/40
(Automatic style)

YCCH7-63/20
(Manual automatic integration)

YCCH7-63/40
(Manual automatic integration)

General

1. YCCH6/YCCH7 series AC contactor (hereinafter referred to as the household appliances control a contactor) is used for remote switch on and off without a sense of feeling or low load, resistance furnace, household appliances and similar low load, motor and other household.
2. The main contactor is used in AC 50Hz/60Hz, rated voltage to 400V, rated current of power system to 100A, AC-1, AC-7a (in no sense or sense of low load, resistance furnace, household appliances and similar low load) categories, long distance switch and control circuit.
3. Contactor is not used for breaking short circuit current, so it is necessary to choose suitable short circuit protection electrical equipment.

   Standard: IEC/EN 61095

Type designation

Product name		Rated current	Contact type
YCCH6	-	63	11
Household contactor: YCCH6 YCCH7		16 20 25 32 40 63 100	11:1NO+1NC 20:2NO 02: 2NC 22:2NO+2NC 31:3NO+1NC 13:1NO+3NC 40: 4NO 04: 4NC

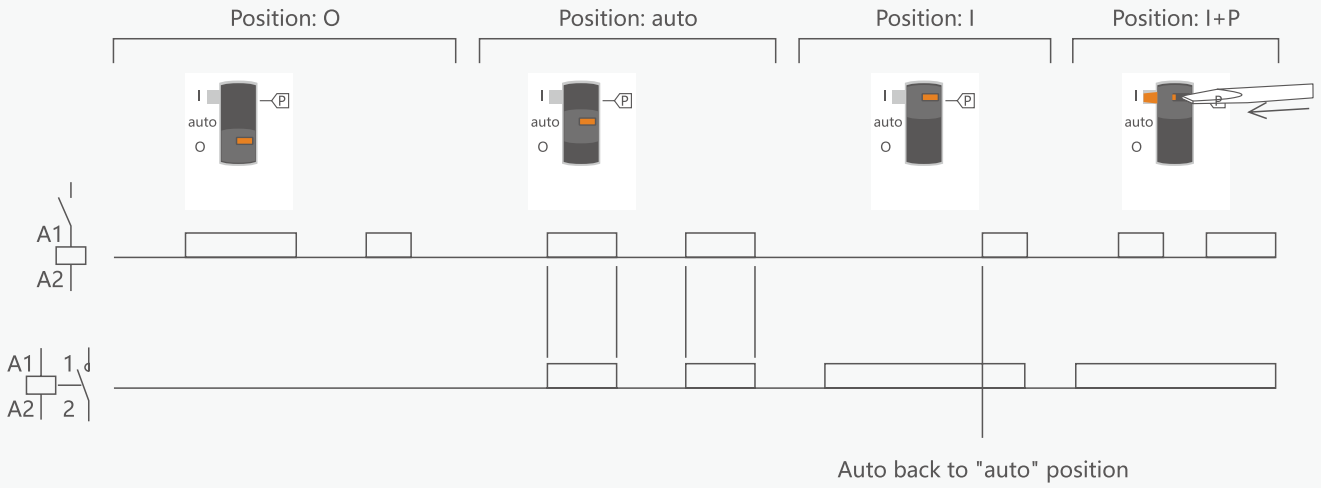
Technical data

Parameter			Specification						
			16	20	25	32	40	63	100
Rated Current In(A)		AC-7a	16	20	25	32	40	63	100
		AC-7b	6	7	9	12	18	25	32
Conventional Free Air Thermal Curent Ith (A)			16	20	25	32	40	63	100
Rated Insulation Voltage Ui (V)			500						
Rated Voltage Ue (V)			250V(2P) 400V (4P)						
Ambient Temperature			-5°C~40°C						
Making and Breaking Capacity (AC-7a)			1.5Ie						
Main Contacts		2P	1NO 1NC, 2NO, 2NC						
		4P	2NO 2NC, 3NO 1NC, 4NO, 4NC						
Controlled power	AC-7a	230V	3.5	4.5	5.5	7	9	14	22
		400V	11	13.5	17	22	27	40	69
	AC-7b	230V	1.2	1.5	2	2.5	4	5.5	6.5
		400V	4	4.5	6	8	12	17	27
Electrical durability (times)			$10x10^4$						
Mechanical durability (times)			$100x10^4$						
Operation frequency/1h			100						
Coil Volage Us (V)			AC 230V 50/60Hz						
Wiring Ability (mm^2)	Control circuit	Rigid wire	1.5~2.5mm^2				2x1.5mm^2		
		Flexible wire	1.5~2.5mm^2				2x2.5mm^2		
	Main circuit	Rigid wire	1.5~6mm^2				6~25mm^2		
		Flexible wire	1~4mm^2				6~16mm^2		
Fastening torque(N·m)	Main circuit terminal		0.8				3.5		
	Control circuit terminal		0.8						

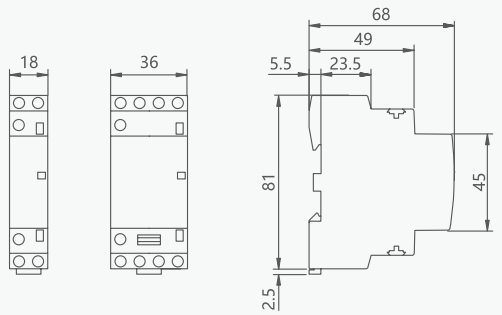
YCCH6(YCCH7) Modular Contactor (Manual Automatic Integration)

A

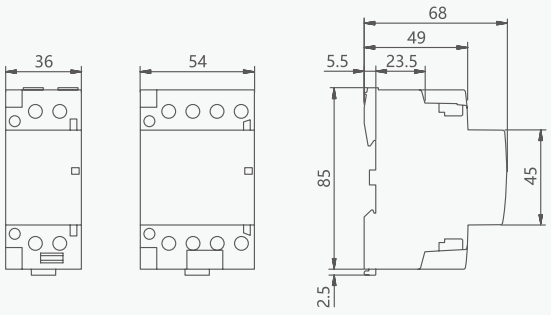
Operation (Manual Operation Contactor)



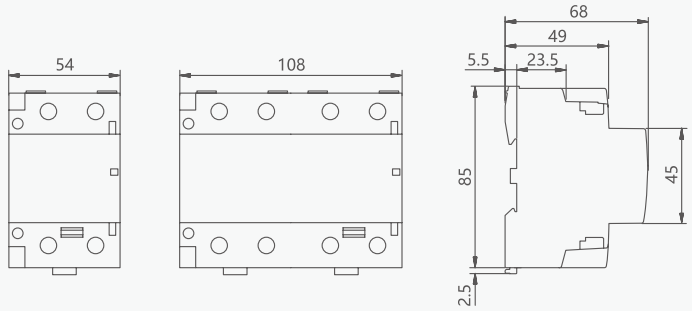
Overall and mounting dimensions(mm)



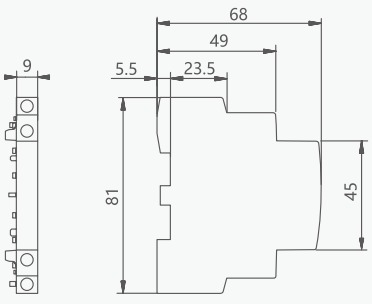
YCCH6/YCCH7 16-25A 2P 4P



YCCH6/YCCH7 40-63A 2P 4P



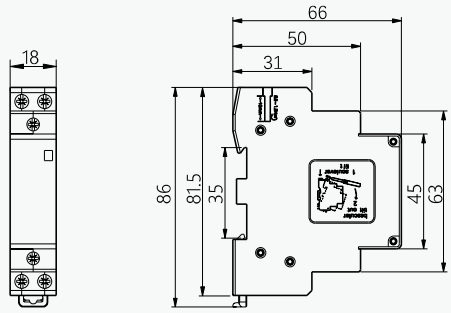
YCCH6 automatic type 100A 2P 4P



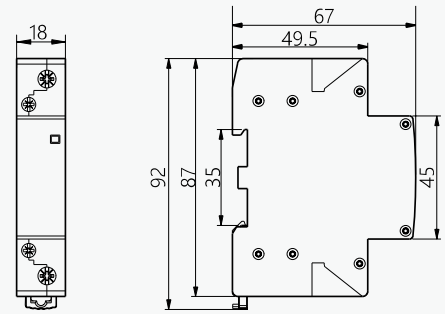
Auxiliary type O+F

YCCH6(YCCH7) Modular Contactor (Manual Automatic Integration)

YCCH6-30/20
(Automatic style)



YCCH6-63SNO
(Automatic style)



Mounting accessories

1:9 mm spacer
2: O+F 1NO+1NC,2NO

YCX1 Surface Mount Distribution Box

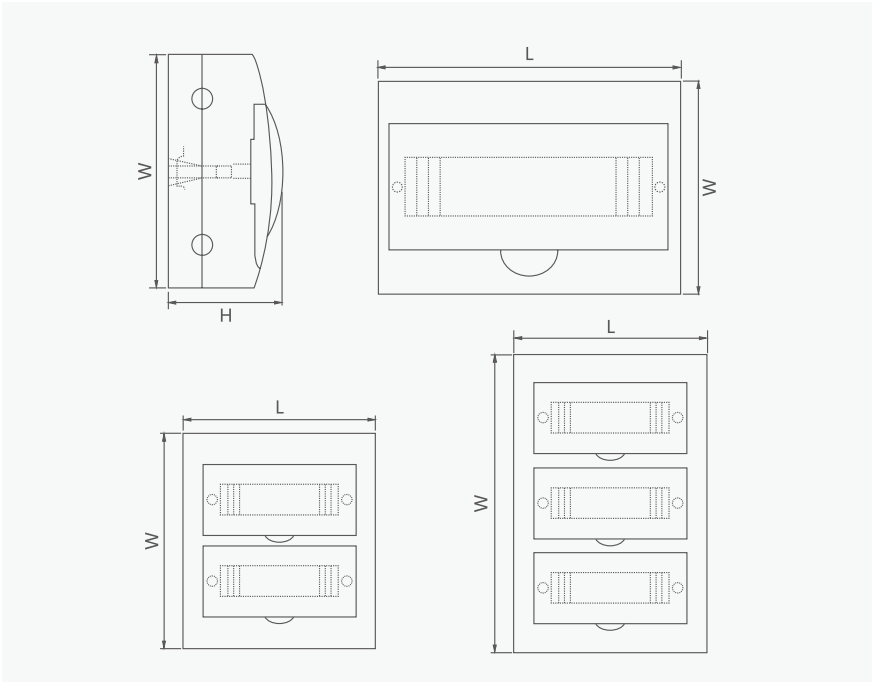
General

YCX1 series surface-mounted distribution box is a device that is suitable for installing modular terminal electrical components in a 9mm module. It has the characteristics of modular electrical component size standardization, installation guide rail standardization, and artistic appearance. It is safe to use. It is suitable for circuits with a rated frequency of 50/60Hz, rated voltage of 230V/400V AC, and rated current / maximum continuous input current of up to 100A. It can be widely used in buildings, residential areas, stations, ports, airports, hospitals, theaters, large commercial networks, and industrial and mining enterprises.

Technical date

1. It is suitable for ambient temperatures that usually do not exceed +35°C, occasionally reach +40°C, with a maximum of +40°C within 24h and a minimum of -5°C.
2. Protection rating:IP40
3. Ue: AC 230V/400V
4. In: Max 100A
5. Specifications: 4/6/8/10/12/15/18/24/36 Ways

Overall and mounting dimensions(mm)



Specification \ Dimension	L	W	H
YCX1-4WAYS	112	200	95
YCX1-6WAYS	148	200	95
YCX1-8WAYS	184	200	95
YCX1-10WAYS	222	200	95
YCX1-12WAYS	256	200	95
YCX1-15WAYS	310	200	95
YCX1-18WAYS	365	222	95
YCX1-24WAYS	271	325	97
YCX1-36WAYS	271	462	100

YCX2 Surface Mount Distribution Box

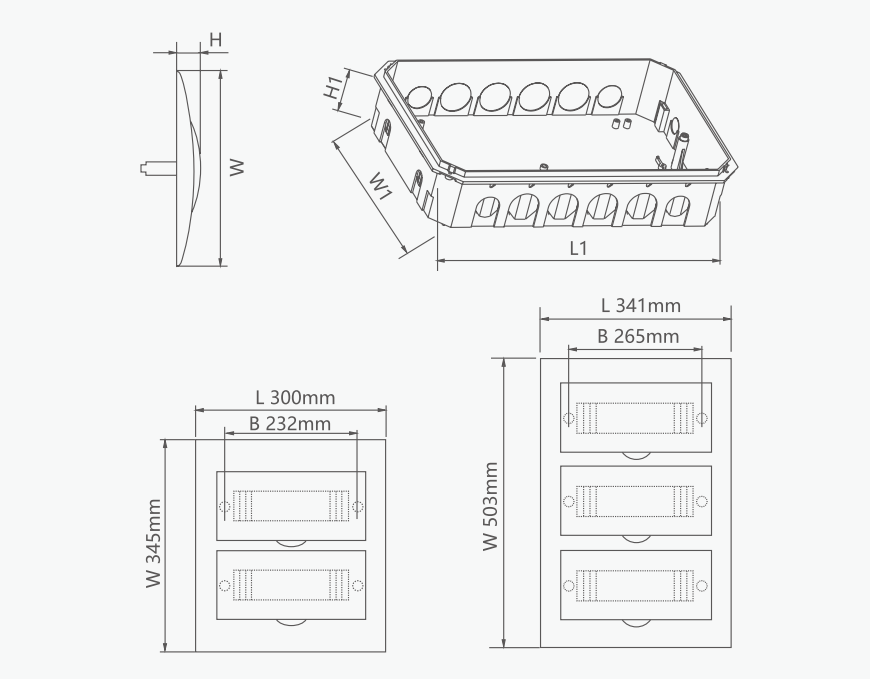
General

YCX2 series flush-mounted distribution box is a device that is suitable for installing modular terminal electrical components in a 9mm module. It has the characteristics of modular electrical component size standardization, installation guide rail standardization, and artistic appearance. It is safe to use. It is suitable for circuits with a rated frequency of 50/60Hz, rated voltage of 230V/400V AC, and rated current / maximum continuous input current of up to 100A. It can be widely used in buildings, residential areas, stations, ports, airports, hospitals, theaters, large commercial networks, and industrial and mining enterprises.

Technical date

1. It is suitable for ambient temperatures that usually do not exceed +35°C, occasionally reach +40°C, with a maximum of +40°C within 24h and a minimum of -5°C.
2. Protection rating:IP40
3. Ue: AC 230V/400V
4. In: Max 100A
5. Specifications: 4/6/8/10/12/15/18/24/36 Ways

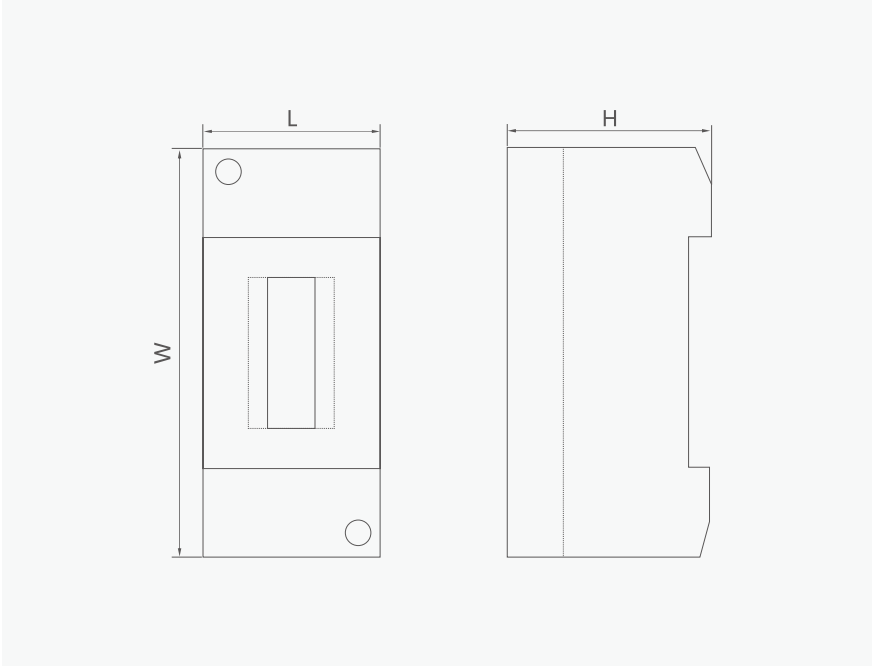
Overall and mounting dimensions(mm)



Specification \ Dimension	L1	W1	H1	L	W	H
YCX2-4WAYS	115	197	60	136	222	27
YCX2-6WAYS	148	197	60	170	222	27
YCX2-8WAYS	184	197	60	207	222	27
YCX2-10WAYS	222	197	60	243	222	27
YCX2-12WAYS	258	197	60	279	222	27
YCX2-15WAYS	310	197	60	334	222	27
YCX2-18WAYS	365	219	67	398	251	27
YCX2-24WAYS	258	310	66	300	345	27
YCX2-36WAYS	258	449	66	300	484	27

YCX3 Surface Mount Distribution Box

Overall and mounting dimensions(mm)



Specification \ Dimension	L	W	H
YCX3-1WAYS	34	130	60
YCX3-2WAYS	52	130	60
YCX3-4WAYS	87	130	60
YCX3-6WAYS	123	130	60
YCX3-8WAYS	160	130	60

YCX6 Lighting Distribution Box

General

YCX6 is applicable to residential buildings or places for non-professional people to enter, it includes control equipment and signal equipment. It is applicable to the circuit with an alternating current, the nominal voltage to earth does not exceed 380V, the output circuit is with short circuit protection function. When the total input load current does not exceed 125A, the rated current of each short circuit protection device shall not exceed 63A. This product is with plastic cover and metal box, mainly used to following conditions:

- Power distribution system

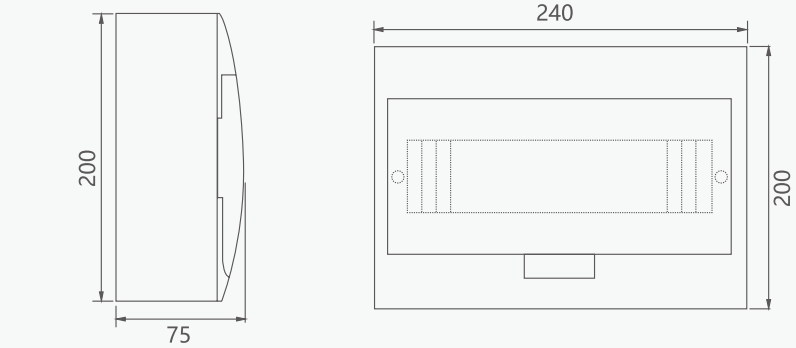
  Building electrical distribution system, house renovation and decoration.
- Installation mode

  The metal box matched with the plastic cover, it is especially suitable for flush mounting of distribution box in construction and decoration projects.
- Appearance design

  The stylish appearance design is suitable for high-end residences, hotels and office buildings, etc., which show the taste of modern life.

Overall and mounting dimensions(mm)

YCX6-9:



Product mode	Rows	No. of units	Surface mounting dimension	Flush mounting dimension(hole size)
YCX6-9	1	9	240×200×75	217×180×75
YCX6-12	1	12	295×230×75	270×210×75
YCX6-16	1	16	360×230×75	340×210×75
YCX6-20	1	20	438×230×75	413×210×75
YCX6-24	2	24	295×460×75	270×440×75
YCX6-32	2	32	366×460×75	340×440×75
YCX6-36	3	36	295×690×75	270×670×75
YCX6-40	2	40	438×460×75	413×440×75
YCX6-48	3	48	366×690×75	340×670×75
YCX6-60	3	60	438×690×75	438×670×75

HA Water Proof Distribution Box (IP65)

A

General

HA Series waterproof box is attractive and durable, safe and reliable, which is widely used in various places such as factory, mansion, residence, shopping center and so on.

Standard: IEC-493-1

Features

1. The panel is the ABs material for the engineering with high strength whose color would never change, and the transparent material is PC.
2. Cover push-type opening and closing

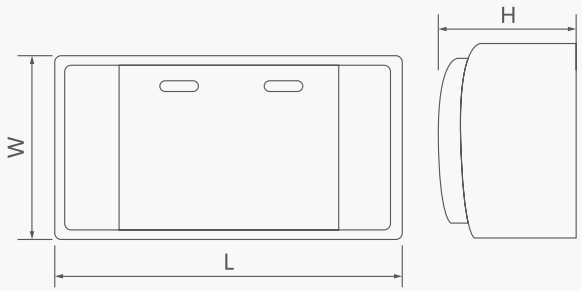
   Face covering of the distribution box adopts the push-type opening and closing mode, the face mask can be opened by pressing lightly, the self-locking positioning hinge structure is provided when opening.
3. Wiring design of the power distribution box

   The guide rail support plate can be lifted to the highest movable point, it is no longer limited by the narrow space when installing the wire. To install easily, the switch of the distribution box is set up with the wire groove and wire pipe exitholes.To install easily, the switch of the distribution box is set up with the wire groove and wire pipe exit holes, with various types applicable.

Technical date

1. 1.It is suitable for ambient temperatures that usually do not exceed +35°C, occasionally reach +40°C, with a maximum of +40°C within 24h and a minimum of -5°C.
2. Protection rating:IP65
3. Ue: AC 230V/400V
4. In: Max 100A
5. Specifications: 4/8/12/18/48 Ways

Overall and mounting dimensions(mm)



Model	Dimension(mm)		
	L(mm)	W(mm)	H(mm)
HA-4P	140	210	100
HA-8P	215	210	100
HA-12P	300	260	140
HA-18P	410	285	140
HA-24P	415	300	140

SH-Q3 Water-proof Junction Box

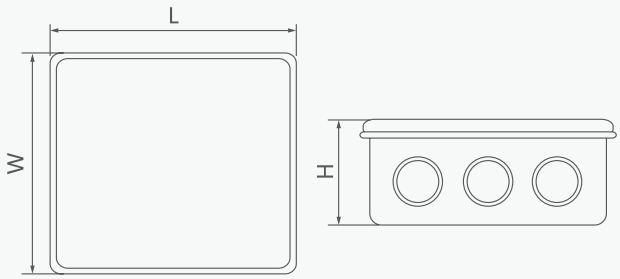
General

It is made of materials such as ABS and PC, etc, elegant external shape, high firmness. Combined body and cover are fixed with four plastic screws that will not fall off easily. Its specification and size can be designed based on the customer requirements. Economic and affordable. Net weight only accounts for the iron box of about 1/4, to facilitate handling and operation, no corrosion, good insulation.

Waterproof junction box purpose: electrical, electronics, communication, fire fighting equipment, control panel, terminal box, large factory, coastal plant, environmental hazard facility, etc.

Materials can be selected according to the customer's requirements.

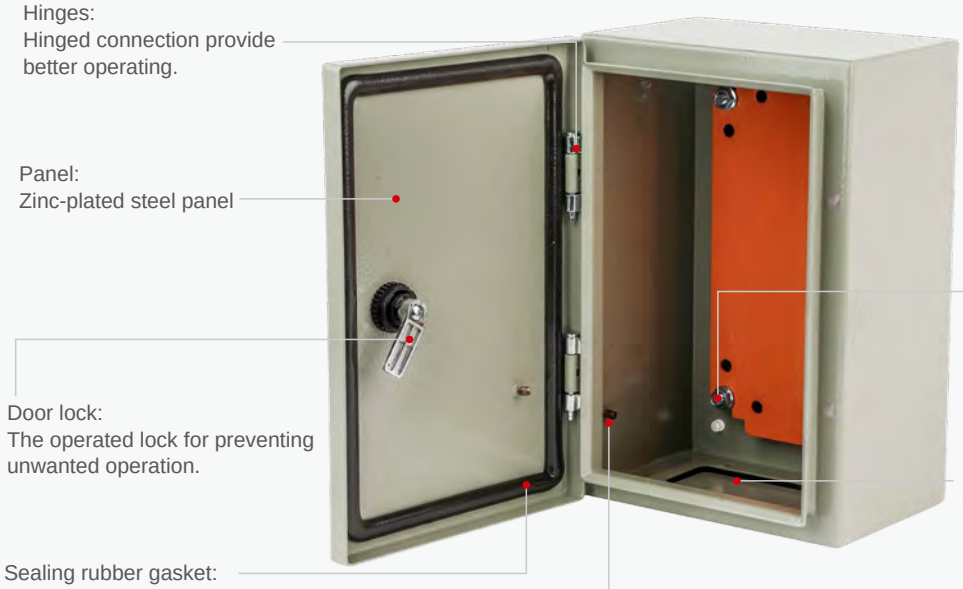
Overall and mounting dimensions



Model	Dimension(mm)		
	L(mm)	W(mm)	H(mm)
SH-Q3-801	50	/	30
SH-Q3-802	50	/	50
SH-Q3-803	80	/	50
SH-Q3-804	80	80	50
SH-Q3-805	85	85	50
SH-Q3-806	100	100	70
SH-Q3-807	150	110	70
SH-Q3-808	150	150	70
SH-Q3-809	200	100	110
SH-Q3-8010	200	155	80
SH-Q3-8011	200	100	70
SH-Q3-8012	200	200	80
SH-Q3-8013	255	200	80
SH-Q3-8014	300	250	120
SH-Q3-8015	400	350	120

Modular DIN Rail

YCS1 Enclosure



General

The Wall Mounting Enclosure is designed to adopt all kind of Electrical switch gear & control gear assemblies. It is suitable for variety of Electrical installations in commercial & light industrial premises. For indoor&outdoor applications usage.

- Rated voltage: 230V/400V
- Frequency: 50/60Hz
- Protection degree: IP66
- Standard: IEC 62208

Features

Material:
The shell is made of high-quality electro-galvanized steel with a thickness of up to 1.5mm; the mounting plate is made of 2mm GI steel or RAL 2000; the hinge is a 2.0-thick cold-rolled plate galvanized pin type; it meets high standards and high requirements.

Process:
Adopt pickling and phosphating, which is stronger in anti-corrosion and anti-rust; full welding process, higher product strength;dispensing process, meeting IP65 requirements

Protection:
Zinc alloy waterproof door lock; the door lock is a zinc alloy inner core waterproof lock; sealed rubber pad, double insulation, excellent outdoor performance.
Surface: The shell is sprayed in two colors of 7035/7032, the bottom plate is 5060 orange, eye-catching international standards, and the spraying standard reaches 60-80μ.
Design: Corner-molded lids ensure better rain protection and great looks, and the 3-point cam lock for larger size can ensure uniform locking on the whole length.

Flexible instaation: the direction of the door panel can be reversed left and right, the bottom cover can be detached, and the ceiingcan be fixed as an optional part.

Conforms to IEC standard.

YCS1 Enclosure

Model	H(mm)	W(mm)	D(mm)	Thickness		
				Door/mm	Body/mm	M.P/mm
YCS1-2020/15	200	200	150	1.2	1.2	2
YCS1-2520/15	250	200	150	1.2	1.2	2
YCS1-3020/15	300	200	150	1.2	1.2	2
YCS1-3020/20	300	200	200	1.2	1.2	2
YCS1-3025/15	300	250	150	1.2	1.2	2
YCS1-3025/20	300	250	200	1.2	1.2	2
YCS1-3025/25	300	250	250	1.2	1.2	2
YCS1-3030/15	300	300	150	1.2	1.2	2
YCS1-3030/20	300	300	200	1.2	1.2	2
YCS1-3030/25	300	300	250	1.2	1.2	2
YCS1-4030/15	400	300	150	1.2	1.2	2
YCS1-4030/20	400	300	200	1.2	1.2	2
YCS1-4030/25	400	300	250	1.2	1.2	2
YCS1-4030/30	400	300	300	1.2	1.2	2
YCS1-4040/15	400	400	150	1.2	1.2	2
YCS1-4040/20	400	400	200	1.2	1.2	2
YCS1-4040/25	400	400	250	1.2	1.2	2
YCS1-4040/30	400	400	300	1.2	1.2	2
YCS1-5030/15	500	300	150	1.2	1.2	2
YCS1-5030/20	500	300	200	1.2	1.2	2
YCS1-5030/25	500	300	250	1.2	1.2	2
YCS1-5030/30	500	300	300	1.2	1.2	2
YCS1-5040/15	500	400	150	1.2	1.2	2
YCS1-5040/20	500	400	200	1.2	1.2	2
YCS1-5040/25	500	400	250	1.2	1.2	2
YCS1-5040/30	500	400	300	1.2	1.2	2
YCS1-5050/15	500	500	150	1.2	1.2	2
YCS1-5050/20	500	500	200	1.2	1.2	2
YCS1-5050/25	500	500	250	1.2	1.2	2
YCS1-5050/30	500	500	300	1.2	1.2	2
YCS1-6040/15	600	400	150	1.2	1.2	2
YCS1-6040/20	600	400	200	1.2	1.2	2
YCS1-6040/25	600	400	250	1.2	1.2	2
YCS1-6040/30	600	400	300	1.2	1.2	2
YCS1-6050/15	600	500	150	1.2	1.2	2
YCS1-6050/20	600	500	200	1.2	1.2	2
YCS1-6050/25	600	500	250	1.2	1.2	2
YCS1-6050/30	600	500	300	1.2	1.2	2
YCS1-6060/15	600	600	150	1.2	1.2	2
YCS1-6060/20	600	600	200	1.2	1.2	2
YCS1-6060/25	600	600	250	1.2	1.2	2
YCS1-6060/30	600	600	300	1.2	1.2	2
YCS1-7040/32	700	400	200	1.2	1.2	2

Modular DIN Rail

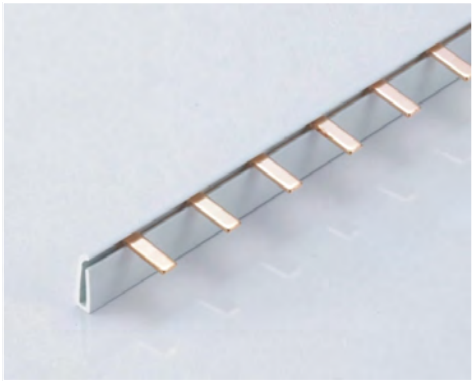
YCS1 Enclosure

Model	H(mm)	W(mm)	D(mm)	Thickness		
				Door/mm	Body/mm	M.P/mm
YCS1-4730/30	700	400	300	1.2	1.2	2
YCS1-7050/15	700	500	150	1.2	1.2	2
YCS1-7050/20	700	500	200	1.2	1.2	2
YCS1-7050/25	700	500	250	1.2	1.2	2
YCS1-7050/30	700	500	300	1.2	1.2	2
YCS1-7060/20	700	600	200	1.2	1.2	2
YCS1-7060/25	700	600	250	1.2	1.2	2
YCS1-7060/30	700	600	300	1.2	1.2	2
YCS1-8060/20	800	600	200	1.5	1.5	2
YCS1-8060/25	800	600	250	1.5	1.5	2
YCS1-8060/30	800	600	300	1.5	1.5	2
YCS1-8060/35	800	600	350	1.5	1.5	2
YCS1-8060/40	800	600	400	1.5	1.5	2
YCS1-8080/20	800	800	200	1.5	1.5	2
YCS1-8080/25	800	800	250	1.5	1.5	2
YCS1-8080/30	800	800	300	1.5	1.5	2
YCS1-8080/40	800	800	400	1.5	1.5	2
YCS1-10060/20	1000	600	200	1.5	1.5	2
YCS1-10060/25	1000	600	250	1.5	1.5	2
YCS1-10060/30	1000	600	300	1.5	1.5	2
YCS1-10070/20	1000	700	200	1.5	1.5	2
YCS1-10080/20	1000	800	200	1.5	1.5	2
YCS1-10080/25	1000	800	250	1.5	1.5	2
YCS1-10080/30	1000	800	300	1.5	1.5	2
YCS1-10080/40	1000	800	400	1.5	1.5	2
YCS1-100100/25	1000	1000	250	1.5	1.5	2
YCS1-100100/30	1000	1000	300	1.5	1.5	2
YCS1-12060/20	1200	600	200	1.5	1.5	2
YCS1-12060/25	1200	600	250	1.5	1.5	2
YCS1-12060/30	1200	600	300	1.5	1.5	2
YCS1-12080/20	1200	800	200	1.5	1.5	2
YCS1-12080/25	1200	800	250	1.5	1.5	2
YCS1-12080/30	1200	800	300	1.5	1.5	2
YCS1-120100/25	1200	1000	250	1.5	1.5	2
YCS1-120100/30	1200	1000	300	1.5	1.5	2
YCS1-120100/40	1200	1000	400	1.5	1.5	2
YCS1-120120/25	1200	1200	250	1.5	1.5	2
YCS1-120120/30	1200	1200	300	1.5	1.5	2
YCS1-14060/30	1400	600	300	1.5	1.5	2
YCS1-14080/30	1400	800	300	1.5	1.5	2
YCS1-14080/40	1400	800	400	1.5	1.5	2
YCS1-140100/30	1400	1000	300	1.5	1.5	2
YCS1-140100/40	1400	1000	400	1.5	1.5	2
YCS1-140120/30	1400	1200	300	1.5	1.5	2

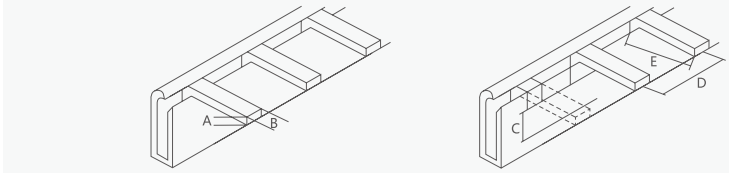
Busbar

Busbar Pin

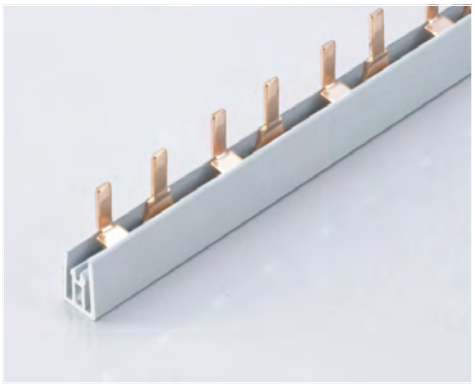
Material: Copper
Features: good conductivity, low contact resistance, safe and reliable performance.



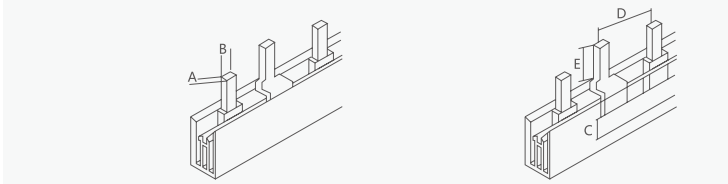
PIN 1P



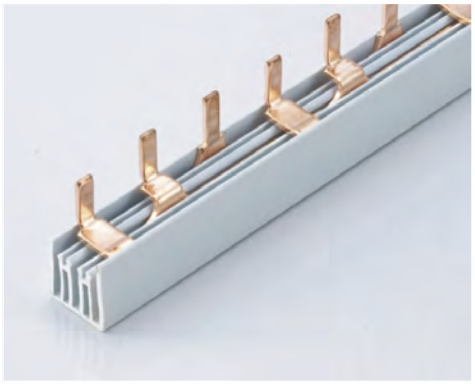
Specification	Model	A	B	C	D	E	Reference current
PIN	1P-63	1.4	4	7	17.8	11.5	63A
PIN	1P-80	1.5	4	9	17.8	11.5	80A
PIN	1P-100	1.7	4	9	17.8	11.5	100A



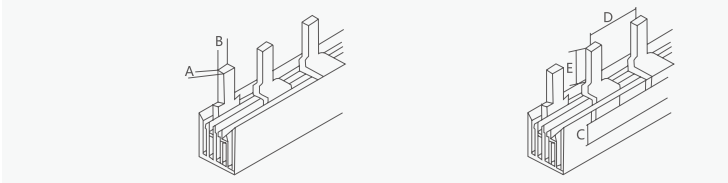
PIN 2P



Specification	Model	A	B	C	D	E	Reference current
PIN	2P-63	1.4	4	7	17.8	11.5	63A
PIN	2P-80	1.5	4	9	17.8	11.5	80A
PIN	2P-100	1.7	4	9	17.8	11.5	100A



PIN 3P

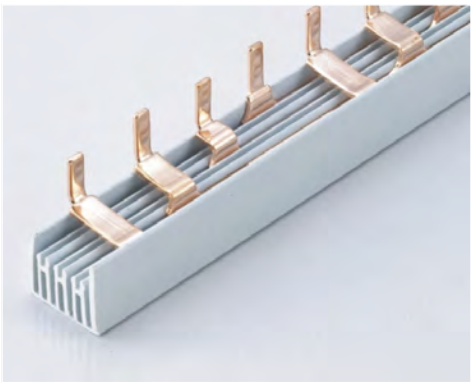


Specification	Model	A	B	C	D	E	Reference current
PIN	3P-63	1.4	4	7	17.8	11.5	63A
PIN	3P-80	1.5	4	9	17.8	11.5	80A
PIN	3P-100	1.8	4	9	17.8	11.5	100A

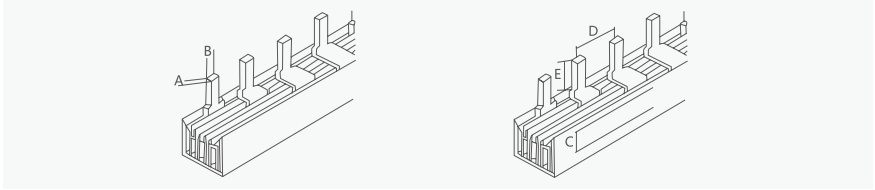
Busbar

Busbar Pin

Material: Copper
Features: good conductivity, low contact resistance, safe and reliable performance.



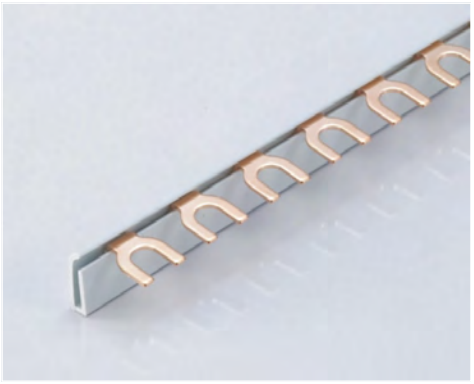
PIN 4P



Specification	Model	A	B	C	D	E	Reference current
PIN	4P-63	1.4	4	7	17.8	11.5	63A
PIN	4P-80	1.5	4	9	17.8	11.5	80A
PIN	4P-100	1.8	4	9	17.8	11.5	100A

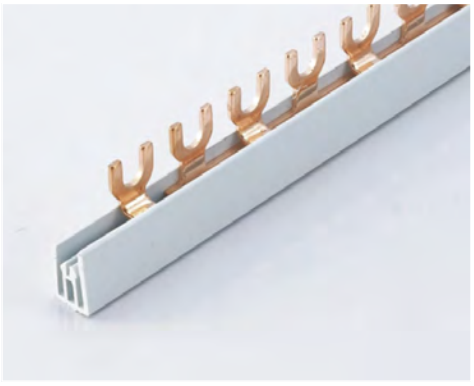
Busbar Fork

Material: Copper
Features: good conductivity, low contact resistance, safe and reliable performance.

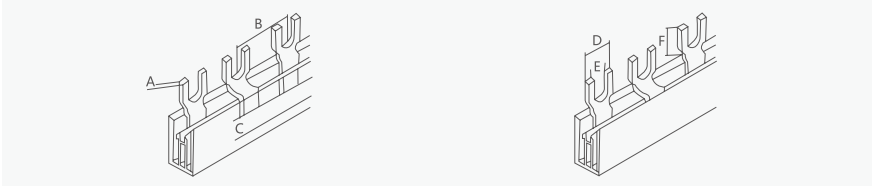


FORK 1P

Specification	Model	A	B	C	D	E	F	Reference current
FORK	1P-63	1.4	17.8	7	12	6	12	63A
FORK	1P-80	1.5	17.8	9	12	6	12	80A
FORK	1P-100	1.8	17.8	9	12	6	12	100A



FORK 2P

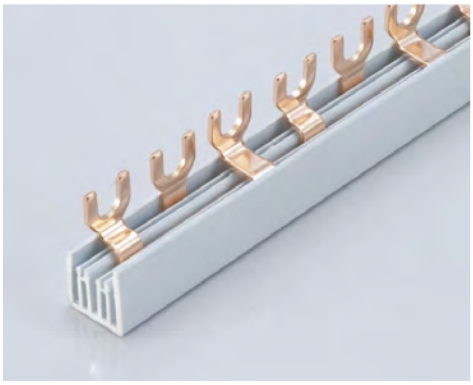


Specification	Model	A	B	C	D	E	F	Reference current
FORK	2P-63	1.4	17.8	7	12	6	12	63A
FORK	2P-80	1.5	17.8	9	12	6	12	80A
FORK	2P-100	1.8	17.8	9	12	6	12	100A

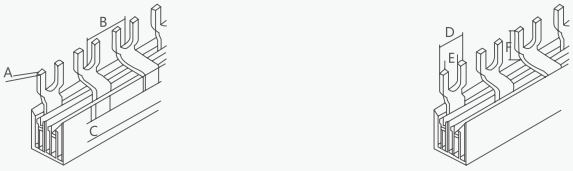
Busbar

Busbar Fork

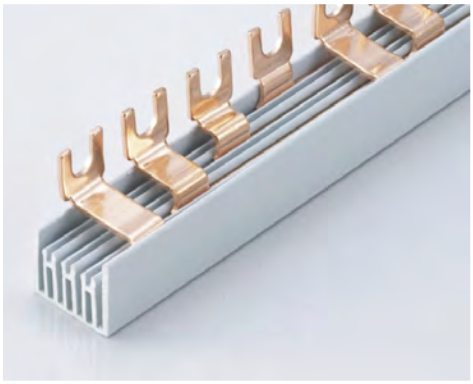
Material: Copper
Features: good conductivity, low contact resistance, safe and reliable performance.



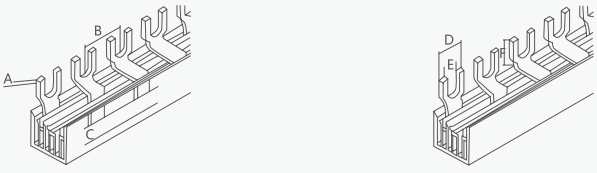
FORK 3P



Specification	Model	A	B	C	D	E	F	Reference current
FORK	3P-63	1.4	17.8	7	12	6	12	63A
FORK	3P-80	1.5	17.8	9	12	6	12	80A
FORK	3P-100	1.8	17.8	9	12	6	12	100A



FORK 3P



Specification	Model	A	B	C	D	E	F	Reference current
FORK	4P-63	1.4	17.8	7	12	6	12	63A
FORK	4P-80	1.5	17.8	9	12	6	12	80A
FORK	4P-100	1.8	17.8	9	12	6	12	100A

RT18L Low Voltage Fuse

A

RT18-32X

RT18-32

General

RT18 Cylindrical contact caps fuse protector is applicable to the distribution equipment with AC 50Hz, rated voltage of 500V and rated current not more than 125A for circuit overoad and short-circuit protection (NT fuse protector is recommended to be used in capacitor box instead of this kind of fuse protector).

Neon light and resistors constitute fusing signal device of fuse link of fuse protector pedestal (symbol "X").

Rt18 fuse link is divided into "gG" and "aM" type; “gG" is ordinary fuse protector with full range of breaking capacity, while "aM" is fuse protector for the protection of motor with partial breaking capacity.

Standard:IEC 60269.

Type designation

RT 18 □ □/□ □

- Rated current of fuse links
- Number of poles (monopolar is not numbered)
- Signal device (symbol “X”)
- Rated current of fuse holder
- Design sequence No.
- Code of fuse

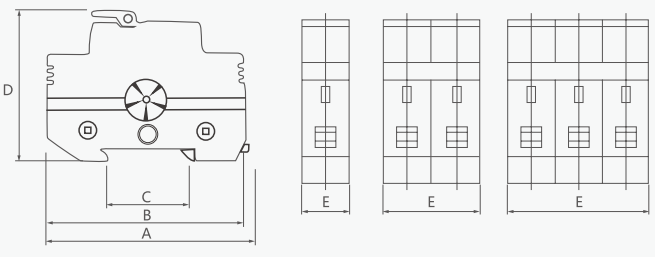
Technical data

Parameters of fuse holder

RT18

Type	Assorted Fuse	Rated voltage(V)	Rated Current(A)	Dimension(mm)				
				A	B	C	D	E
RT18-32(32X) 1P	10x38	380	23	82	78	35	63	18
RT18-32(32X) 2P			32	82	78	35	63	36
RT18-32(32X) 3P			32	82	78	35	63	54
RT18-32(63X) 1P	14x51		63	106	103	35	80	26
RT18-32(63X) 2P			63	106	103	35	80	52
RT18-32(63X) 3P			63	106	103	35	80	78

Overall and mounting dimensions(mm)



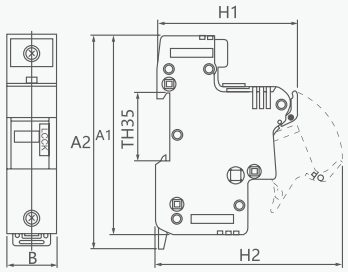
RT18L Low Voltage Fuse

RT18L-125

RT18L

Type	Assorted Fuse	Number of Poles	Rated voltage(V)	Conventional heating current (A)	Dimension(mm)				
					A1	A2	B	H1	H2
RT18L-63	14x51	1,2,3,4	690	63	108	115	27	78	100
RT18L-125	22x58			125	126	134	36	78	104

Overall and mounting dimensions(mm)



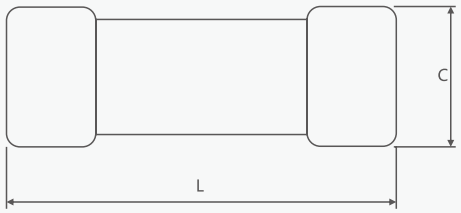
Parameters of fuse links

Fuse Link

Dimension(mm)	Rated curremt (A)	Breaking capacity(kA)	L	ΦC
8.5x31.5	2,4,6,10,16	100	$31.5\pm^{0}_{0.6}$	8.5±0.1
10x38	2,4,6,10,16,20,25 32		31.5±0.6	10.3±0.1
14x51	2,4,6,10,16,20,25,32,40,50,63		$51\pm^{06}_{10}$	14.3±0.1
22x58	10,16,20,25,32,40,50,63,80,100		$58\pm^{10}_{20}$	22.2±0.1
30x58	63,80,100,125		$58\pm^{10}_{20}$	30±0.1

Fuse Link

Overall and mounting dimensions(mm)



YCLP Plug-in Circuit Breaker

General

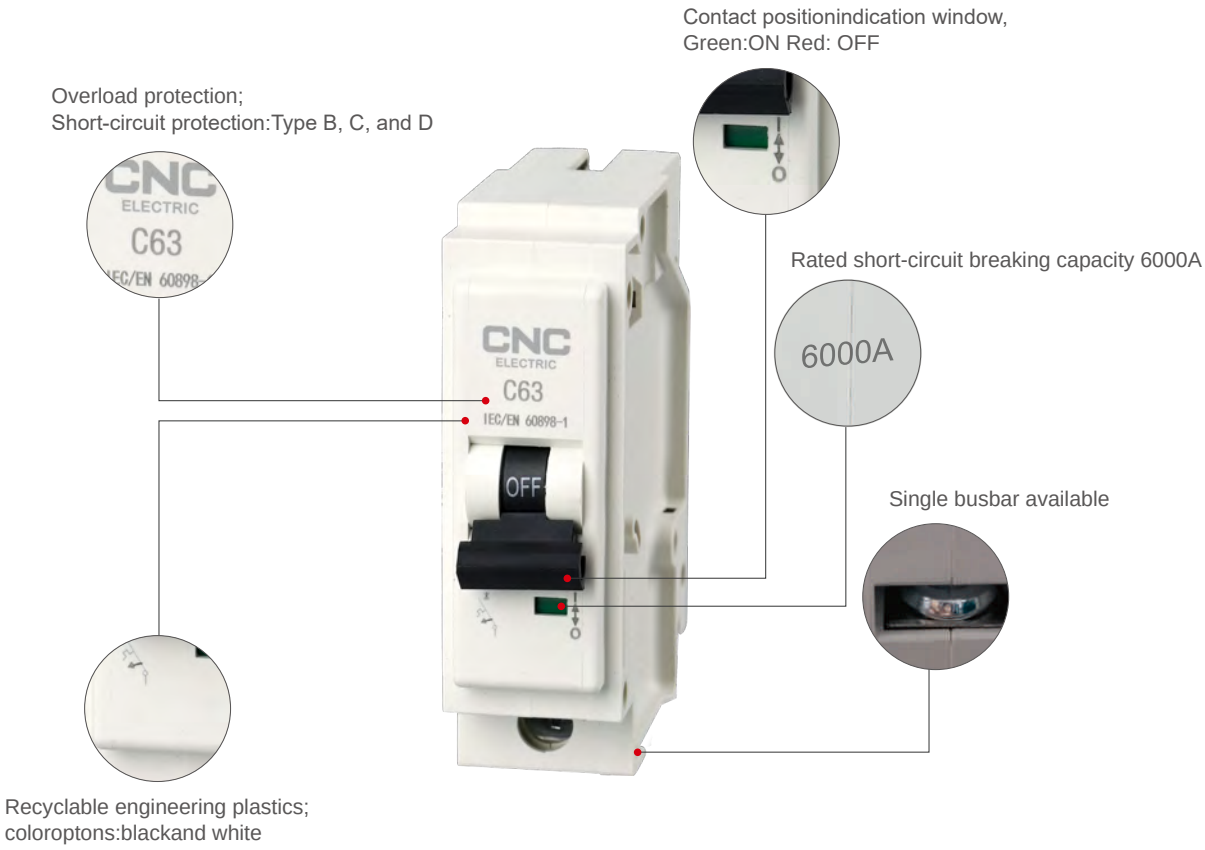
YCLP series circuit breaker is for overload & short circuit protection with isolationfunc-tion,which is used in residential and industrial distribution system.

Standard:IEC60898-1

Technical data

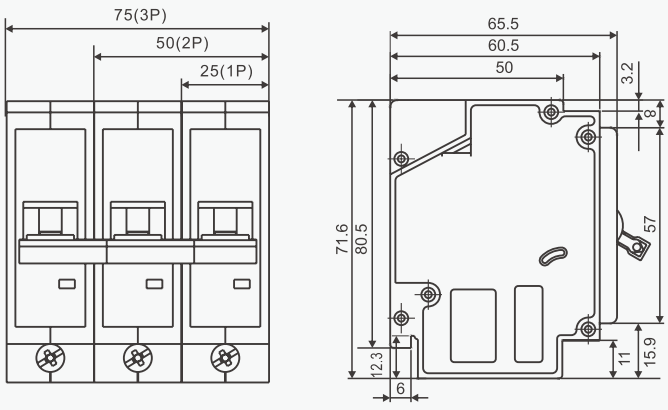
Type		YCLP		
Rated current In (A)		6,10, 15, 20, 25, 30,35, 40, 50, 63		
Poles		1	2	3
Rated insulation voltage Ui (AC V)		400		
Rated impulse-stand voltage Uimp (V)		4000		
Rated working voltage Ue (AC V)		230/400		
Frequency f (Hz)		50/60		
Rated limited short-circuit breaking capacity Icu (KA)	220V	6		
Operation characteristic (Times)	Mechanical life	8500		
	Electrical life	1500		
Installation		plug-in		
The Material of Enclosure		resin		

YCLP Plug-in Circuit Breaker



- Poles:1P,2P 3P
- Rated Voltage: AC 110/230V/400V
- Rated Current:6A,10A,16A,20A,25A,32A,40A,50A,63A
- Standard:IEC60898-1

Overall and mounting dimensions(mm)



YCX4 Box Terminal Network

General

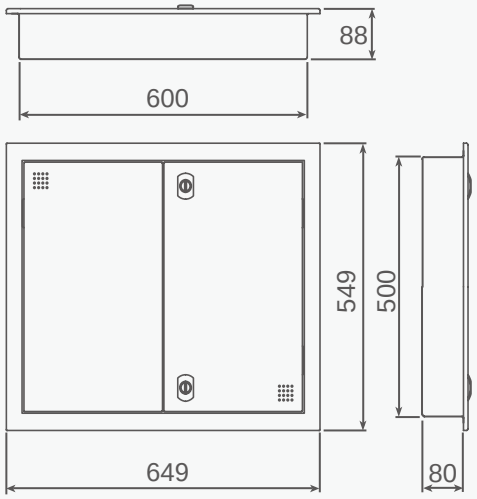
YCX4 series network terminal box, made of metal, small wall thickness, wide coverage, to meet the free choice of cable TV, Internet and telephone services.

Features

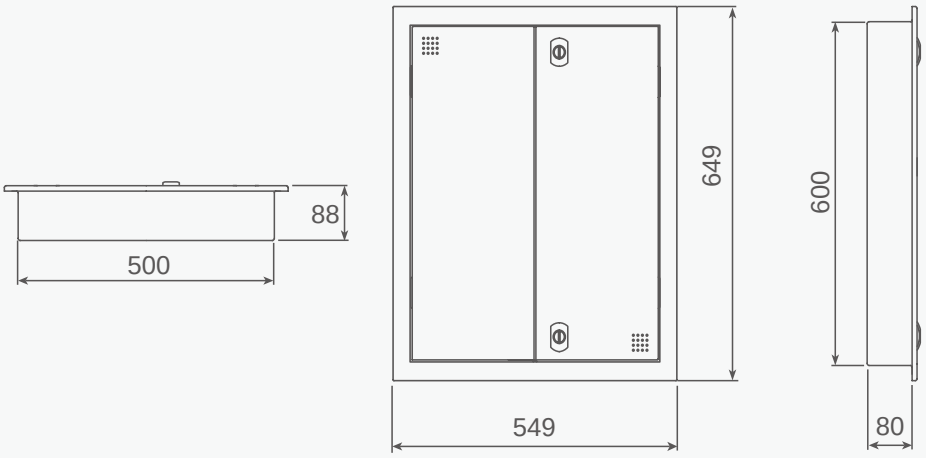
1. The base, cover, door and mounting plate are made of steel plate, color Ral 7032, using micro-texture polyester electrostatic painting process;
2. No partition box wall, input and output have greater versatility;
3. Independent cover and door, easy to install;
4. Detachable door, box through two doors to enter, so that it is easier to open in a narrow place;
5. With a punched door, for the installed parts of the heat dissipation;
6. The lock is made of 960°C flame retardant plastic;
7. The bolt fixing the mounting plate is at the bottom of the shell, easy to disassemble, so that the installation of the component is simpler;
8. Chassis, cover, door and mounting plate grounding, equipped with M6 bolts, bolts include: two galvanized nuts and screws.

YCX4 Box Terminal Network

Overall and mounting dimensions(mm)



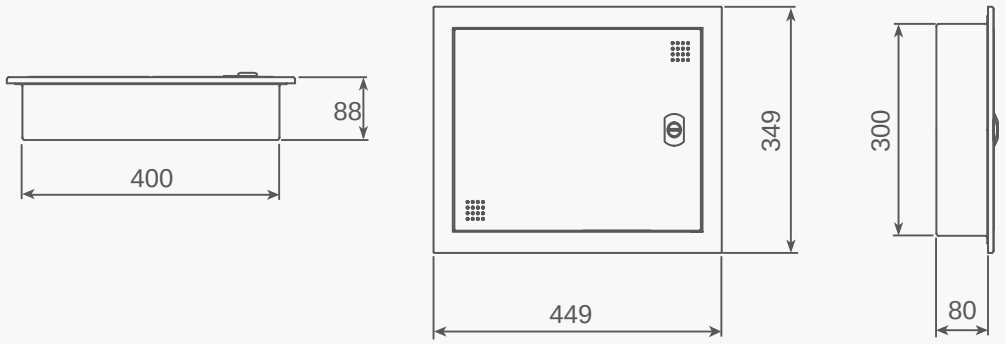
YCX4-01



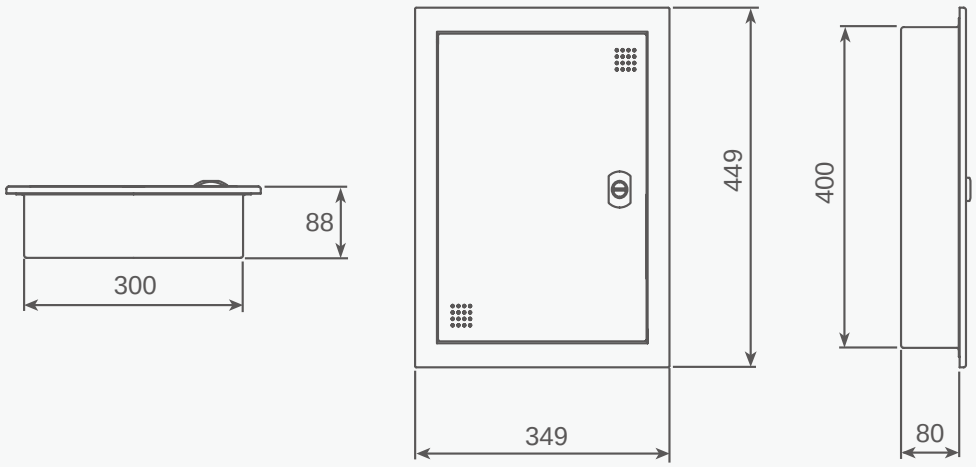
YCX4-02

YCX4 Box Terminal Network

A



YCX4-03



YCX4-04

Model	Network box size Height × width × depth(mm)	Mounting dimension Height × width(mm)	Weight (kg)
YCX4-01	500 x 600 x 80	440 x 540	12.3
YCX4-02	600 x 500 x 80	540 x 440	12.3
YCX4-03	300 x 400 x 80	268 x 358	5.2
YCX4-04	400 x 300 x 80	358 x 268	5.2