Final Distribution

YCB6 series



Page A02

YCB6-63
Miniature Circuit Breaker



Page A07

YCB6H-63
Miniature Circuit Breaker

YCB7 series



Page A10

YCB7-63N
Miniature Circuit Breaker



Page A16

YCB7-125N
Miniature Circuit Breaker



Page A19

YCB7LE-63Y
Residual Current Circuit Breaker with Over Current Protection



Page A21

YCB7NLE-63
Residual Current Circuit Breaker with Over Current Protection



Page A26

YCB7NLE-125
Residual Current Circuit Breaker with Over Current Protection



Page A29

YCB7RL-63
RCCB Electromagnetic



Page A31

YCB7RL-100
RCCB Electromagnetic



Page A33

YCH7-125N
Miniature Circuit Breaker



Page A35

YCD7
Residual Current Circuit Breaker with Over Current Protection

YCB3 series



Page A38

YCB3-63
Miniature Circuit Breaker



Page A41

YCB3RL-63
RCCB Electromagnetic



Page A43

YCB3Z-40
Miniature Changeover Switch

Final Distribution

YCB9 series



Page A47

YCB9N-40

Miniature Circuit Breaker DPN



Page A49

YCB9-63

Miniature Circuit Breaker



Page A51

YCB9-63R

Miniature Circuit Breaker



Page A55

YCB9-80M/H

Miniature Circuit Breaker



Page A58

YCB9-125

Miniature Circuit Breaker



Page A60

YCB9NL-40

Residual Current Circuit Breaker with Over Current Protection



Page A62

YCB9NL-40LS

Residual Current Circuit Breaker with Over Current Protection



Page A65

YCB9L-40

Residual Current Circuit Breaker with Over Current Protection



Page A68

YCB9HL-63

Residual Current Circuit Breaker with Over Current Protection



Page A71

YCB9LE-80M/H

Residual Current Circuit Breaker with Over Current Protection



Page A73

YCB9RL-100

RCCB Electromagnetic



Page A76

YCB9RL-63B

RCCB Electromagnetic



Page A78

YCH9s-125

Isolating Switch



Page A80

YCB9VS-63

Surge and Overvoltage Protective Device



Page A84

YCB9VS-80

Surge and Overvolt-age Protective Device

Arc Fault Detection Device



Page A87

AFDD9LE-63Y

Arc Fault Detection Device(AFDD+RCBO)



Page A90

AFDD

Arc Fault Detection Devices



Page A96

AFDD9LY-63

Arc Fault Detection Devices

Final Distribution

Smart circuit breaker



Page A99

YCB9ZF-100AP (4G/WIFI)

LCD



Page A99

YCB9ZF-100APE (4G/WIFI)

LCD



Page A107

YCB9ZF-100W WIFI



Page A111

YCB9ZF-80AP



Page A111

YCB9LZF-80AP



Page A117

YCB9NZF-40AP



Page A123

YC53

Reconexión automática



Page A126

YCSi

Changeover switch



Page A128

YCBZN-40



Page A129

YCBZ-63



Page A130

YCBZ-125

Indicator



Page A131

ADM



Page A132

YCD9

Voltage meter



Page A133

YCM

Overvoltage and undervoltage protector



Page A137

YC7VAN

Overvoltage and Under-voltage Protector



Page A142

YC7VAs

Voltage and Current Protector



Page A145

YC7VAs-kWh

Voltage and Current Protector



Page A150

YC7VAs-WIFI-kWh

Voltage and Current Protector



Page A155

YC9VA

Voltage protector with current control



Page A158

YC9VA-3

Voltage protector with current control

Modular socket



Page A161

TMS-5

Surge protection device



Page A162

YCS7N

Modular contactor



Page A166

YCCH6

Automatic type



Page A166

YCCH7

Manual automatic integration

Smart switch controller



Page A169

YCWF-Y02 WIFI

Final Distribution

Consumer box



Page A173

YCX1-ST

Surface Mount Distribution Box (IP40)



Page A174

YCX2-FT

Flush Mount Distribution Box (IP40)



Page A175

YCX3

Surface Mount Distribution Box (IP40)



Page A176

YCX5

Household Electrical Distribution Box



Page A177

YCX6

Lighting Distribution Box (IP40)



Page A178

HA

Water Proof Distribution Box (IP65)



Page A179

HT

Waterproof Distribution Box (IP65)



Page A180

YCMET-R

British Distribution Box



Page A181

SH-Q3

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



Page A182

YCS1

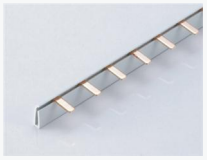
Enclosure (IP65)



Page A185

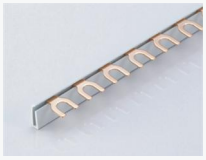
Electronic Phase Switch

Busbar



Page A186

Busbar Pin



Page A186

Busbar Fork

Low voltage fuse



Page A189

RT18



Page A189

RT18L

Plug-in circuit breaker



Page A191

YCLP

Multimedia distribution box



Page A193

YCX4

THQ



Page A196

THQ

YCB6 Series



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

CNC
ELECTRIC

YCB6-63 MCB



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

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. Freq. 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

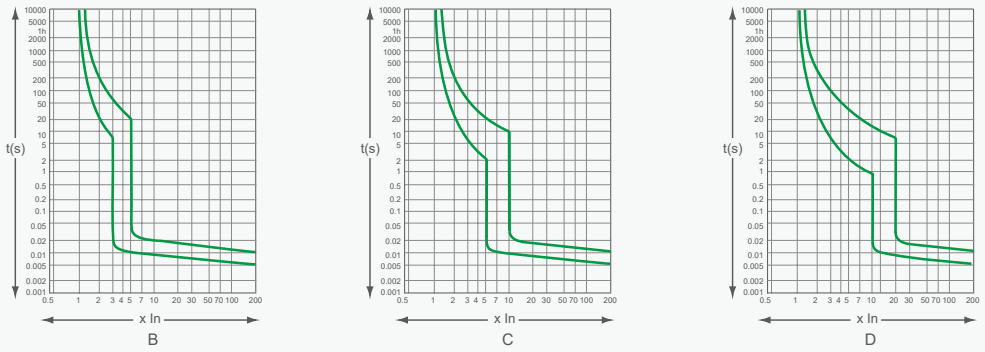
Selection

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	2.55In	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	

YCB6-63 MCB

Curve



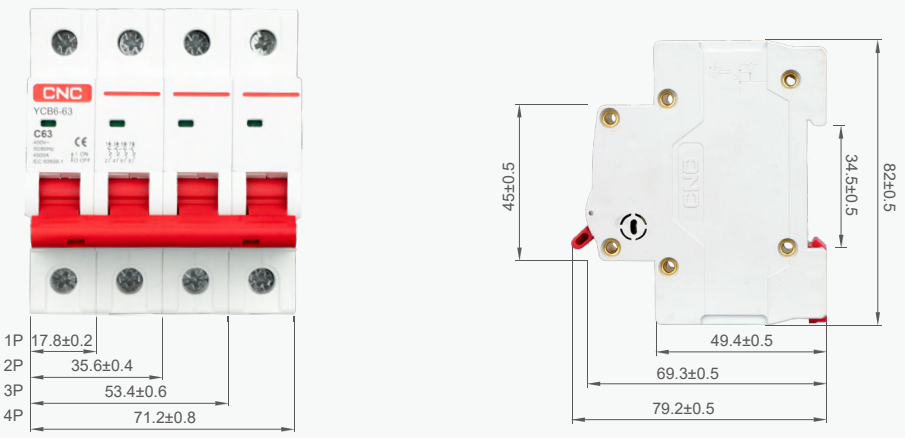
Temperature drop correction table

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)



Final Distribution

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

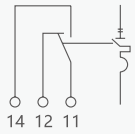
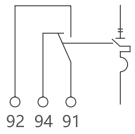
Operating Conditions

- 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.

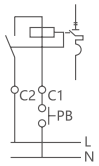
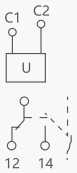
YCB6-63 MCB

Technical data

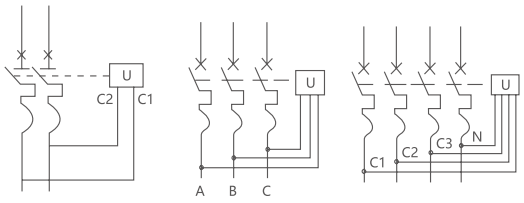
Auxiliary contact and Alarm contact technical parameters

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	

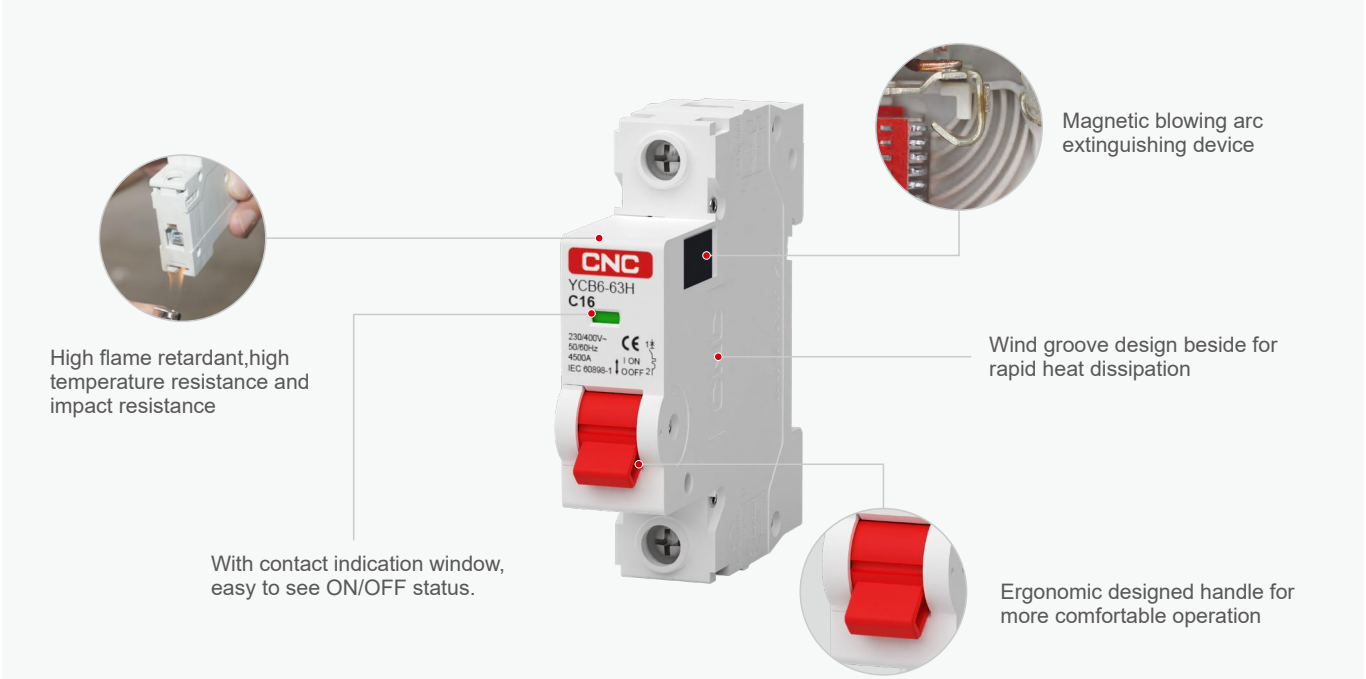
Shunt release, Shunt release + Auxiliary contact technical parameters

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%	

YCB6H-63 MCB



General

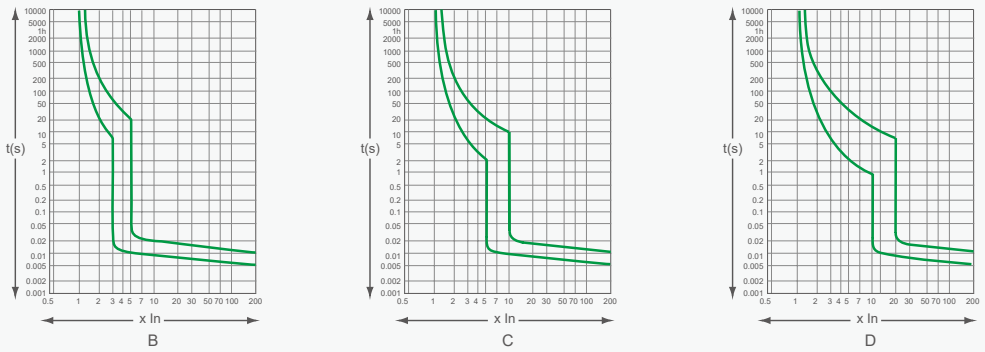
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure.
5. According to the type of instantaneous release classified as follows: type B(3-5)In, type C(5-10)In, type D(10-20)In

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	2.55In	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



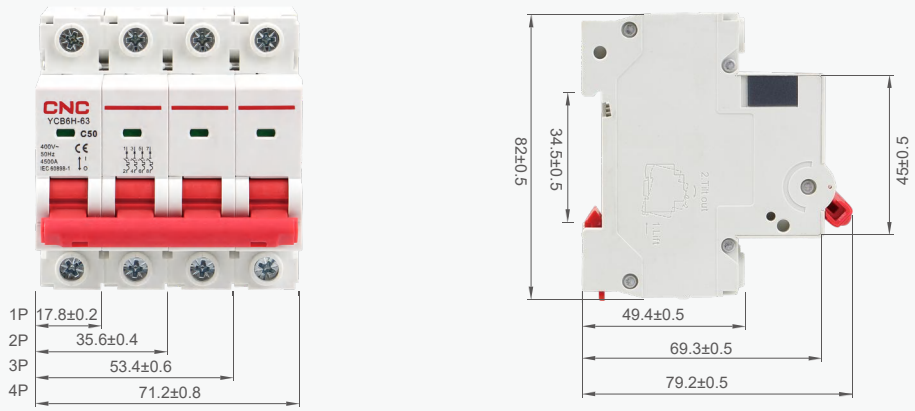
Final Distribution

YCB6H-63 MCB

Technical data

Type	Standard		IEC/EN 60898-1
Electrical features	Rated current In	A	1, 2, 3, 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
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Dielectric test voltage at ind. Freq. 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	mm²	25
		AWG	18-3
	Terminal size top / bottom for busbar	mm²	25
		AWG	18-3
	Tightening torque	N*m	2
		In-lbs	18
	Connection		On DIN rail EN 60715(35mm)by means of fast clip device
	Mounting		From top and bottom

Overall and mounting dimensions(mm)



YCB7 Series

- Industrial aesthetic designe
- Higher performance



CNC
ELECTRIC

YCB7-63N MCB



General

The YCB7-63N series miniature circuit breakers are suitable for overcurrent protection of building lines, facilities, and similar applications in AC circuits with a frequency of 50/60 Hz, a rated voltage of 230/400 V, and a rated current of up to 63 A. They provide isolation, overload, and short-circuit protection functions, and can also be used for infrequent operation and switching of circuits under normal conditions. The circuit breakers are suitable for various applications, including industrial, commercial, high-rise building, and residential applications.
Standard: IEC/EN 60898-1

Type designation

Model		Shell grade current	Breaking capacity	Poles	Tripping characteristics	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 assembled with accessories(YCB7-63N OF/SD/OF+SD/MX/MVMN/MX +OF, etc)

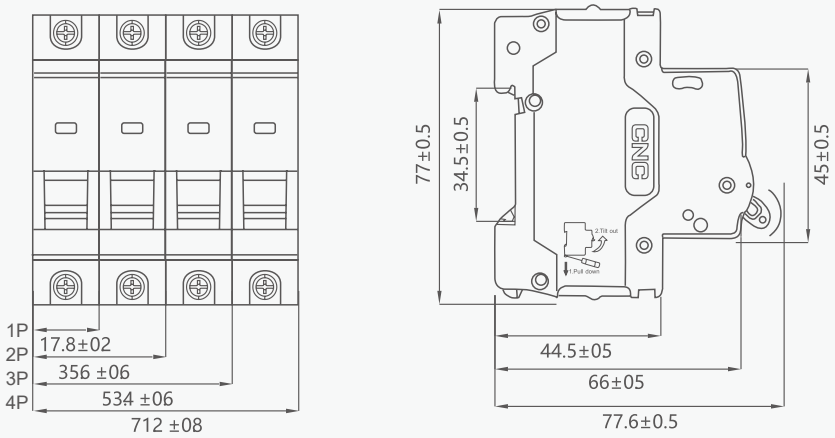
YCB7-63N MCB

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)

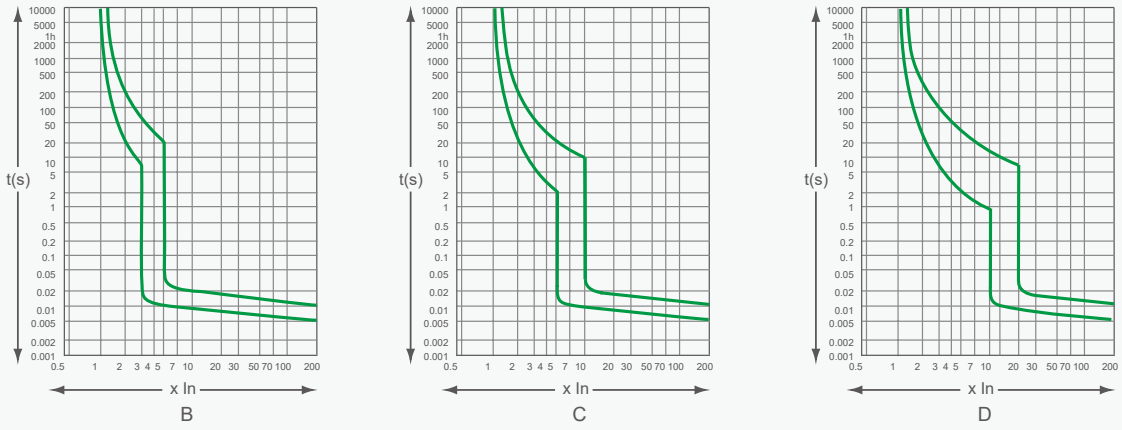


Selection

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	2.55In	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



A

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

Final Distribution

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 auxiliary signal, opening and closing status indication, and even alarm signal function for better protection on the circuit, personal and property safety.

Standard:IEC 60947-5-1

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 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: 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

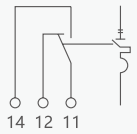
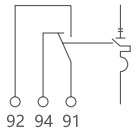
Operating Conditions

- 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.

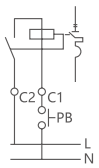
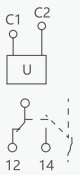
YCB7 Series MCB Accessories

Technical data

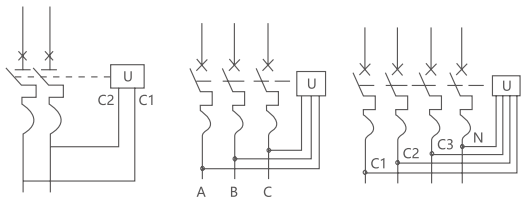
Auxiliary contact and Alarm contact technical parameters

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

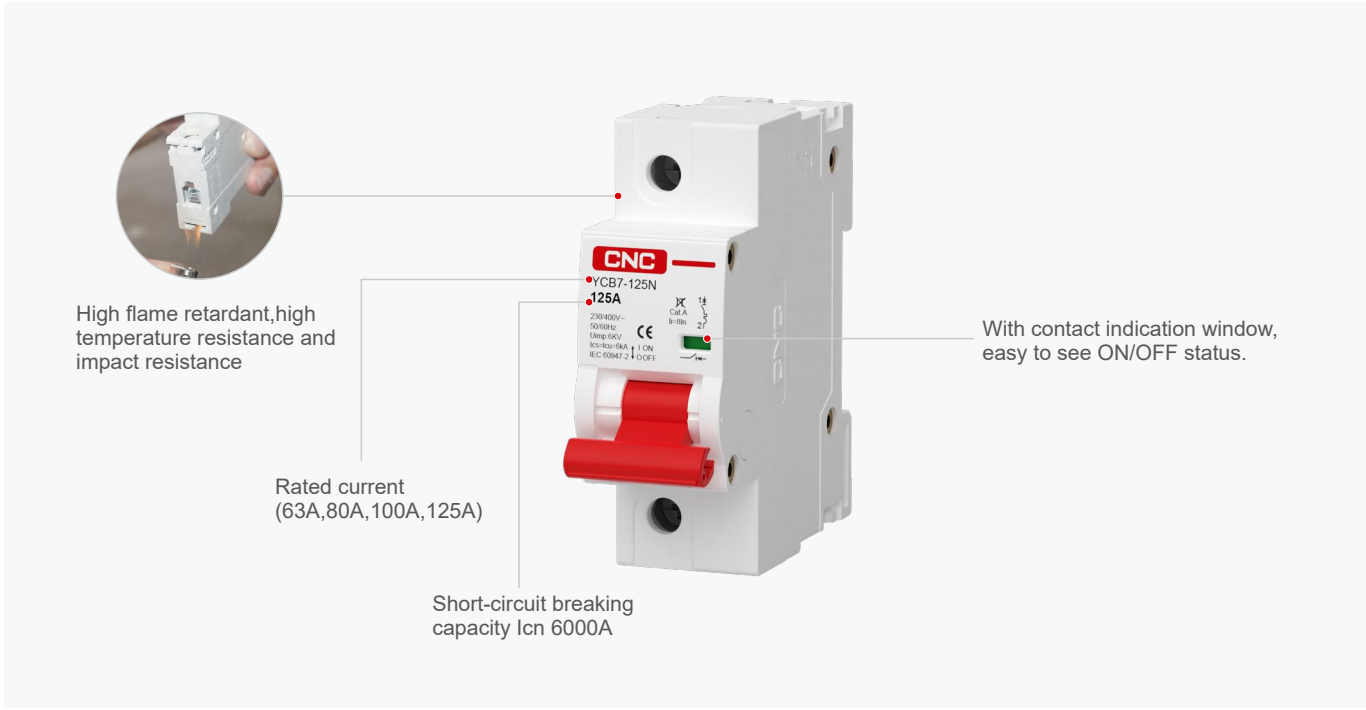
Accessory name	Rated insulation voltage Ui	Rated control voltage Us	Tripping power consumption (W or VA)	Operation voltage Us	Diagram
Shunt release X	415V	AC/DC: 220~380V 110~220V AC/DC: 24~48V	240 120	0.7~1.1	
Shunt release +Auxiliary contact MX+OF	415V	AC/DC: 220~380V 110~220V AC/DC: 24~48V	240 120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

Final Distribution

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.

Final Distribution

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

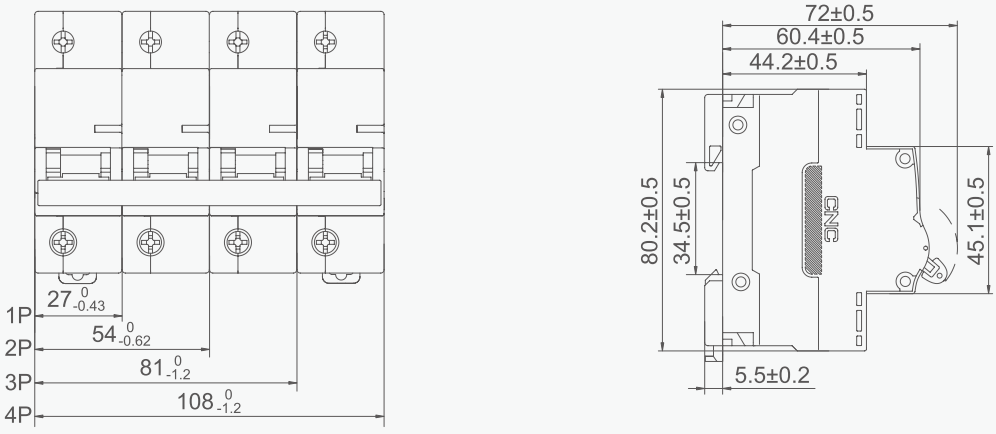
Type	Test current	Tripping time	Expected result
C,D	1.05In	t ≤1h(In≤63A), t ≤2h(In>63A)	Not tripping
C,D	1.3In	t ≤1h(In≤63A), t ≤2h(In>63A)	Tripping
C,D	2.55In	1s< t <60s	Tripping
C	8Inx80%	t ≤ 0.2s	Not tripping
D	12Inx80%	t ≤ 0.2s	Not tripping
C	8Inx120%	t < 0.2s	Tripping
D	12Inx120%	t < 0.2s	Tripping

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. Freq. 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

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.

Final Distribution

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

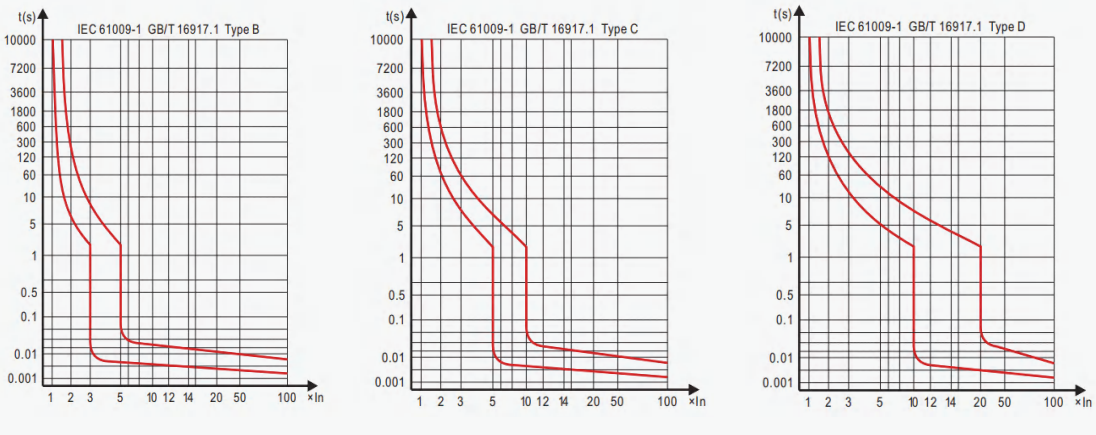
Type designation

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



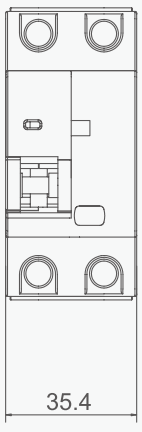
Final Distribution

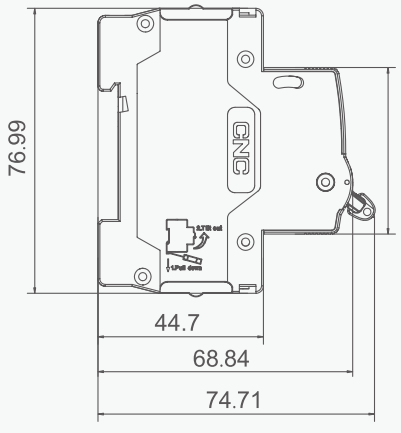
YCB7LE-63Y RCBO Electronic

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.Freq.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)





YCB7NLE-63 RCBO Eletronic



General

YCB7NLE-63 series RCBO is suitable for AC 50/60Hz, rated voltage up to 400V, rated current up to 63A circuits. It is used for leakage and overload protection for similar purposes to prevent fire or casualties caused by line leakage or electric shock.

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, type D(10-20)In.

Type designation

YC B7 NLE - 63 1P+N 63A 100mA

- 100mA
- 220V
- 1P+N
- 63
- Electronic residual current68
- B7
- YC

Operating conditions

1. Ambient temperature: -5°C~+40°C
2. Relative humidity: ≤50% at 40°C; ≤90% at 25°C
3. Altitude: ≤2000m
4. Environmental conditions: no harmful gases and vapors, no conductive or explosive dust, no severe mechanical vibration

Final Distribution

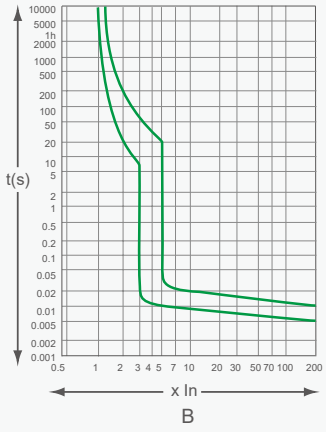
YCB7NLE-63 RCBO Eletronic

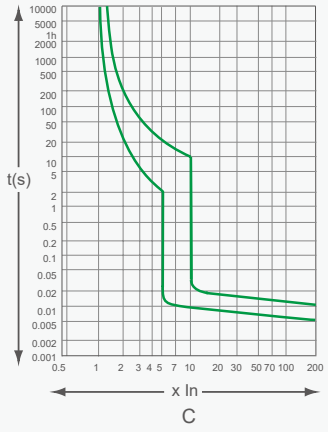
Release

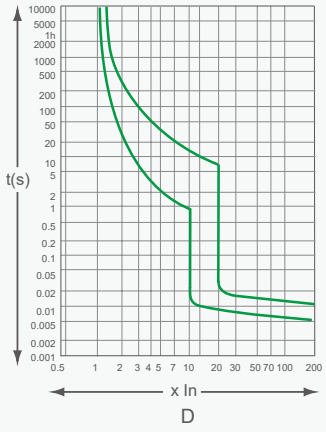
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.55In	1s< t <60s(In≤32A)	Tripping
	2.55In	1s< t <120s(In>32A)	

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







Final Distribution

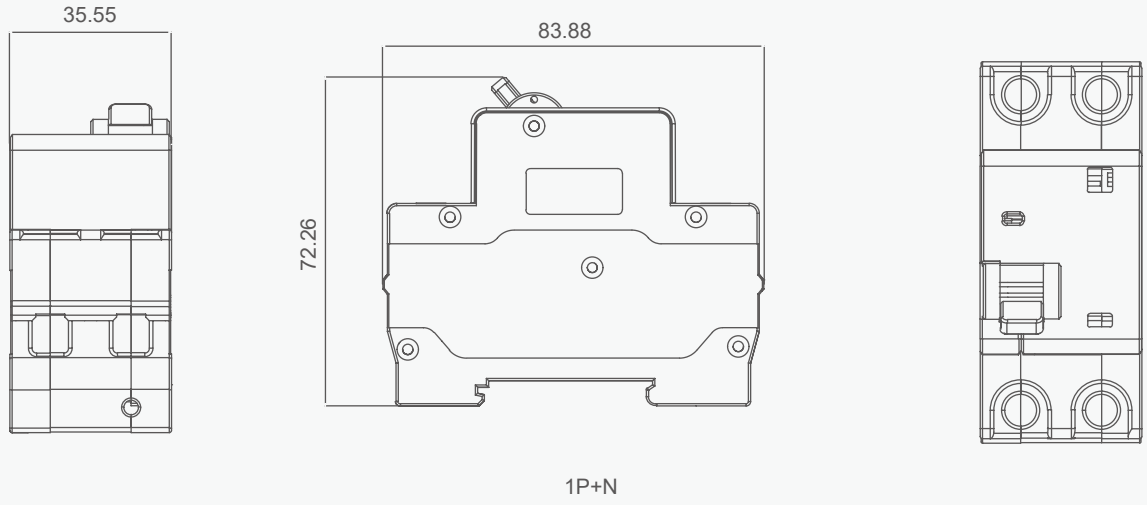
YCB7NLE-63 RCBO Eletronic

Technical data

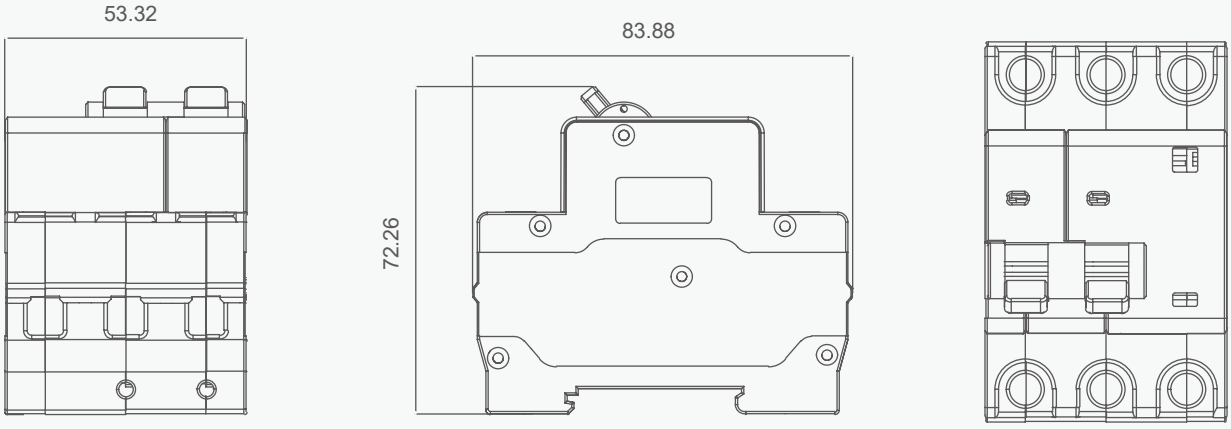
Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	1P+N, 2P, 3P, 3P+N, 4P
	Type(wave form of the earth leakage sensed)		AC
	Thermomagnetic release characteristic		B, C, D
	Rated current In	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Rated voltage Ue	V	230V AC(1P+N,2P)400V AC(3P 3P+N, 4P)
	Rated sensitivity 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.Freq.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

YCB7NLE-63 RCBO Eletronic

Overall and mounting dimensions(mm)

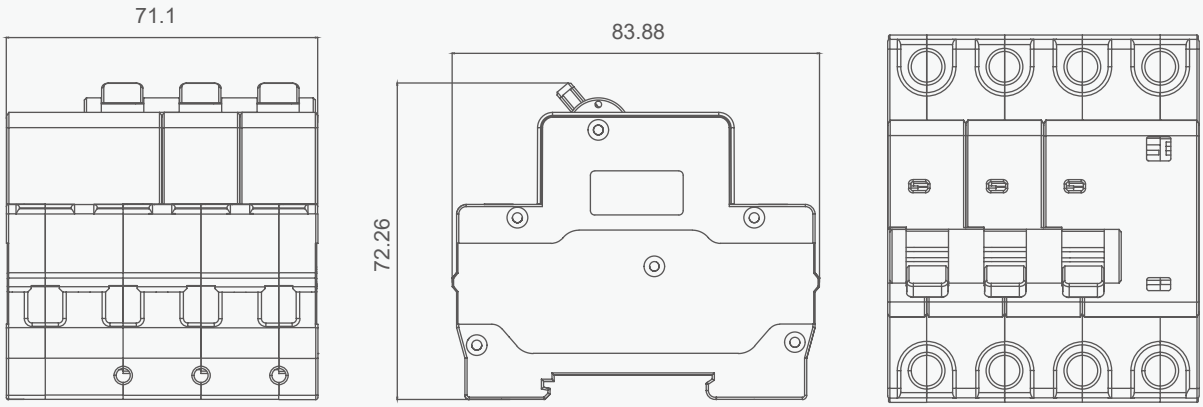


1P+N

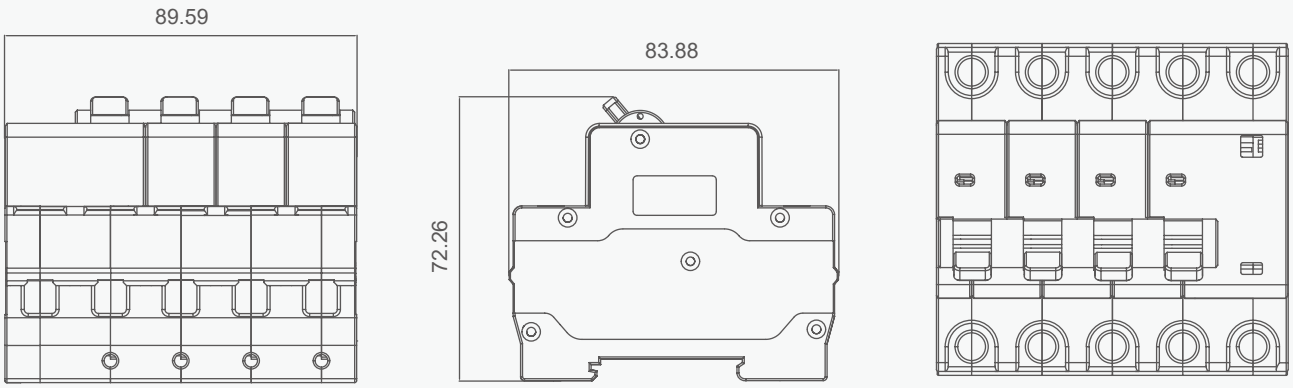


2P

YCB7NLE-63 RCBO Eletronic



3P, 3P+N



4P

Final Distribution

YCB7NLE-125 RCBO Electronic



High flame retardant,high temperature resistance and impact resistance



Test button should be pressed at least once per month

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

Leakage tripping indication (pop-up indicates leakage tripping)

Short-circuit breaking capacity Icn 6000A

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

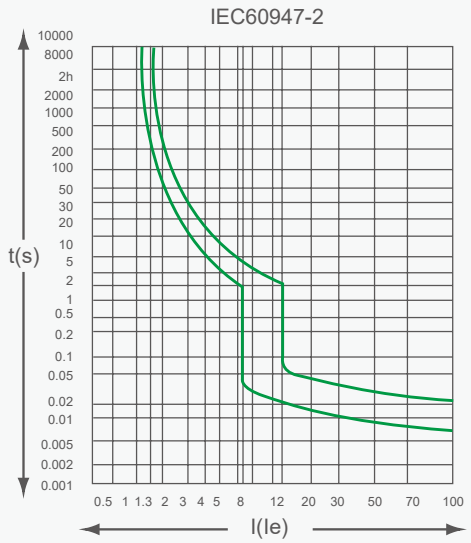
Release

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

Final Distribution

YCB7NLE-125 RCBO Electronic

Curve

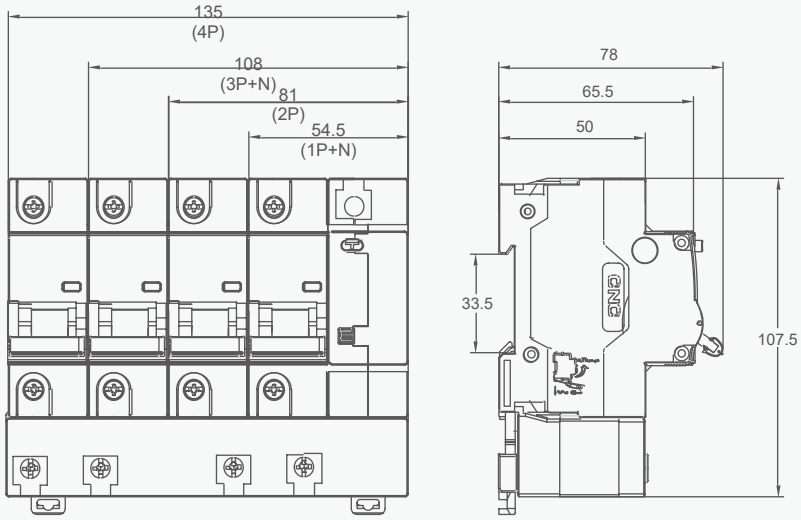


Technical data

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, 125
	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

YCB7NLE-125 RCBO Electronic

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-63 RCCB Electromagnetic



General

YCB7RL-63 series electromagnetic residual current operated circuit breaker is mainly suitable for AC distribution networks with a rated working voltage of 230V or 400V at 50/60Hz 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	-	63	1P+N	63	100mA	A Type
RCCB Electromagnetic		63	1P+N 3P+N	6 10 16 20 25 32 40 50 63	Default: 10mA 30mA 100mA 300mA	Default: AC Type A Type

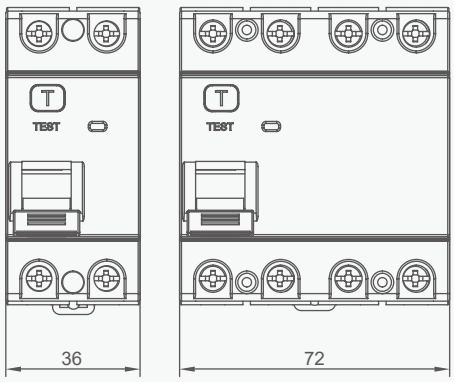
Note: This product cannot be assembled with attachments

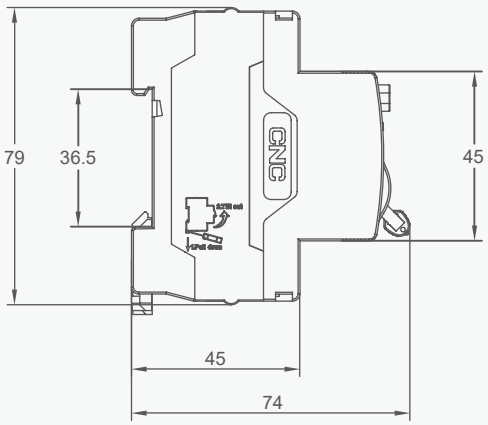
YCB7RL-63 RCCB Electromagnetic

Technical data

Type	Standard		IEC/EN 60898-1
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, 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
	Rated impulse withstand voltage(1.2/50)Uimp	V	6000
	Dielectric test voltage at ind.Freq.for 1min	Kv	2.5
Mechanical features	Rated sensitivity IΔn	A	0.01, 0.03, 0.1, 0.3
	Rated residual making and breaking capacity IΔm	A	500(In≤40A);630(In=50A/63A)
	Pollution degree		2
	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
Installation	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)





YCB7RL-100 RCCB 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

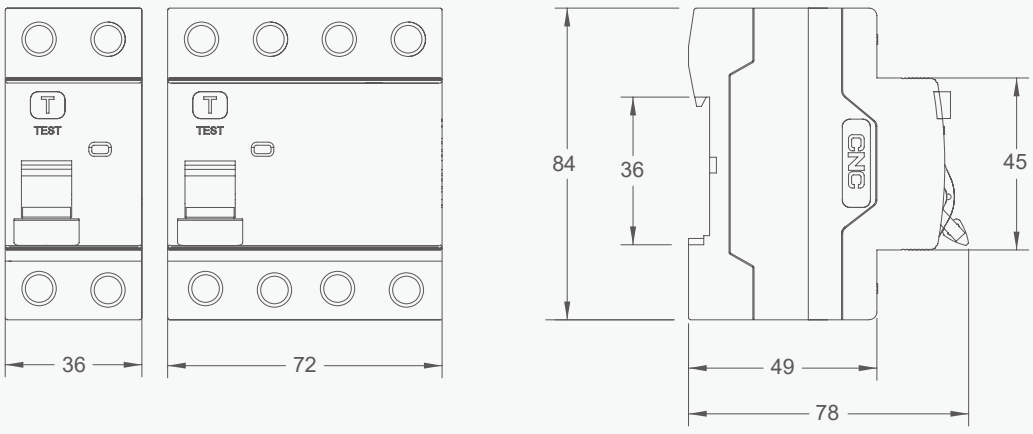
Final Distribution

YCB7RL-100 RCCB Electromagnetic

Technical data

Type	Standard		
Electrical features	Leakage type		Electromagnetic type
	Rated current In	A	6, 10, 16, 20, 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
	Rated impulse withstand voltage(1.2/50)Uimp	V	6000
	Dielectric test voltage at ind.Freq.for 1min	Kv	2.5
	Rated sensitivity IΔn	A	0.01, 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
Installation	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 for use in resistive circuits of AC 50/60Hz, rated voltage 230/400V, and rated current up to 125A. It is primarily used for switching the circuit on or off in non-load situations. It functions to connect and isolate lines from the power source, especially suitable for effectively isolating power and preventing the circuit breaker from closing accidentally during maintenance, thereby ensuring the safe operation of personnel.
Standard: IEC 60947-3

Feature

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

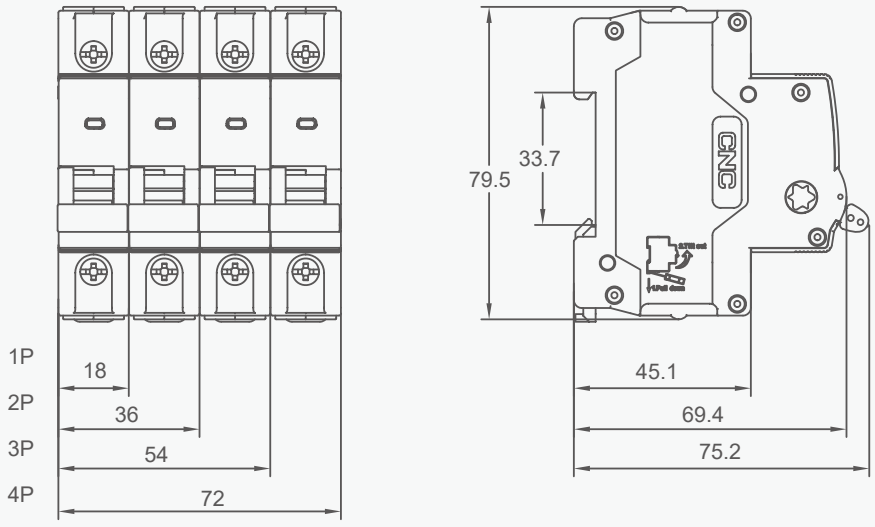
Final Distribution

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.Freq.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

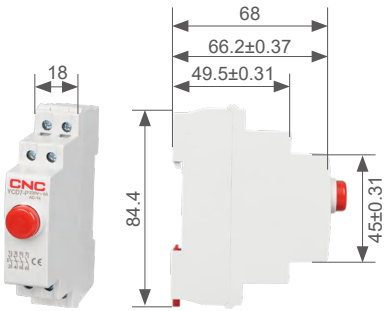
YCD7 Series Signal Display Control Rail Module is a versatile module that includes indicators, buttons, illuminated buttons, and buzzer with light functions. It is suitable for circuit control systems operating at AC/DC voltages up to 230V and a frequency of 50/60Hz. This module is designed to provide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

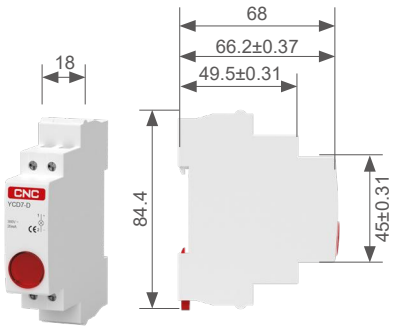
Parameter	Data
Rated working voltage	230V
Rated working current	6A
Agreed heating current	16A
Mechanical life	250000
Electrical life	100000
Contact combination mode	2NO2NC,4NO,3NO1NC
Connecting wire	≤6mm²
Tightening torque	0.8N.m
Use-category	AC-14
Protection grade	IP20
Operation temperature	-5°C~+40°C;(with 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

YCB3 Series



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

CNC
ELECTRIC

YCB3-63 MCB



General

The YCB3-63 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 63A 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,IEC/EN 60947-2

Type designation

Model		Frame size rated current	Number of poles	Tripping characteristics	Rated current
YCB3	-	63	1P	C	16
Miniature Circuit breaker		63	1P 2P 3P 4P	B C D	1 2 4 6 10 16 20 25 32 40 50 63

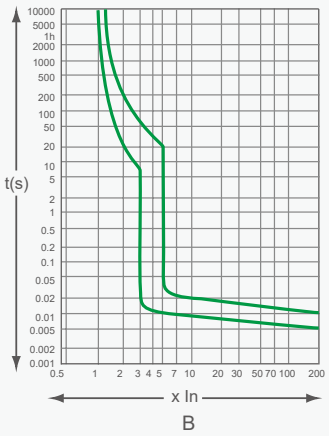
YCB3-63 MCB

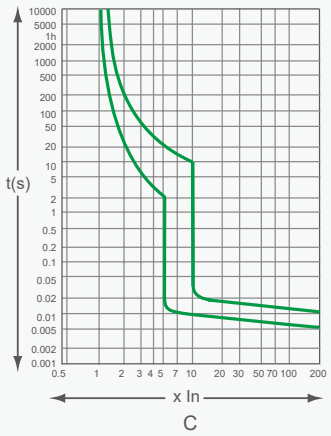
Selection

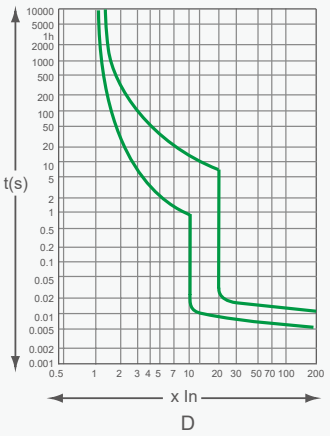
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.55In	1s< t <60s(In≤32A)	Tripping
	2.55In	1s< t <120s(In>32A)	

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





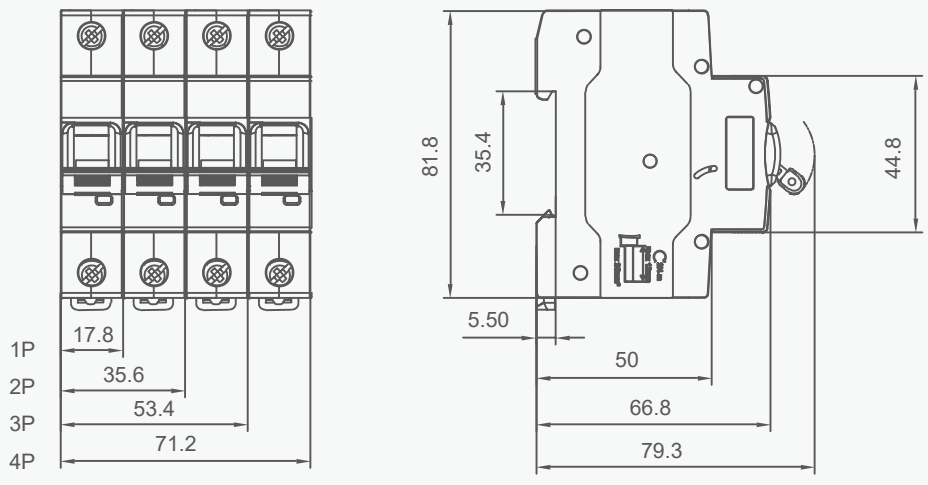


YCB3-63 MCB

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	6000
	Rated impulse withstand voltage(1.2/50)Uimp	V	6000
	Dielectric test voltage at ind. Freq. 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)



YCB3RL-63 RCCB Electromagnetic



General

YCB3RL-63 series electromagnetic residual current operated circuit breaker is mainly suitable for AC distribution networks with a rated working voltage of 230V or 400V at 50/60Hz 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
YCB3RL	-	63	1P+N	63	30mA	A Type
RCCB Electro-magnetic		63	1P+N 3P+N	6 10 16 20 25 32 40 50 63	Default: 10mA 30mA 100mA 300mA	Default: AC Type A Type

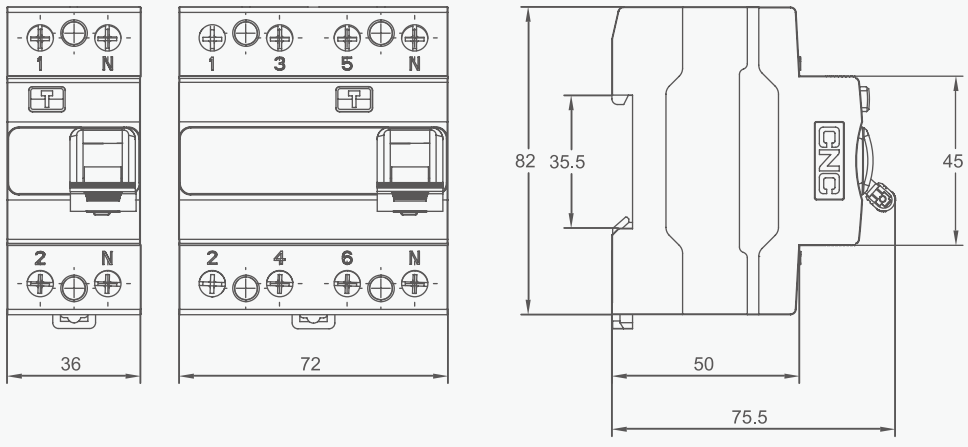
Note: This product cannot be assembled with attachments

YCB3RL-63 RCCB Electromagnetic

Technical data

Type	Standard		
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, 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
	Rated impulse withstand voltage(1.2/50)Uimp	V	6000
	Dielectric test voltage at ind.Freq.for 1min	Kv	2.5
	Rated sensitivity IΔn	A	0.01, 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)



YCB3Z-40 Changeover switch



General

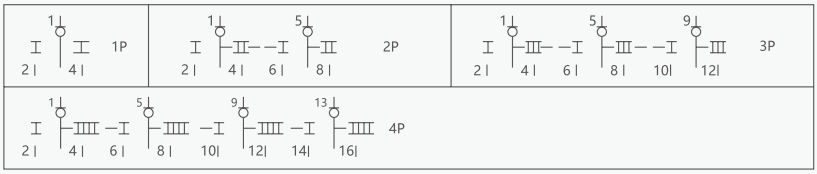
The Changeover Switch can switch on, load and break the circuit under normal conditions,using as Switch Disconnectors.

Standard: IEC 60947-3

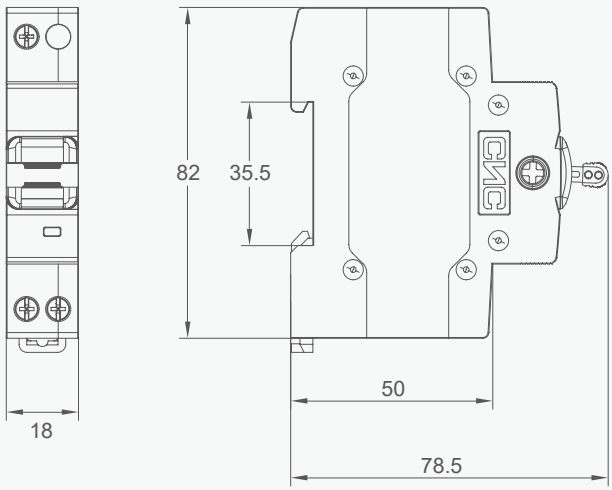
Technical data

Frame	Maximum wiring
Rated Voltage	240/415V~
Rated Current	16,25,32,40A
Rated Frequencyy	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.

General



Overall and mounting dimensions(mm)



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 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

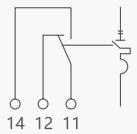
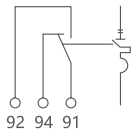
Operating Conditions

- 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.

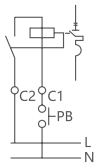
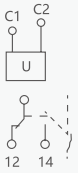
YCB9 Series MCB Accessories

Technical data

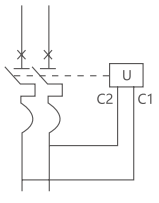
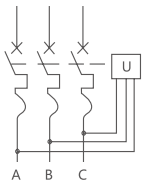
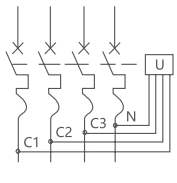
Auxiliary contact and Alarm contact technical parameters

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

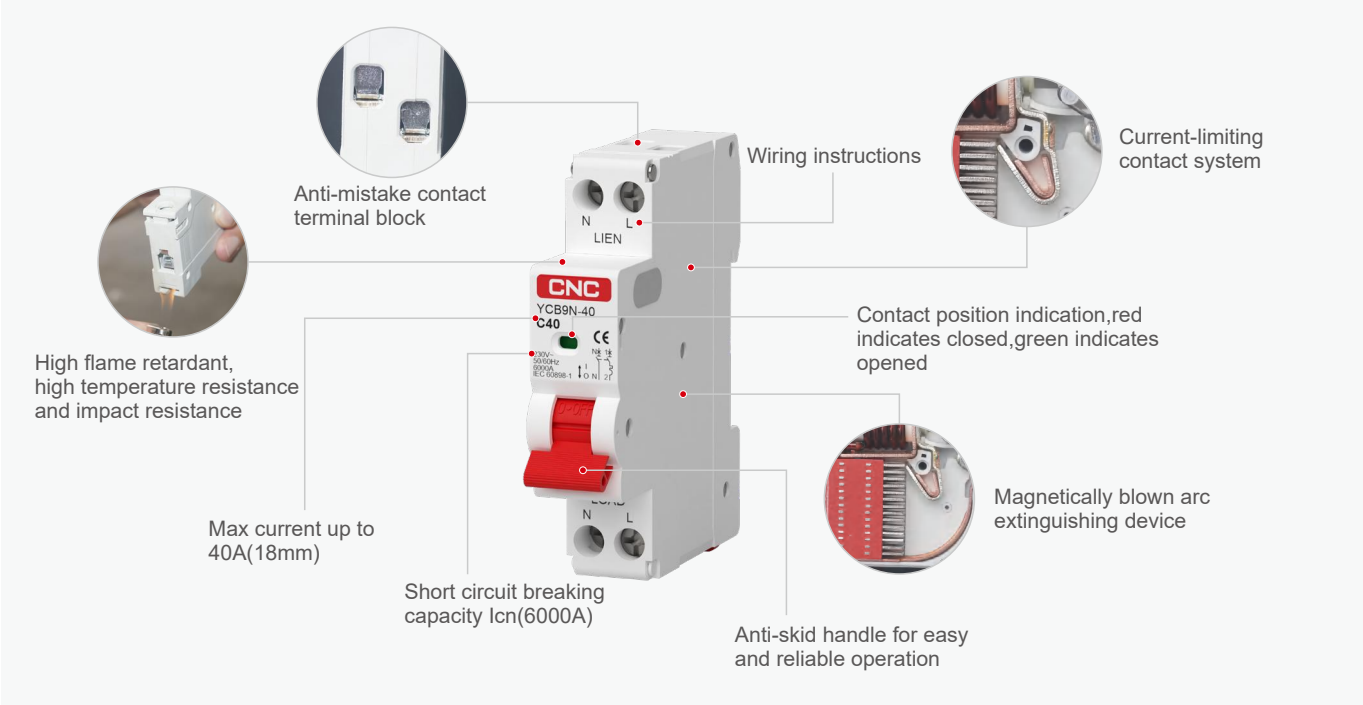
Accessory name	Rated insulation voltage Ui	Rated control voltage Us	Tripping power consumption (W or VA)	Operation voltage Us	Diagram
Shunt release MX	415V	AC/DC:220~380V 110~220V	240	0.7~1.1	
		AC/DC:24~48V	120		
Shunt release + Axiliary contact MX+OF	415V	AC/DC:220~380V 110~220V	240	0.7~1.1	
		AC/DC:24~48V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

Final Distribution

YCB9N-40 MCB DPN



General

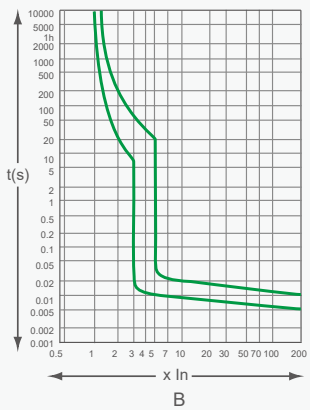
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure
5. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In

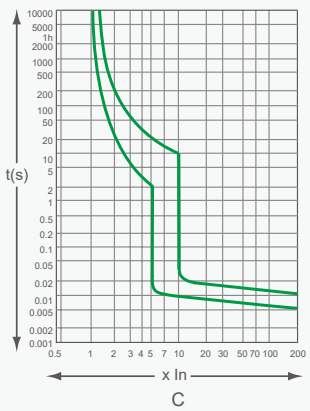
Selection

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	2.55In	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





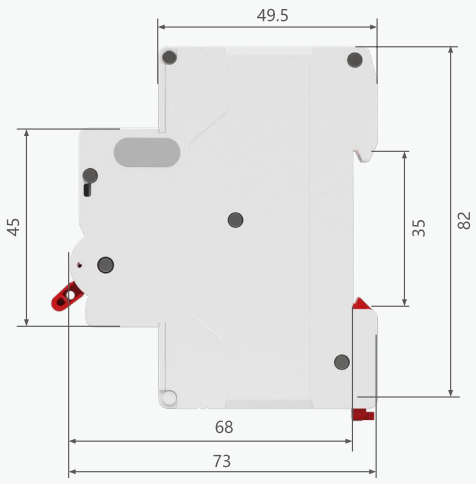
YCB9N-40 MCB DPN

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. Freq. 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)





Final Distribution

YCB9-63 MCB



High flame retardant,high temperature resistance and impact resistance



Non-slip design, increase user's good feel of operation

Contact indication window, easy to see ON/OFF status





Magnetic blowing arc extinguishing device

Wind groove design on the side for quickly heat spill out



Ergonomic designed handle for more comfortable operation

General

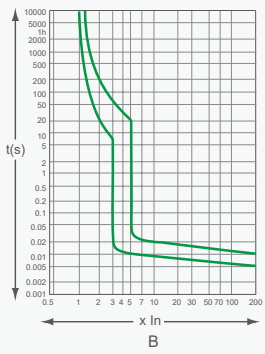
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure
5. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In, type D(10-20)In

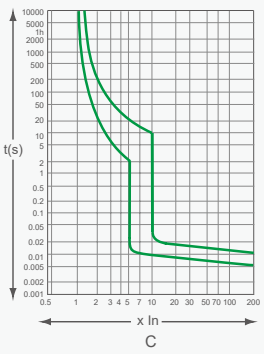
Selection

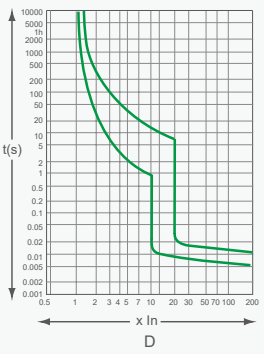
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.55In	1s< t <60s(In≤32A)	Tripping
	2.55In	1s< t <120s(In>32A)	

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





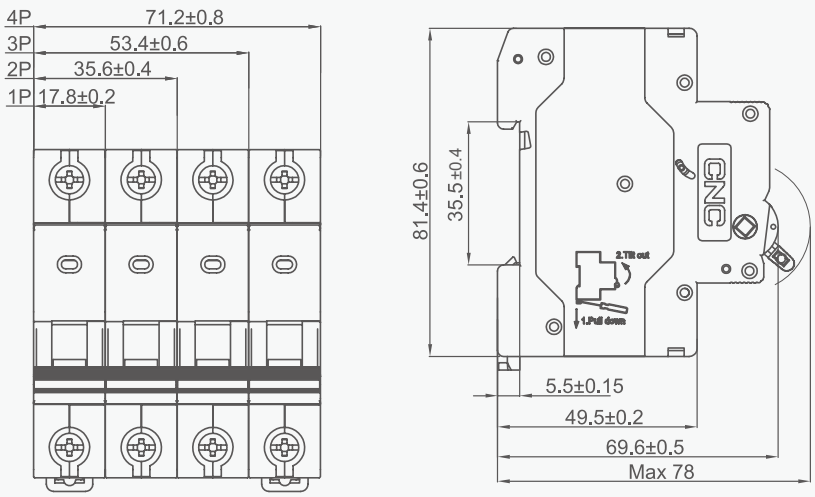


YCB9-63 MCB

Technical data

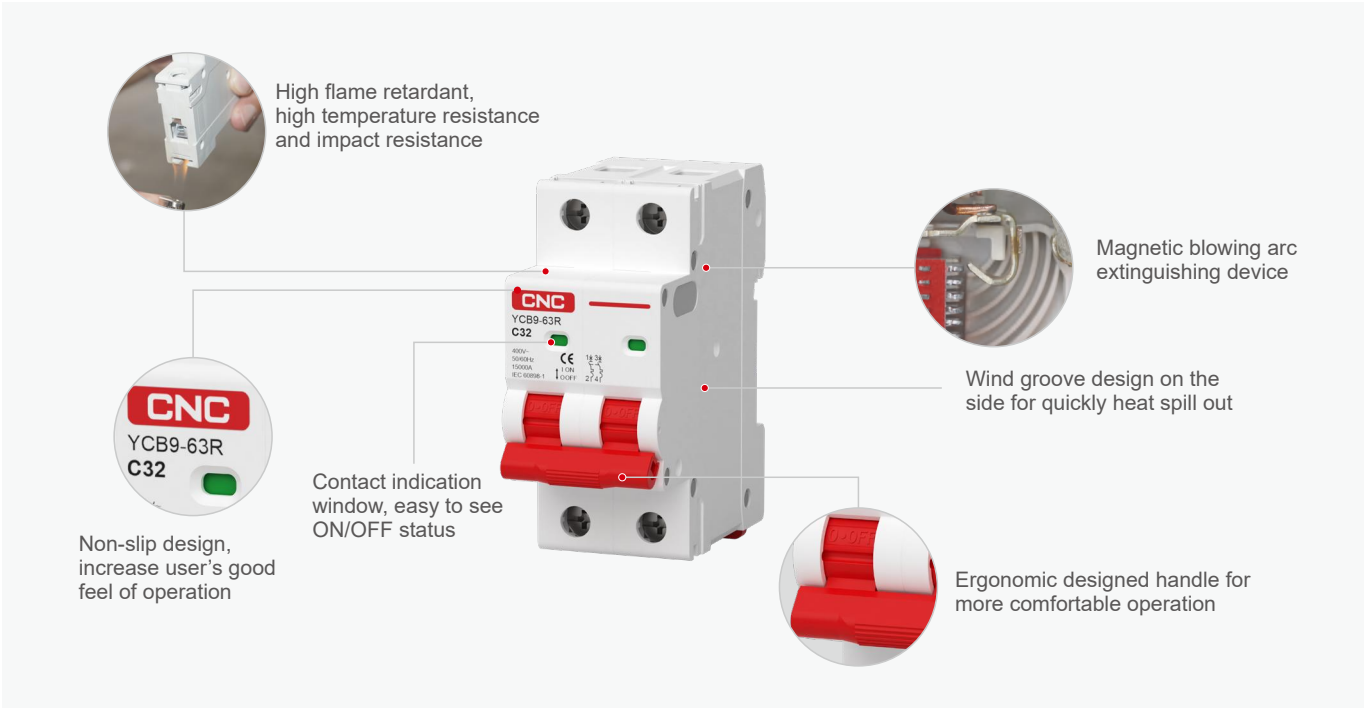
Type	Standard		IEC/EN 60898-1
Electrical features	Rated current In	A	1,2,4,6,10,16,20,25,32,40,50,63
	Poles	P	1, 2, 3, 4
	Rated voltage Ue	V	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity	A	4500,6000
	Rated impulse withstand voltage(1.2/50)Uimp	V	4500(80A)/6000(1-63A)
	Dielectric test voltage at ind. Freq. 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)



Final Distribution

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

YCB9-63R MCB

Operating conditions

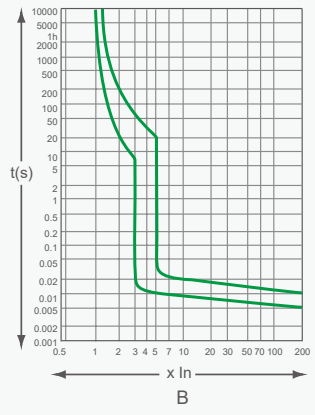
1. Circumstance temperature -5°C~+40°C,average temperature within 24h not exceeding +35°C.
2. Altitude above sea level less than 2000m.
3. Humidity not exceeding 50% at 40°C and not exceeding 90% at 25°C.
4. Pollution class 2.
5. Installation class II or III.
6. Installation method DIN Rail mounting 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.

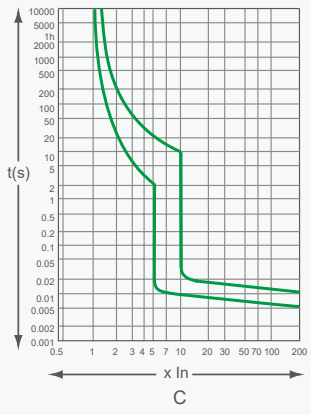
Selection

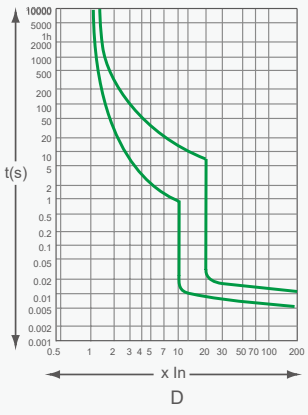
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.55In	1s< t <60s(In≤32A)	Tripping
	2.55In	1s< t <120s(In>32A)	

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







Final Distribution

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. Freq. 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 mm²
6	1
10	1.5
16,20	2.5
25	4
32	6
40,50	10
63	16

YCB9-63R MCB

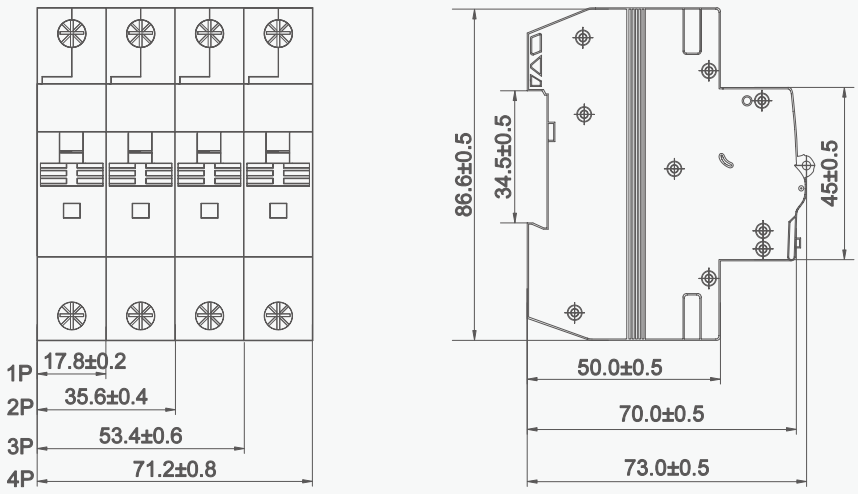
Temperature drop correction table

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.

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,IEC/EN 60947-2

Type designation

Model		Frame size rated current	Breaking capacity	Number of poles	Tripping characteristics	Rated current	Others
YCB9	-	80	M	1P	C	16	Double busbar
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

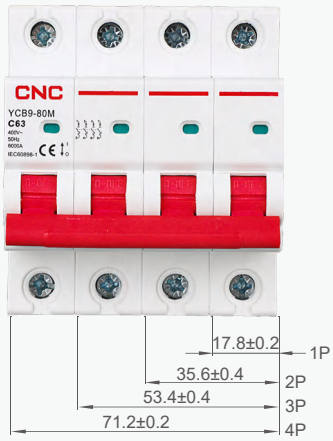
Technical data

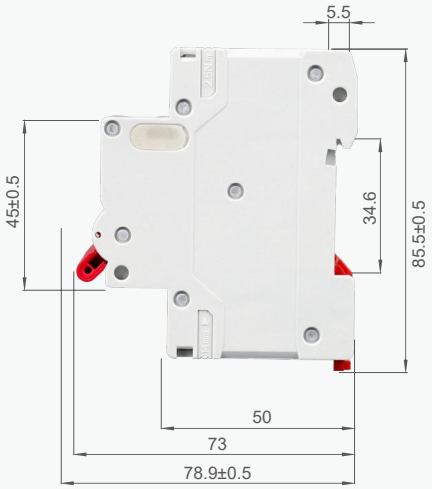
Type	Standard			IEC/EN 60947-2	IEC/EN 60898-1
Comprehensive data	Function			Overload, Short circuit, Isolation	
	Number of poles			1P, 2P, 3P, 4P	
	Rated current In		A	1-63A	1-80A
	Rated frequency		Hz	50/60Hz	
Electrical features	Rated voltage Ue		V	230/400	
	Rated insulation voltage Ui		V	500	
	Rated breaking capacity Icn		A	M:6000 H:10000	
	Rated impulse withstand voltage Uimp(1.2/50)		kA	4	
	Pollution degree			3	
	Use category			II , III	
	Trip type			Thermal magnetic release	
	Thermal magnetic tripping characteristics			8.5-12In	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

A

Overall and mounting dimensions(mm)





Tripping characteristic(IEC/EN 60898-1)

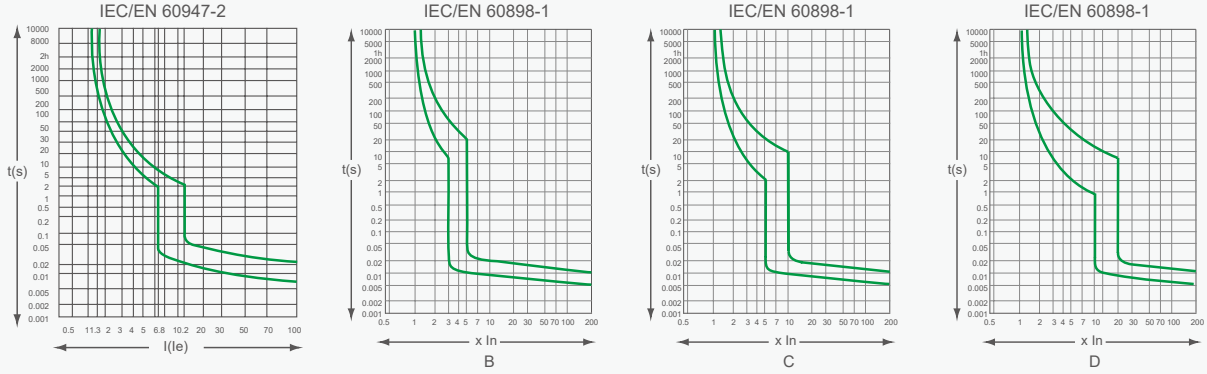
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.55In	1s< t <60s(In≤32A)	Tripping
	2.55In	1s< t <120s(In>32A)	

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	

Tripping characteristic(IEC/EN 60947-2)

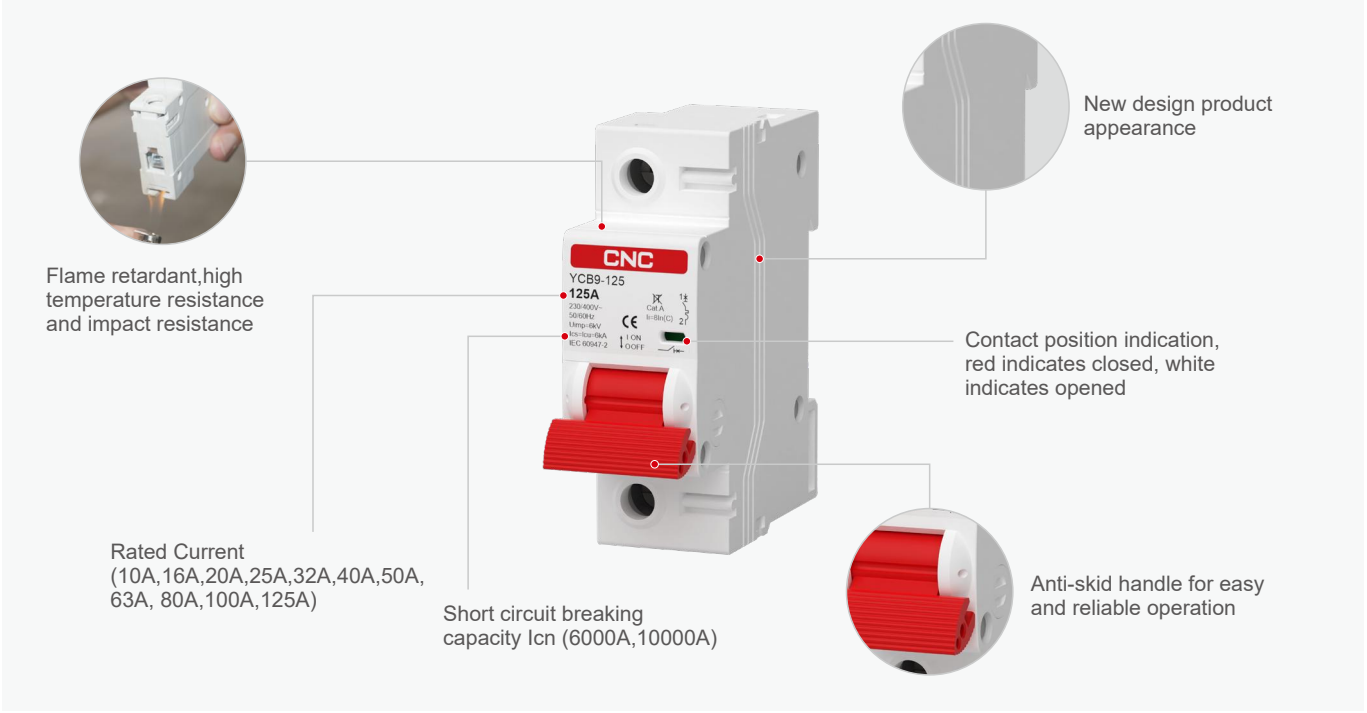
Test	Rated current	Test current	Initial status	Time limit for tripping or not tripping	Time limit for tripping or not tripping	Remarks
a	1-63A	1.05In	Cold state	t≥1h(In≤63A) t≥2h(In>63A)	Not tripping	Current increase steadily within 5s
b		1.3In	Right after test number a	t<1h(In≤63A) t<2h(In>63A)	Tripping	
c		8In	Cold state	t≥0.2s	Not tripping	Turn on the power supply by closing the auxiliary switch
d		12In	Cold state	t<0.2s	Not tripping	Turn on the power supply by closing the auxiliary switch

Curve



Final Distribution

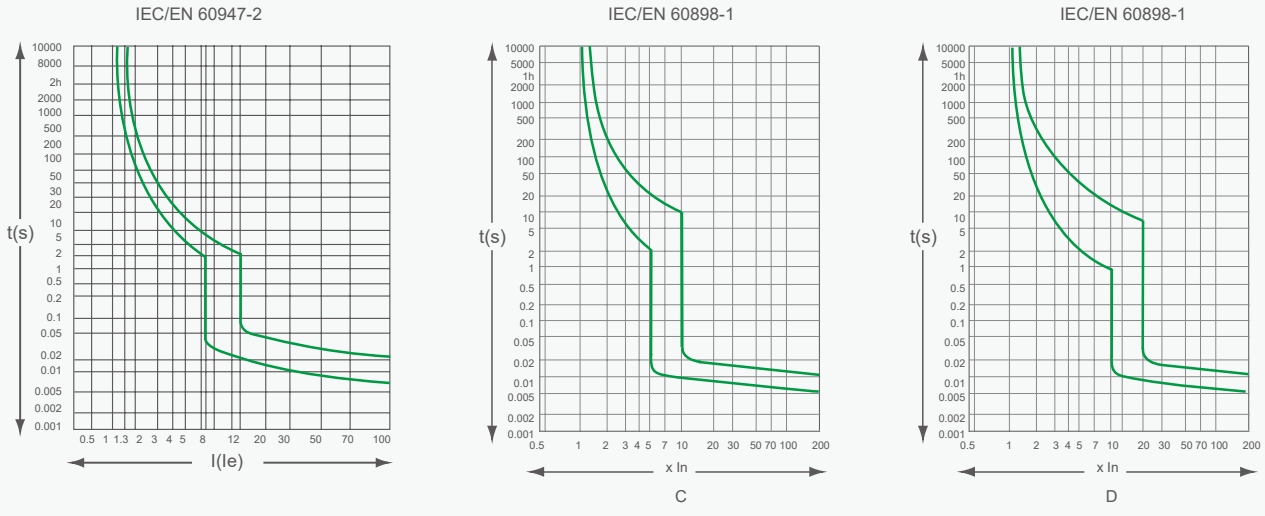
YCB9-125 MCB



General

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

Curve



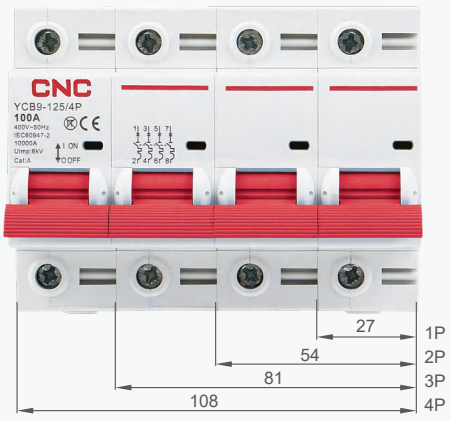
Final Distribution

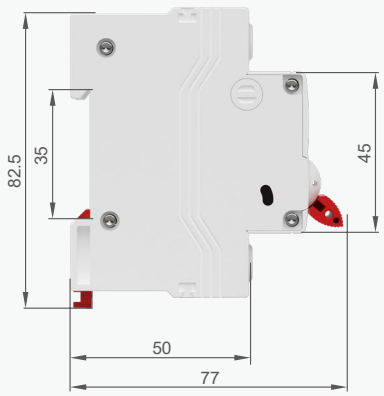
YCB9-125 MCB

Technical data

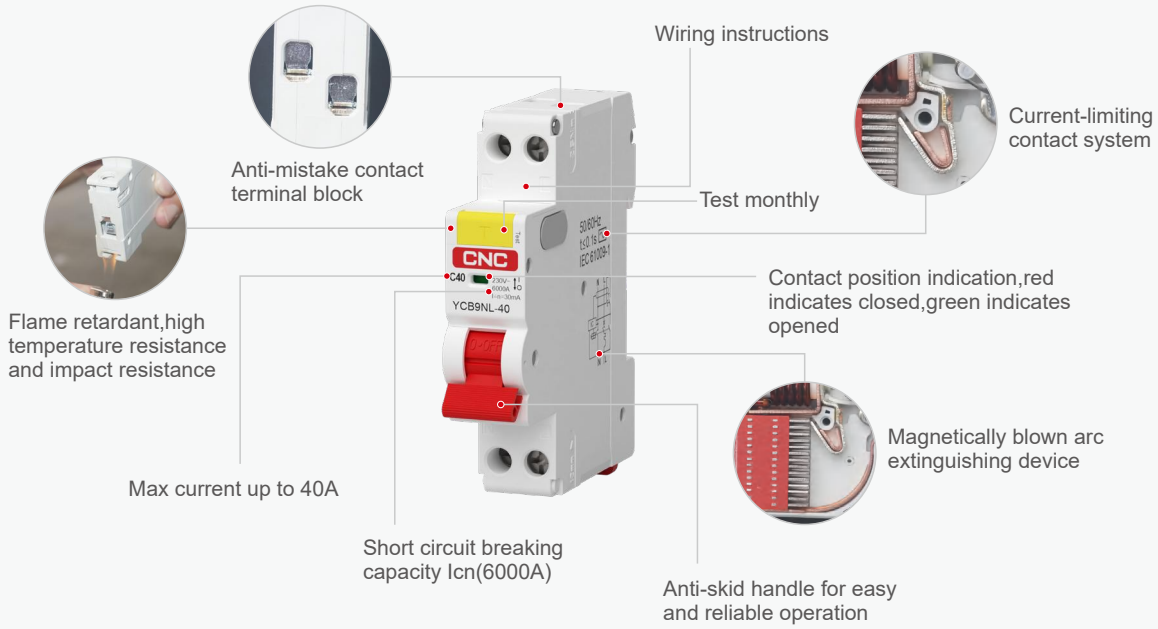
Type	Standard		IEC60947-2	IEC/EN 60898-1
Electrical features	Rated current In	A	10, 16, 20, 25, 32, 40, 50, 63, 80, 100, 125	
	Poles	P	1, 2, 3, 4	
	Rated voltage Ue	V	230/400	
	Insulation voltage Ui	V	500	
	Rated frequency	Hz	50/60	
	Rated breaking capacity	A	6000	
	Rated impulse withstand voltage(1.2/50) 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)





YCB9NL-40 RCBO Electronic



General

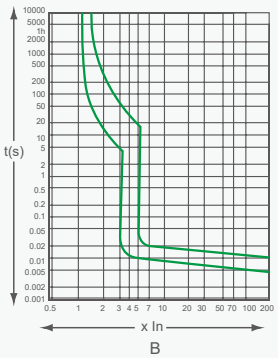
1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts.
4. Protection against fire hazard caused by insulation faults
5. Used in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

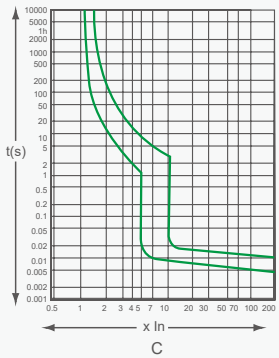
Selection

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	2.55In	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





Final Distribution

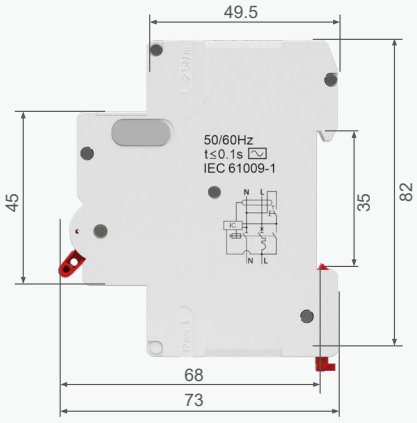
YCB9NL-40 RCBO Electronic

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)





YCB9NL-40LS RCBO



General

YCB9NL-40LS residual current operated circuit breaker with over-current protection (hereinafter referred to as RCBO) is suitable for AC 50Hz/60Hz, rated voltage up to 230V,rated current up to 40A,It integrates A and AC type RCD protection.RCBO provides residual and overload protection in one neat device . They can detect and respond as for type AC , PLUS pulsating DC components . Ideal for Domestic and Commercial applications .

Standard: IEC 61009-1

Type designation

YC B 9 NL - 40 NL

- Short length
- Frame size rated current
- Electronic RCBO
- Design number
- Miniature circuit breaker
- Company code

Operating conditions

1. Ambient temperature: -25°C ~+40°C.
2. Air conditions:At mounting site,relative humidity not exceed 50% at the maximum temperature of +40°C. For thewettest 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.
3. Altitude: ≤ 2000m.
4. The installation category is II and III.
5. The circuit breaker shall be installed on DIN rail EN 60715(35mm), which shall meet the A1.1 TH 35-7.5 steel mounting rail requirements.
6. Pollution grade: 2
7. Mounting conditions: inclination between mounting plane and vertical plane not exceed±5°C
8. The external magnetic field of the installation site should not exceed 5 times of the geomagnetic field in any direction.
9. The product should locate in the places where there are no obvious impact and shake.

Structural features and working principle

YCB9NL-40LS Range RCBO with switched neutral built in as standard will fully isolate a faulty or damaged circuit by disconnecting live and neutral conductors . They offer the most comprehensive circuit protection available .

Using the WRB range RCBO will guarantee that healthy circuits remain in service and that only a faulty circuit is switched off. This avoids danger and prevents inconvenience in the event of a fault. They have switched neutral built in as standard , live and neutral conductors do not have to be disconnected for insulation resistance testing. This saves time and money.

Final Distribution

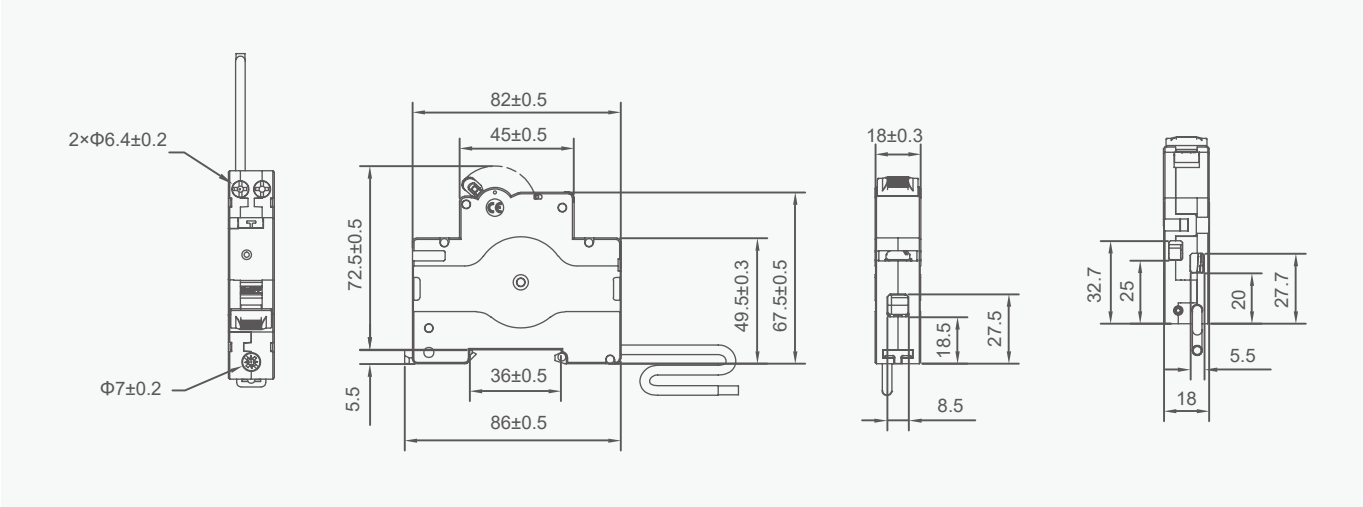
YCB9NL-40LS RCBO

Technical data

Type	Standard	IEC/EN 61009-1
Electrical features	Rated current In (A)	2,4, 6, 10 , 16, 20 , 25 , 32, 40
	Type	Electronic
	Type (wave form of the earth leakage sensed)	A Type
	Poles	1P+N(Switched Live and Neutral)
	Rated voltage Ue(V)	230
	Rated sensitivity I △ n	30mA
	Insulation voltage Ui (V)	500
	Rated frequency	50/60Hz
	Rated breaking capacity	6kA
	Rated residual making and breaking capacity I △ m (A)	3000
	Rated impulse withstand voltage(1 .2/50) Uimp (V)	4000
	Break time under I △ n (s)	≤0 . 1
	Dielectric test voltage at ind. Freq. for 1 min (kV)	2
	Pollution degree	2
Mechanical features	Thermo-magnetic release characteristic	B , C
	Electrical life	2 , 000
	Mechanical life	10 , 000
	Contact position indicator	Yes
	Protection degree	IP20
	Reference temperature for setting of thermal element(°C)	30
Installation	Ambient temperature (with daily average ≤35°C)	-5 ~ +40
	Storage temperature (°C)	-25 ~ +70
	Terminal connection type	Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	10mm²
	Terminal size bottom for cable	16mm² / 18-8 AWG
	Terminal size top/bottom for Busbar	10mm² / 18-8 AWG
	Tightening torque	2 .5 N*m / 22 In-lbs .
	Mounting	On DIN rail EN 60715 (35mm)
	Connection	From bottom

YCB9NL-40LS RCBO

Overall and mounting dimensions(mm)



Temperature compensation coefficient table

The maximum permissible current in a circuit breaker depends on the ambient temperature at which the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed. The reference temperature is 30°C Ambient temperature: -5°C ~+40°C .

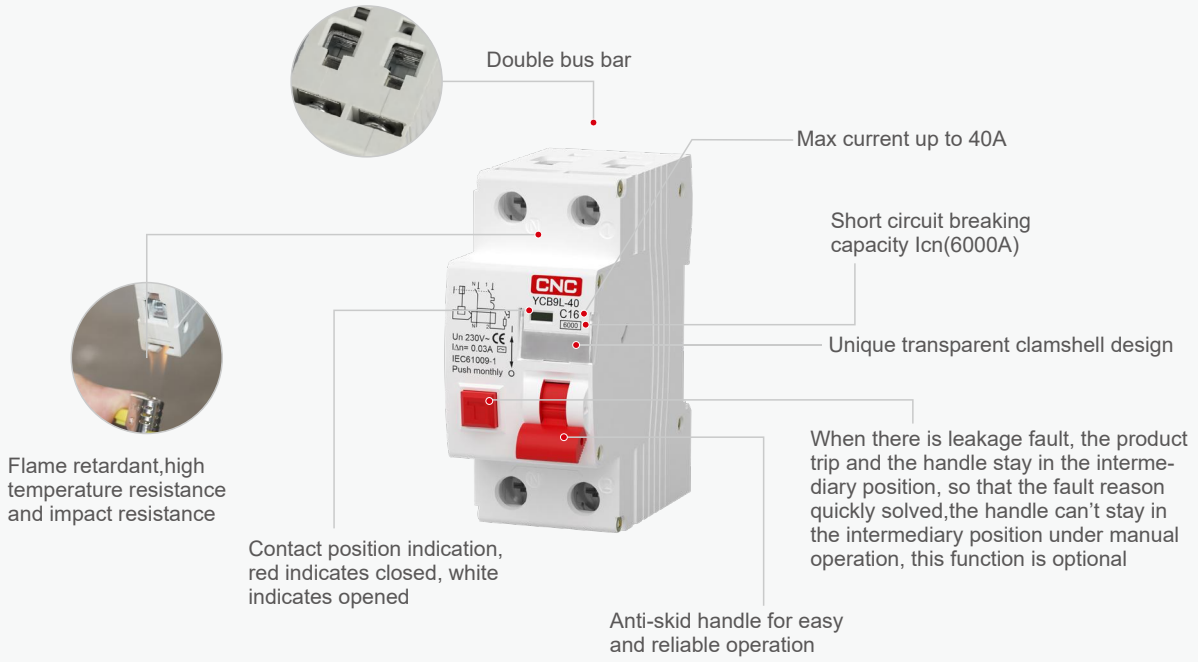
Temperature	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Temperature compensation coefficient of rated current	1.20	1.15	1.10	1.05	1.00	0.95	0.90	0.85

Ordering instructions

- When ordering, the customer shall indicate: the product name of RCBO, model, rated current, rated residual operating current, instantaneous tripping type, number of poles, quantity. For example: YCB9NL-40LS TYPE A 1P+N C40 100 units.
- Special requirements of customers can be negotiated separately

Final Distribution

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

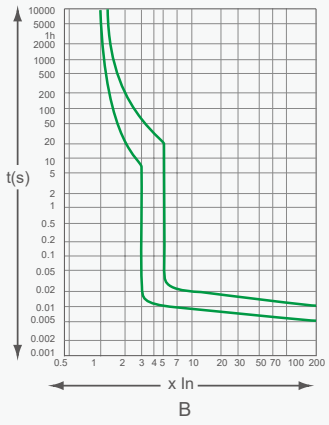
Type	Test current	Tripping time	Expected result
B,C	1.13In	t≤1h(In≤63A)	Not tripping
	1.13In	t≤2h(In>63A)	
B,C	1.45In	t<1h(In≤63A)	Tripping
	1.45In	t<2h(In>63A)	
B,C	2.55In	1s<t<60s(In≤32A)	Tripping
	2.55In	1s<t<120s(In>32A)	

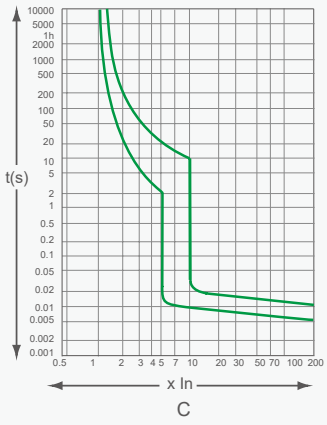
Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	

YCB9L-40 RCBO Electromagnetic

Curve

B,C Curve



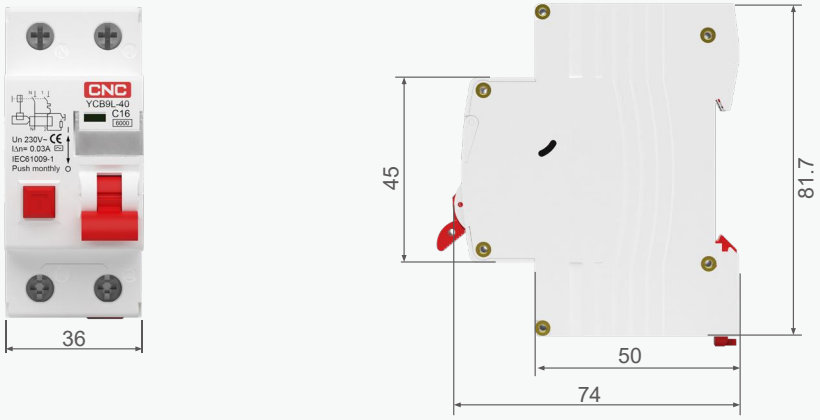


Technical data

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

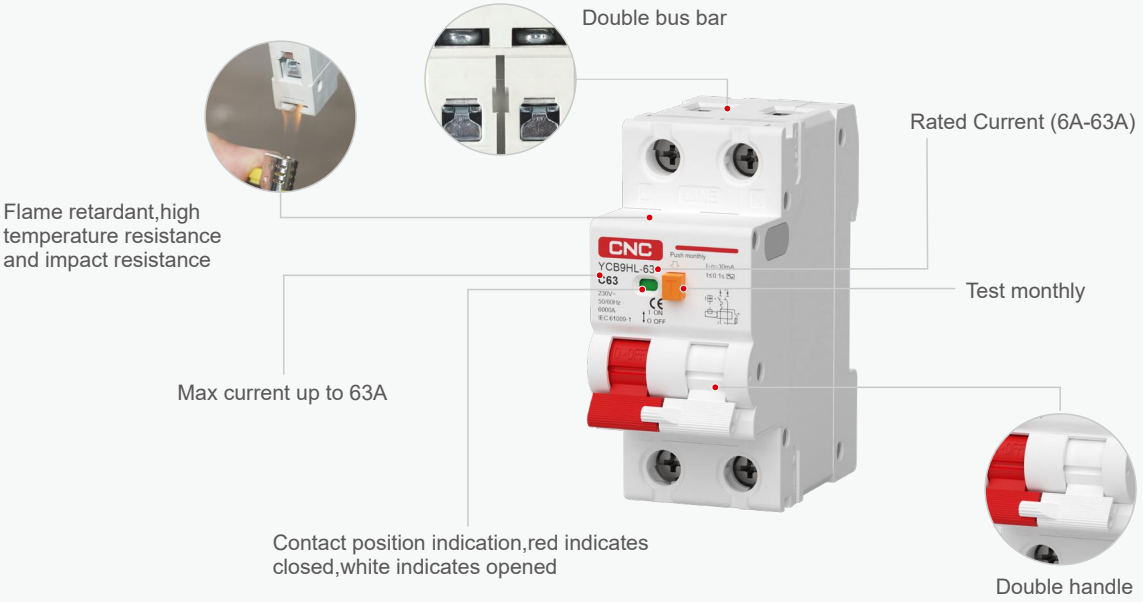
YCB9L-40 RCBO Electromagnetic

Overall and mounting dimensions (mm)



Final Distribution

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

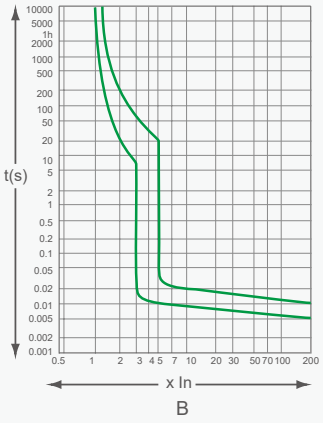
Selection

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)	

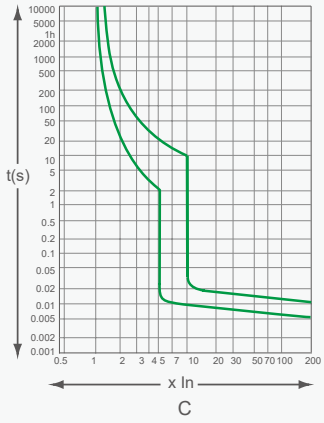
Type	Test current	Tripping time	Expected result
B	3In	t ≤ 0.1s	Not tripping
C	5In	t ≤ 0.1s	
B	5In	t < 0.1s	Tripping
C	10In	t < 0.1s	

Curve

B,C Curve



B



C

Final Distribution

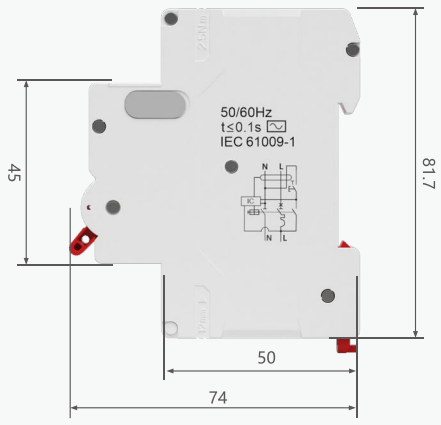
YCB9HL-63 RCBO Electromagnetic

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

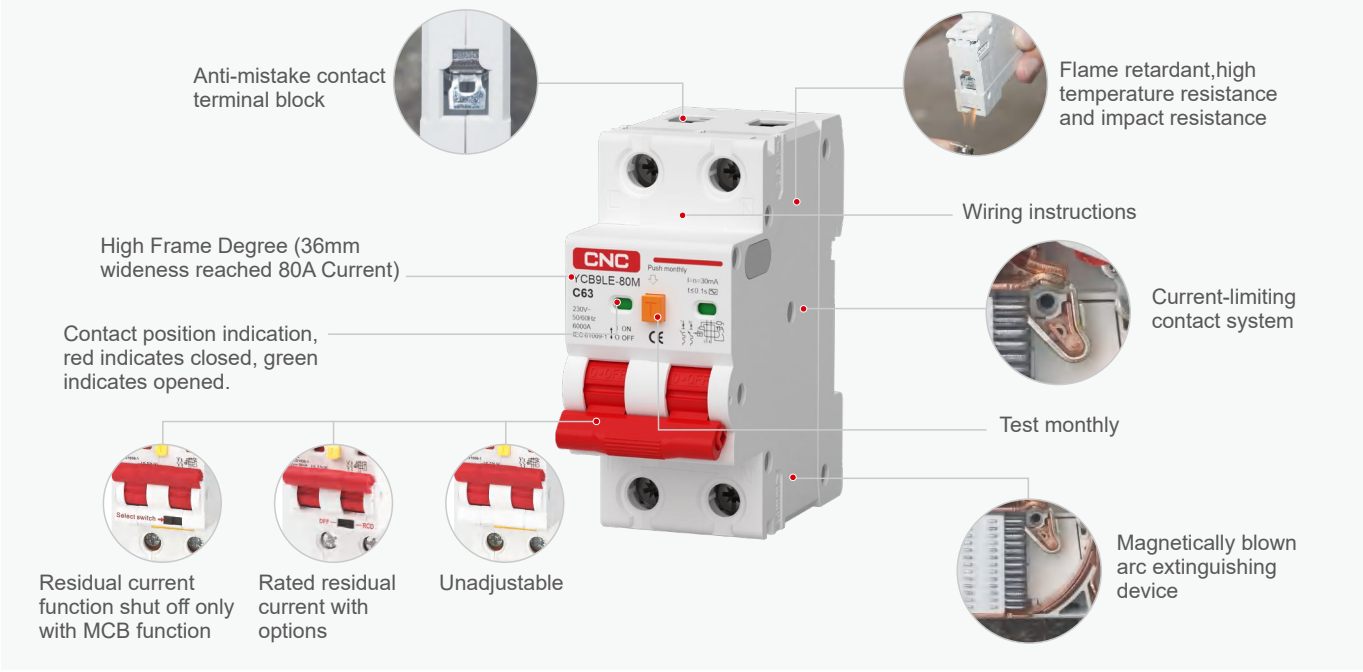
Overall and mounting dimensions (mm)





Final Distribution

YCB9LE-80M/H RCBO Electronic



General

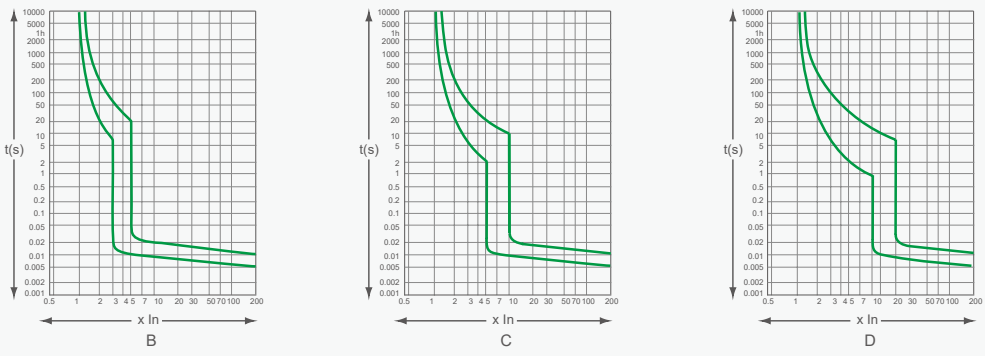
1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts
4. Protection against fire hazard caused by insulation faults
5. Used in 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



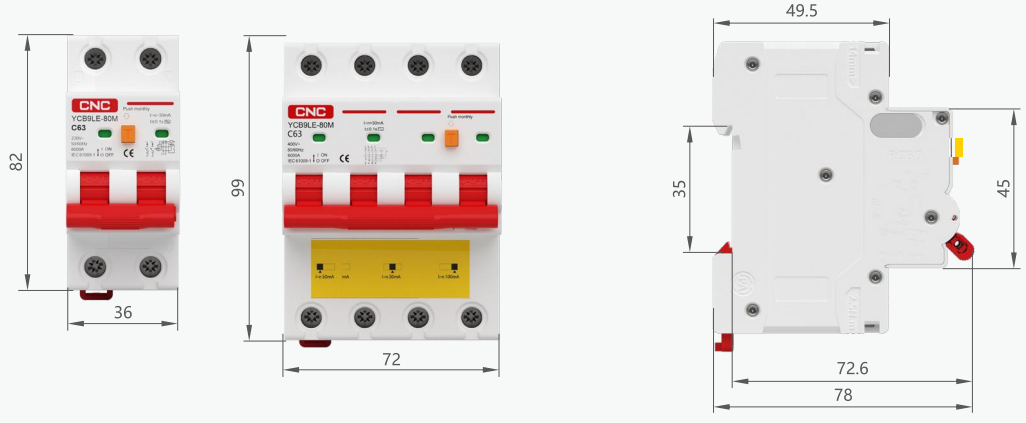
Final Distribution

YCB9LE-80M/H RCBO Electronic

Technical data

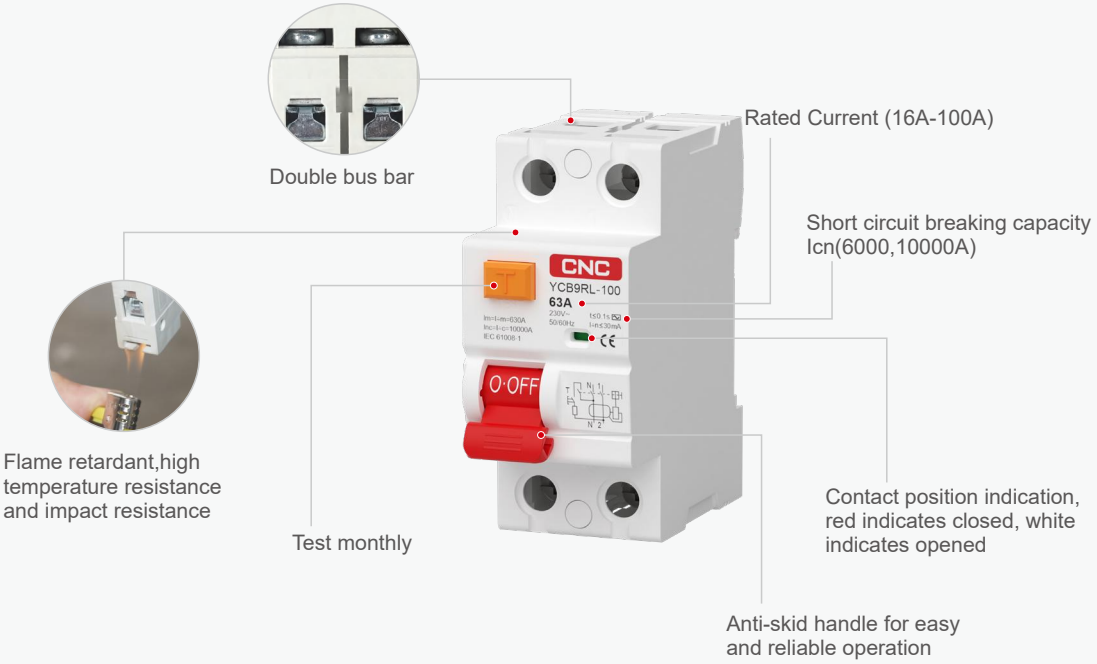
Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	2, 4
	Type(wave form of the earth leakage sensed)		A/AC
	Thermo-magnetic release characteristic		B, C, D
	Rated current In	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80
	Rated voltage Ue	V	230/400
	Rated sensitivity IΔn	A	0.03, 0.05, 0.1, 0.2
	Rated residual making and breaking capacity IΔm	A	500(In≤40A) 630(In>40A)
	Rated short-circuit capacity Icn	A	M:6000A H:10000A(In≤63A)
	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)



Final Distribution

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

Detectable waveform

AC type: Tripping is ensured for slowly increasing sinusoidal AC residual currents.

A type: Tripping is ensured for sinusoidal AC residual currents and pulsating DC residual currents, whether applied suddenly or gradually increasing.

S, SI type: Tripping is ensured not only for sinusoidal AC residual currents but also for pulsating DC residual currents, whether applied suddenly or gradually increasing.S and SI types are equipped with filters against spurious tripping caused by harmonics and transient surges. With an 8/20 μs surge current of 3000 A, this high-immunity RCCB will remain stable.

Tripping sensitivity

10mA - precision instrument leakage protection and bathroom use.

30mA - additional protection against direct contact.

100mA - co-ordinated with the earth system according to the formula IΔn < 50/R, to provide protection against indirect contacts;

300mA/500mA - protection against indirect contacts, as well as fire hazard.

YCB9RL-100 RCCB Electromagnetic

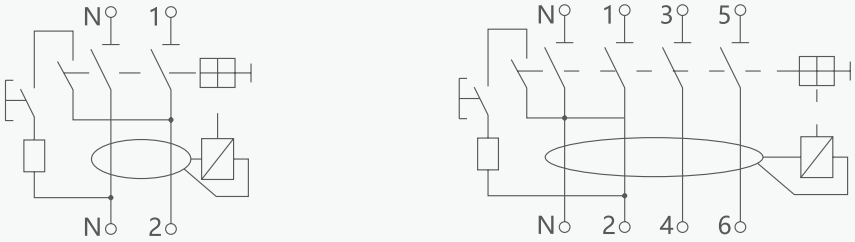
Technical data

Type	Standard		IEC/EN 61008-1
Electrical features	Leakage type		Electromagnetic type
	Rated current In	A	6, 10, 16, 25, 32, 40, 50, 63, 80, 100 SI(6, 10, 16, 25, 32, 40, 50, 63) S(25, 32, 40, 50, 63)
	Type (wave form of the earth leakage sensed)		AC, AC-S, A, A-S, A-SI
	Poles	P	2, 4
	Rated voltage Ue	V	230/400
	Insulation voltage Ui	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity Inc=IΔc	mA	6000, 10000
	Rated impulse withstand voltage (1.2/50) Uimp	V	6000
	Dielectric test voltage at ind. Freq. for 1min	kV	2.5
	Rated sensitivity IΔn	A	10mA, 30mA, 100mA, 300mA SI(30mA 100mA 300mA); S(100mA 300mA)
	Break time under IΔn	S	≤0.1(Normal type), 10ms~300ms(SI type) 130ms~500ms(S type)
	Rated residual making and breaking capacity IΔm	S	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

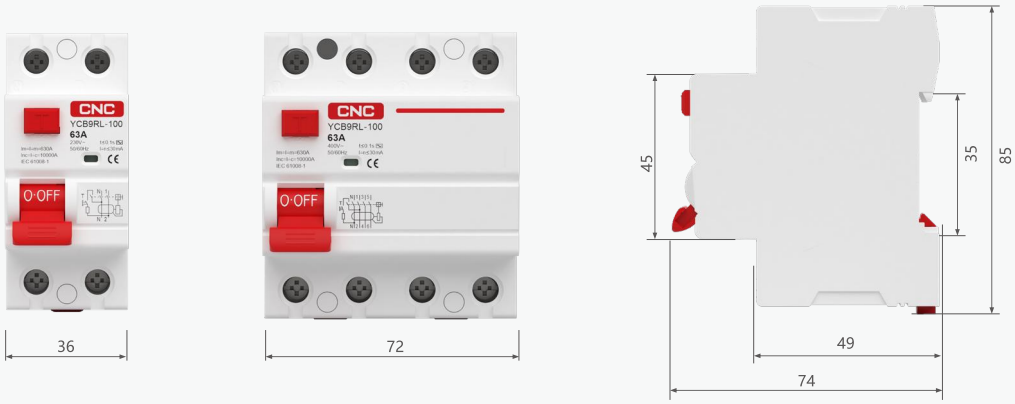
YCB9RL-100 RCCB Electromagnetic

A

Wiring Diagram



Overall and mounting dimensions (mm)



YCB9RL-63B RCCB Type B



General

YCB9RL 63 B is a - - complete upgrade residual circuit breaker of the existing A type residual circuit signal detection, it can not only have an effective protection to the AC (AC type) and pulsating DC (A type) and may produce compound residual current (F type) , but also have an effective protection to smooth DC and high frequency residual current (1kHz). In the circuit composed of rectifier, inverter, frequency converter, etc., the Leakage current generated by DC loop can be effectively detected and protected.

The products are widely used in industry, medical treatment, charging pile, elevator and other fields.

The residual current type: AC+A+ Smooth DC +F+ High frequency signal (1kHz)

Standard:
IEC/EN61008-1
IEC/EN62423

Type designation

YCB9RL - 63B 1P+N 63 100mA

Model		Shell grade current	Type	Poles	Rated current	Rated residua operating
YCB9RL	-	63	B	1P+N	63	100mA
RCCB Electromagnetic		63	Leakage mode:B	1P+N 3P+N	6 10 16 20 25 32 40 50 63	Default: 10mA 30mA 100mA 300mA

Note: This product cannot be assembled with attachments

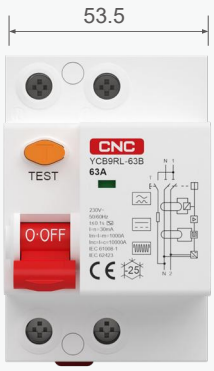
Final Distribution

YCB9RL-63B RCCB Type B

Technical data

Type	Standard		IEC/EN 61008-1
Electrical features	Rated voltage Ue	V	240V~1P+N,415V~3P+N
	Rated current In	A	16A,25A,32A,40A,63A
	Rated sensitivity IΔn	A	0.03A,0.1A,0.3A
	Poles	P	1P+N,3P+N
	Wave form of the earth leakage sensed		B(AC+A+ Smooth DC +F+High frequency signal (1kHz))
	Rated short circuit capacity Icn	A	6 000
	Rated making and breaking capacity Im	A	1000
	Rated residual making and breaking capacity IΔm	A	1000
	Rated insulation voltage Ui	V	500V
	Rated impulse withstand voltage Uimp	V	4000V
	Pollution degree		2
Mechanical features	Electrical life	t	1000
	Mechanical life	t	20000
	Protection degree		IP20
	Ambient temperature	°C	-25~+40
	Storage temperature	°C	-25~+70
Installation	Tightening torque	N*m	3
	Terminal size for cable	mm^2	16
	Installation category		II

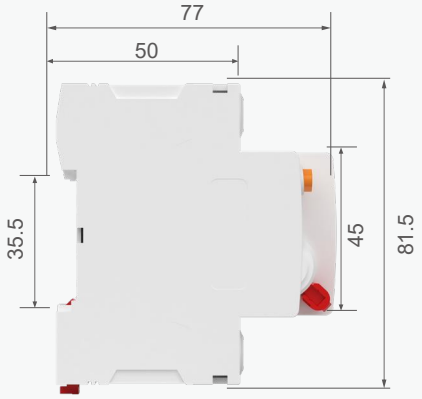
Overall and mounting dimensions (mm)



1P+N



4P+N



Final Distribution

YCH9s-125 Isolating Switch



General

YCH9s-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:IEC60947-3

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

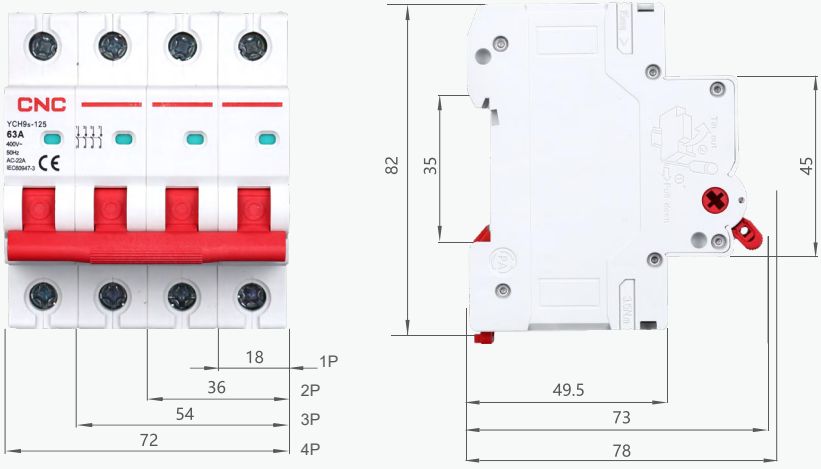
Final Distribution

YCH9s-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.Freq.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/bottom for cable and pin-type busbar	AWG	50

Overall and mounting dimensions(mm)



YCB9VS-63 Series Intelligent Recloser Automatic Switch



General

YCB9VS is an intelligent switch integrated with automatic recloser function. Its core features lie in providing multiple electrical protections, including:

- Voltage abnormality protection: Overvoltage protection, undervoltage protection, voltage loss protection, phase loss protection;
- Current fault protection: Short circuit protection, overload protection, phase failure protection;
- Transient protection: Surge pulse current and voltage protection;

(Note: Consider whether to include the overload and short circuit protection of the circuit breaker yourself)

When the line fault is eliminated and the power supply voltage returns to normal, the switch can automatically perform the closing operation to restore power supply, significantly improving power supply continuity and automation level.

Characteristics

- Power supply system: Suitable for AC 50 Hz or 60 Hz AC circuits.
- Rated voltage: Operating voltage range 230V ~ 400V AC.
- Current rating: Covering 16A to 63A rating specifications (can be expanded according to requirements).
- Main purposes: Protect lines from damage caused by overload and short circuit faults. It can also protect electrical equipment from damage due to line voltage faults. It can also be used as a transfer switch for infrequent operation of lines.

Applications

Particularly suitable for unattended distributed power grid nodes.

Provide “island-style” protection: When a problem occurs in a local circuit network, it can reliably cut off the fault to ensure the safety of non-faulty areas.

Realize automatic network connection/reconnection: After the fault is eliminated or the main power supply is restored, the electrical network connectivity is automatically restored.

Features

Built-in RS-485 communication interface, supporting remote monitoring and control.

It can realize remote switching on/off control and operation status query, facilitating centralized management and operation and maintenance.

Type designation

YC B 9 VS - 63

- 63 — Frame Rating
- VS — Smart Circuit Breaker Code
- 9 — Design Serial Number
- B — Miniature Circuit Breaker Code
- YC — Company Code

YCB9VS-63 Series Intelligent Recloser Automatic Switch

Installation and Environment

1. Normal ambient temperature: -25°C~65°C
2. Extreme ambient temperature: -30°C~70°C
3. Humidity: 30%~95%
4. Installation category: 3
5. Pollution degree: 2
6. Enclosure protection level: IP20

Safety Operation and Warnings

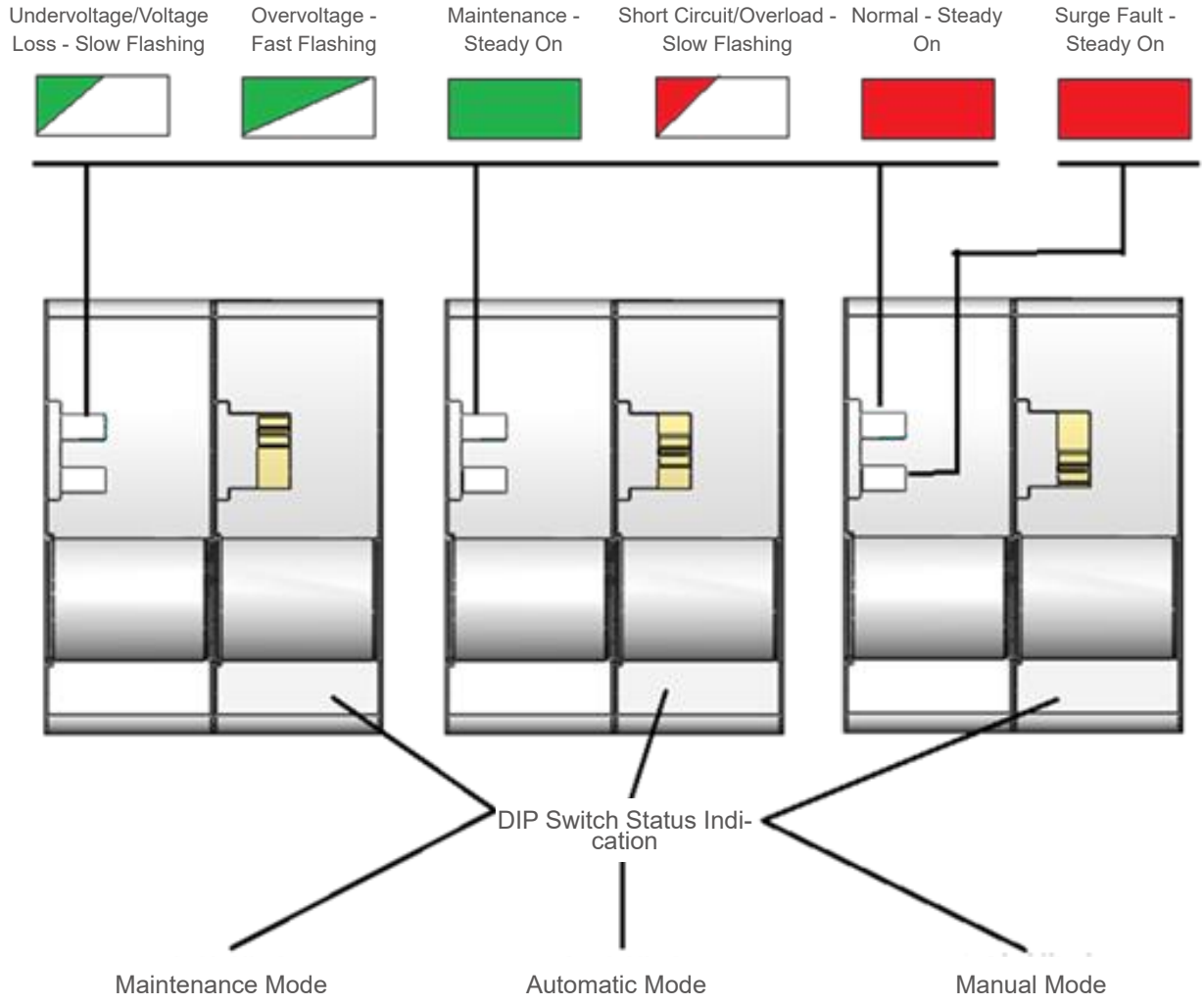
1. It is very important to connect the neutral wire of the power supply to the N-pole terminal of the switch.
2. The product should not be operated with electricity during installation to avoid electric shock.
3. Do not test the product performance by means of ground short circuit, wiring short circuit, or phase line contact to avoid endangering personal safety.
4. During installation, the wiring screws must be tightened to prevent cable loosening. N and L (neutral and phase) cannot be connected incorrectly, nor can the power supply be connected from the outlet terminal.
5. Do not operate the circuit breaker with wet hands to avoid possible electric shock.
6. The protection characteristics of the switch are determined by the manufacturer, and it is not allowed to open or adjust the switch arbitrarily.
7. The switch does not protect personnel from electric shock and equipment leakage.

Technical data

Item	Technical Term	Technical Parameter			
Power Supply	Pole Number	1P+N, 3P+N			
	Frequencyy	50Hz, 60Hz			
	Rated Voltage	230V, 400V			
	Rated Current	16A,20A,25A,32A,40A,50A,63A			
Current Protection Characteristics	Overload Protection Characteristic	2.55In			
	Short Circuit Protection Characteristic	Type B:3In-5In Type C:5In-10In			
	Short Circuit Breaking Capacity	Icu:10kA			
	Executive Standard	IEC/EN60898			
Overvoltage Protection Characteristics	Overvoltage Value	Maximum Overvoltage Operation Delay Time	Actual Operation Time		
	275V	15s	5s-6s		
	300V	5s	2s-3s		
	350V	0.75s	0.3s-0.5s		
	400V	0.2s	0.05s-0.1s		
	Executive Standard	EN IEC 63052			
Undervoltage and Voltage Loss Protection Characteristics	≤160V, operation < 0.1s				
Executive Standard	IEC60947-2				
Recovery Voltage Range	195V-250V, closing with 5s delay				
Surge Protection Characteristics	Maximum Continuous Operating Voltage Uc	400V			
	Nominal Discharge Current In	5kA	10kA	15kA	20kA
	Maximum Discharge Current Imax	10kA	20kA	30kA	40kA
	Voltage Protection Level Up	0.9kA	1.2kA	1.5kA	1.8kA
	Executive Standard	IEC61643-11			

YCB9VS-63 Series Intelligent Recloser Automatic Switch

Product Panel Function Indications

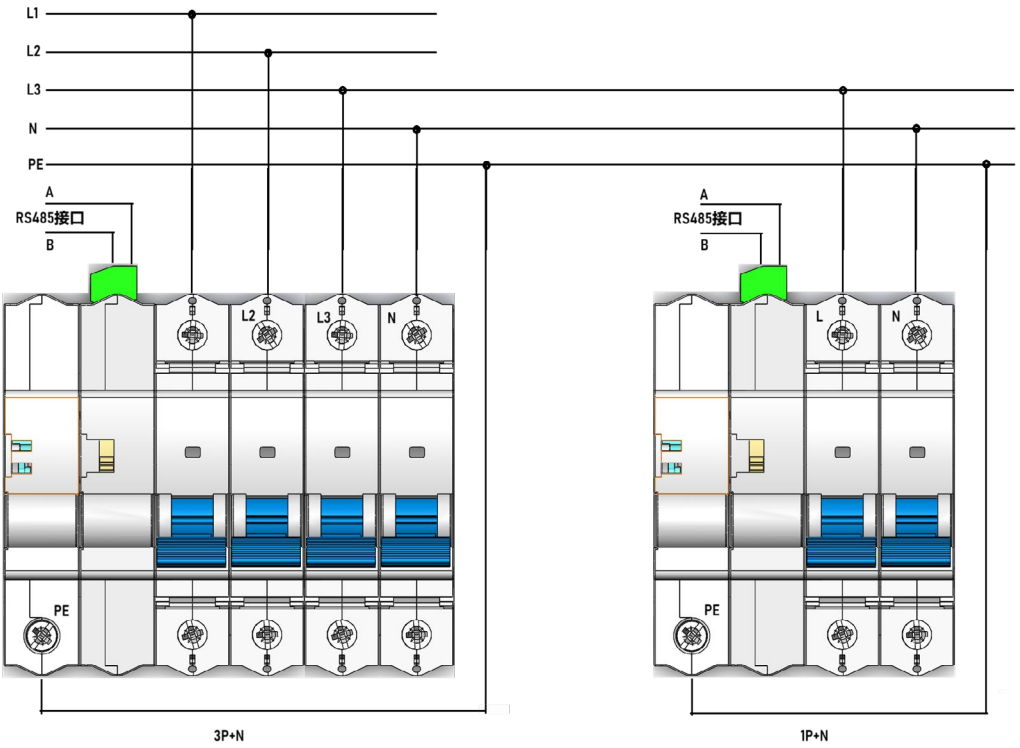


When switching from automatic mode to this mode, the switch cannot be closed automatically or manually. After the fault is eliminated, it must be switched to manual mode to close manually first, then switched to automatic mode. If directly switched to automatic mode, the switch will not have the automatic function. (For safety reasons)	Under normal circumstances, the switch is in this mode. In this mode, the switch can detect overvoltage, undervoltage, voltage loss, and phase loss and automatically open the circuit. When it detects that the voltage returns to the normal voltage range of 190V-250V, the switch closes automatically after a 5s delay. Before the voltage returns to the normal range, the switch will not close unless switched to manual mode.In remote control mode, pressing Start will close the switch; pressing Stop will open the circuit. At this time, the switch cannot be closed on-site, and it must be switched to manual mode to close.	In this mode, the switch can be freely closed and opened manually. If a voltage fault is detected, the green indicator light will flash to indicate the voltage fault, and the switch will automatically open the circuit. The remote control interface will display the fault, and the remote control buttons will be invalid.
Circuit Breaker Part Protection Function	Whether in automatic or manual mode, if the switch automatically opens the circuit due to accidents such as circuit short circuit or overload, the red light in the above figure will flash slowly. The switch can only be closed manually after the fault is eliminated.	
Surge Part Protection Function	Whether in automatic or manual mode, if the surge part protection function fails, the switch will automatically open the circuit, and the red light indicated in the above figure will be steady on. The switch must be replaced.	

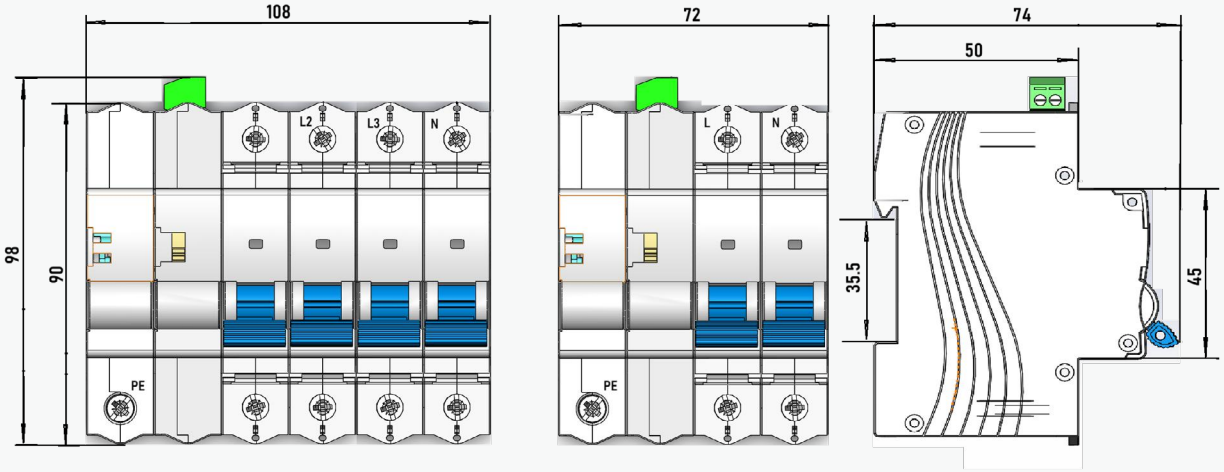
YCB9VS-63 Series Intelligent Recloser Automatic Switch

Wiring Diagram

1. During installation, the wiring screws must be tightened to prevent cable loosening. N and L (neutral and phase) cannot be connected incorrectly, nor can the power supply be connected from the outlet terminal.
2. Do not operate the circuit breaker with wet hands to avoid possible electric shock.
3. The protection characteristics of the switch are determined by the manufacturer, and it is not allowed to open or adjust the switch arbitrarily.
4. The switch does not protect personnel from electric shock and equipment leakage.



Overall and mounting overall and mounting dimensions(mm)



YCB9VS-80 Series Surge and Overvoltage Protective Device



General

A Surge Protective Device (SPD) is an electrical safety device that combines surge protection and overvoltage protection in a single unit. It dissipates surge current and limits transient overvoltages within an extremely short response time, while continuously monitoring and protecting against sustained overvoltages. The device maintains the line voltage within a safe operating range for downstream equipment, preventing damage to electrical devices in communication, power distribution, and industrial control systems caused by overvoltage events.

This product is primarily designed for use in low-voltage AC distribution systems, providing comprehensive protection against lightning surge
waves, lightning-induced overvoltages, switching overvoltages, and sustained overvoltages.

Core Protection Functions:

- Voltage abnormality protection: overvoltage protection, undervoltage protection
- Overcurrent fault protection (in combination with MCB): short-circuit protection, overload protection
- Transient protection: surge impulse current and voltage protection

When a line fault has not been cleared, the circuit breaker will not close. The device can protect lines against overload and short-circuit faults,
and protect connected equipment from damage caused by line voltage faults.

Type designation

YCB9VS-80

Product name		Panel Size(WxH)
YCB9VS	-	80
Temperature controller model		Note: The dimensions of installation holes are shown in brackets.

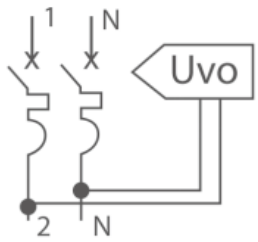
Characteristics

It is a permanent overvoltage protection device used for single-phase installations against sustained grid overvoltage. It also provides protection against transient overvoltage caused by lightning strikes or grid switching. It consists of single-phase automatic main switch + permanent overvoltage protector + transient protector. Suitable for single-phase installations with 230V voltage for L+L and L+N.

YCB9VS-80 Series Surge and Overvoltage Protective Device

Functions

The device continuously monitors power supply voltage and detects voltage rise. Once abnormality is detected, it actuates the IGA automatic main switch to cut off the power supply. The operating time depends on the detected overvoltage level, complying with EN 50550 standard.



	Standard operating and non-operating time at corresponding voltage (Ua)				
	255V	255V	255V	255V	255V
Upper limit of operating time	/	15s	15s	15s	15s
Lower limit of operating time		3s	3s	3s	3s

The device resumes operation after manual reset, provided the voltage is within the rated range.

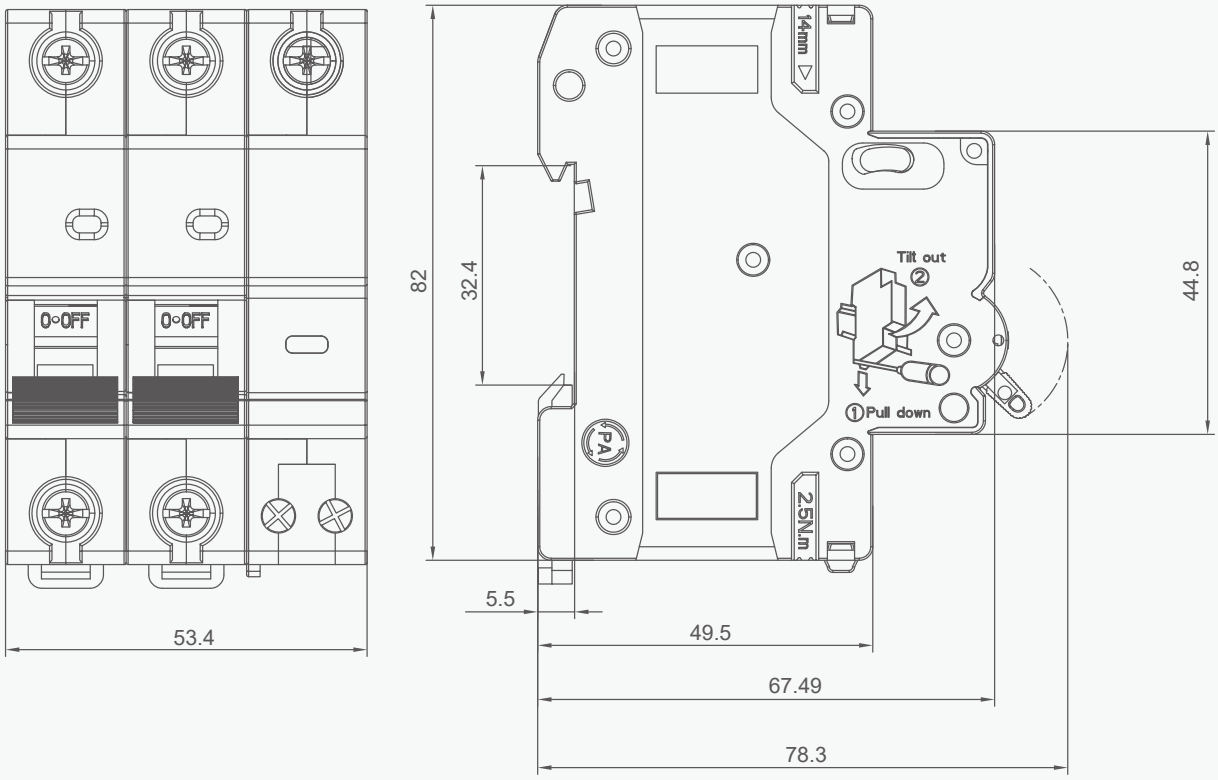
In case of transient overvoltage, the device absorbs the surge voltage to prevent damage to grid-connected equipment, in accordance with IEC 61643-1 standard. If the protector fails due to transient overvoltage, the indicator on the right module turns red to give an alarm. At this time, the protection module is invalid and must be replaced immediately.

Technical data

Rated voltage	400VAC; transient protection will not trigger below this value
Nominal voltage Uo	230VAC ±10%
Rated frequency	50/60Hz
Maximum conductor cross-section	25mm²
Product module	compact and easy wiring (3 DIN modules / 54mm)
Dimensions (W×H×D)	54×82.5×72.6 mm
Protection degree	IP20
Mounting type	DIN 35mm rail mounting
Rated current	16, 20, 25, 32, 40, 50, 63 A
Trip curve	C
Class	T2
Breaking capacity	6kA / 10kA
Maximum discharge current	15kA
Manual close and trip control	—
Automatic reset function	—
Remote control	available via 1~2 module accessories
Protection status indicator (Red)	SPD fault status
Protection status indicator (Green)	SPD normal status

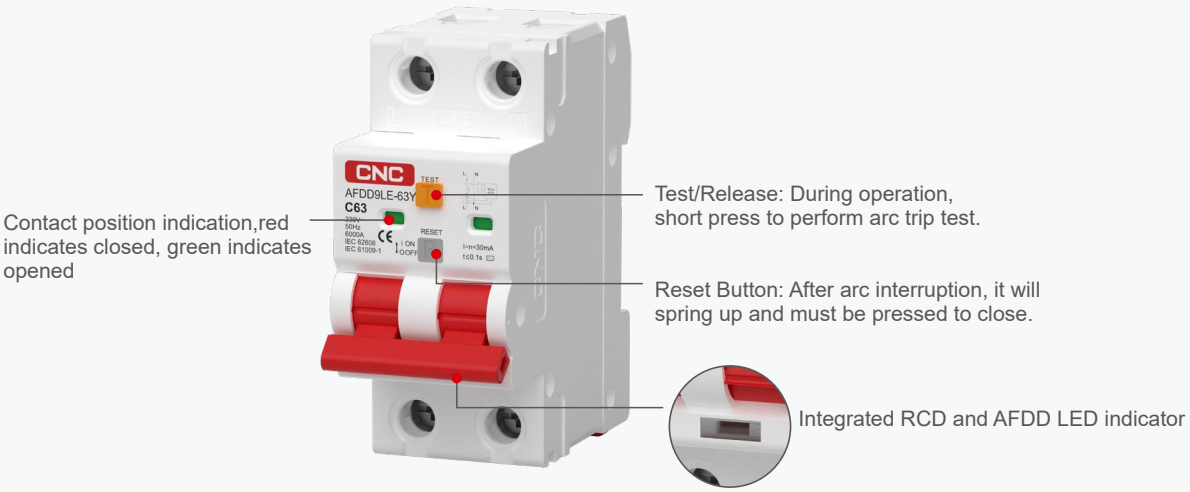
YCB9VS-80 Series Surge and Overvoltage Protective Device

Overall and mounting overall and mounting dimensions(mm)



Final Distribution

AFDD9LE-63Y Arc Fault Detection Device



General

The AFDD9LE-63Y series Arc Fault Detection Device are assembled by residual current circuit breakers (RCBO) and arc detection modules. The AFDD9LE-63Y Arc Fault Detection Device possess the functions of short-circuit protection, overload protection, residual current protection and arc-fault protection. They are suitable for being installed in branch circuits and can quickly cut off the circuits to play a protective role when over-current, short-circuit, leakage or arc-fault occurs in the branch circuits.

T key: Test key --- multi-function key

- Green light status: running status
  Press the “T key” and release it quickly(ote that it is the release trigger) to test the breaking function of the AFDD protector.
- Red light flashing state: arc fault alarm stat
  Pressing the “T key” will immediately cancel the alarm.

Set AFD detection mode:

When the green light is on, keep pressing the “T key” for about 3 seconds, the green light will go out, and it means entering the setting mode. Press the “T key” again, the green light will flash to indicate the current operating mode, and each press will switch once!
There are four operating modes:

- Flash once: Anti-interference mode
- Flashes twice: Low-sensitivity mode
- Flashes three times: standard mode
- Flashes four times: Enhanced mode (not intended for a specific application, not recommended)

The selected mode takes effect immediately, Wait for 10 seconds to automatically exit the setting mode, or you can long press the”T key” to exit immediately.

Type designation

AFDD 9 LE - 63Y

- 63Y — Frame size rated current
- LE — Electronic RCBO
- 9 — Design number
- AFDD — Arc Fault Detection Device

Final Distribution

AFDD9LE-63Y Arc Fault Detection Device

Maximum Protection

AFDD9LE-63Y offers maximum protection against


Series arc faults


Earth arc faults


Short circuits


Parallel arc faults


Earth leakage faults

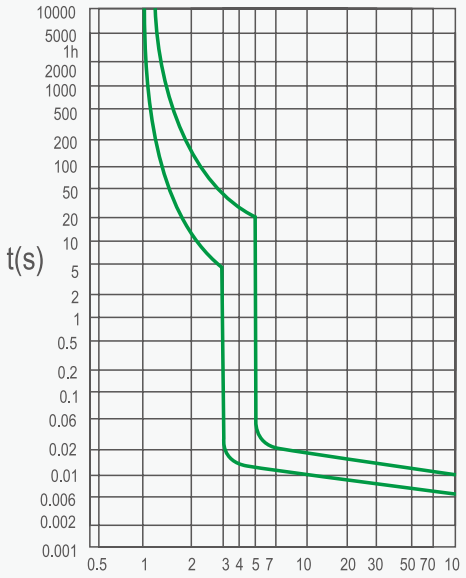

Overload

Technical data

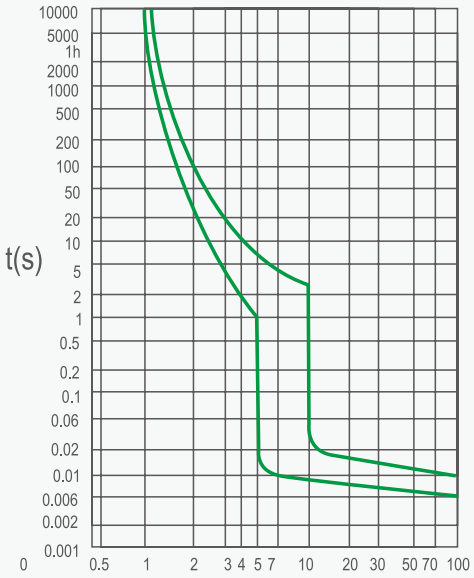
Content	Technical data
Rated voltage Ue,V	AC 230/240
Approvals	CE
Rated frequency,Hz	50
Rated insulation voltage Ui , V	500
Rated impulse withstand voltage Uimp,V	4000
Rated current In, A	6, 10, 16, 20, 25, 32, 40, 50, 63
Number of poles	1P+N (N-pole disconnectable)
Instantaneous tripping type	B, C
Sensitivity IΔn, mA	10,30, 100
type of RCBO	AC, A
Rated short circuit breaking capacity Icn ,A	6000
Mechanical and electrical endurance,cycles	4000
Protection degree	IP20
Ambient temperature,°C	-25 to +40
Standards	IEC 62606, IEC 61009-1
RCD tripping type	Electronic

AFDD9LE-63Y Arc Fault Detection Device

Tripping curves

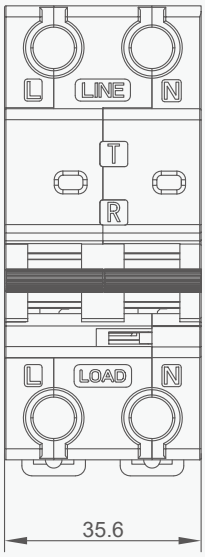


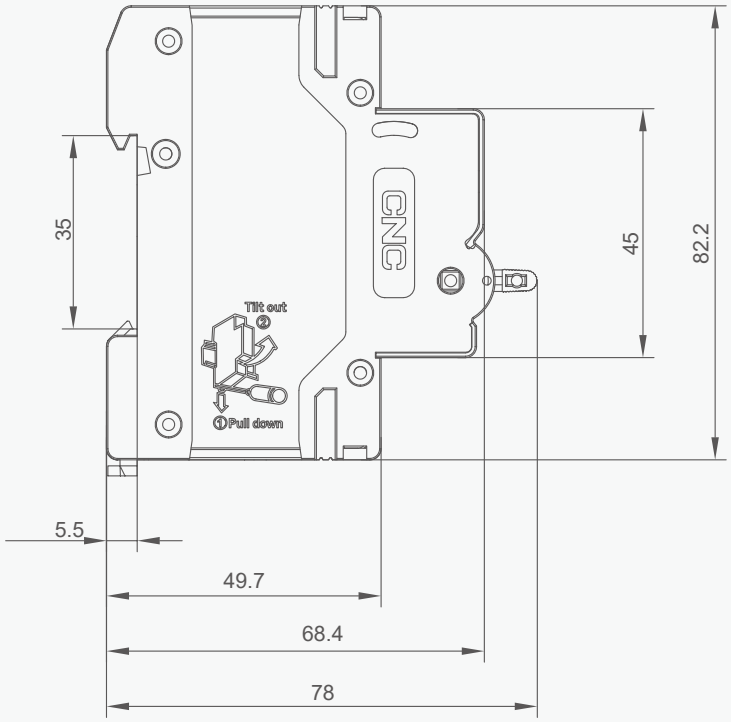
I/In
B curve



I/In
C curve

Overall and mounting dimensions(mm)





AFDD Arc Fault Detection Devices



T key: Test key --- multi-function key

- Green light status: running status
  Press the “T key” and release it quickly(ote that it is the release trigger) to test the breaking function of the AFDD protector.
- Red light flashing state: arc fault alarm stat
  Pressing the “T key” will immediately cancel the alarm.

Set AFD detection mode:

When the green indicator is on, keep pressing the “T key” for about 3 seconds, the green indicator will go out, and it means entering the setting mode. Press the “T key” again, the green indicator will flash to indicate the current operating mode, and each press will switch once!
There are four operating modes:

- Flash once: Anti-interference mode
- Flashes twice: Low-sensitivity mode
- Flashes three times: standard mode
- Flashes four times: Enhanced mode (not intended for a specific application, not recommended)

The selected mode takes effect immediately, Wait for 10 seconds to automatically exit the setting mode, or you can long press the”T key” to exit immediately.

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						

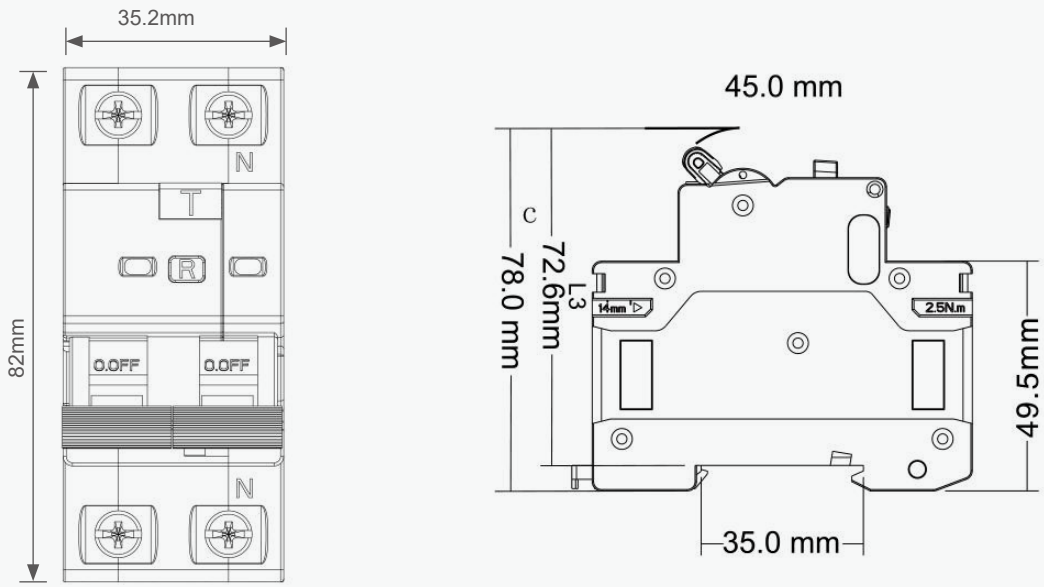
Over current protection characteristics (reference temperature 30°C)

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)	

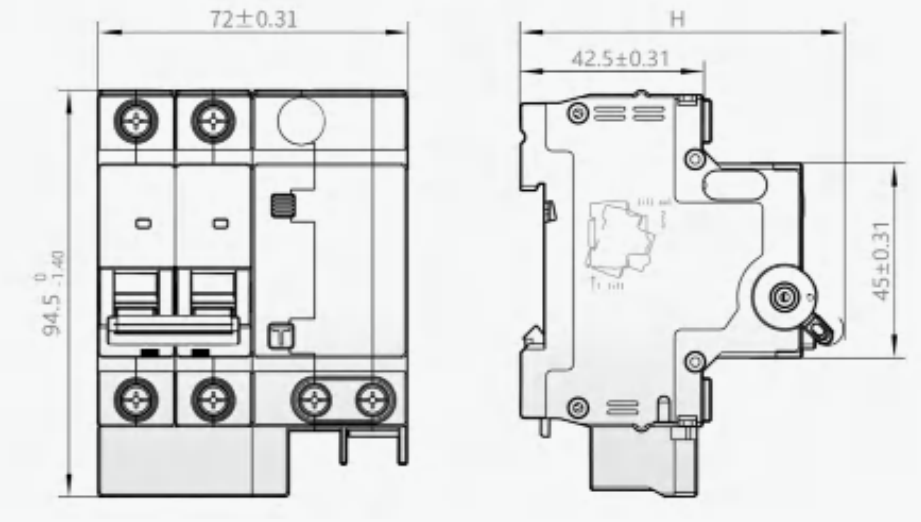
Type	In(A)	Tripping time	Expected result
B,C,D	B	t≤0.1s	Not tripping
	C	t≤0.1s	
B,C,D	D	t≤0.1s	
	B	t<0.1s	Tripping
B,C,D	C	t<0.1s	
	D	t<0.1s	

Overall and mounting dimensions(mm)

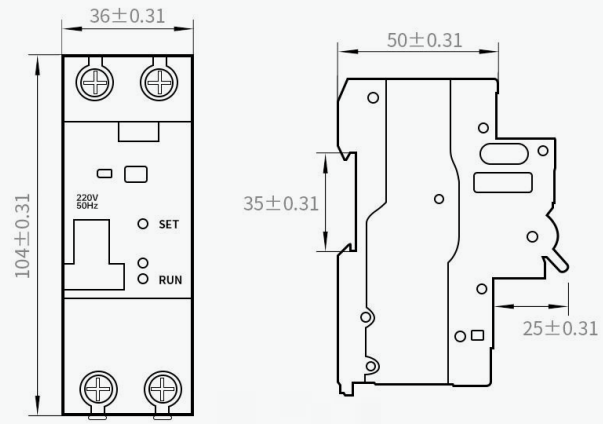


2P+N

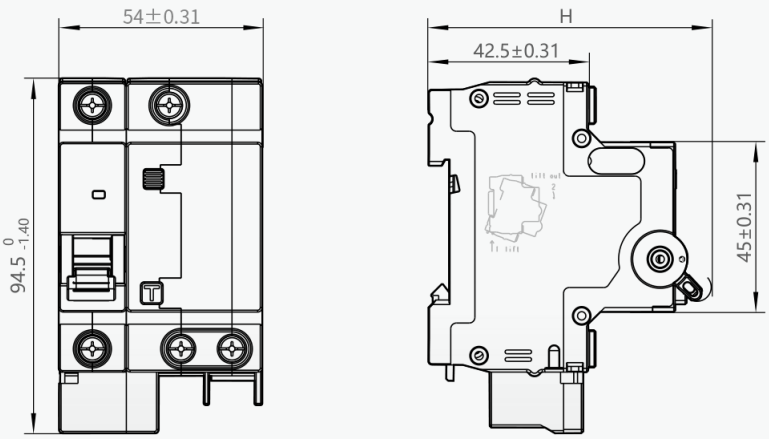
AFDD Arc Fault Detection Devices



2P+N



2P Single handle



1P+N

AFDD Arc Fault Detection Devices

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

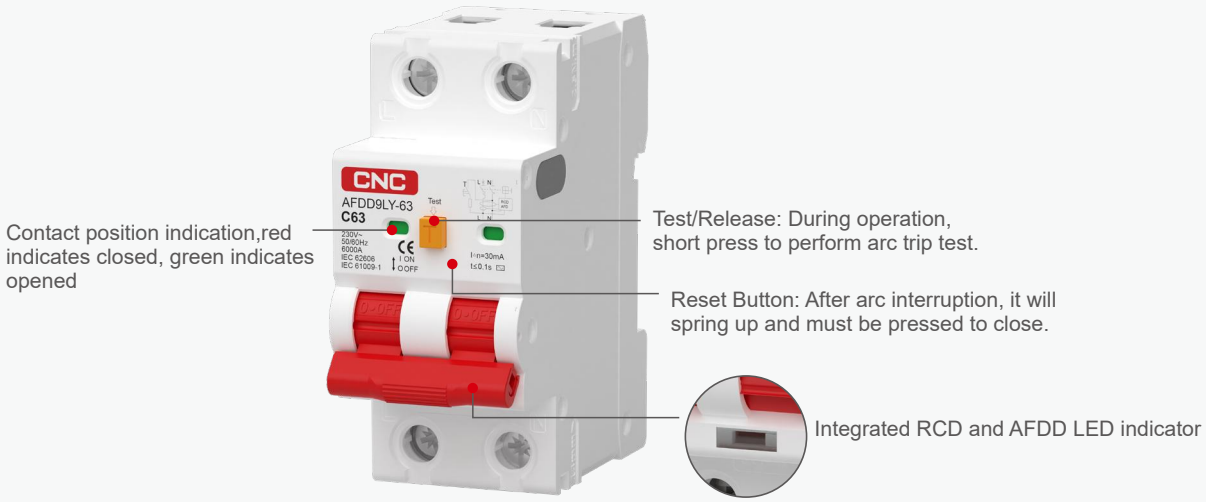
Fault Analysis and Troubleshooting of AFDD Arc Fault Protection Device can be found in Table 6.

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.

Final Distribution

AFDD9LY-63 Arc Fault Detection Device



General

The AFDD9LY-63 series Arc Fault Detection Device are assembled by residual current circuit breakers (RCBO) and arc detection modules. The AFDD9LY-63 Arc Fault Detection Device possess the functions of short-circuit protection, overload protection, residual current protection and arc-fault protection. They are suitable for being installed in branch circuits and can quickly cut off the circuits to play a protective role when overcurrent, short-circuit, leakage or arc-fault occurs in the branch circuits.

T key: Test key --- multi-function key

- Green light status: running status
  Press the “T key” and release it quickly(ote that it is the release trigger) to test the breaking function of the AFDD protector.
- Red light flashing state: arc fault alarm stat
  Pressing the “T key” will immediately cancel the alarm.

Set AFD detection mode:

When the green indicator is on, keep pressing the “T key” for about 3 seconds, the green indicator will go out, and it means entering the setting mode. Press the “T key” again, the green indicator will flash to indicate the current operating mode, and each press will switch once!
There are four operating modes:

- Flash once: Anti-interference mode
- Flashes twice: Low-sensitivity mode
- Flashes three times: standard mode
- Flashes four times: Enhanced mode (not intended for a specific application, not recommended)

The selected mode takes effect immediately, Wait for 10 seconds to automatically exit the setting mode, or you can long press the”T key” to exit immediately.

Type designation

AFDD 9 LY - 63

- 63 — Frame size rated current
- LY — Electronic RCBO
- 9 — Design number
- AFDD — Arc Fault Detection Device

Final Distribution

AFDD9LY-63 Arc Fault Detection Device

Maximum Protection

AFDD9LY-63 offers maximum protection against


Series arc faults


Earth arc faults


Short circuits


Parallel arc faults


Earth leakage faults

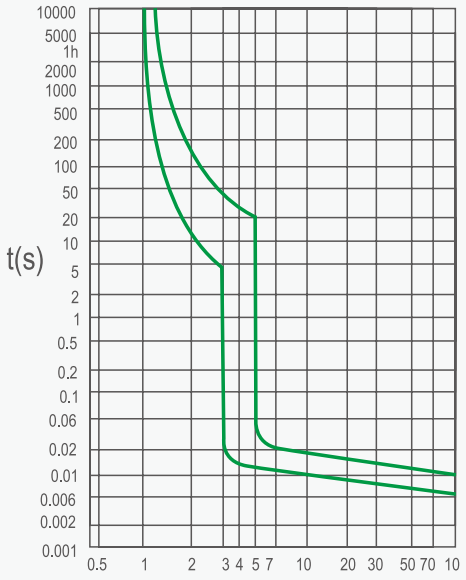

Overload

Technical data

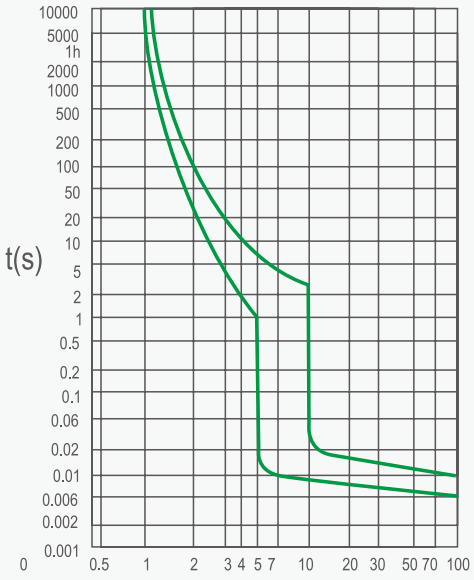
Content	Technical data
Rated voltage Ue,V	AC230/240
Approvals	CE
Rated frequency,Hz	50
Rated insulation voltage Ui , V	500
Rated impulse withstand voltage Uimp,V	4000
Rated current In, A	6, 10, 16, 20, 25, 32, 40, 50, 63
Number of poles	1P+N (N-pole disconnectable)
Instantaneous tripping type	B, C
Sensitivity I∆n, mA	10,30, 100
type of RCBO	AC, A
Rated short circuit breaking capacity Icn ,A	6000
Mechanical and electrical endurance,cycles	4000
Protection degree	IP20
Ambient temperature,°C	-25~+40
Standards	IEC 62606, IEC61009-1
RCD tripping type	Electronic

AFDD9LY-63 Arc Fault Detection Device

Tripping curves

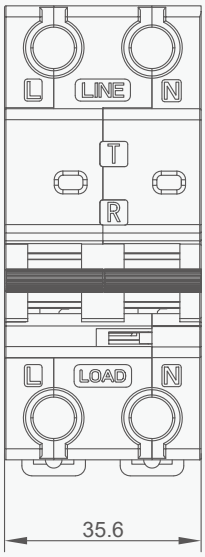


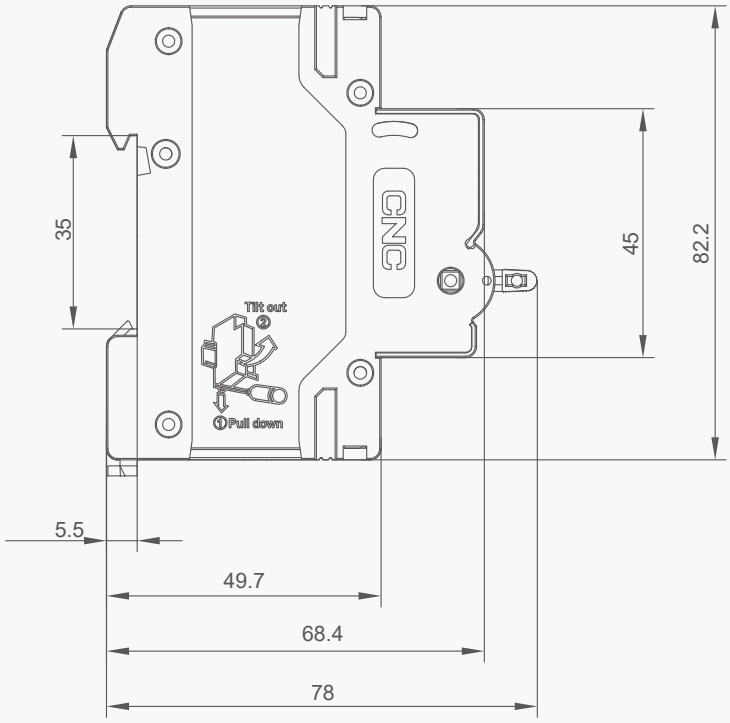
I/In
B curve



I/In
C curve

Overall and mounting dimensions(mm)





YCB9ZF-100AP/APE Smart Circuit Breaker



General

The YCB9ZF-100AP/APE is primarily suitable for power distribution circuits in smart meter measurement systems, photovoltaic grid-connected systems, industrial control equipment, residential and office buildings, street lighting control systems, nursing homes, cultural relic protection units, schools, hospitals, agriculture, and gardening. It is designed for circuits with an AC rated frequency of 50Hz, rated voltage not exceeding 440V, rated current not exceeding 100A, and short-circuit capacity not exceeding 10KA. It features remote control, manual switching, over-temperature protection, over-voltage/under-voltage protection, over-power protection, power measurement, overload protection, short-circuit protection, ground fault protection, and leakage protection.

It can also be used as a Gateway, which serves as a protocol converter—a complex network device that supports protocol conversion and enables interconnection between networks with different protocols.

Type designation

YC B 9 ZF - 100 APE 2P 63A RJ45+RS485

YC	B	9	ZF	-	100	APE	2P	63A	RJ45+RS485
Company code	Category Code	Design Serial Number	Smart Circuit Breaker		Frame Rating	Auxiliary Code	Number of poles	Rated Current	Communication Method
YC	B	9	ZF		100	AP: Automatic Reclosing; APE: With PE Line	2P	Preferred: 32,63,100; (Other specifications can be customized)	1.RS485 2.4G+RS485 3.Wifi+RS485 4.RJ485+RS485

Final Distribution

YCB9ZF-100AP/APE Smart Circuit Breaker

Product Features

1. Maintenance Safety Lock: Greatly ensures the personal safety of maintenance person.
2. Anti-Tampering Cover: Effectively prevents power theft and unauthorized wiring.
3. Independent Power Supply Design: Prevents system-wide failure and ensures continuous operation.
4. 1.3-inch OLED Display Design: Provides a more intuitive human-machine interface for maintenance personnel.
5. Modular Design: Flexible configuration through selective module combination.
6. High Precision: Voltage and current detection accuracy of Class 0.5, power measurement accuracy of Class 1.0.
7. Retains Characteristics of Miniature Circuit Breakers: Full functionality of a miniature circuit breaker.
8. Flexible Communication Options: Can also be used as a gateway.
9. Selectable Protection Modes: Functions can be flexibly set to Off, Alarm, or Trip.
10. Multiple Remote Upgrade Modes: Facilitates user maintenance and upgrades.
11. Power-Off Protection Design: Ensures data retention and upload when the main circuit is powered off.
12. Automatic Fault and Event Analysis: Displays logs for easy maintenance and troubleshooting.
13. Timing Switch Function: Ensures scheduled equipment operation and energy conservation.
14. Comprehensive Protection Functions: Protects against load imbalance, phase loss, phase reversal, and over-temperature, safeguardin equipment, preventing circuit aging, and ensuring power safety.
15. Sensitive Leakage Protection: Adjustable leakage protection values according to environmental requirements.

Specifications and Parameters

1. Standard modular design, available in 2P and 4P configurations.
2. Working voltage: Single-phase AC230V / Three-phase 415V, 50/60Hz.
3. Rated current: 32A, 63A, 100A.
4. Short-circuit breaking capacity: Icn = Ics = 6KA (10KA for 63A and below).
5. Leakage trip current: 0-500mA adjustable, trip time <0.1s.
6. Mechanical life: >15,000 operations; Electrical life: >6,000 operations.
7. Working temperature: -40~70° C.
8. Network protocols: TCP/DNS/HTTP/FTP.
9. Supported frequency bands: FDD-LTE (China Unicom 4G), TD-LTE (China Mobile 4G), FDD-LTE (China Telecom 4G).
10. RS485: Supports 9600bps-38400bps.
11. Supports 16-channel data acquisition.
12. Main versions by communication method:
    a) 4G+RS485;
    b) RJ45+RS485.
    c) RS485;

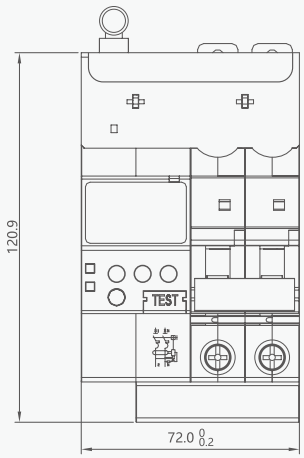
Note: Customized solutions are available for special requirements.

YCB9ZF-100AP/APE Smart Circuit Breaker

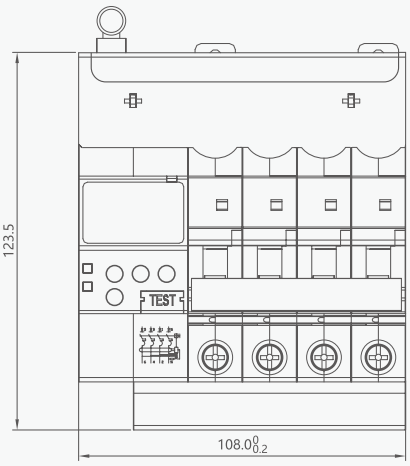
A

Outline and installation dimensions(mm)

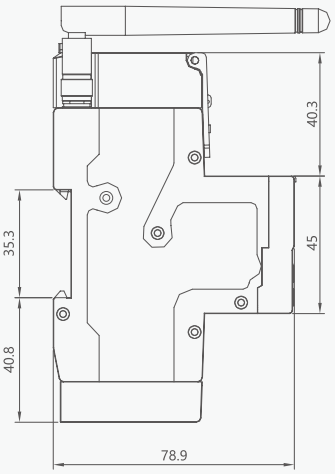
YCBZF-100AP

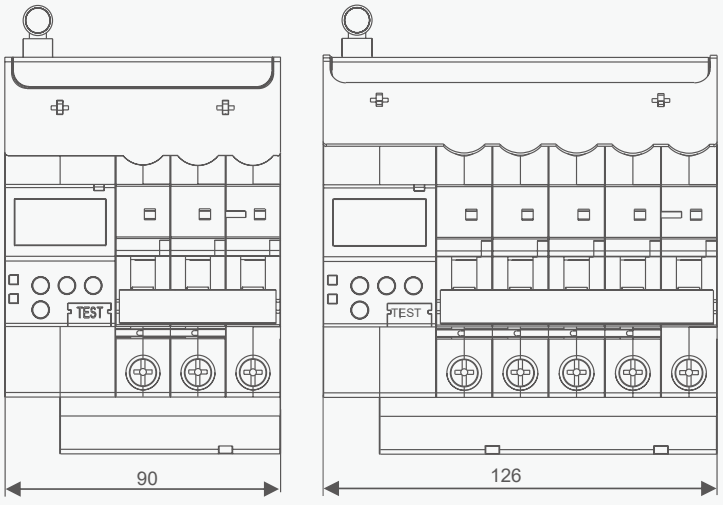


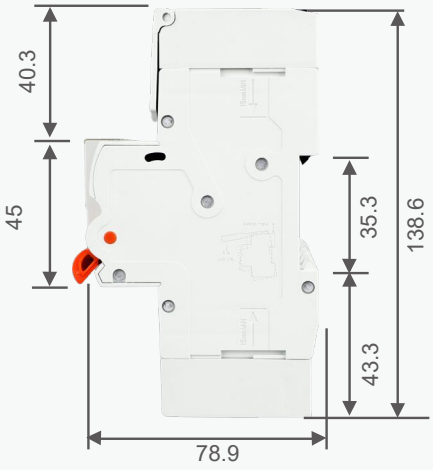
YCBZF-100AP-2P



YCBZF-100AP-4P





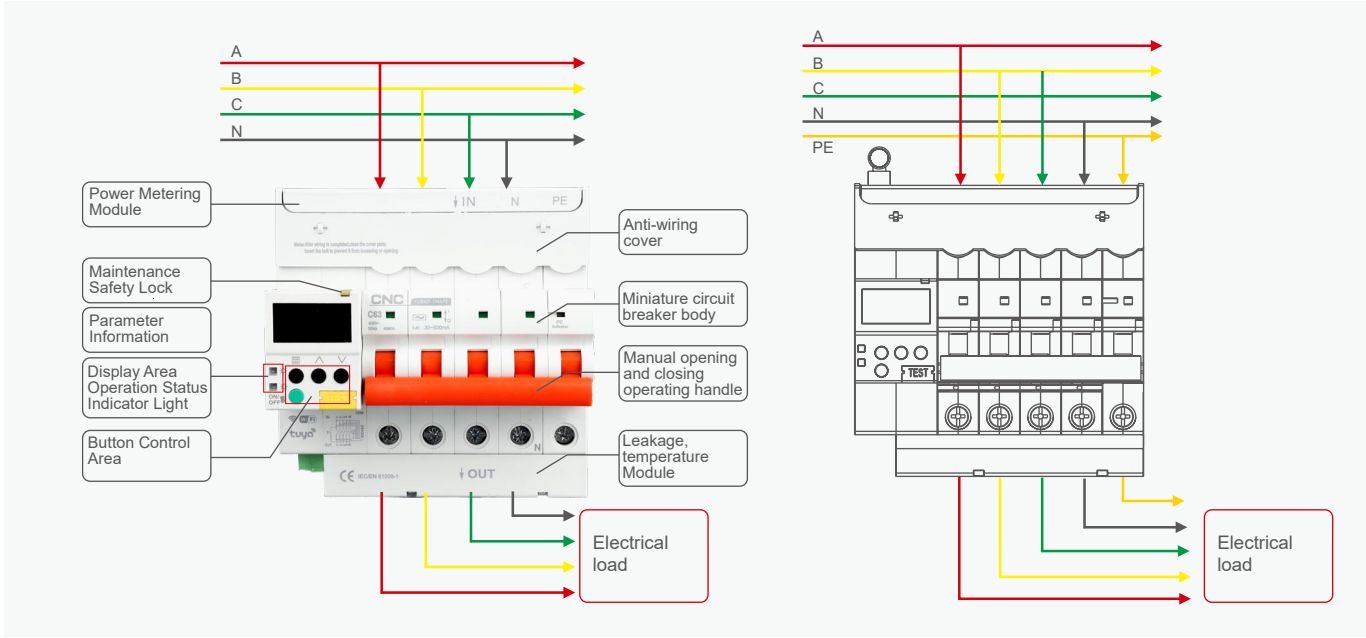


YCB9ZF-100APE

Final Distribution

YCB9ZF-100AP/APE Smart Circuit Breaker

Wiring and Operation Panel Description



Notes:

1. Please check whether the SIM card is inserted before installation;
2. Do not install with power on, the wiring must be reliable;
3. When tightening the screws, pay attention to whether the front and rear modules are loose;

Technical data

Parameters

Item	YCB9ZF-100AP-2P	YCB9ZF-100AP-4P	YCB9ZF-PE-2P	YCB9ZF-PE-4P
Standards	IEC/EN61009-1, IEC/EN63024	IEC/EN61009-1, IEC/EN63024	IEC/EN61009-1, IEC/EN63024	IEC/EN61009-1, IEC/EN63024
Dimensions (L×W×H)	121×72×79mm	123.5×108×79mm / 121×90×79mm	121*90*79mm	123.5×126×79mm
Rated Voltage	230V	400V	230V	400V
Rated Current Ratings	32A, 63A, 100A	32A, 63A, 100A	32A, 63A, 100A	32A, 63A, 100A
Short-Circuit Protection Characteristic	C	C	C	C
Short-Circuit Breaking Capacity	6000A	6000A	6000A	6000A
Leakage Trip Time	<0.1s	<0.1s	<0.1s	<0.1s
Mechanical Life	>10,000 operations	>10,000 operations	>10,000 operations	>10,000 operations
Electrical Life	>6,000 operations	>6,000 operations	>6,000 operations	>6,000 operations
Protection Class	IP20	IP20	IP20	IP20
Operating Temperature	-40~70°C	-40~70°C	-40~70°C	-40~70°C
Mounting Method	35mm standard rail	35mm standard rail	35mm standard rail	35mm standard rail
Switching Method	Manual or remote switching	Manual or remote switching	Manual or remote switching	Manual or remote switching
Wiring Capacity	25mm²	25mm²	25mm²	25mm²
Parameter Setting Method	Local + remote	Local + remote	Local + remote	Local + remote
Communication Methods	4G (RJ45) + RS485	4G (RJ45) + RS485	4G (RJ45) + RS485	4G (RJ45) + RS485

Final Distribution

YCB9ZF-100AP/APE Smart Circuit Breaker

Function Description

Item	YCB9ZF-100AP-2P	YCB9ZF-100AP-4P	YCB9ZF-PE-2P	YCB9ZF-PE-4P
PE Wire Fault Alarm	None	None	Local audible-visual alarm + remote	Local audible-visual alarm + remote
Load Water Ingress Alarm	None	None	Local audible-visual alarm + remote	Local audible-visual alarm + remote
Current Setting	Local + remote	Local + remote	Local + remote	Local + remote
Overload Delay Protection	Local + remote	Local + remote	Local + remote	Local + remote
Leakage Trip Current	Local + remote	Local + remote	Local + remote	Local + remote
Over-Voltage Protection Value	Local + remote	Local + remote	Local + remote	Local + remote
Over-Voltage Delay	Local + remote	Local + remote	Local + remote	Local + remote
Over-Voltage Function	Local + remote	Local + remote	Local + remote	Local + remote
Under-Voltage Protection Value	Local + remote	Local + remote	Local + remote	Local + remote
Under-Voltage Delay	Local + remote	Local + remote	Local + remote	Local + remote
Under-Voltage Function	Local + remote	Local + remote	Local + remote	Local + remote
Over-Temperature Protection Value	Local + remote	Local + remote	Local + remote	Local + remote
Over-Temperature Delay	Local + remote	Local + remote	Local + remote	Local + remote
Over-Temperature Function	Local + remote	Local + remote	Local + remote	Local + remote
Power Limit Value	Local + remote	Local + remote	Local + remote	Local + remote
Power Limit Delay	Local + remote	Local + remote	Local + remote	Local + remote
Power Limit Function	Local + remote	Local + remote	Local + remote	Local + remote
Phase Loss Protection	None	Yes	None	Yes
Power Metering	Yes	Yes	Yes	Yes

Setting Menu Operation Instructions

1. Press Setting / Confirm to enter the menu and prompt for a password. The factory default password is “0000”. To set or change the password, follow the cursor prompts, use the UP / DOWN Confirm the number you need to enter,then press Confirm . Perform the same operation for the next few digits.
2. After entering the correct password, access five submenus: Parameters, Records, Functions, Maintenance, and About. Use the UP / DOWN keys to select Setting / Confirm to enter. Adjust parameters or view information as needed.
3. To exit after setting or viewing parameters, press Back / Mute .
4. Press UP / DOWN directly to check electrical parameters.

Menu Descriptions

Parameters: Set values for over/under voltage, leakage current, temperature, power, etc.

Records: View switch event logs (e.g., fault causes, operations).

Communication: Configure communication methods (e.g., Wi-Fi, MQTT, RS485), baud rate, and device type.

Functions: Set protection modes (Off, Alarm, Trip) for switch functions.

Display: Switch between Chinese and English displays.

Counts: Query operation counts for different switch states.

Maintenance: Perform maintenance tasks (e.g., restore factory settings, network mode, reboot).

About: View software version, communication module IMEI, SIM card number, etc.

YCB9ZF-100AP/APE Smart Circuit Breaker

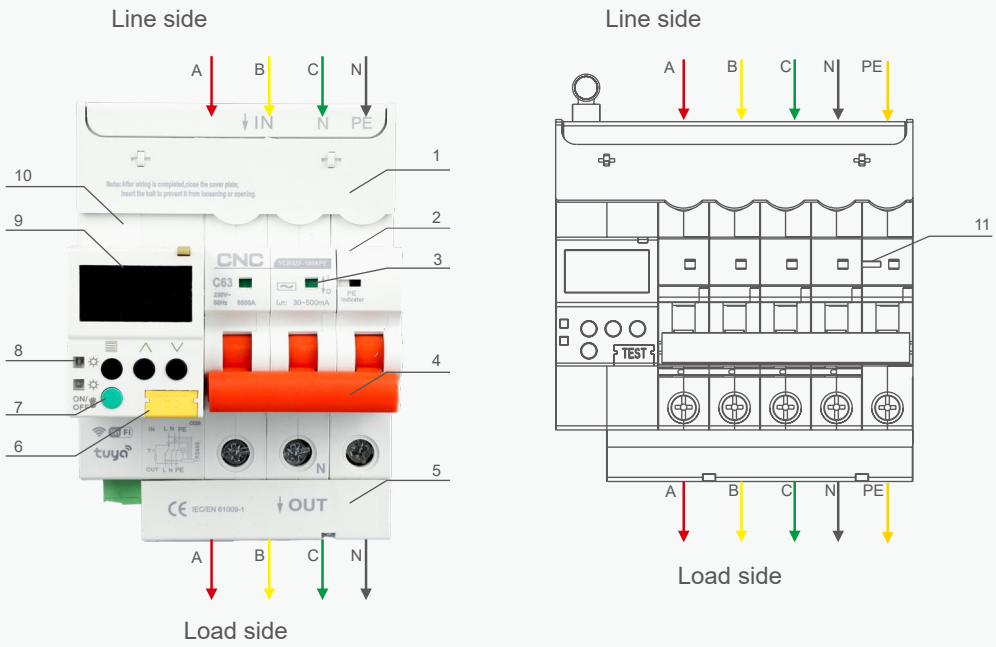
Adjustable Parameters and Functions

Item	Parameters	Functions
Over-Voltage	Range: 250~320V	-
Over-Voltage Delay	Range: 0~99s	-
Over-Voltage Protection	-	Off / Alarm / Trip
Under-Voltage	Range: 150~200V	-
Under-Voltage Delay	Range: 0~99s	-
Under-Voltage Protection	-	Off / Alarm / Trip
Set Current	Range: 0~100A	-
Overload Delay	Range: 0~99s	-
Overload Protection	-	Off / Alarm / Trip
Over-Power Value	20W	-
Over-Power Delay	Range: 0~99s	-
Over-Power Protection	-	Off / Alarm / Trip
Leakage Setting	30mA, 50mA, 100mA	-
Leakage Protection	-	Alarm / Trip
Water Ingress Duration	Range: 5~995s	-
Temperature Threshold	Range: 60~120° C	-
Temperature Delay	Range: 0~99s	-
High-Temperature Protection	-	Off / Alarm / Trip
Phase Loss Setting	Range: 30~100V	-
Phase Loss Delay	Range: 0~99s	-
Phase Loss Protection	-	Off / Alarm / Trip
Water Ingress Protection	-	Alarm / Trip
PE Open Circuit Protection	-	Off / Alarm / Trip
Pre-Warning Function	-	Off / On
Alarm Enable	-	Off / On

YCB9ZF-100AP/APE Smart Circuit Breaker

A

Adjustable Parameters and Functions



1. Cover: Prevents improper wiring.
2. Circuit Breaker Body: Controls current on/off and provides short-circuit/overload protection.
3. Contact Indicator: Shows breaker status (Red: Open, Green: Closed).
4. Operation Handle: Manually switches the breaker on/off.
5. Metering & Leakage Detection Module: Detects current, voltage, leakage signals, and terminal temperature.
6. Leakage Test Button: Tests leakage function monthly. Press to check if the breaker trips (indicates normal function).
7. Setting Buttons:
   - Setting/Confirm: Function Press this key to enter the menu; press this key again to confirm the input after setting the parameters;
   - UP: Press this key once and the cursor will jump up one line; enter the setting state, each press will increase the number;
   - DOWN: Press this key once and the cursor will jump down one line; enter the setting state, each press will decrease the number;
   - Back/Mute: In the setting or viewing state, press this key once to return to the previous menu; if the switch is in the fault sound alarm state, press this key to eliminate the alarm sound;
8. Status Indicator Lights: Show switch status, communication, faults, and SIM card connection.
9. LCD Display: Provides human-machine interface for information display.
10. Control Unit: Manages breaker switching and electrical parameter acquisition.
11. PE Indicator: Green light indicates normal PE connection; no light + alarm for PE disconnection (display shows "PE Line Open Alarm").

YCB9ZF-100AP/APE Smart Circuit Breaker

Installation Notes

1. Inlet and outlet wires must not be reversed.
2. After installation, verify correct wiring, especially ensuring N and PE are not misconnected.
3. The leakage function of YCB9ZF-PE cannot be turned off. The recommended leakage setting is 30mA (adjustable per application).
4. For network-enabled models, download the APP and scan the QR code on the product.
5. RS485 is a standard communication port; use an RS485-to-USB converter to connect with computers or devices for data exchange.
6. Default baud rate: 38400bps (configurable in the communication menu).
7. 4G models require a SIM card for remote control and data interaction.
8. Installation and debugging must be performed by qualified electricians.
9. Customization is available upon request; contact technical support.
10. For special applications, consult the manufacturer via the service hotline.

Troubleshooting

1. No Response to Remote Control:
2. Check if the double-headed arrow is not displayed on the main interface. The SIM card may be in arrears, loose or damaged. Enter the menu and check the SIM code (20-digit code). If you can check it, it proves that the card is in arrears. Operation method: recharge the traffic according to the operator to activate it. If you can't check it, open the cover of the SIM card insertion, take it out again (push the SIM card inwards and release it, the card will pop out) and then insert it. If you can check the card number, it proves that the card is loose and has poor contact. If you still can't check it, it proves that the card is broken and you need to replace the SIM card.
3. Check whether the 485 symbol is displayed on the main interface. If not, check whether the RS485 interface is loose.
4. If the sub-device under the control does not respond, check whether the device is online? If not, re-configure the network. If the network configuration fails, there may be a problem with the device, and it needs to be disassembled for inspection or repair;

YCB9ZF-100W Smart Circuit Breaker



YCB9ZF-100W(WIFI)



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

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 and control 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-100W Smart Circuit Breaker

Technical data

Item	YCB9ZF-100W
Product	
Poles	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.

Final Distribution

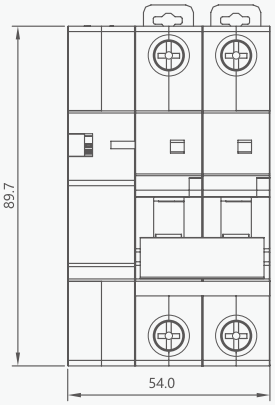
YCB9ZF-100W Smart Circuit Breaker

Technical data

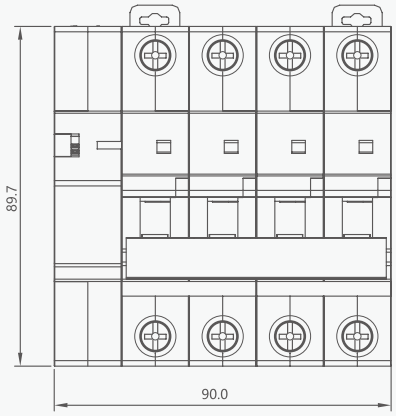
Item	Data
YCB9ZF-100W	
Thermo-magnetic release characteristic	C type (Other types can be customized)
Rated current In	16A,20A,25A,32A,40A,50A,63A,80A,100A
Rated short-circuit capacity Icn	6kA
Short-circuit protection	When there is short circuit fault, it can trip within 100ms
Over and under voltage protection	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

YCB9ZF-100W Smart Circuit Breaker

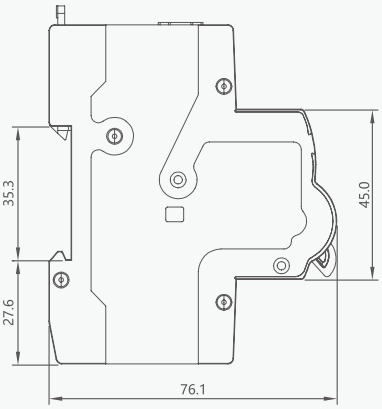
YCBZF-100W-4P

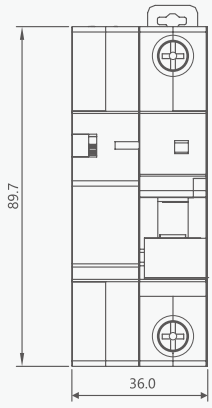


YCBZF-100W-2P

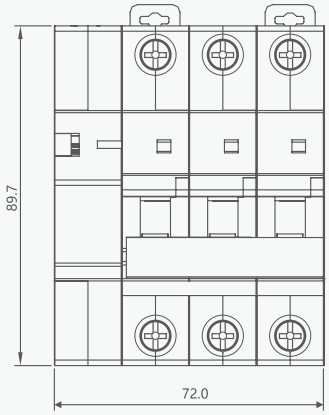


YCBZF-100W-4P





YCBZF-100W-1P



YCBZF-100W-3P

Final Distribution

YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker



General

YCB9LZF-80AP series IoT miniature circuit breakers are used in low-voltage terminal distribution networks in industrial, commercial, civil and infrastructure fields in indoor buildings and similar places. IoT miniature circuit breakers are used with intelligent gateways to monitor key electrical parameters of power lines, such as voltage, current, power, temperature, leakage, energy consumption, etc. in real time, and have functions such as remote control, abnormal warning, accident tripping alarm, power metering statistics, and fault location.

Type designation

YC B 9 L ZF - 80 AP 2P 32A DC RS485

YC	B	9	L	-	ZF	80	AP	2P	32A	DC	RS485
Company code	Category Code	Design Serial Number	Leakage Protection Function		Smart Circuit Breaker	Frame Rating	Auxiliary Code	Number of poles	Frame Rating	Voltage Type	Communication Method
YC	B	9	With leakage protection; Absence indicates no leakage protection		ZF	Frame Rating 80A (Note: For DC or AC type products, 1P/2P can be 100A)	AP: Automatic Reclosing; BZ: Semi - automatic	2P	Frame Rating 80A (Note: For DC or AC type products, 1P/2P can be 100A)	AC type (can be omitted); DC type	1、S485 2、4G 3、Wifi

YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker

Function parameters

NO.	Protection Function	Trip Type	YCB9ZF-80AP				YCB9LZF-80AP			Parameter Setting	Setting Value	Factory Default Value
			1P	2P	3P	4P	2P	3P	4P			
1	Overvoltage Protection	Off/Alarm/ Trip	Trip	Trip	Trip	Trip	Trip	Trip	Trip	Overvoltage Setting	250-350V	280V
										Overvoltage Delay	0-10S	3s
2	Undervoltage Protection	Off/Alarm/ Trip	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Undervoltage Setting	110-200V	165V
										Undervoltage Delay	0-10S	3s
3	Phase Loss Protection	Off/Alarm/ Trip	/	/	Off	Off	/	Off	Off	Phase Loss Setting	10-100V	30V
										Phsase Loss Delay	0-10s	5s
4	Overload Protection	Off/Alarm/ Trip	Trip	Trip	Trip	Trip	Trip	Trip	Trip	Overload Setting	0.6In-In	In
										Overload Delay	0-10s	3s
5	High Temperature Protection	Off/Alarm/ Trip	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	High Temperature Setting	60-100°C	80°C
										High Temperature Delay	0-10s	5s
6	Early Warning Function	Off/On	On	On	On	On	On	On	On	Early Warning Proportion	90-100%	95%
7	Alarm Enable	Off/On	On	On	On	On	On	On	On	-----	-----	-----
8	Overpower Protection	Off/Alarm/ Trip	Off	Off	Off	Off	Off	Off	Off	Overpower Value	50W-50kW	2kW
										Overpower Delay	0-10s	5s
9	Underpower Protection	Off/Alarm/ Trip	Off	Off	Off	Off	Off	Off	Off	Underpower Value	50W-50kW	2kW
										Underpower Delay	0-10s	5s
10	Timing Control	Off/Setting	Off	Off	Off	Off	Off	Off	Off	-----	-----	-----
11	Automatic Closing	Off/On	Off	Off	Off	Off	Off	Off	Off	-----	-----	-----
12	Leakage Protection	Off/Alarm/ Trip	/	/	/	/	Trip	Trip	Trip	Leakage setting value	30~500mA	100mA
										No driving time	-/0.06/0.1/0.2s	-
13	Manual-automatic Integrated Control		Yes	Yes	Yes	Yes	Yes	Yes	Yes	-----	-----	-----
14	Mechanical Maintenance Lock		Yes	Yes	Yes	Yes	Yes	Yes	Yes	-----	-----	-----

- “/” means no function
- “---” means no parameter
- Trip type notes:

Off: turn off this function, when the protection action value is reached, the product does not protect; Alarm: when the protection action value is reached, the product only alarms but does not trip;

Trip: when the protection action value is reached, the product trips.

Final Distribution

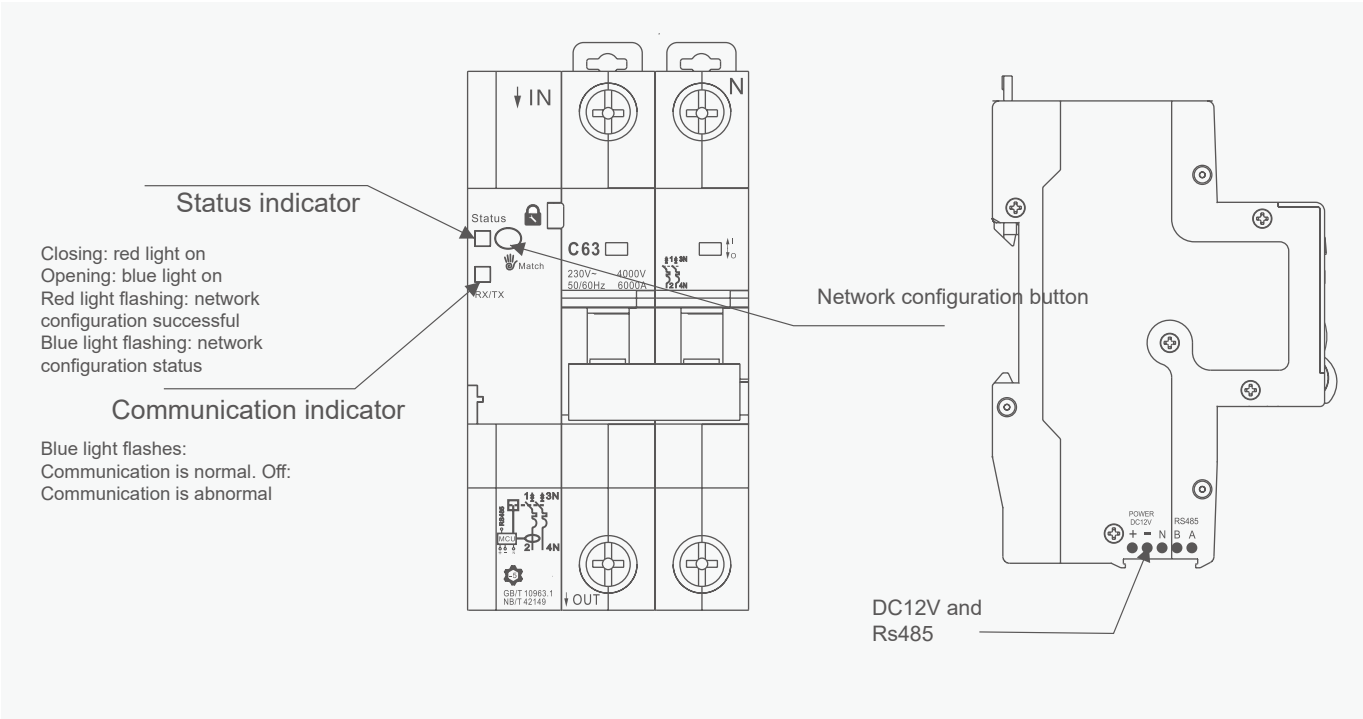
YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker

Technical Data

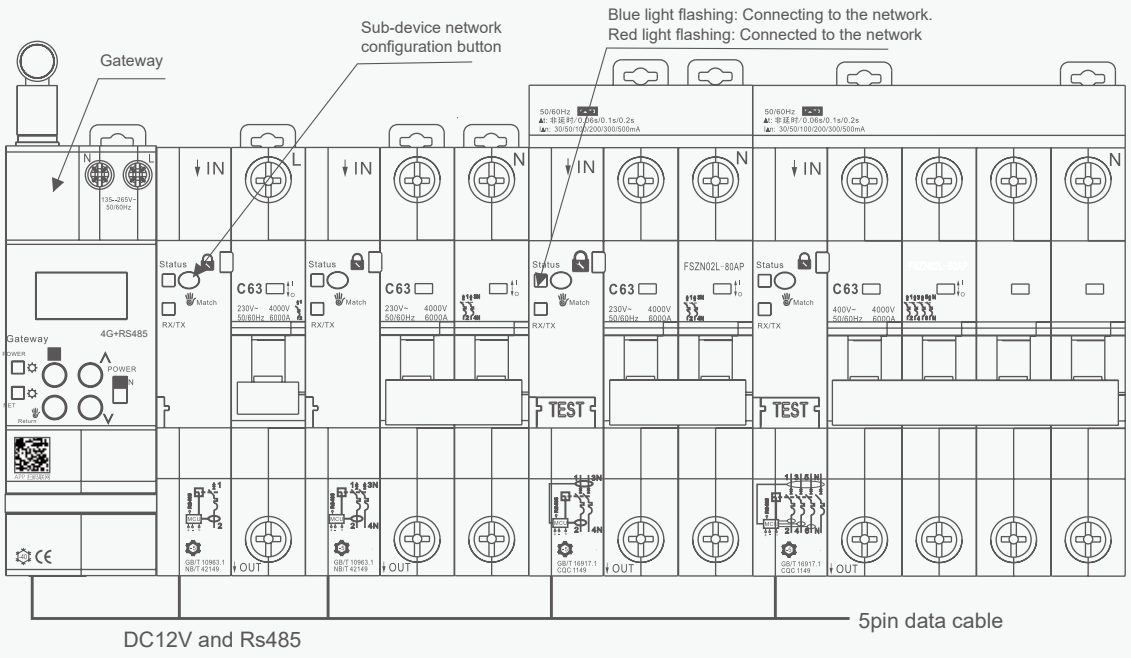
Item	Product Model	
	YCB9ZF - 80	YCB9LZF - 80
Compliance Standard	IEC/EN60898 - 1	IEC/EN60898 - 1, IEC/EN61009 - 1
Number of Poles	1P, 2P, 3P, 4P	2P, 3P, 4P
Rated Voltage	Single - phase AC230V, Three - phase AC400V 50/60Hz	Single - phase AC230V, Three - phase AC400V 50/60Hz
Rated Current	20A, 32A, 63A, 80A (1P/2P can be customized up to 100A)	20A, 32A, 63A, 80A
Tripping Type	Type C (other types can be customized)	
Short - circuit Breaking Capacity	Common type: Icu = Ics = 6kA; H type: Icu = 10kA, Ics = 7.5kA	
Mechanical Life	For 1P/2P > 20000 times, for 3P, 4P > 12000 times	
Electrical Life	> 6000 times	
Closing Time	< 1.5s	
Opening Time	< 1.0s	
Measurement Accuracy	1.0	
Leakage Tripping Value	- - - - - -	30, 50, 100, 200, 300, 500mA optional

Operation button description

RS485 interface and network configuration description



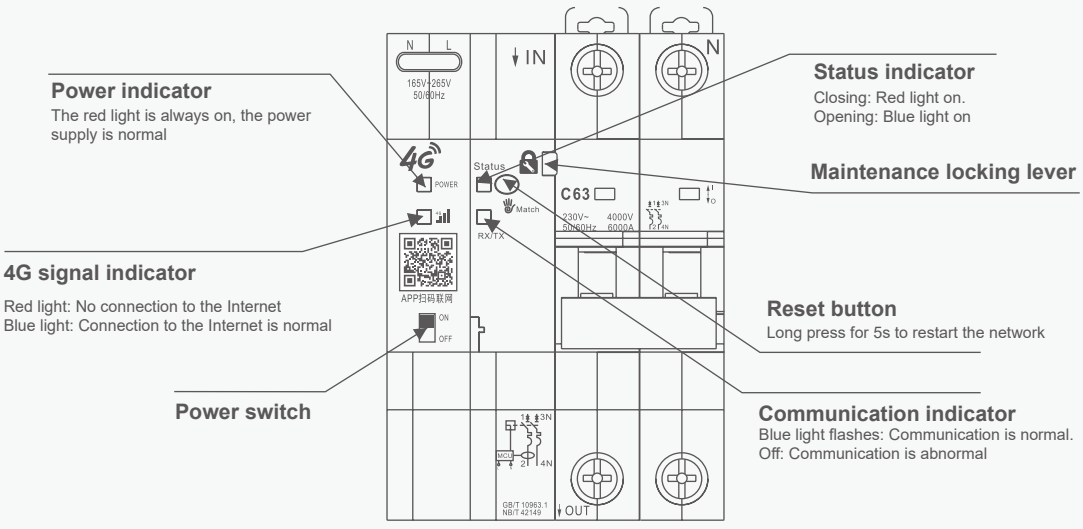
YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker



Note: The gateway can pair up to 16 sub-devices

1. Enter the gateway network configuration mode (host mode), the sub-device "Status" indicator light flashes blue, and enters the network confi guration state;
2. Press the sub-device network configuration button to configure the network.The current sub-device is paired successfully, and the sub-de vice"Status"indicator light flashes red;
3. Pair sub-devices in sequence;
4. After all sub-devices are paired, press the gateway "Menu" button to confirm, exit the network configuration mode, and the network configu ration is completed.
5. Scan the QR code on the APP to add a device

4G interface and network configuration instructions

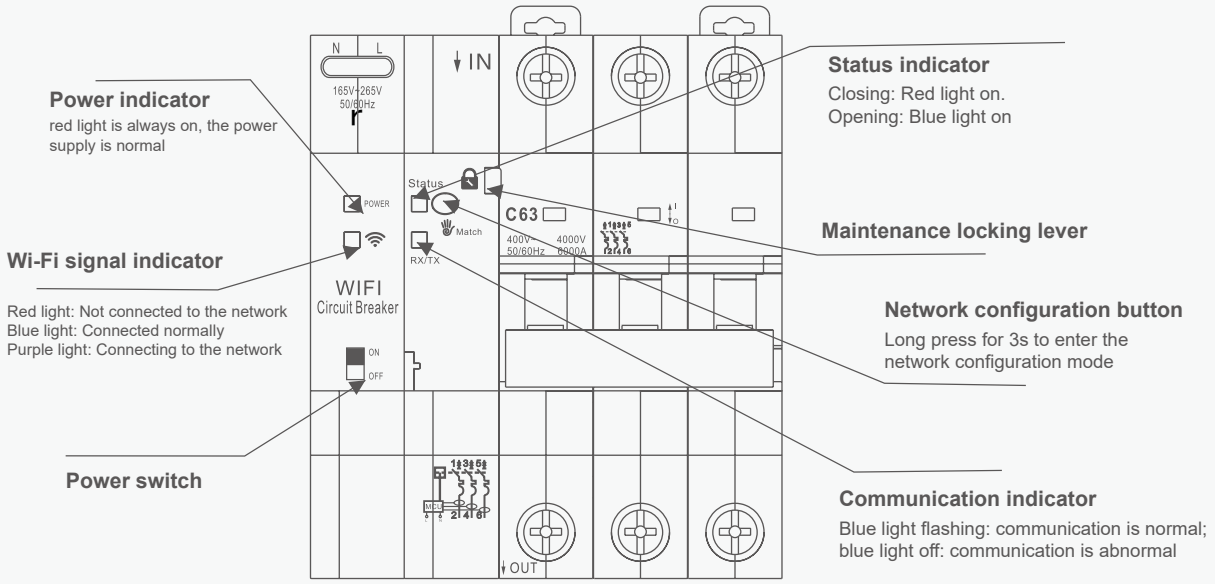


4G products can be added by scanning the QR code directly on the APP

YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker

A

Wi-Fi product interface and network configuration instructions

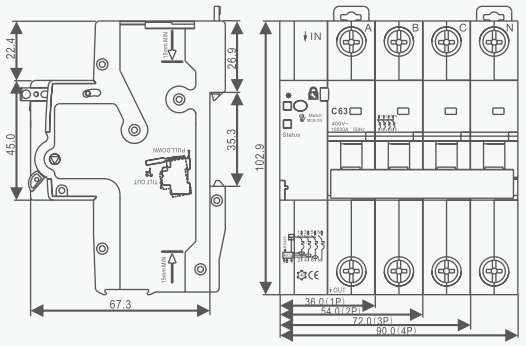


Wi-Fi products can be directly configured and added in the corresponding APP

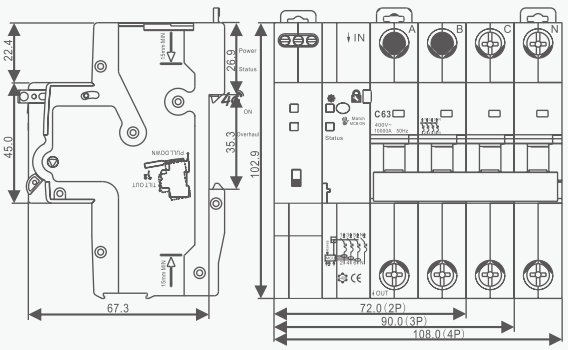
Installation and wiring

Installation Dimensions

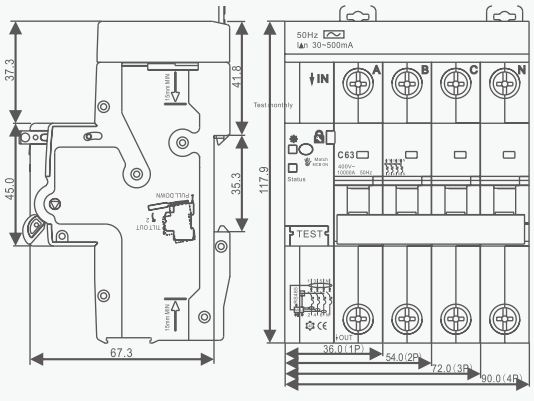
YCB9ZF-80AP Rs485



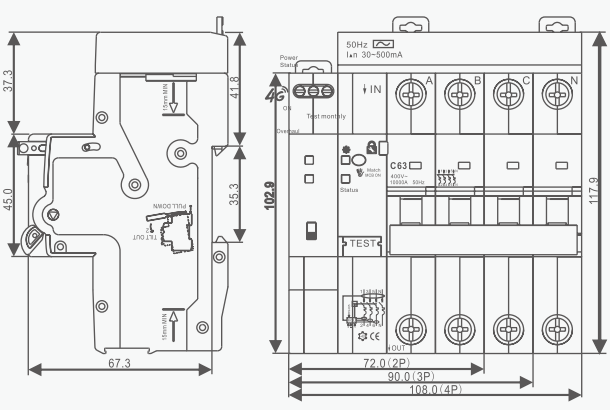
YCB9ZF-80AP 4G/WIFI(ESP)



YCB9LZF-80AP Rs485



YCB9LZF-80AP 4G/WIFI(ESP)



YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker

Product Installation

1. The device is suitable for standard 35mm rail installation. When installing, just clip the device into the rail and fix it with a buckle.
2. According to the actual power distribution management and line laying design requirements, select and use the IoT module and the specifications of the electrical box that meet the needs, and install them in the order of the modules shown in the figure. Each module is connected with a 5PIN data cable specially made by the manufacturer.
3. The circuit breaker should be installed vertically. When the handle is in "/OFF", the contact is in the disconnected state. When the handle moves upward, the contact moves in the closing direction;
4. The nominal cross-sectional area of the copper wire for connection that matches the rated current of the circuit breaker is shown in the table below.

Rated current(A)	10	16~20	25	32	40~50	63	80
Wire cross-sectional area (mm²)	1.5	2.5	4	6	10	16	25
Torque(N.m)	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Transportation and storage

Transportation

During the transportation of the product, it should be prevented from the invasion and mixing of water, rain, snow or other chemical solvents, corrosive liquids and other harmful liquids; prevent strong collision and extrusion between objects; stack according to the direction indicated on the package, and the number of stacking layers can be seen from the outer box of the packaging.

Storage

- Storage environment conditions: ambient temperature -10°C+45°C;
- Relative humidity ≤90% (when the ambient temperature is +20°C);
- The storage location should be free of dust and conductive dust;
- No corrosive, flammable and explosive gases, no rain and snow invasion;
- Dry and well ventilated;
- Stack according to the direction indicated on the package, and the stacking should not be higher than the number marked on the outer box.

Product use and precautions

1. This product has RS485 as a standard communication port, which can be connected to computers and other communication devices through RS485 to USB converter to achieve information exchange and control.
2. The default baud rate of the device is 9600bps, and the required baud rate can be viewed and set through the PC.
3. Product installation and commissioning must be carried out by professional electricians.
4. This product can be customized according to user needs, please contact relevant technicians for details.

Final Distribution

YCB9NZF-40 Smart Circuit Breaker



General

YCB9NZF-40 series IoT miniature circuit breakers are used in low-voltage terminal distribution networks in industrial, commercial, civil buildings and infrastructure in indoor buildings and similar places. IoT miniature circuit breakers are used in conjunction with intelligent gateways to monitor key electrical parameters of power lines, such as voltage, current, power, temperature, leakage, energy consumption, etc.In real time, and have functions such as remote control, abnormal warning, accident tripping alarm, power metering statistics, and fault location.

Type designation

YC B 9N ZF - 40 AP 1P+N 20A RS485 AC

YC	B	9N	ZF	-	40
Company code	Category Code	Design Serial Number	Smart Circuit Breaker		Frame Rating
YC	B	9N	ZF		40

AP	1P+N	20A	RS485	AC
Auxiliary Code	Number of poles	Rated Current	Communication Method	Residual Current Protection Type
AP: Automatic Reclosing; BZ: Semi - automatic; APE: With PE Line	1P+N	Preferred: 20, 40; (Other specifications can be customized)	1.RS485 2.Wifi	AC Type, A Type, B Type

YCB9NZF-40 Smart Circuit Breaker

Function parameters

Serial Number	Protection Function	Tripping Type	Factory Default Value	Parameter Setting	Setting Value	Factory Default Value for Setting
1	Over - voltage Protection	Off/Alarm/Trip	Trip	Over - voltage Setting	250 - 350V	280V
				Over - voltage Delay	0 - 10s	3s
2	Under - voltage Protection	Off/Alarm/Trip	Alarm	Under - voltage Setting	110 - 200V	165V
				Under - voltage Delay	0 - 10s	3s
3	Overload Protection	Off/Alarm/Trip	Trip	Overload Setting	0.6In - In	In
				Phase - failure Delay	0 - 10s	3s
4	High - temperature Protection	Off/Alarm/Trip	Alarm	High - temperature Setting	60 - 100°C	80°C
				High - temperature Delay	0 - 10s	5s
5	Pre - warning Function	Off/On	On	Pre - warning Proportion	90 - 100%	95%
6	Alarm Enable	Off/On	On	---	---	---
7	Over - power Protection	Off/Alarm/Trip	Off	Over - power Value	5 - 50kW	2kW
				Over - power Delay	0 - 10s	5s
8	Under - power Protection	Off/Alarm/Trip	Off	Under - power Value	5 - 50kW	2kW
				Under - power Delay	0 - 10s	5s
9	Timing Control	Set/Off	Off	---	---	---
10	Automatic Closing	Off/On	Off	---	---	---
11	Leakage Protection	Off/Alarm/Trip	Trip	Leakage Setting Value	30 - 100mA (AC type), 30mA (A type/B type)	30mA
				Non - actuation Time	~0.06s (AC type), 0 - 0.2s (A type/B type)	---
12	Leakage Self - check		Yes (A type/B type)	--------		
13	Manual - Automatic Integrated Control		Yes	--------		

- “/” means no function, “---” means no parameter
- Trip type notes:

Off: turn off this function, when the protection action value is reached, the product will not protect;

Alarm: when the protection action value is reached, the product will only alarm but not trip;

Trip: when the protection action value is reached, the product will trip.

Final Distribution

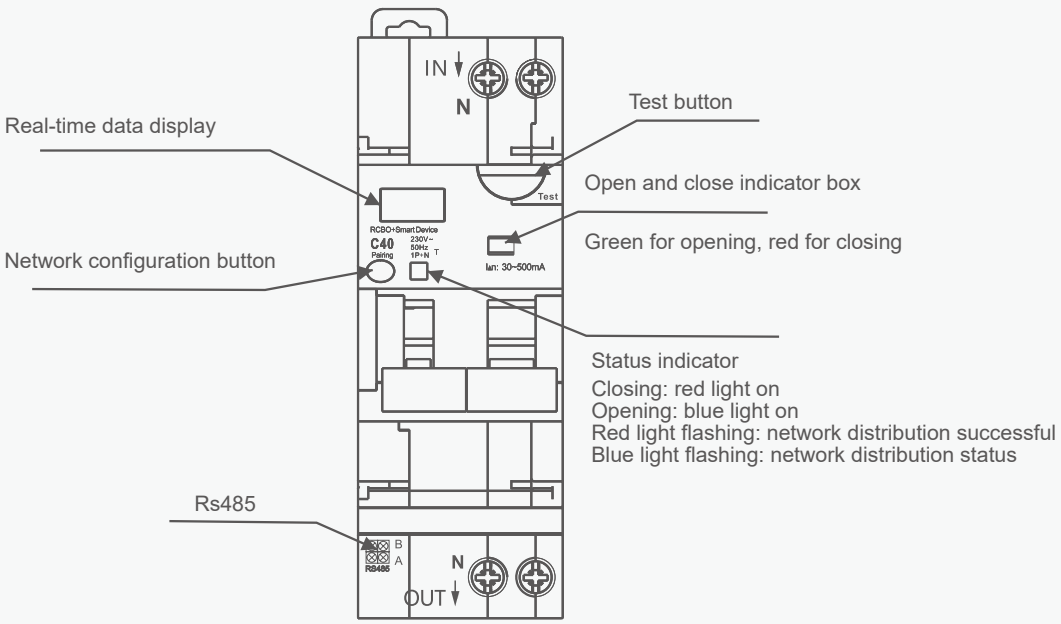
YCB9NZF-40 Smart Circuit Breaker

Technical Data

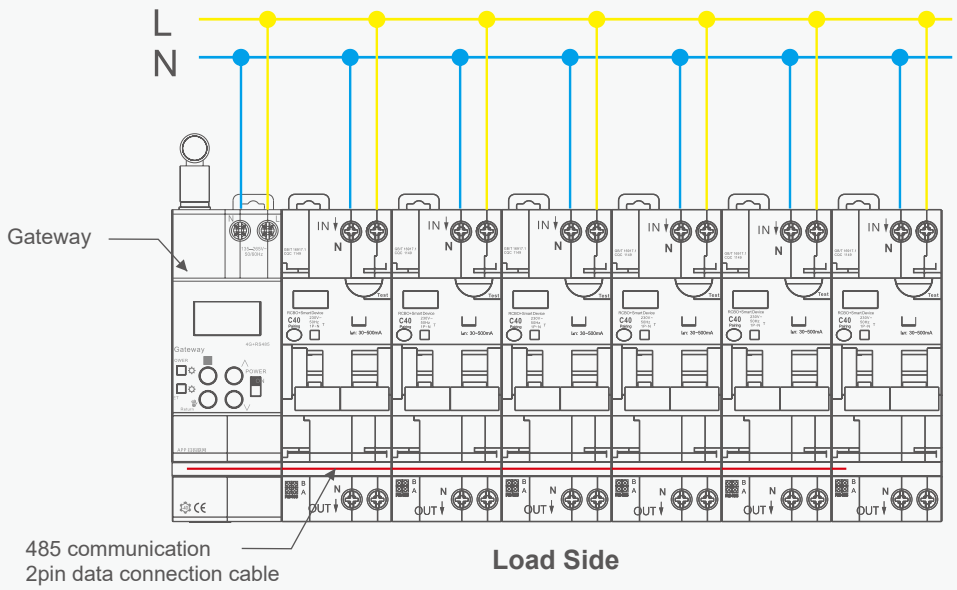
Item	Product Model
Standards Complied with	IEC/EN3024, IEC/EN61009 - 1
Number of Poles	1P+N
Rated Voltage	Single - phase AC230V, 50Hz
Rated Current	20A, 40A (Other specifications can be customized)
Tripping Type	C type (Other types can be customized)
Short - Circuit Breaking Capacity	Icu = Ics = 6kA
Mechanical Life	>15000 operations
Electrical Life	>6000 operations
Closing Time	<1.5s
Opening Time	<1.0s
Metering Accuracy	1.0
Leakage Trip Value	(30 - 100mA) AC type, 30mA (A type), 30mA (B type)

Operation button description

RS485 interface and network configuration description



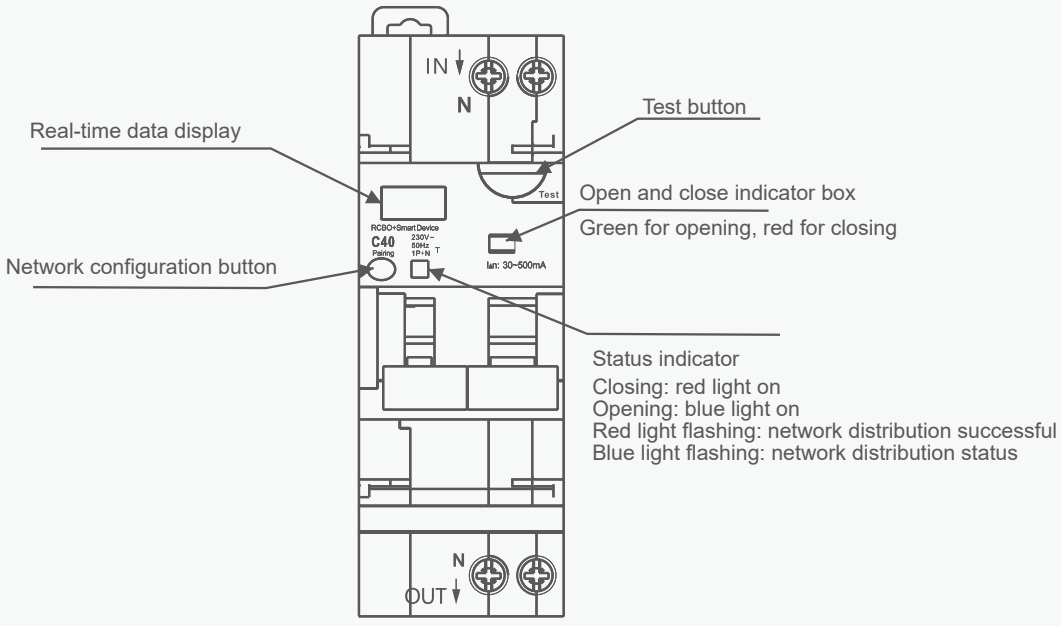
YCB9NZF-40 Smart Circuit Breaker



Note: The gateway can pair up to 16 sub-devices

1. Enter the gateway network configuration mode (host mode), the sub- device indicator light flashes blue, and enters the network configuration state;
2. Press the sub-device network configuration button to configure the network. The sub-device indicator light flashes red when the current sub-device is successfully paired;
3. Pair sub-devices one by one;
4. After all sub-devices are paired, press the gateway “Menu” button to confirm, exit the network configuration mode, and the network configuration is completed
5. Scan the code using APP to add a device

Wi-Fi product interface and network configuration instructions

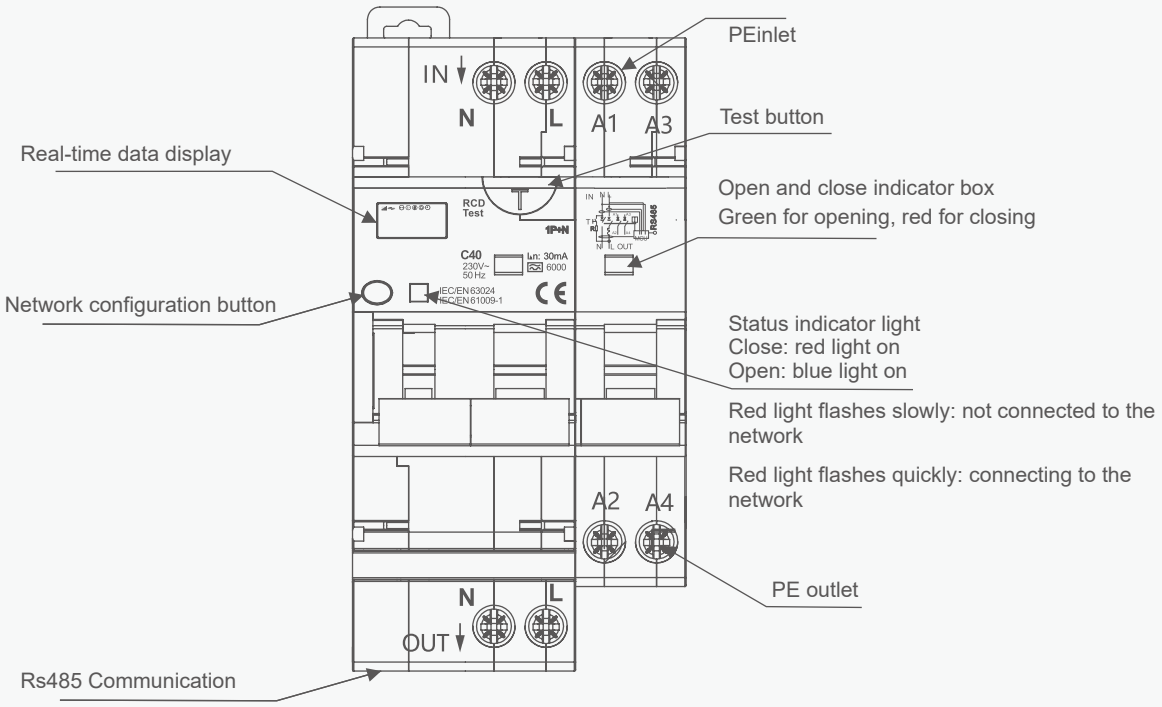


Wi-Fi products can be directly configured and added in the corresponding AP

YCB9NZF-40 Smart Circuit Breaker

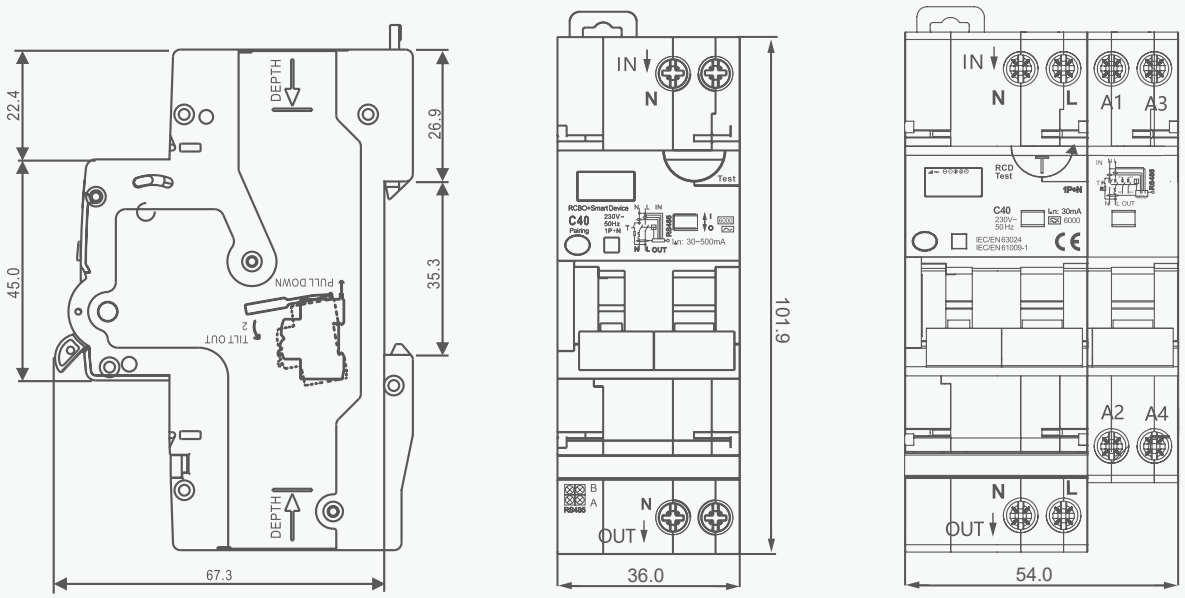
A

Interface and network configuration instructions for PE products



Installation and wiring

Installation dimensions



YCB9NZF-40 Smart Circuit Breaker

Product Installation

1. The device is suitable for standard 35mm rail installation. When installing, just snap the device into the rail and fix it with the buckle
2. According to the actual power distribution management and line laying design requirements, select and use the IoT modules and electrical box specifications that meet the needs, and install them in the order of the modules shown in the figure. Each module is connected with a 2PIN data cable specially made by the manufacturer.
3. The circuit breaker should be installed vertically. When the handle is in "/OFF", the contacts are in the disconnected state. When the handle moves upward, the contacts move in the closing direction;
4. The nominal cross-sectional area of the copper wire used for connection that matches the rated current of the circuit breaker is shown in the table below.

Rated current(A)	10	16~20	25	32	40~50	63	80
Conductor cross-sectional area(mm²)	1.5	2.5	4	6	10	16	25
Moment(N.m)	3.5	3.5	3.5	3.5	3.5	3.5	3.5

Transportation and storage

Transportation

During the transportation of products, they should be protected from the invasion and mixing of water, rain, snow or other harmful liquids such as chemical solvents and corrosive liquids; strong collision and extrusion between objects should be prevented;

they should be stacked according to the direction indicated on the packaging, and the number of stacking layers can be seen from the outer box of the packaging.

Storage

- Storage environment conditions: ambient temperature -10°C~+45°C;
- Relative humidity ≤90% (when ambient temperature is +20°C);
- The storage location should be dust-free and conductive dust-free;
- No corrosive, flammable and explosive gases, no rain or snow invasion;
- Dry and well ventilated;
- Stack in the direction indicated on the package,and do not stack higher than the number marked on the outer packaging box.

Product use and precautions

1. This product has RS485 as a standard communication port, which can be connected to computers and other communication devices through.
2. RS485 to USB converter to achieve information exchange and control.
3. The default baud rate of the device is 9600bps, and the required baud rate can be viewed and set through the PC.
4. Product installation and commissioning must be carried out by professional electricians.
5. This product can be customized according to user needs, please contact relevant technicians for details.

YC53 Auto Reclosing



General

YC53 Auto Reclosing RCCB is an electrical protection device designed to provide residual current protection and automatic reclosing functions in low-voltage electrical systems. When a residual current fault or nuisance tripping occurs, the device can automatically check the circuit condition and restore the power supply after confirming that the fault has been cleared. It supports multiple control methods, including local manual control, I/O control, RS485 communication, and Wi-Fi control.

Type Designation

Company code	Serial number	Function code	Communication
YC	53	A	i
Company code		R: Remote Control A: Auto Recloser	i: I/O control S: RS485 control W: Wi-Fi control

Operating Conditions

- Ambient air temperature: The upper limit of ambient air temperature is +40 °C, the lower limit is -5 °C, and the average temperature within 24 hours shall not exceed +35 °C.
- Altitude: The altitude of the installation location shall not exceed 2000 m.
- Atmospheric conditions: The relative humidity of the atmosphere shall not exceed 50% when the maximum ambient temperature is +40 °C, and higher relative humidity is allowed at lower temperatures (e.g., up to 90% at +20 °C). Special measures shall be taken against condensation occasionally caused by temperature changes.
- Pollution degree: Pollution degree is 2.
- Installation category: Installation category is IV.
- Installation inclination: The product is fixedly installed in the cabinet, with a maximum inclination of ±22.5°.

YC53 Auto Reclosing

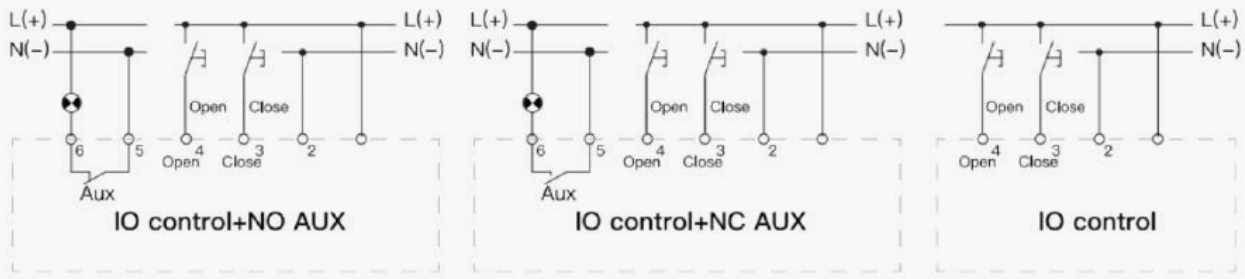
Operating Conditions

Parameter	Value
Electrical Characteristics for ARD YC53 (Auto Recloser)	
Width	18 mm (1 module)
Power Distribution System	TT - TN-S
Rated Voltage (Ue)	230 V AC
Min Rated Voltage (Min Ue)	85% Ue
Max Rated Voltage (Max Ue)	110% Ue
Rated Insulation Voltage (Ui)	500 V
Dielectric Strength	2500 V AC for 1 minute
Rated Withstand Voltage (Uimp)	4 kV
Over-voltage Category	III
Rated Frequency	50/60 Hz
Max. Operating Power Consumption	20 W
Static Power Consumption	1 W
Mechanical Life	20000 times
Electrical Life	10000 times
Standard	EN 50557, IEC/EN 63024
Reclosing Function for ARD YC53 (Auto Recloser)	
Reclosing Time Interval	10-60-300 (s)
Max Operation Frequency	30 times/day
Maximum mechanical durability (total number of operations)	10000
Max. Auto Reclose Cycle	Reclosing times can be set
Environment Characteristics	
Pollution degree	2
Working Temperature	-25 °C to +60 °C
Storage Temperature	-40 °C to +70 °C
Relative Humidity	55 °C, RH 95%
Characteristics of auxiliary contacts in opening and closing state	
Opening and closing status	yes
Contact Type	Electronic Relay
Rated Voltage (auxiliary)	5 V - 230 V AC/DC
Rated Current (auxiliary)	0.6 A (min) - 1 A (max)
Frequency (auxiliary)	50 Hz
Utilization category	AC-12
Operation mode	NO/NC/COM Signal of Handle Position
Cable Connection	≤ 2.5 mm²
Rated Tightening Torque	0.4 N·m
Communication parameters	
Baud rate	Default: 9600, configurable
Check Digit	No check digit
Data bits	8
Stop bits	1
Device Address	Factory Default Address: 1

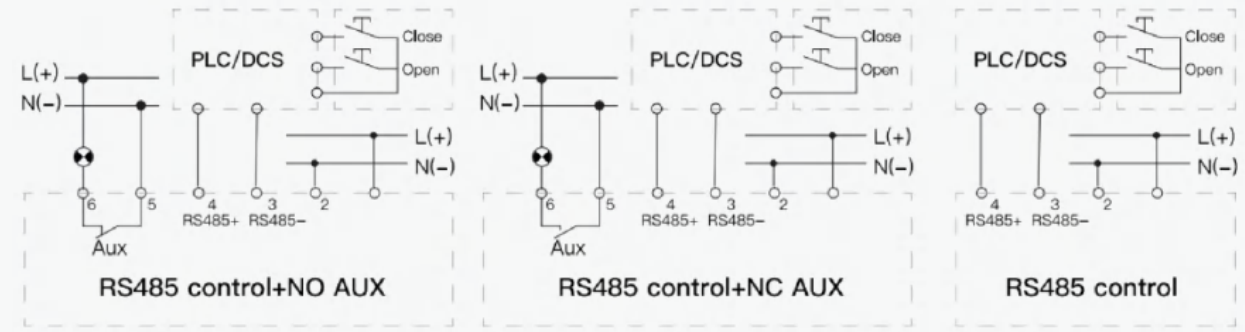
YC53 Auto Reclosing

A

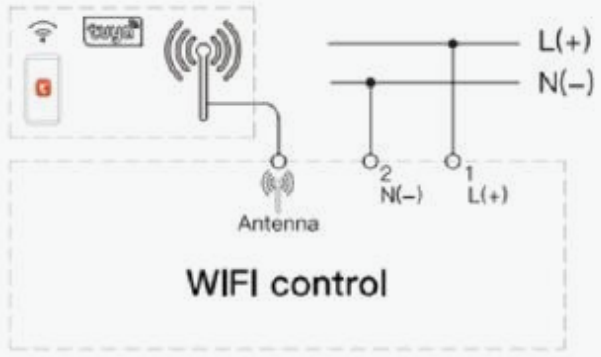
Terminal (I/O Control)



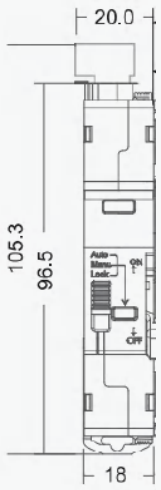
Terminal (I/O Control)



Terminal (Wi-Fi Control)



Overall and mounting dimensions (mm)



YCSi Smart Circuit Breaker



works with TUYA
works with WIFI
works 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 in homes, 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 current 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.

Final Distribution

YCSi Smart Circuit Breaker

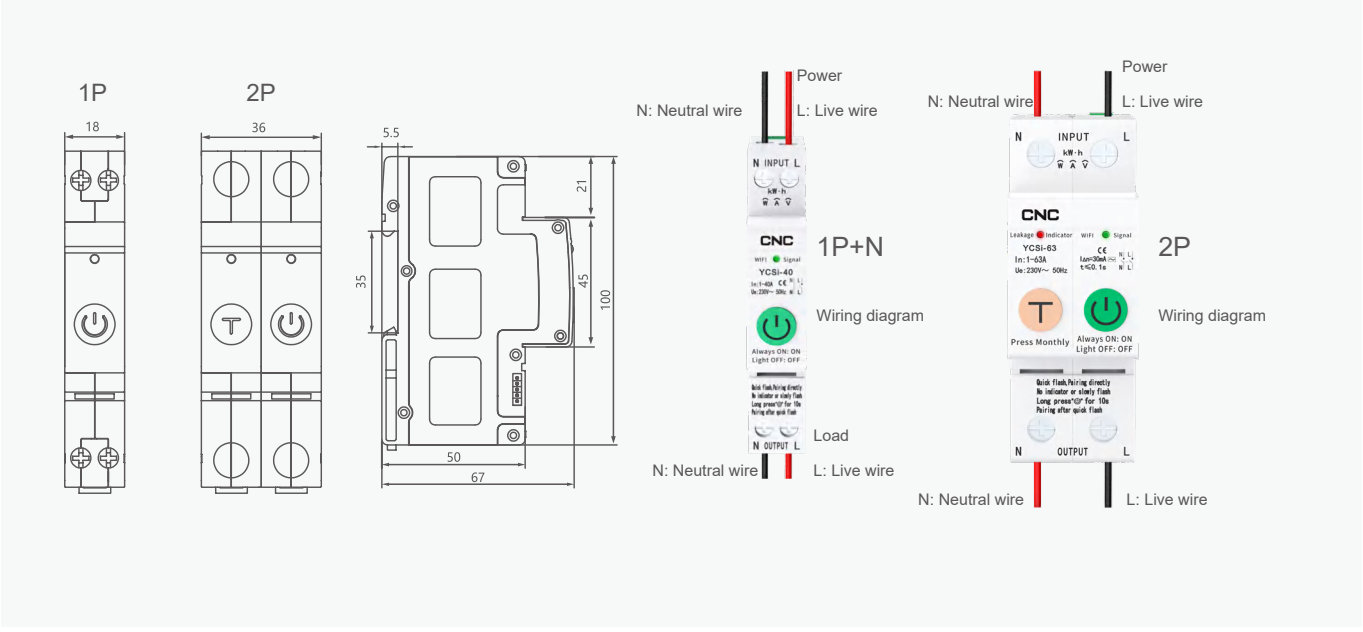
Technical data

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. 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)



YCBZN-40 Changeover switch



General

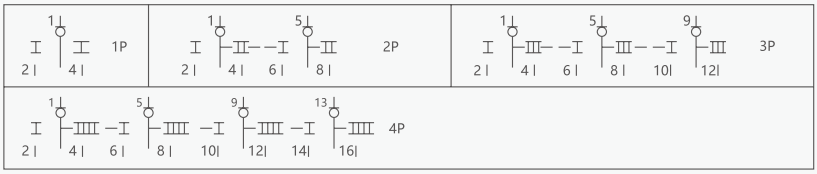
The Changeover Switch can switch on, load and break the circuit under normal conditions,using as Switch Disconnectors.

Standard: IEC 60947-3

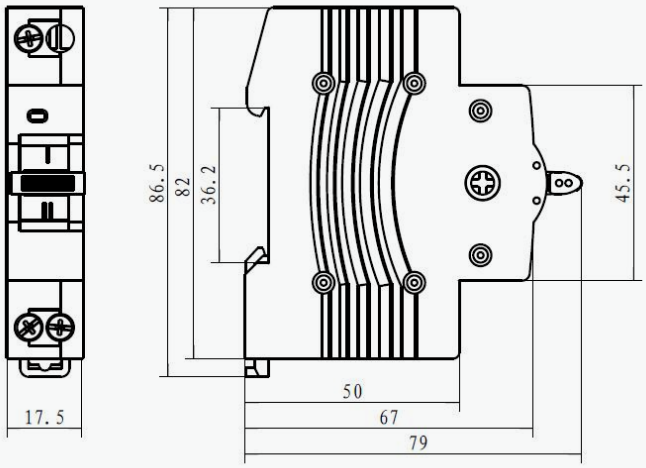
Technical data

Frame	Maximum wiring
Rated Voltage	240/415V~
Rated Current	16,25,32,40A
Rated Frequencyy	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

A









General

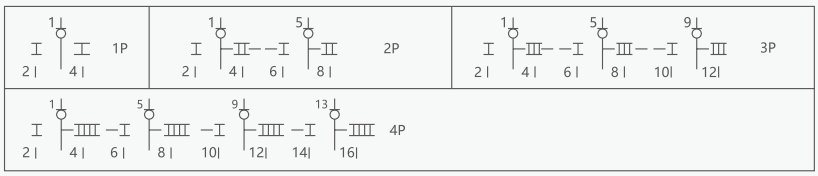
The Changeover Switch can switch on, load and break the circuit under normal conditions,using as Switch Disconnectors.

Standard: IEC 60947-3

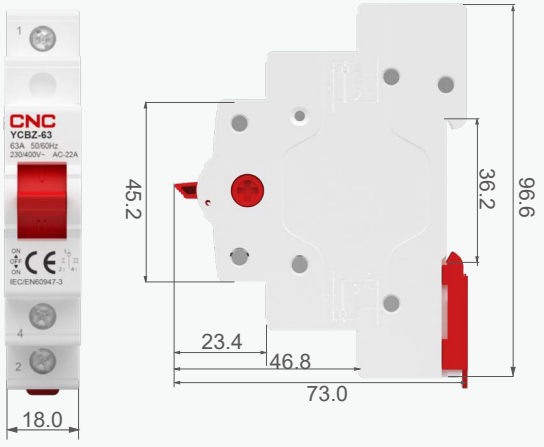
Technical data

Parameter	Data
Rated Voltage	240/415V~
Rated Current	32,40,50,63
Rated Frequencyy	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

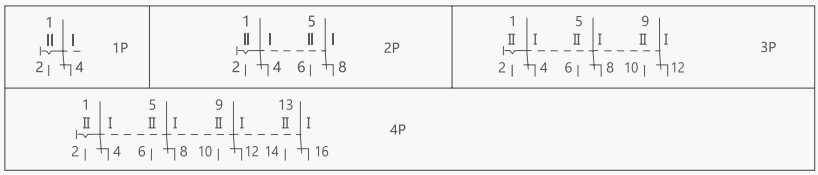
The Changeover Switch can switch on, Load and break the circuit under normal conditions,using as Switch Disconnectors.

Standard: IEC 60947-3

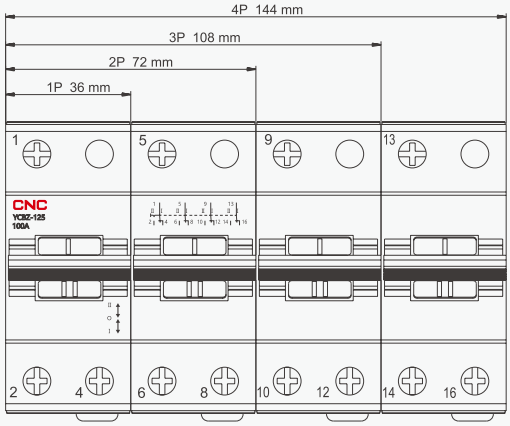
Technical data

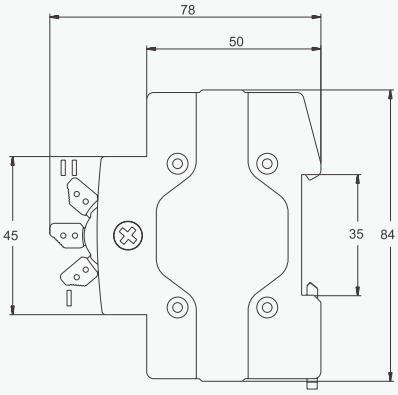
Parameter	Data
Rated Voltage	240/415V~
Rated Current	63,80,100,125
Rated Frequencyy	50/60Hz
Number of Poles	1,2,3,4P
Contact form	1-0-2
Electrical Life	1500 Cycles
Mechanical Life	8500 Cycles
Protection degree	IP20
Ambient Temperature	-5°C~40°C
Terminal/Cable size	50mm²
Mounting	On DIN rail EN60715(35mm)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

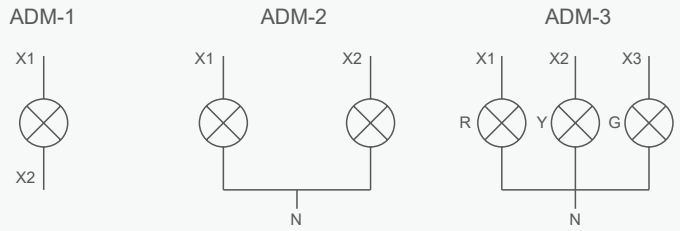
Construction and Feature: Low service duration,minimum power consumption,Compact design in modular size,Easy installation.

Standard: IEC 60947-5-1

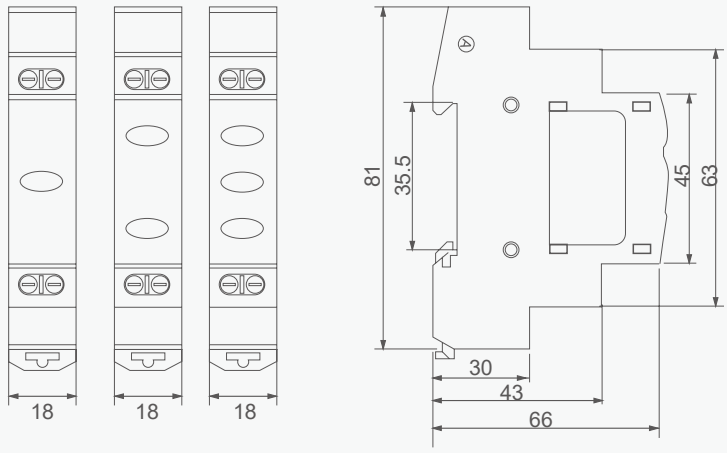
Technical data

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.

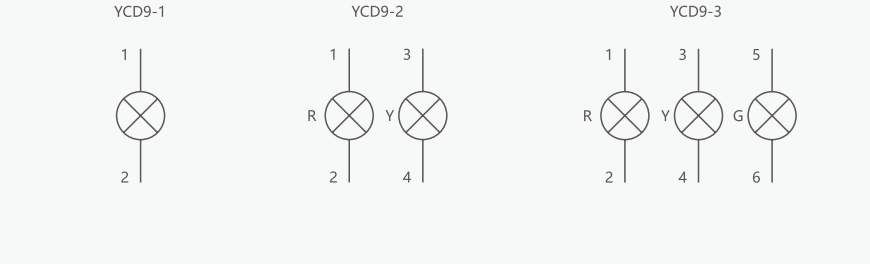
Construction and Feature: Low service duration,minimum power consumption, compact design in modular size,easy installation.

Standard: IEC 60947-5-1

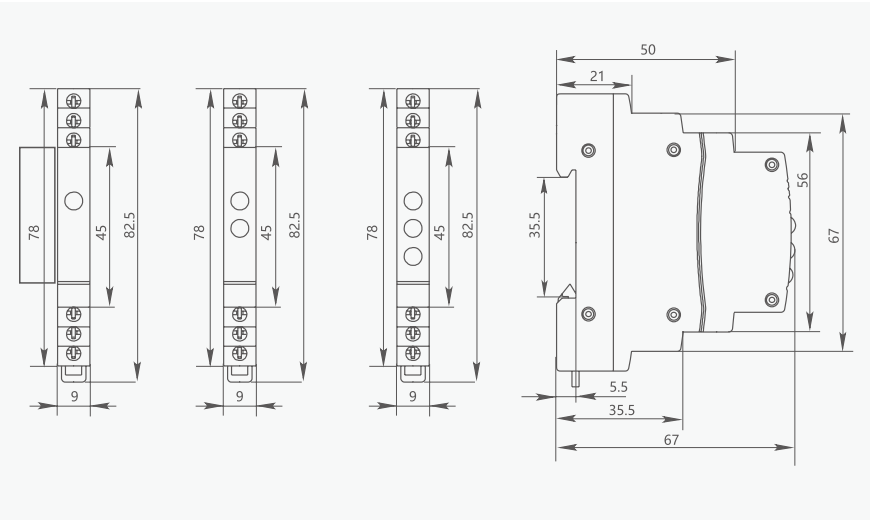
Technical data

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)



YCM Series DIN Rail Digital Display Meter

A

General

The dIN rail digital display meter provides the module width, unit count, and installation specifications for modular devices. It applies to 50/60Hz circuits and includes instruments capable of measuring and displaying digital current, voltage, and frequency, helping ensure accurate selection and standardized panel configuration.

Standard: IEC 60947-5-1:2024



Technical data

YCMA1, YCMA3	
Supply Voltage /Frequencyy Range	AC 80V-500V/50-60Hz
Current Range	AC 0-100A
Color	Red
Discrepancy Range	±2%
Rated Insulation Voltage	660V
Sampling Rate	1 time/s
Input Loop Power Consumption	≤2VA
Altitude	≤2000m
Ambient Temperature	-50°C~55°C
Humidity	50% and 40°C Condensation free
Storage Temperature	-30°C~70°C



YCMV1, YCMV3	
Supply Voltage /Frequencyy Range	AC 80V-500V
Current Range	AC 50-60A
Color	Red
Discrepancy Range	±2%
Rated Insulation Voltage	660V
Sampling Rate	1 time/s
Input Loop Power Consumption	≤2VA
Altitude	≤2000m
Ambient Temperature	-50°C~55°C
Humidity	50% and 40°C Condensation free
Storage Temperature	-30°C~70°C



YCMAVHz3	
Supply Voltage /Frequencyy Range	AC 80V-500V / 0-99Hz
Current Range	AC 0-100A
Color	Red
Discrepancy Range	±2%
Rated Insulation Voltage	660V
Sampling Rate	1 time/s
Input Loop Power Consumption	≤2VA
Altitude	≤2000m
Ambient Temperature	-50°C~55°C
Humidity	50% and 40°C Condensation free
Storage Temperature	-30°C~70°C

This product is forbidden to be used in the power environment with large frequency conversion, inverter & harmonic interference

YCM Series DIN Rail Digital Display Meter

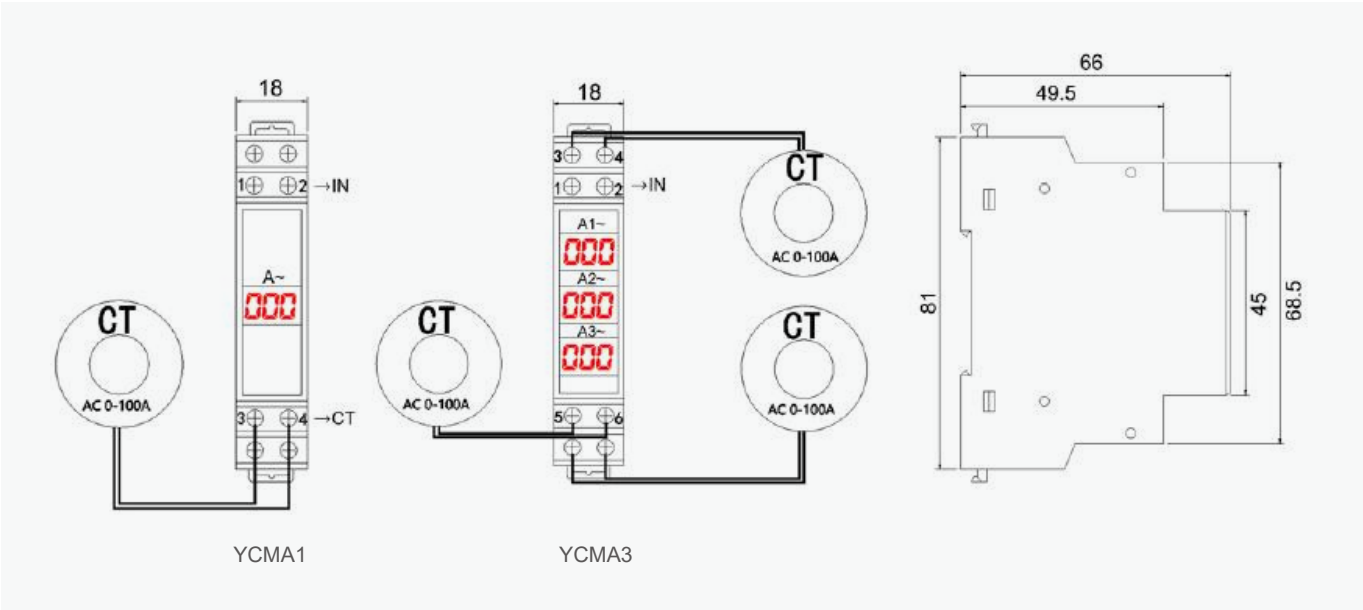


YCMHz1,YCMHz3	
Supply Voltage /Frequencyy Range	AC 80V-500V
Frequencyy measurement range	AC 0-99Hz
Color	Red
Discrepancy Range	±2%
Rated Insulation Voltage	660V
Sampling Rate	1 time/s
Input Loop Power Consumption	≤2VA
Altitude	≤2000m
Ambient Temperature	-50°C~55°C
Humidity	50% and 40°C Condensation free
Storage Temperature	-30°C~70°C



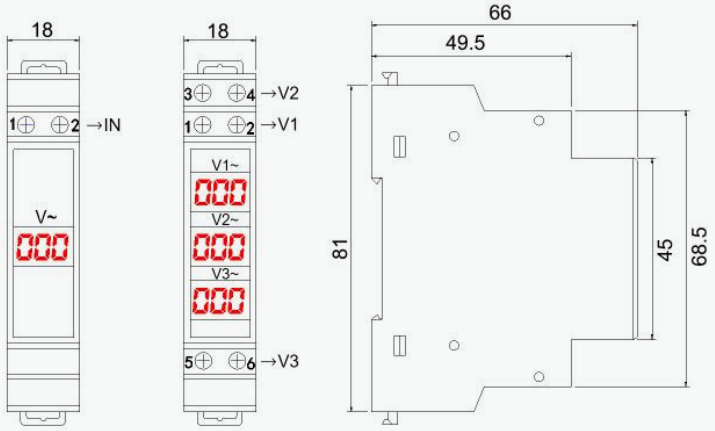
YCMAV2	
Supply Voltage /Frequencyy Range	AC 80V-500V
Current Range	AC 0-100A
Color	Red
Discrepancy Range	±2%
Rated Insulation Voltage	660V
Sampling Rate	1 time/s
Input Loop Power Consumption	≤2VA
Altitude	≤2000m
Ambient Temperature	-50°C~55°C
Humidity	50% and 40°C Condensation free
Storage Temperature	-30°C~70°C

Overall and mounting dimensions(mm)

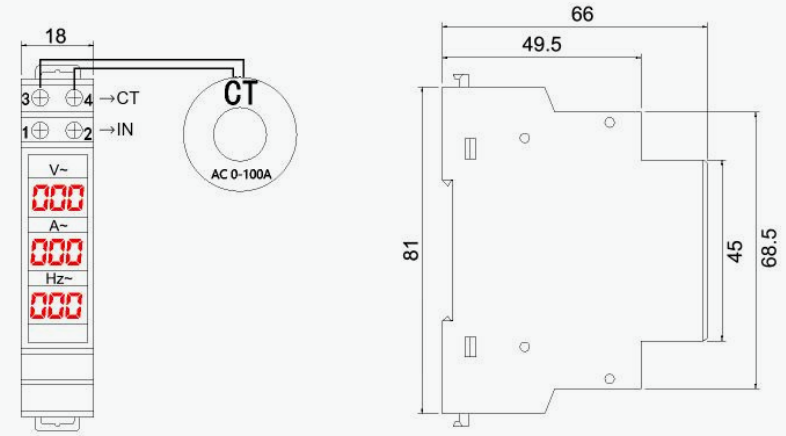


YCM Series DIN Rail Digital Display Meter

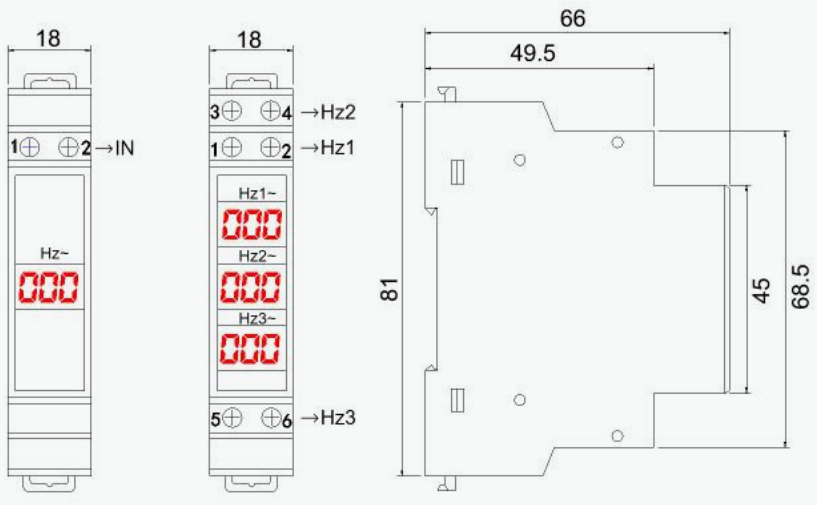
A



YCMV1 YCMV3

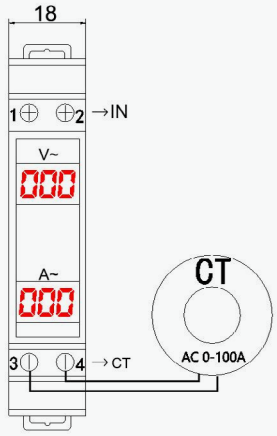


YCMVAHz

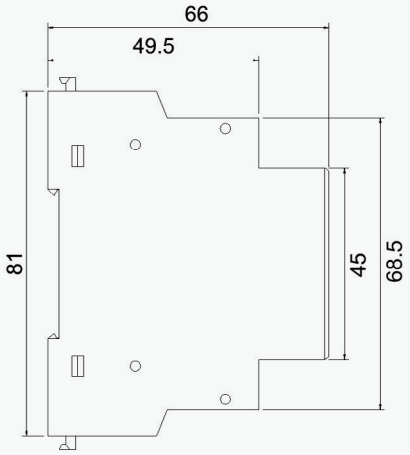


YCMHz1 YCMHz3

YCM Series DIN Rail Digital Display Meter

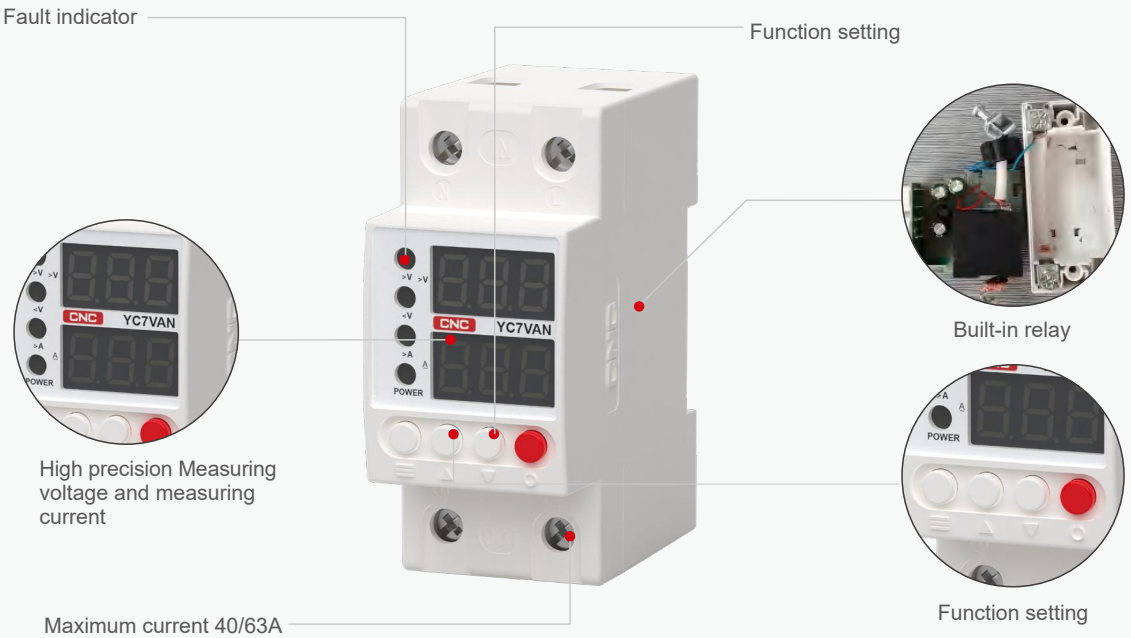


YCMAV2



Final Distribution

YC7VAN 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 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.

Feature

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 protection.

Type designation

YC 7 VA N - 1 63A 230V

Company code	Design Number	Functional Type	New style		Phase Number Type	Rated Current	Voltage
YC	7	VA	N	-	1	63A	230V
/	/	V:Voltage A:Current VA:Voltage and Current	/		1 Single-phase(default without notes)	40A:40A 63A:63A 80A:80A	Single-phase:230V

YC7VAN Overvoltage and Undervoltage Protector

Operating condition

1. Ambient temperature: -20°C~+55°C
2. Relative humidity: ≤20% at 40°C; ≤90% at 20°C
3. Altitude: ≤2000m
4. Environmental conditions: no harmful gases and vapors, no conductive or explosive dust, no severe mechanical vibration.

Technical data

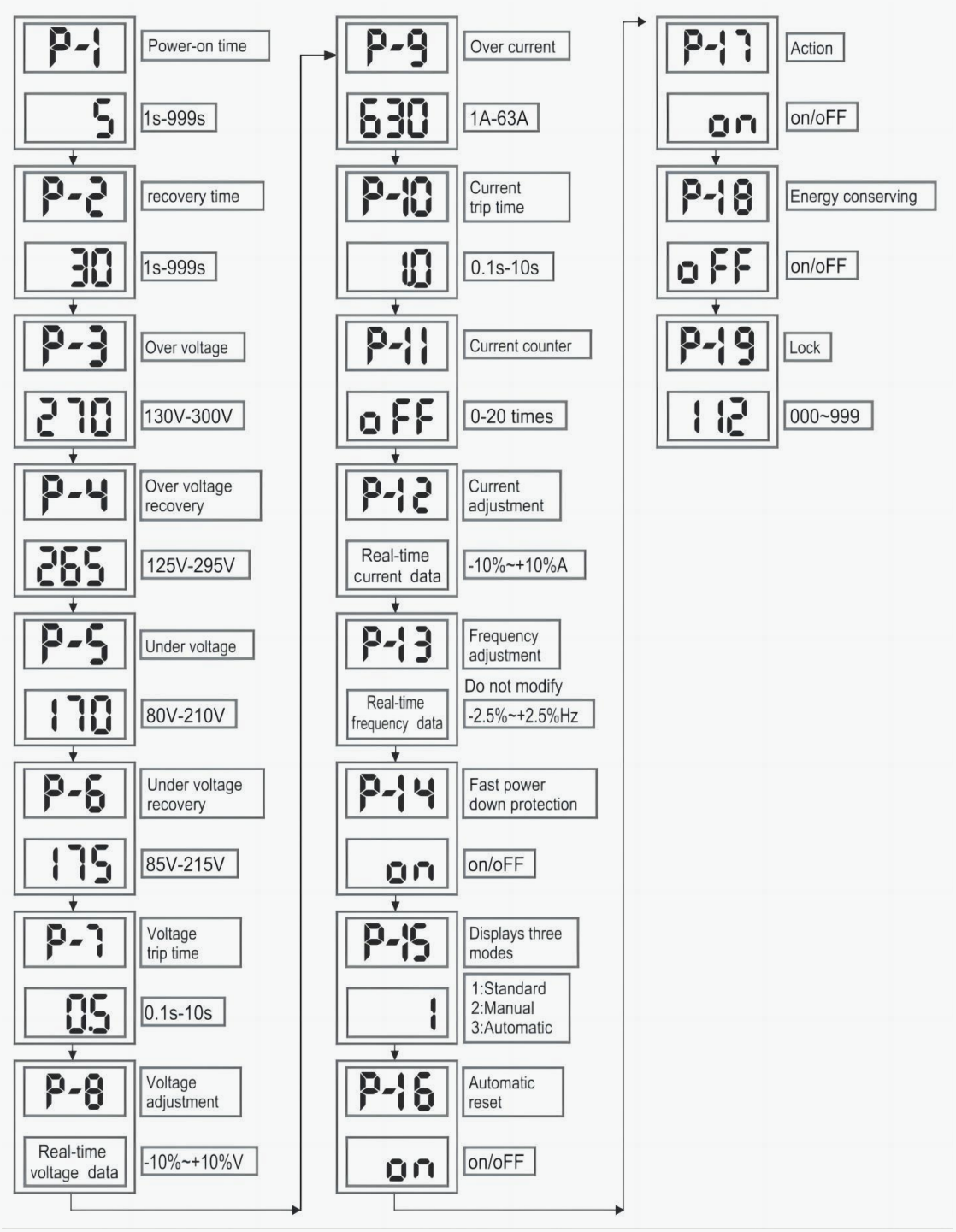
Function	Technical Parameter	Function	Technical Parameter
Input voltage	AC 140-300V	Power-on delay time	1-500s default 10s
Over-voltageprotection value	130-300V default 275V	Over-voltage recovery value	225-295V default 275V
Under-voltageprotection value	80-210V default 175V	Under-voltage recovery value	145-215V default 175V
Over-currentprotection value	40A:1-40A default 40A	Power consumption	$2W
	63A:1-63A default63A	Boundary dimension	86×38×68mm
Recovery delay time	1-500s default 30s	Action time	0.1-30s default 1s
Continuous overcurrent faults times	1-20 times default OFF	Electrical and mechanical life	2100000cycles
Wiring	Over-entering down-out		

1. In caseofover-voltagefault, under-valtagefault or over-current fault in single-phase line, the product can power line over a time delay after voltage or current of the line is recovered to normal condition.
2. In case of transient over voltage in line, the product can protect the equipmant from false aperation.
3. In case that the line subjects to unstable Voltage connection and other fault, the product will disconnect the line.
4. When fault voltage of the line reaches the peak, the product it self will not be damaged.

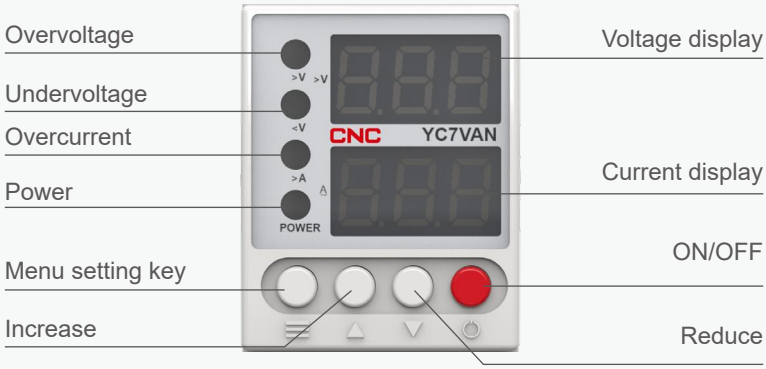
YC7VAN Overvoltage and Undervoltage Protector

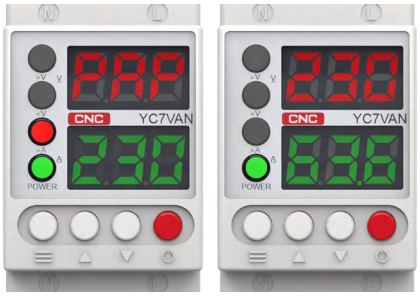
A

YC7VAN



YC7VAN Overvoltage and Undervoltage Protector

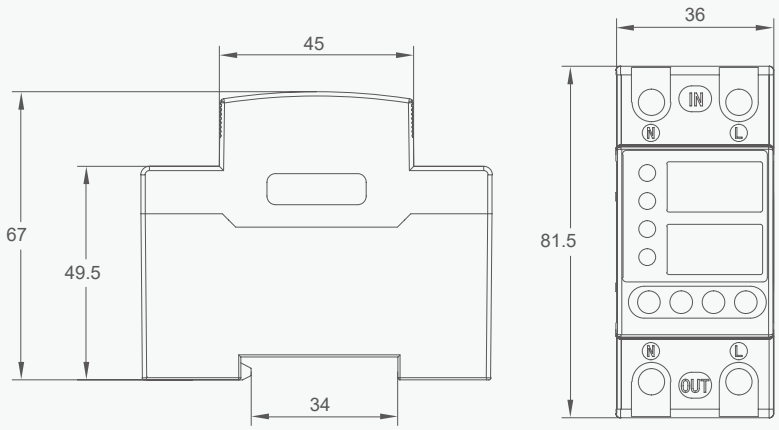


Function	Technical Parameter	Technical Parameter
PoP: Displays overvoltage value	Overvoltage protection interface 	Overvoltage recovery interface 
PUP: Displays undervoltage value	Overvoltage protection interface 	Overvoltage recovery interface 
PAP: Displays overcurrent value	Overcurrent protection interface 	Overcurrent recovery interface 

YC7VAN Overvoltage and Undervoltage Protector

A

Overall and mounting dimensions(mm)



Example of ordering

YC7VAN 63A 230V 50 pieces

YC7VAs Overvoltage and Undervoltage Protector



General

The adjustable voltage and current protection device is an intelligent protection device integrating overvoltage protection, undervoltage protection, and overcurrent protection. In the event of an overvoltage, undervoltage, or overcurrent fault, the device automatically disconnects the power supply to protect electrical equipment from damage. The protection parameters for overvoltage, undervoltage, and overcurrent can be set and adjusted by the user according to the actual application requirements.

Characteristics

The protector automatically disconnects the power supply when an overvoltage, undervoltage, or overcurrent fault occurs in a single-phase circuit. Once the voltage or current returns to the normal operating range, the power supply is automatically restored after the preset delay time.

It effectively suppresses transient overvoltage and protects electrical equipment from malfunction or damage caused by voltage surges.

Equipped with a digital display, the protector provides real-time monitoring of voltage, current and other operating parameters for convenient observation and operation.

Type designation

YC7VAs

Company Code		Design Number	Function Type	New Style	Rated Current	Voltage
YC	-	7	VA	s	63A	230V
Company Code		Design Number	Function Type	New Style	40A:40A 63A:63A	Single-phase 230V

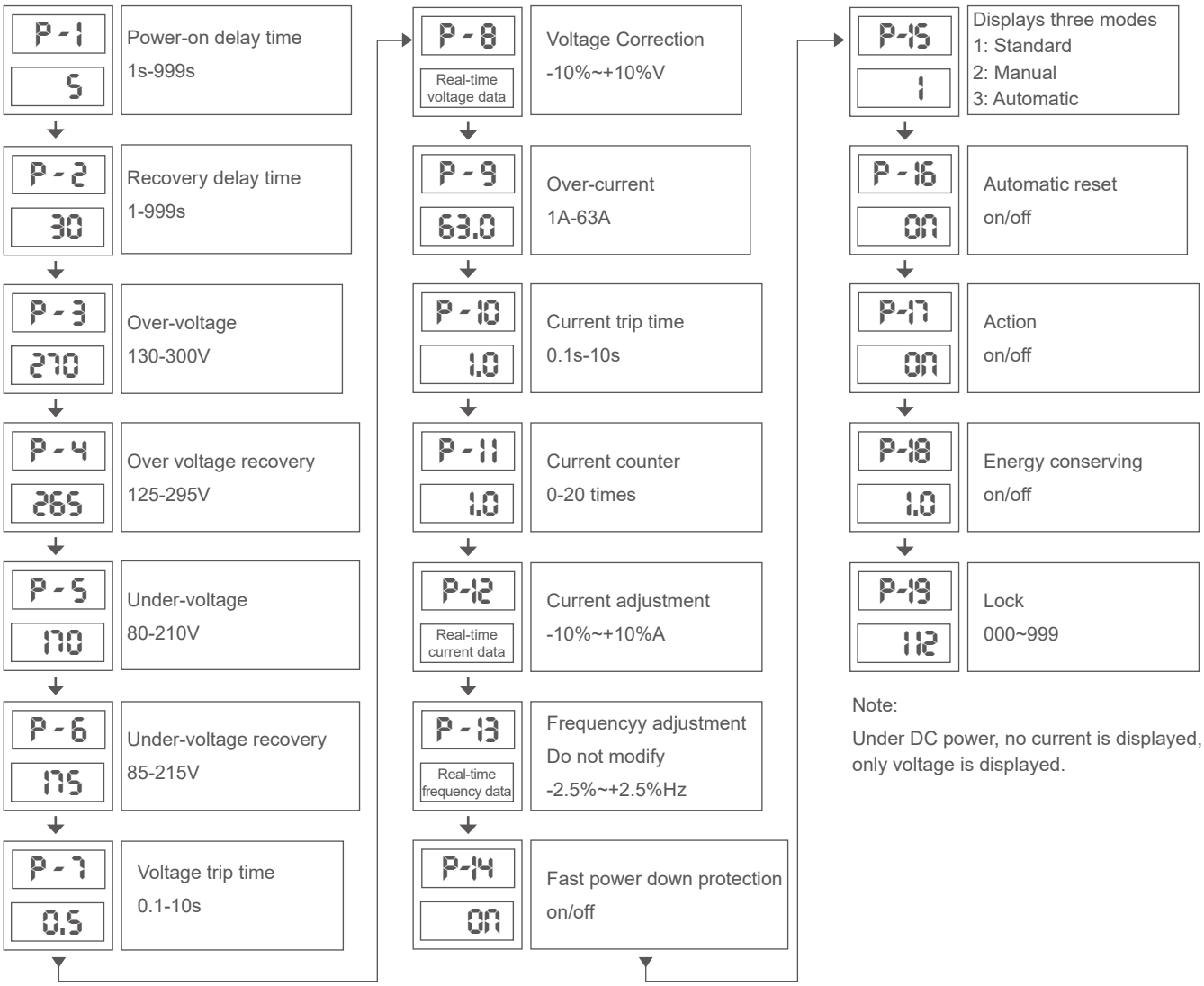
Final Distribution

YC7VAs Overvoltage and Undervoltage Protector

Technical data

Function	Default Value
Rated supply voltage	AC 220V / DC 80–300V
Rated frequency	40/50/60/70Hz
Over-voltage protection setting	AC130–300V / DC130–300V
Under-voltage protection setting	AC80–210V / DC80–210V
Voltage hysteresis	5V
Voltage protection trip delay	0.5s
Voltage measurement accuracy	<1%
Maximum operating voltage	350V
Maximum operating current	40A / 63A
Operating altitude	≤2000m
Ambient temperature	-25°C ~ +50°C
Relative humidity	≤50% at 40°C (without condensation)
Storage temperature	-25°C ~ +55°C
Dimensions	85 × 36 × 66 mm

Setup menu

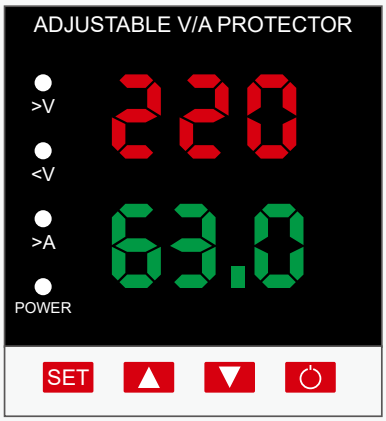


Note:

Under DC power, no current is displayed, only voltage is displayed.

YC7VAs Overvoltage and Undervoltage Protector

Front-face panel



>V: Overvoltage Indicator

<V: Under-voltage

>A: Overcurrent Indicator

POWER: Normal Working Indicator

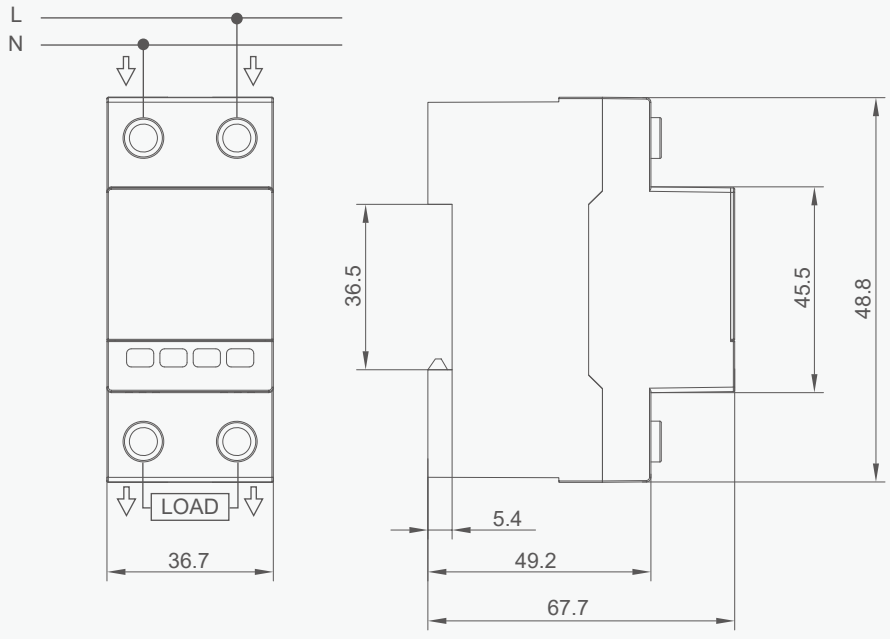
SET Menu selection

▲ Digit+

▼ Digit-

⏻ ON/OFF

Overall and mounting dimensions(mm)



YC7VAs-kWh Overvoltage and Undervoltage Protector



General

The adjustable voltage, current, short-circuit current and energy metering protection device is an intelligent protection device integrating overvoltage protection, undervoltage protection, overcurrent protection, short-circuit protection and energy metering. It can measure and display electrical parameters such as voltage, current, frequency and accumulated energy consumption (kWh) in real time. In the event of an overvoltage, undervoltage or overcurrent fault, the device automatically disconnects the power supply to protect electrical equipment from damage. The protection parameters for overvoltage, undervoltage, overcurrent and short-circuit current can be set and adjusted by the user according to the actual application requirements.

Characteristics

- The protector automatically disconnects the power supply when an overvoltage, undervoltage, or overcurrent fault occurs in a single-phase circuit. Once the voltage or current returns to the normal operating range, the power supply is automatically restored after the preset delay time.
- It effectively suppresses transient overvoltage and protects electrical equipment from malfunction or damage caused by voltage surges.
- The protector is designed with excellent surge withstand capability and remains undamaged even when the transient overvoltage reaches its peak value, ensuring reliable and stable operation.
- Equipped with a digital display, the protector provides real-time monitoring of voltage, current, frequency, accumulated energy consumption (kWh), and other operating parameters for convenient observation and operation.
- The built-in energy metering function accurately records accumulated power consumption, providing users with a convenient reference for energy monitoring and management. The displayed energy data is for reference only and shall not be used as the basis for legal metering or billing.

Type designation

YC7VAs-kWh

Company Code	Design Number	Function Type	New Style		Rated Current	Voltage	Energy Metering Function
YC	7	VA	s	-	63A	230V	kWh
Company Code	Design Number	Function Type	New Style		63A:63A	Single-phase 230V	kWh

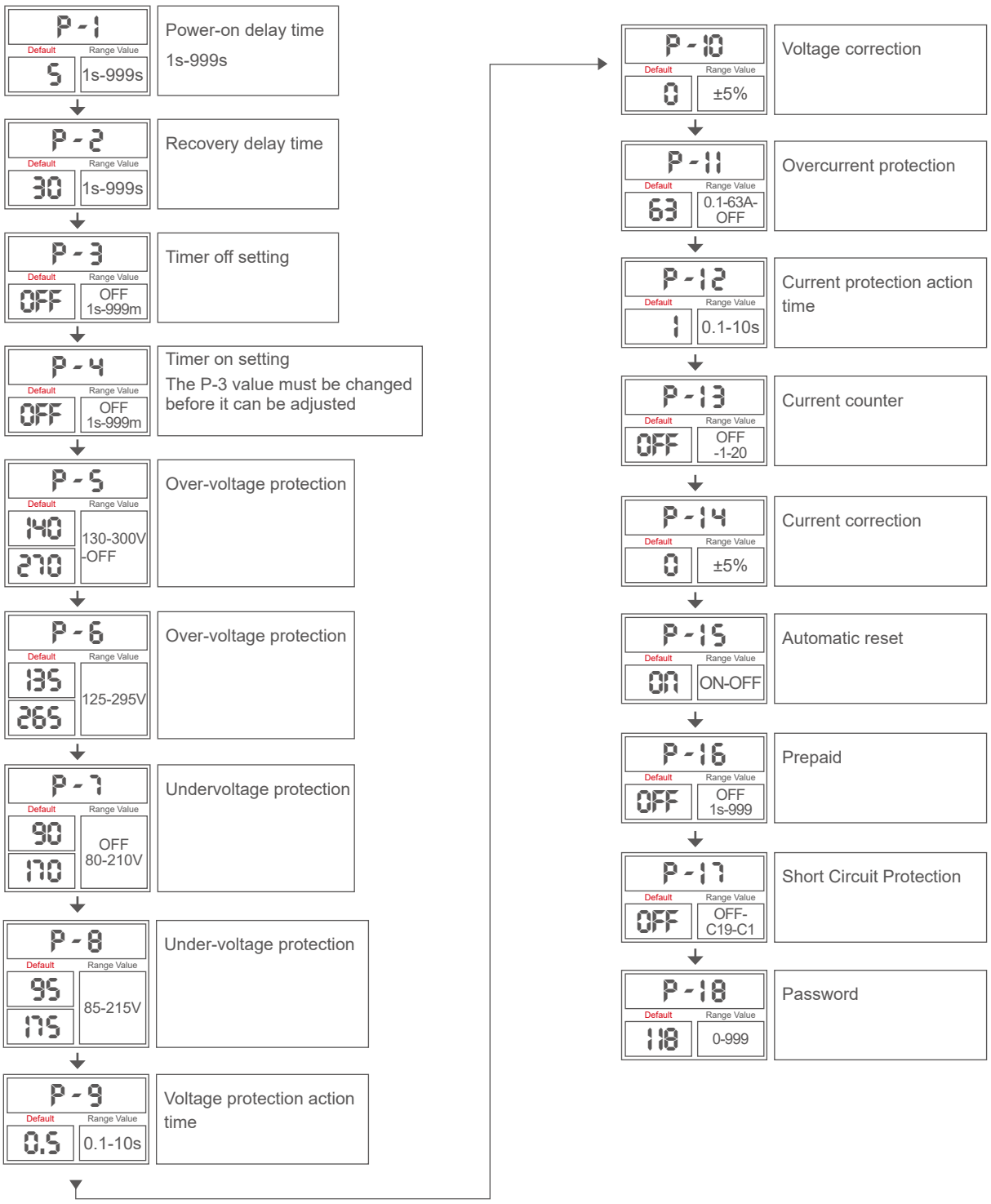
YC7VAs-kWh Overvoltage and Undervoltage Protector

Technical data

Function	Default Value
Rated supply voltage	AC 230V
Rated frequency	40/50/60/70Hz
Over-voltage protection setting	AC130–300V
Under-voltage protection setting	AC80–210V
Voltage hysteresis	5V
Voltage protection trip delay	0.5s
Voltage measurement accuracy	<1%
Maximum operating voltage	350V
Maximum operating current	40A / 63A
Operating altitude	≤2000m
Ambient temperature	-25°C ~ +50°C
Relative humidity	≤50% at 40°C (without condensation)
Storage temperature	-25°C ~ +55°C
Dimensions	85 × 36 × 66 mm

YC7VAs-kWh Overvoltage and Undervoltage Protector

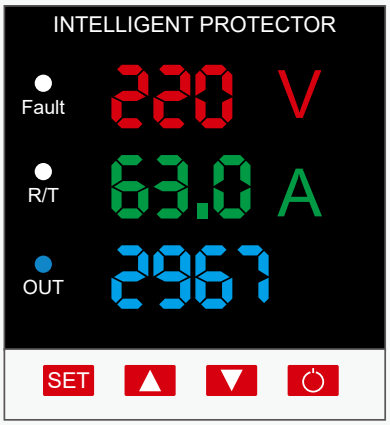
Setup menu



Final Distribution

YC7VAs-kWh Overvoltage and Undervoltage Protector

Display panel



Fault: Overvoltage Undervoltage

R/T: Overcurrent

OUT : Energy metering

SET Menu selection

▲ Digit+

▼ Digit-

ON/OFF

Safety Instructions

Circuit breakers shall be installed at both the power supply side (upstream) and the load side (downstream) of this product.

Installation, wiring, and maintenance must be performed only by qualified personnel.

Before installing, wiring, or servicing the device, disconnect all power supplies. Do not touch any terminals while the device is energized.

Ensure that all terminal connections are secure and correctly tightened before energizing the device.

Do not install or operate the device in locations exposed to corrosive gases, direct sunlight, rain, or excessive moisture.

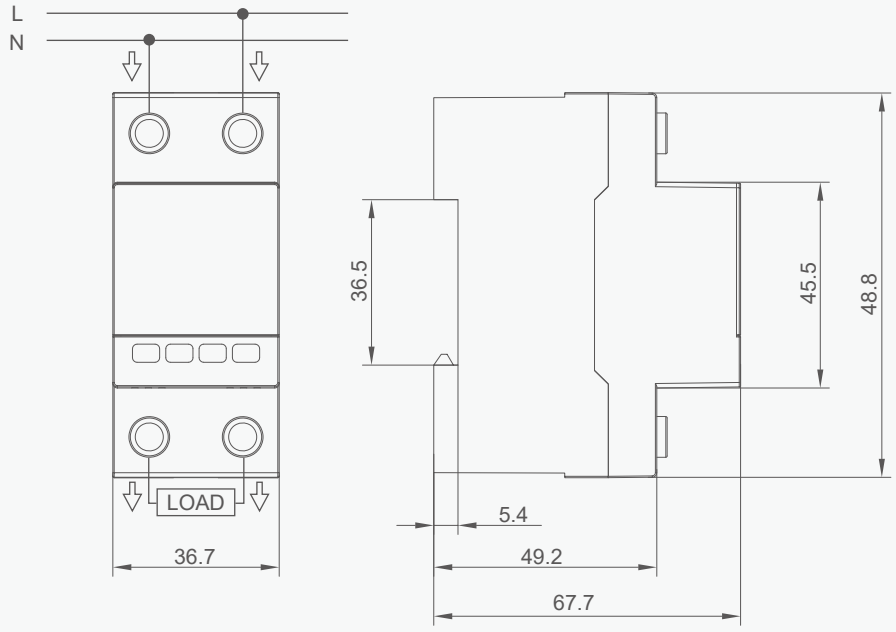
Clean the device only with a dry, soft cloth. Do not use water or chemical solvents.

Failure to follow these instructions may result in electric shock, fire, equipment damage, serious injury, or death.

YC7VAs-kWh Overvoltage and Undervoltage Protector

A

Overall and mounting dimensions(mm)



YC7VAs-WIFI-kWh Overvoltage and Undervoltage Protector



General

The adjustable voltage, current and leakage detection protection device, with a kilowatt-hour meter, is an intelligent protector that integrates overvoltage protec-tor, undervoltage protec-tor, overcurrent protector and leakage detection. In the event of an overvoltage fault,under-voltage fault, or overcurrent fault, the product can immediately cut off the power supply to avoid damage to electrical equipment. The overvoltage, undervoltage,overcurrent and leakage detection switches of the product can be set by the user and adjusted according to local actual conditions.

Characteristics

- The protector automatically disconnects the power supply when an overvoltage, under-voltage, or overcurrent fault occurs in a single-phase circuit. Once the voltage or current returns to the normal range, the power supply is automatically restored after the preset delay time.
- It effectively suppresses transient overvoltage and protects electrical equipment from malfunction or damage caused by voltage surges.
- When the leakage detection function is enabled, if the leakage current exceeds the set value, the protector will automatically disconnect the circuit within 2 seconds. The protec-tor can only restore power supply after the circuit maintenance is completed.
- The product features excellent voltage resistance performance and can operate normally under an AC voltage of 500 V.
- Equipped with an integrated energy metering function, the protector provides real-time display of accumulated energy consumption (kWh).

Type designation

YC7VAs-WIFI-kWh

Company Code	Design Num-ber	Function Type	New Style		Rated Current	Voltage		Communication Function		Accumulated Energy
YC	7	VA	s	-	63A	230V	-	WIFI	-	kWh
Company Code	Design Num-ber	Function Type	New Style		63A:63A	Single-phase 230V		WiFi Communica-tion		Accumulated Energy

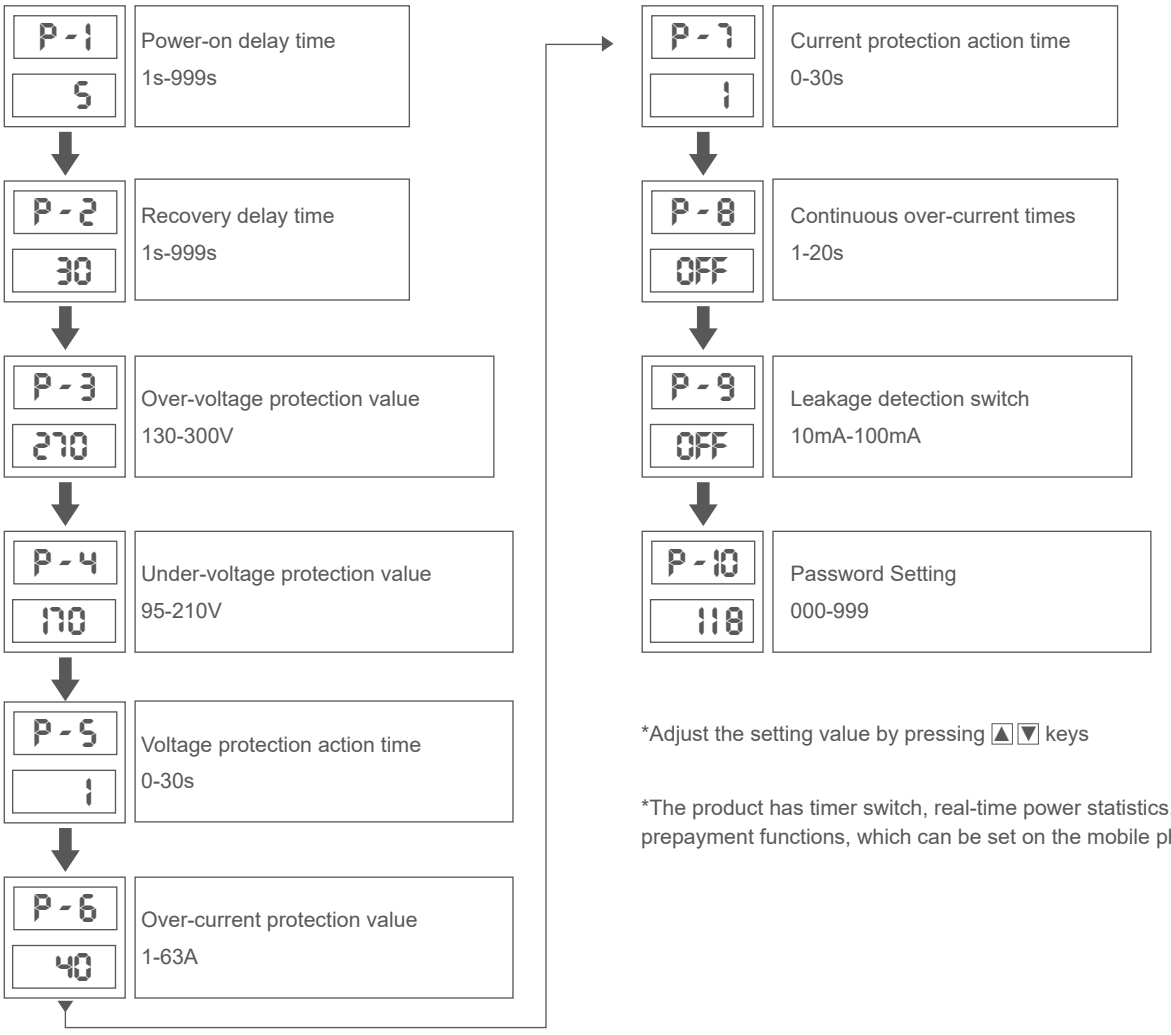
Final Distribution

YC7VAs-WIFI-kWh Overvoltage and Undervoltage Protector

Technical data

Function	Setting Range	Default Value
Input voltage	AC 95–300V	
Power-on delay time	1–999s	5s
Over-voltage protection setting	130–300V	270V
Over-voltage recovery setting	125–295V	265V
Under-voltage protection setting	95–210V	170V
Under-voltage recovery setting	100–215V	175V
Overcurrent protection setting	1–63A(63A type)	40A
Continuous overcurrent trip count	1–20 times	OFF
Leakage current protection setting	10–100mA	OFF
Voltage protection trip delay	0–30s	1s
Recovery delay	1–999s	30s
Overcurrent protection trip delay	0–30s	1s
Mechanical endurance	≥ 100000 times	
Power consumption	≤ 2W	
Password setting	000–999	118
Dimensions	85 × 37 × 69 mm	

Setup menu

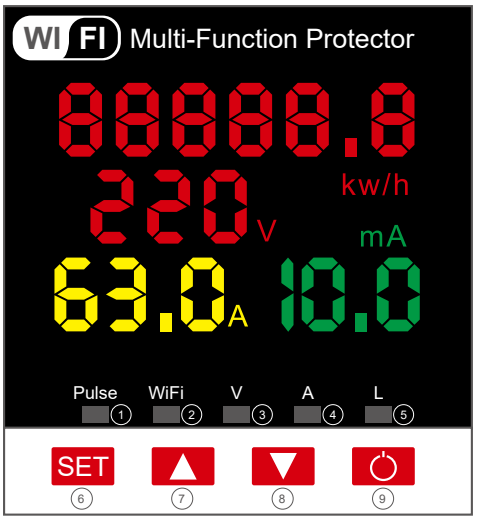


*Adjust the setting value by pressing ▲▼ keys

*The product has timer switch, real-time power statistics, and power prepayment functions, which can be set on the mobile phone.

YC7VAs-WIFI-kWh Overvoltage and Undervoltage Protector

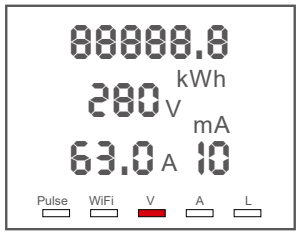
Panel indicator lamps and keys instructions



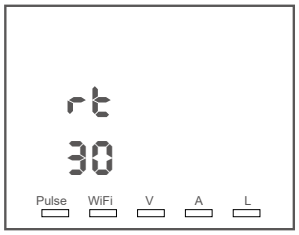
1. Kilo-watt hour meter pulse indicator
2. WiFi indicator
3. Over/under voltage alarm indicator
4. Over-current alarm indicator
5. Leakage alarm indicator
6. Set: Menu setting key
7. Adjustment key +
8. Press for 5 seconds and the battery power will be cleared
9. Adjustment key -
10. Press and hold for 5 seconds, the WiFi indicator light flashes and the device enters pairing mode.
11. Manual switch
12. Press the power button to OFF, then press and hold the power button for 5-10 seconds until it restarts to restore to factory settings.

Screen display description

Over-voltage protection status

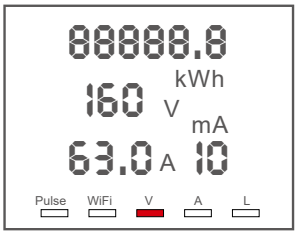


When over-voltage, the protector automatically disconnects, the over-voltage alarm indicator turns on, and the screen shows the over-voltage value.

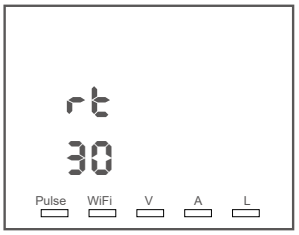


When the voltage turns normal, the over-voltage alarm indicator turns off, and the protector resets automatically within the set recovery time.

Under-voltage protection status

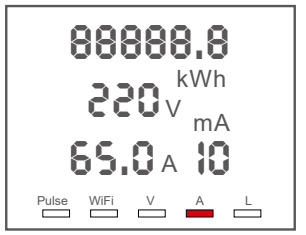


When under-voltage, the protector automatically disconnects, the under-voltage alarm indicator turns on, and the screen shows the under-voltage value.

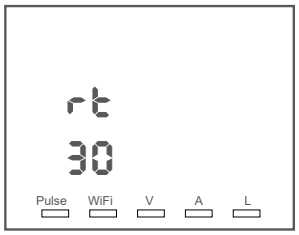


When the voltage turns normal, the under-voltage alarm indicator turns off, and the protector resets automatically within the set recovery time.

Over-current protection status



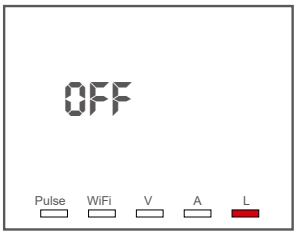
When over-current, the protector automatically disconnects, the over-current alarm indicator turns on, and the screen shows the over-current value.



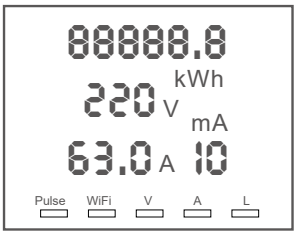
When the current turns normal, the over-current alarm indicator turns off, and the protector resets automatically within the set recovery time.

When the number of continuous overcurrent faults reaches the set value, the protector will not reset automatically, it needs to be reset manually by pressing [ ] key.

Leakage detection status



When the leakage detection switch is closed, if leakage occurs, the protector will automatically disconnect, the leakage alarm indicator will light up.



After the leakage protection, you need to press the manual switch to restart to return to normal.

Leakage detection switch, Default OFF

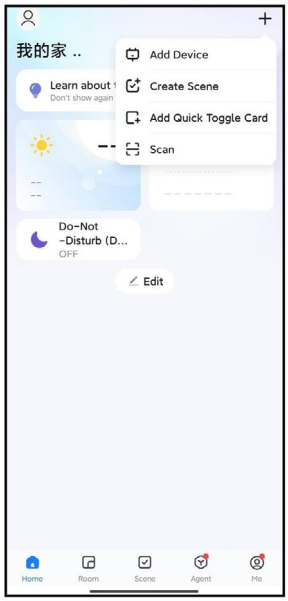
Final Distribution

YC7VAs-WIFI-kWh Overvoltage and Undervoltage Protector

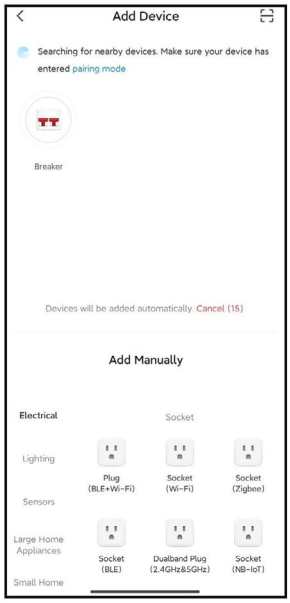
A

Protector networking steps

Scan the QR code or search for “Smart Life App” in the App Store and download it.



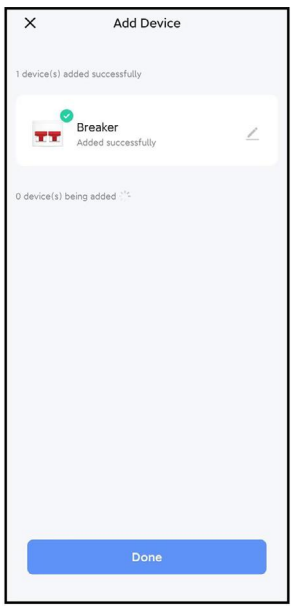
Click Add Device to start adding protector



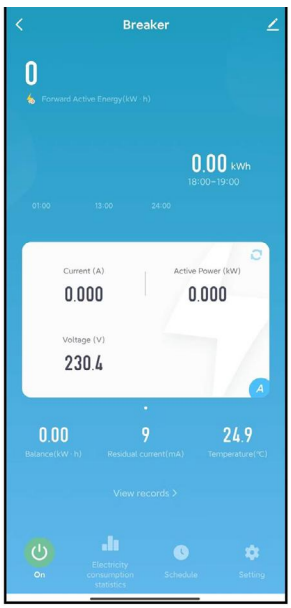
Turn on the Bluetooth of your phone, search for the protector, find the protector, and click “Add”



Enter Wi-Fi password to connect to the network



The protector is added successfully



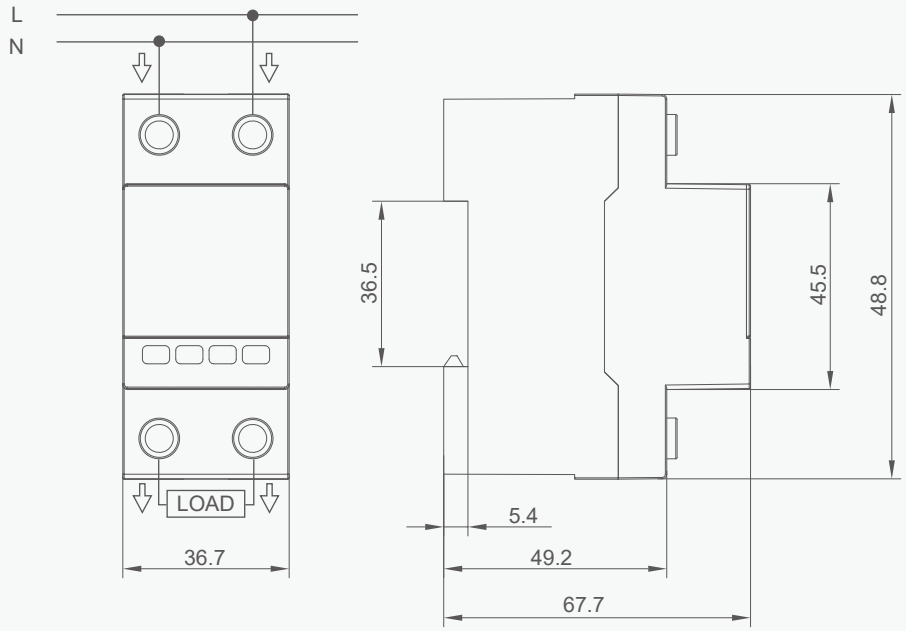
Enter the mobile phone operation interface

Note:

1. This product is intended for leakage current detection only. The displayed leakage current value is for reference only and does not replace the protection function of an RCD or RCBO.
2. The leakage detection function is disabled by default. Enable it manually if leakage monitoring is required.
3. A flashing WiFi indicator indicates that the device is in network configuration (pairing) mode.
4. A steady WiFi indicator indicates that the device has been successfully connected to the mobile app.
5. To ensure a longer service life, it is recommended to set the overcurrent protection value to approximately 70% of the rated current.

YC7VAs-WIFI-kWh Overvoltage and Undervoltage Protector

Overall and mounting dimensions(mm)



Final Distribution

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 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

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 protection.

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~80A
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 <Ism <Imax :); 0.1s (Ism≥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

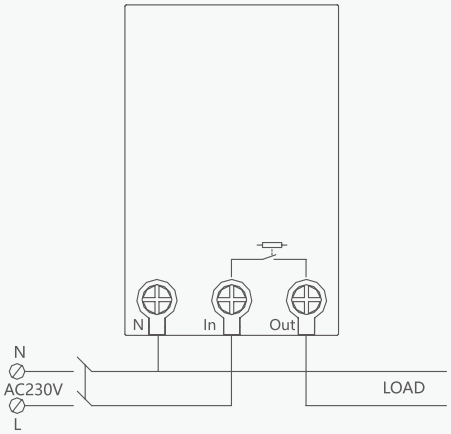
When a voltage is applied to the device, the digital indicator will display the current value of the voltage in the network.
A flashing light indicates that there is no voltage on the output of the device. If the supply voltage is within the set range, after a whilel(default is 30 seconds), the load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

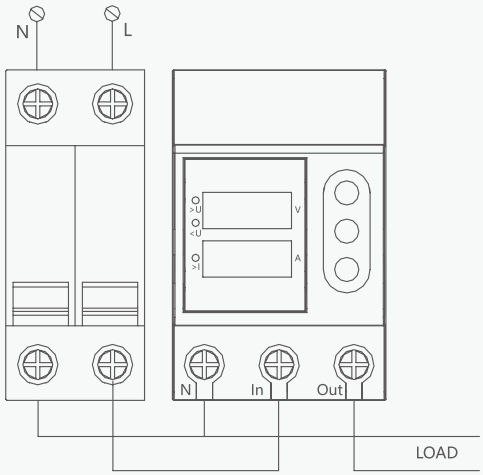
YC9VA Overvoltage and Undervoltage Protector

A

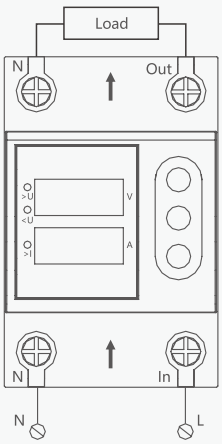
Wiring diagram

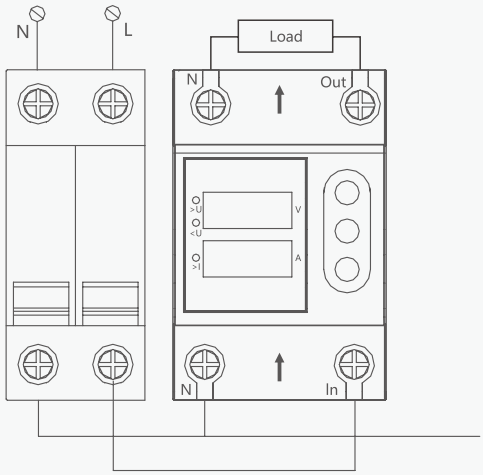
YC9VA



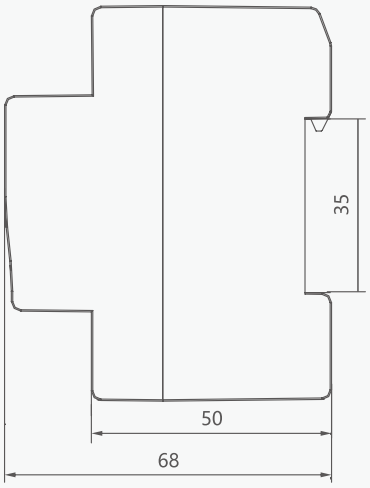


YC9VA2

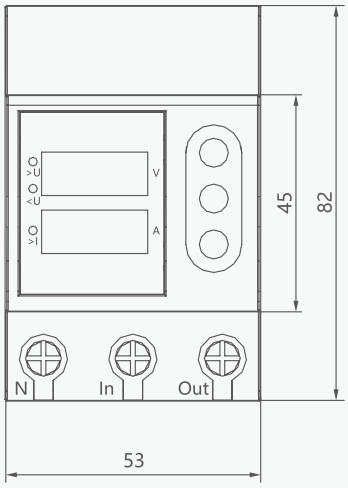




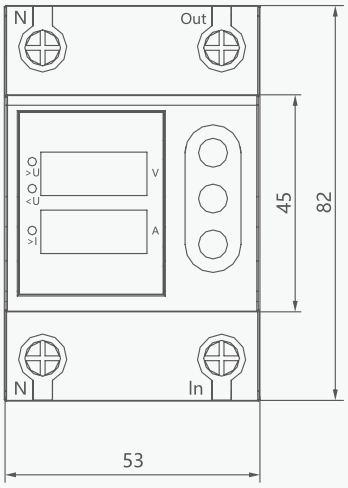
Overall and mounting dimensions(mm)



YC9VA



YC9VA 2



Final Distribution

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 protection.

YC9VA-3 Overvoltage and Undervoltage Protector

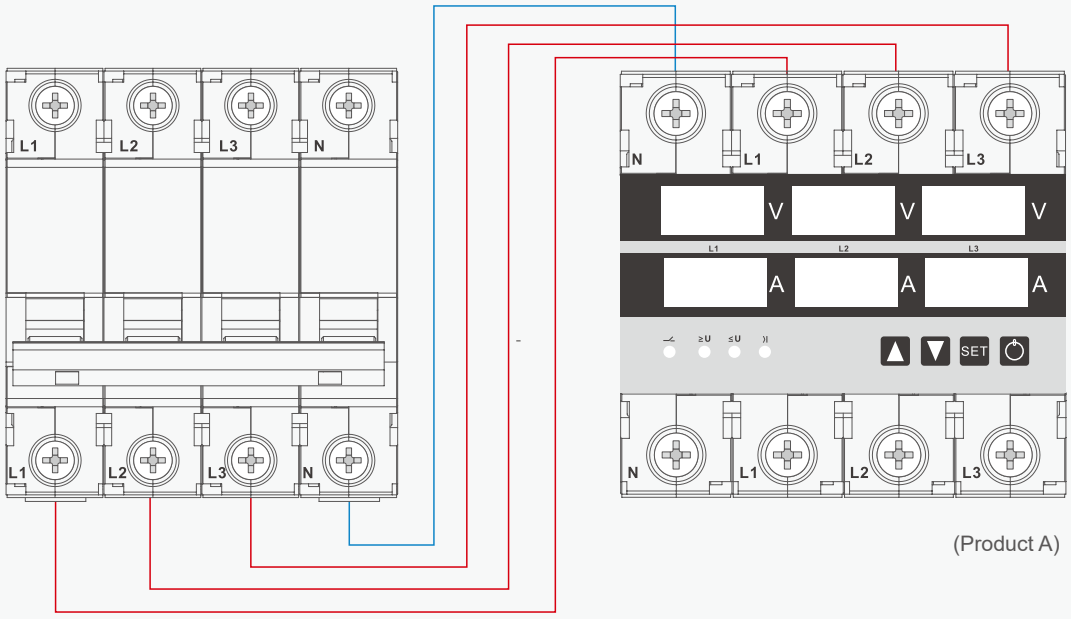
Technical data

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

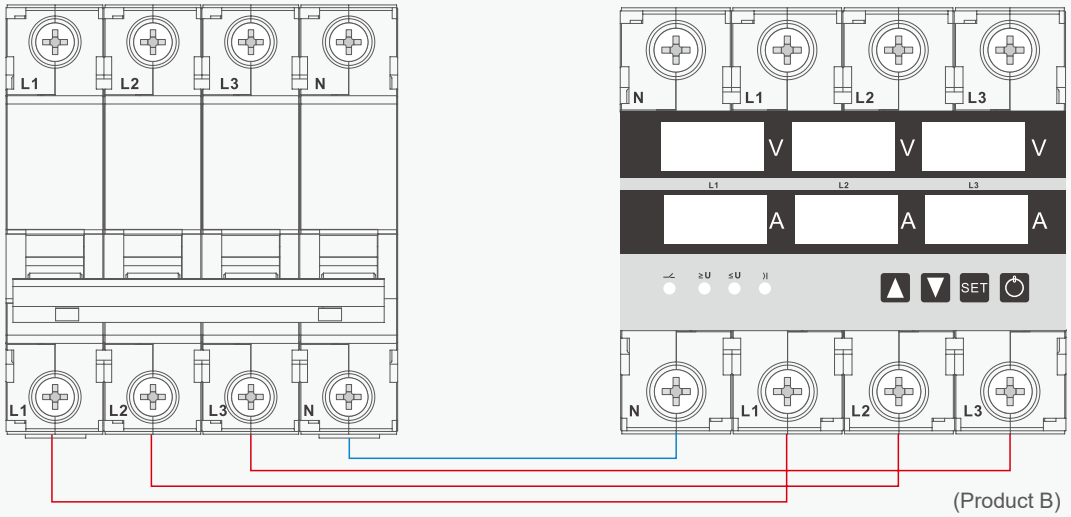
Rated supply voltage	AC 220				AC 380V			
Current specification	40A	63A	80A	100A	40A	63A	80A	100A
Rated operating current(In, A)	40	63	80	100	40	63	80	100
Maximum operating current Imax(A, with in 10 min)	63A	80A	100A	125A	63A	80A	100A	125A
Max. power of load(kW)	8.8	13.9	17.6	22	15.2	24	30.4	38

YC9VA-3 Overvoltage and Undervoltage Protector

Wiring diagram

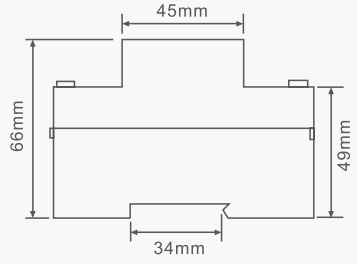


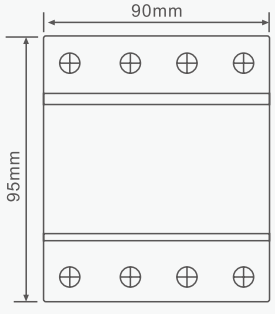
(Product A)



(Product B)

Overall and mounting dimensions(mm)





TMS-5 Modular Socket



General

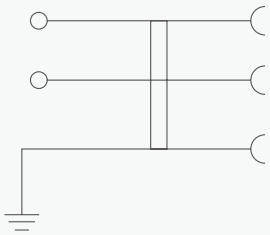
Grounded socket TMS-5 is suitable for single-phase power supply, used in the A auxiliary AC circuit for connecting electrical appliances (portable lamps, power supply, etc.).

Standard: IEC 60884-1.

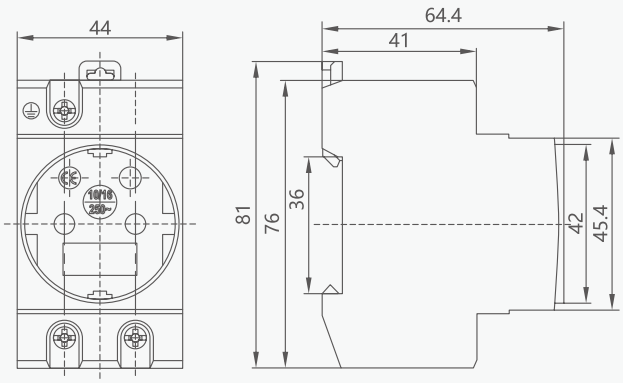
Technical data

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.

YCS7N Surge Protection Device



General

YCS7N series Surge Protection Device is suitable forTT, IT, TN-S,TN-C andTN-C-S, the power supply system with the rated voltage up to 110/230V andAC 50/60Hz. The product is usually installed in the incoming line low voltage distribution box of the building, and it can release 80kAlightning stroke current.

Standard: IEC61643-11

Type designation

YC S7N - □□□ □□□

Company code	Design code	Level	Current
YC	S7N -	□□□	□□□
CNC	S7N	I+II: T1(10/350μs) + T2(8/20μs) T2	/: Non communication R: Remote communication

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 type surge arrester, the two-stage surge arrester can be installed together.

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 power 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.

Final Distribution

YCS7N Surge Protection Device

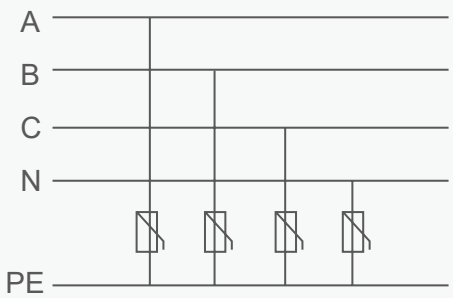
Technical data

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	110V/220V	275	0.7	5	10	/	<25	-40~+80°C
		440	1.0			/		
		275	1.2	10	20	/		
		440	1.5			/		
		275	1.5	20	40	/		
		440	2.2			/		
		275	1.8	30	60	/		
		440	2.4			/		
		275	2.0	40	80	/		
		440	2.5			/		
		275	1.5	/	/	12.5	<100	
		385	2.5	/	/			
		275	2.0	/	/	15		
		385	2.5	/	/			

Index / Code	N-PE/12.5	N-PE/15
continuous operating voltage Uc(V)	255V/280V/385V	
protection level UP(KV)	≤1.5kV≤2.0kV≤2.5	
Nominal operating current In 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

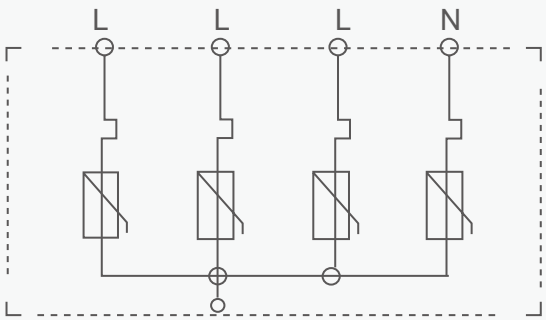
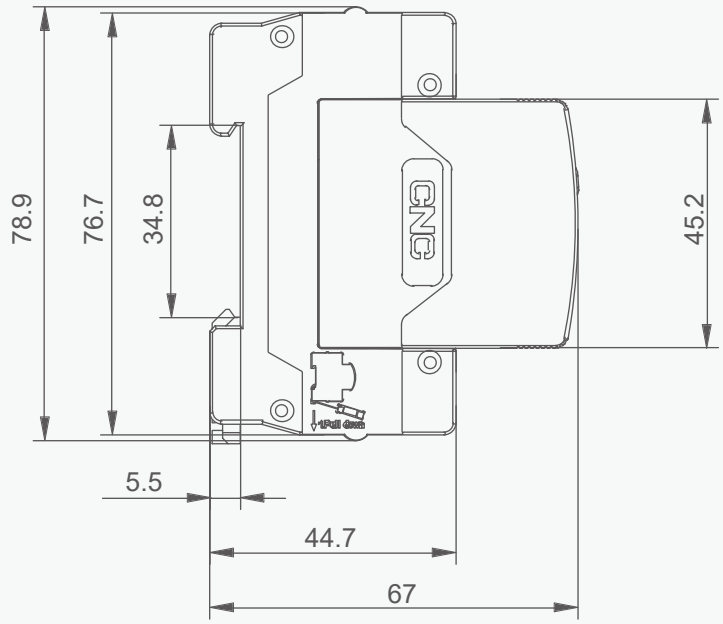
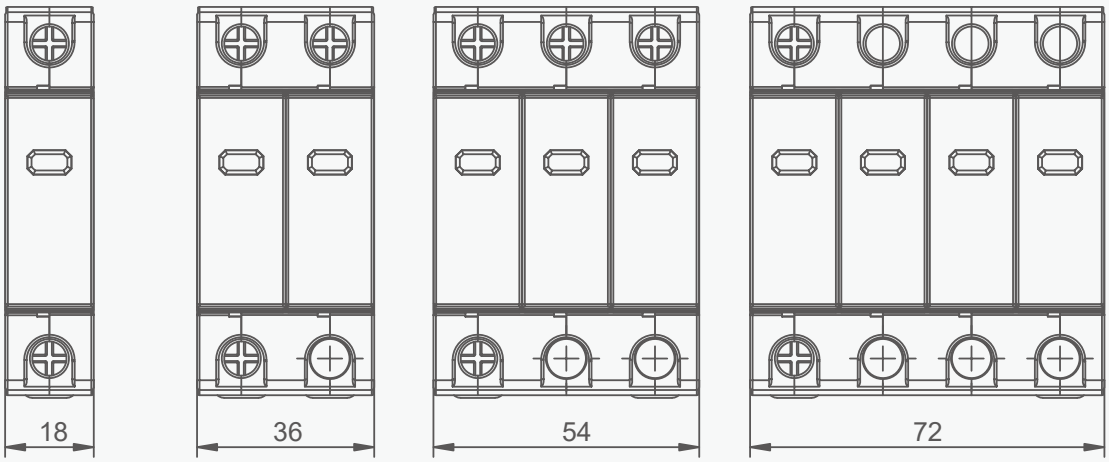


Diagram 2 1 Thermal failure release 2 Piezoresistor

YCS7N Surge Protection Device

Overall and mounting dimensions(mm)



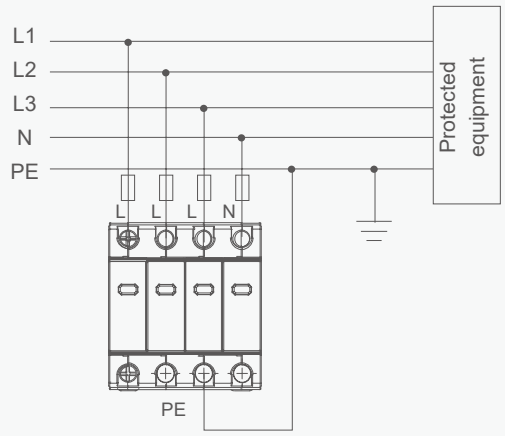


1 pole 2 pole 3 pole 4 pole

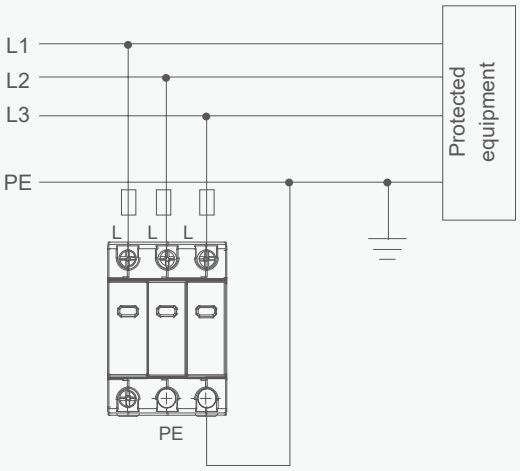
YCS7N Surge Protection Device

A

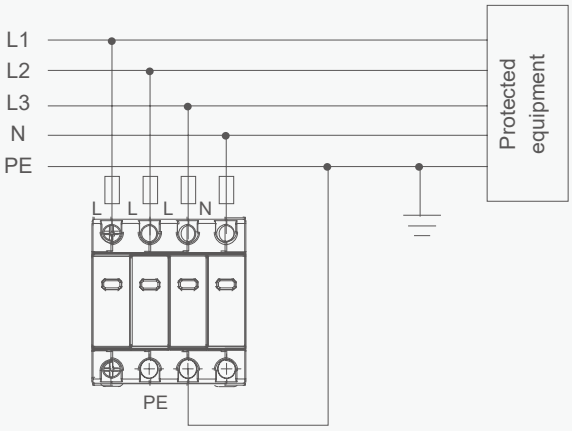
Wiring Diagram



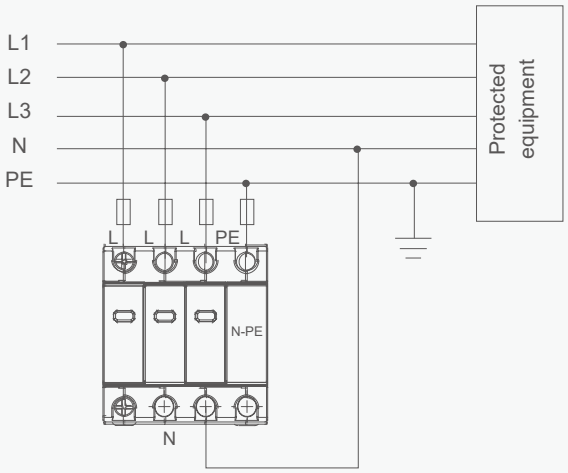
Wiring mode of TN-S power supply system



Wiring mode of TN-C power supply system

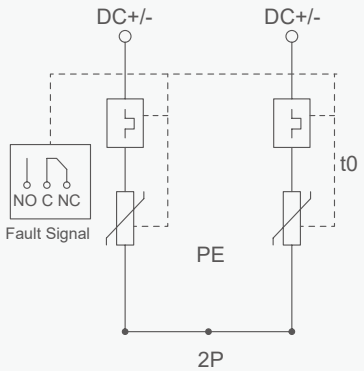


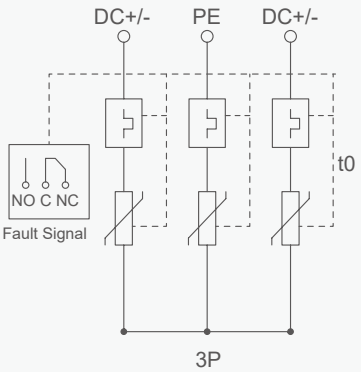
Wiring mode of TT power supply system



"3+1" wiring mode

Wiring Diagram with Remote Signalling





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

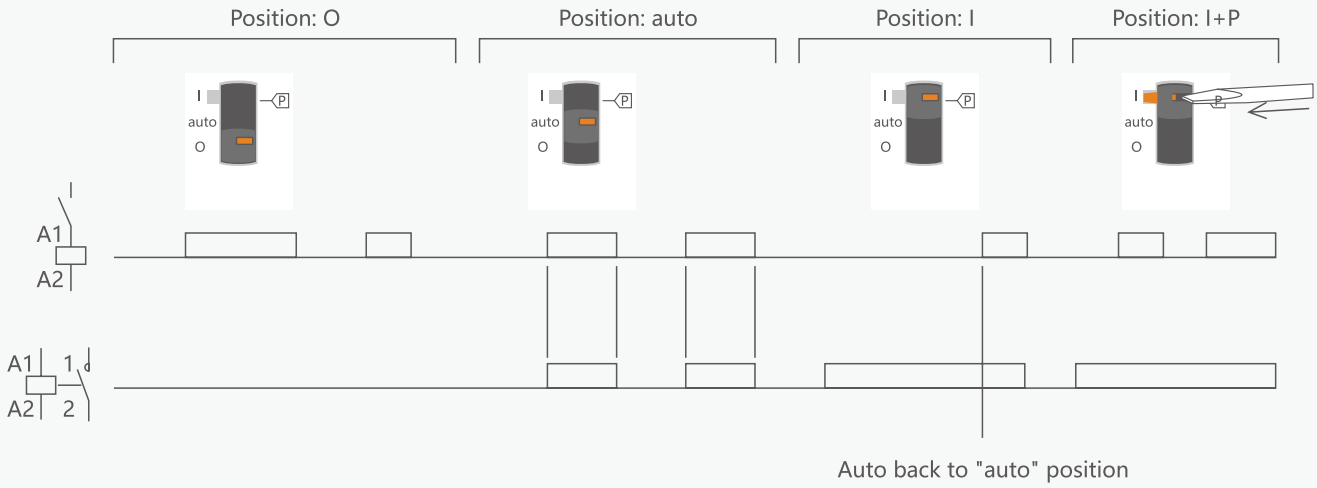
Technical data

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 Current 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						

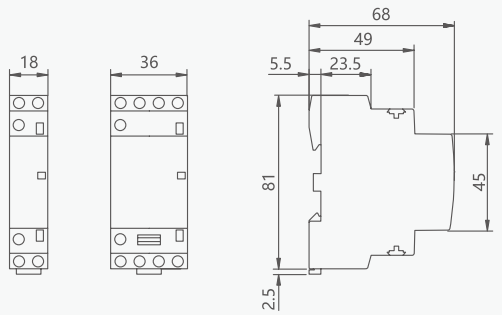
YCCH6(YCCH7) Modular Contactor (Manual Automatic Integration)

A

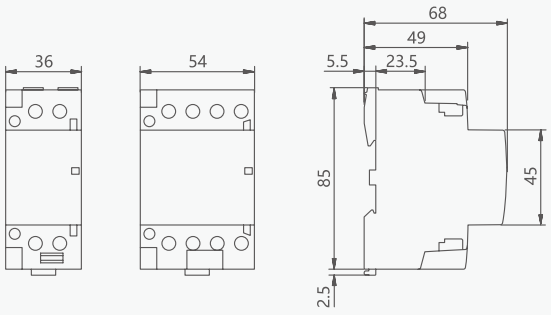
Operation (Manual Operation Contactor)



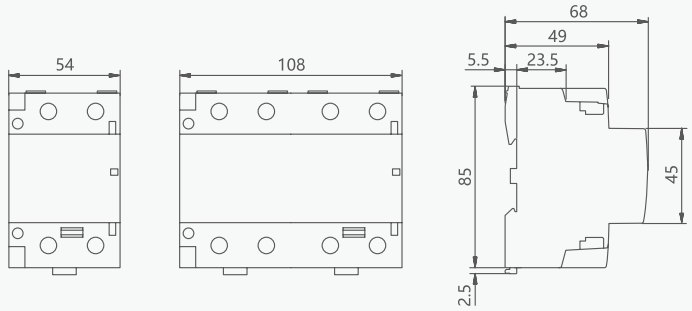
Overall and mounting dimensions(mm)



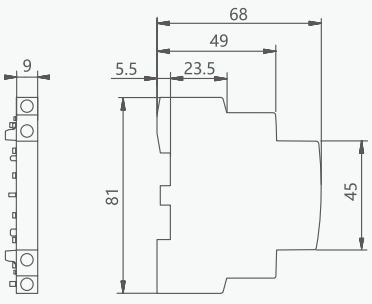
YCCH6/YCCH7 16-25A 2P 4P



YCCH6/YCCH7 40-63A 2P 4P



YCCH6 automatic type 100A 2P 4P

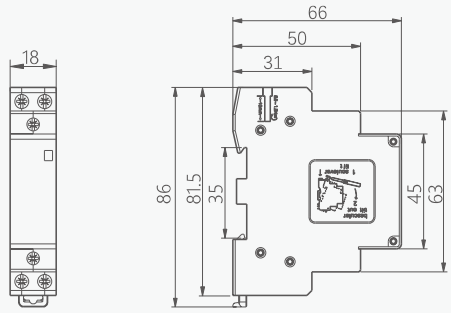


Auxiliary type O+F

YCCH6(YCCH7) Modular Contactor (Manual Automatic Integration)

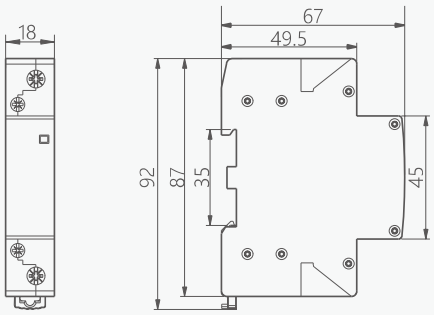


YCCH6-30/20
(Automatic style)





YCCH6-63SNO
(Automatic style)



Mounting accessories





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



YCWF-Y02 WIFI Smart Switch Controller

A



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

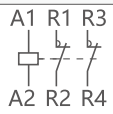
Technical data

	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

A



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		



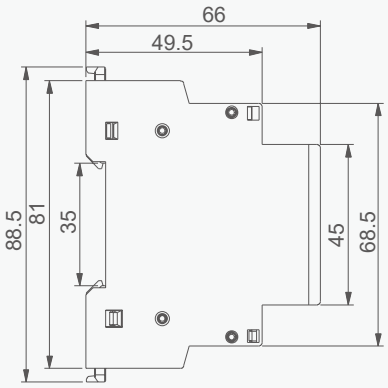
YCWF+YCCH6-100/20

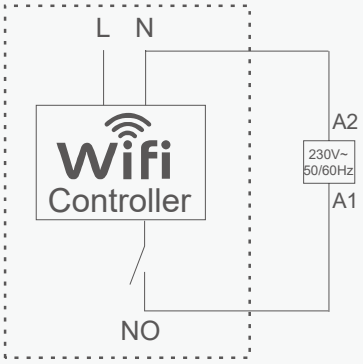
AC 3modules

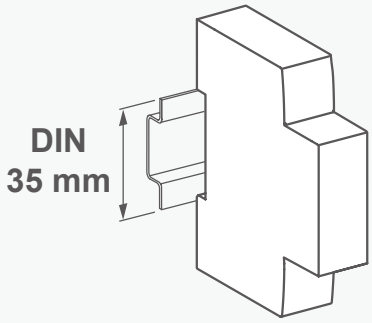
Model	Rated current(In)		Control voltage (V AC)(50Hz)	Circuit diagram
	AC-7a AC-1	AC-7b AC-3		
YCWF+YCCH6-100/40	100A	40A	24/110/230	A1 1 3 A2 2 4
YCWF+YCCH6-100/11	100A	40A	24/110/230	A1 R1 1 A2 R2 2
YCWF+YCCH6-100/02	100A	40A	24/110/230	A1 R1 R3 A2 R2 R4

YCWF-Y02 WIFI Smart Switch Controller

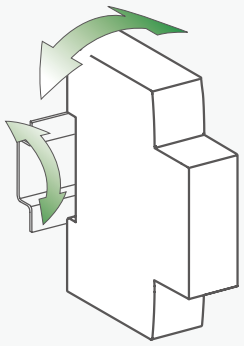
Overall and mounting dimensions(mm)







Installed on 35mm
standard guide rail



±30° vertical

YCX1-ST Surface Mount Distribution Box







General

YCX1-ST 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.

Operating conditions

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: 6/8/10/12/15/18/20/24/30/36/40/45/54/60 Ways

Overall and mounting dimensions(mm)

Specification \ Dimension	Surface installation W x H x D(mm)
YCX1-ST-6WAYS	174×221×80
YCX1-ST-8WAYS	210×221×80
YCX1-ST-10WAYS	263×221×80
YCX1-ST-12WAYS	299×221×80
YCX1-ST-15WAYS	354×221×80
YCX1-ST-18WAYS	403×251×80
YCX1-ST-20WAYS	445×251×80
YCX1-ST-24WAYS Single row	518×282×80
YCX1-ST-24WAYS Double row	300×345×80
YCX1-ST-30WAYS Double row	355×350×80
YCX1-ST-36WAYS Double row	405×370×80
YCX1-ST-40WAYS Double row	445×502×80
YCX1-ST-45WAYS Triple row	354×666×80
YCX1-ST-54WAYS Triple row	403×755×80
YCX1-ST-60WAYS Triple row	445×755×80

YCX2-FT Flush Mount Distribution Box







General

YCX2-FT 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.

Operating conditions

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: 6/8/10/12/15/18/20/24/30/36/40/45/54/60 Ways

Overall and mounting dimensions(mm)

Specification \ Dimension	Flush installation W x H x D(mm)
YCX2-FT-6WAYS	142×180×85
YCX2-FT-8WAYS	178×185×85
YCX2-FT-10WAYS	215×200×85
YCX2-FT-12WAYS	251×200×85
YCX2-FT-15WAYS	303×200×85
YCX2-FT-18WAYS	360×230×85
YCX2-FT-20WAYS	396×230×85
YCX2-FT-24WAYS Single row	475×230×85
YCX2-FT-24WAYS Double row	251×315×85
YCX2-FT-30WAYS Double row	304×322×85
YCX2-FT-36WAYS Double row	355×340×85
YCX2-FT-40WAYS Double row	396×460×85
YCX2-FT-45WAYS Triple row	303×630×85
YCX2-FT-54WAYS Triple row	360×720×85
YCX2-FT-60WAYS Triple row	396×720×85

YCX3 Surface Mount Distribution Box

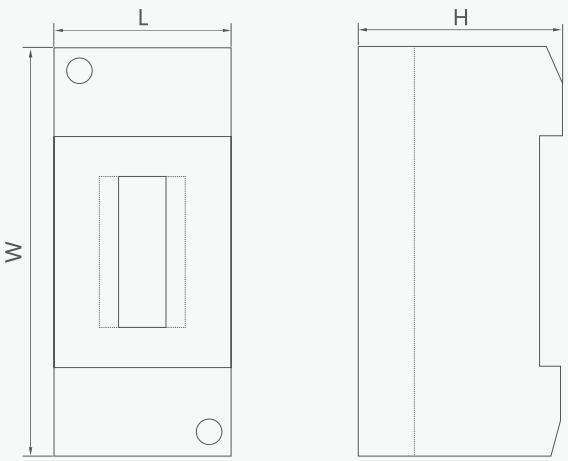
A







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

YCX5 Household Electrical Distribution Box







General

Distribution Box with Plastic Cover and Metal Enclosure:

- Suitable for electrical installation and supporting facilities of power distribution systems in building electrical engineering, as well as house renovation and decoration.
- Adopts an ABS flame-retardant panel and a spray-painted cold-rolled steel sheet enclosure.
- Features a push-type flip-top panel design; the spray-painted enclosure is sturdy, durable and corrosion-resistant.
- Enclosure thickness options:0.8mm/1.0mm/1.2mm.
- Standard confiquration: Panel, neutral and ground busbar assembly (neutral on the left, ground on the right),guide rail (1.Omm),enclosure.
- Can be equipped with circuit breakers.

Surface installation dimension specifications

Model	Rows	Overall Dimensions	Bottom box Dimensions
YCX5-FT 8	1	222×210×100	222×210×85
YCX5-FT 12	1	294×210×100	294×210×85
YCX5-FT 16	1	366×210×100	366×210×85
YCX5-FT 20	1	438×210×100	438×210×85
YCX5-FT 24	2	294×335×100	294×335×85
YCX5-FT 32	2	366×335×100	366×335×85
YCX5-FT 40	2	438×335×100	438×335×85

Recessed installation dimension specifications

Model	Rows	Overall Dimensions	Bottom box Dimension
YCX5-ST 8	1	222×210×100	195×190×85
YCX5-ST 12	1	294×210×100	268×190×85
YCX5-ST 16	1	366×210×100	340×190×85
YCX5-ST 20	1	438×210×100	412×190×85
YCX5-ST 24	2	294×335×100	268×315×85
YCX5-ST 32	2	366×335×100	340×315×85
YCX5-ST 40	2	438×335×100	412×315×85

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

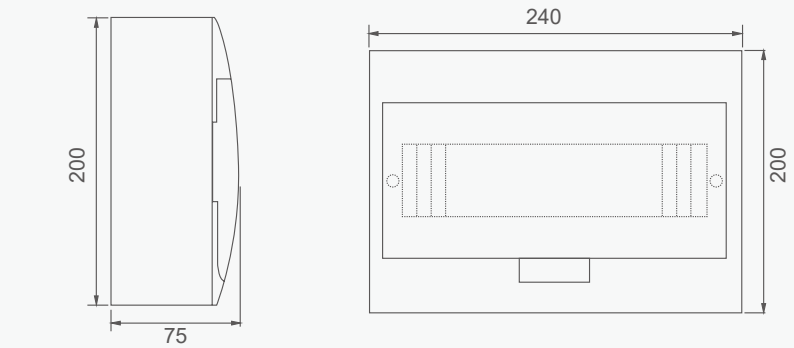
  Building electrical distribution system, house renovation and decoration.
- Installation mode

  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)



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

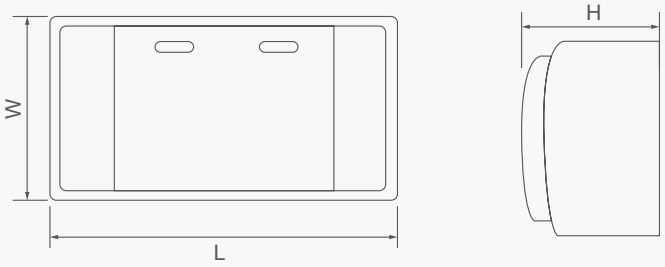
   Face covering of the distribution box adopts the push-type opening and closing mode, the face mask can be opened by pressing lightly, the self-locking positioning hinge structure is provided when opening.
3. Wiring design of the power distribution box

   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 exit holes.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.

Operating conditions

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: 4/8/12/18/24/36/54/72 Ways

Overall and mounting dimensions(mm)



Model	Dimension(mm)		
	L(mm)	W(mm)	H(mm)
HA-4P	143	206	100
HA-8P	215	210	120
HA-12P	300	260	140
HA-18P	410	285	140
HA-24P	415	300	140
HA-36P	570	298	140
HA-54P	569	413	138.5
HA-72P	878	413	160.4

HT Plastic Distribution Box

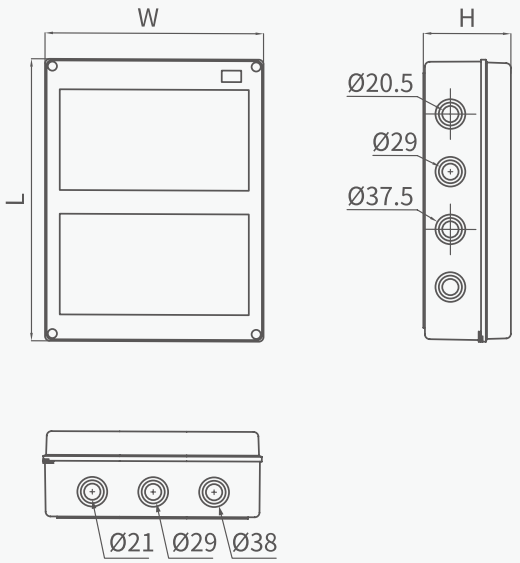




General

Waterproof, dustproof, with a protection level of IP65, UV resistant, and a scorching wire temperature of 650 °C . Holes can be opened according to customer requirements, with complete specifications and convenient installation.

Overall and mounting dimensions(mm)



Model	Dimension(mm)		
	L(mm)	W(mm)	H(mm)
HT-2P	55	120	95
HT-5P	119	159	90
HT-8P	201	155	90
HT-12P	255	198	108
HT-15P	309	198	108
HT-18P	363	198	108
HT-24P	354	273	108

YCMET-R British Distribution Box



General

All DANSON units are white coloured. All units feature a robust metal base, lid & door.

The DIN rail is complete with a useful alignment and fixing mechanism that allows quick installation. Cable entry points are located on top, bottom, side and rear surfaces.

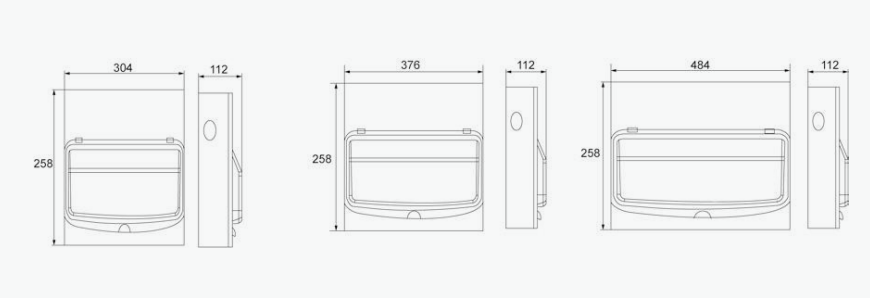
Main Incomer Rating: 4-way enclosures: 63A; 6, 8, 10, 12, 14, 16, 18& 24-way enclosures: 100A. Degree of protection to BS EN 60529 to IP2XC. Precautions must be taken to maintain theIP rating, e.g.use of cable glands and knockouts. BS EN 61439-3

Type designation

YC MET - R 6

- 6 ways
- Round type
- Metal consumer units
- Company code

Overall and mounting dimensions(mm)



Model	Dimension(mm)
YCMET-R-4	110*175*91
YCMET-R-6	160*259*112
YCMET-R-8	196*259*112
YCMET-R-10	232*259*112
YCMET-R-12	268*259*112
YCMET-R-14	304*259*112
YCMET-R-16	376*259*112
YCMET-R-18	448*259*112
YCMET-R-24	484*259*112

SH-Q3 Water-proof Junction Box





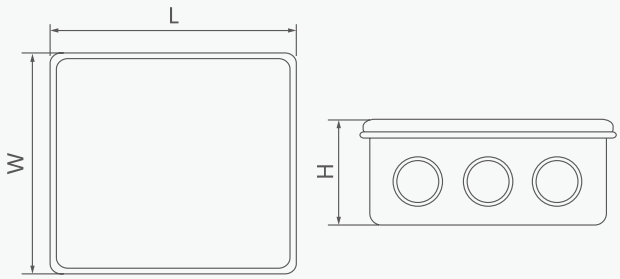
General

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

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
- Frequencyy: 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 installation: 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
YCS1-22/150	200	200	150	1.2	1.2	2
YCS1-252/150	250	200	150	1.2	1.2	2
YCS1-32/15	300	200	150	1.2	1.2	2
YCS1-32/20	300	200	200	1.2	1.2	2
YCS1-325/150	300	250	150	1.2	1.2	2
YCS1-325/200	300	250	200	1.2	1.2	2
YCS1-325/250	300	250	250	1.2	1.2	2
YCS1-33/150	300	300	150	1.2	1.2	2
YCS1-33/200	300	300	200	1.2	1.2	2
YCS1-33/250	300	300	250	1.2	1.2	2
YCS1-43/150	400	300	150	1.2	1.2	2
YCS1-43/200	400	300	200	1.2	1.2	2
YCS1-43/250	400	300	250	1.2	1.2	2
YCS1-43/300	400	300	300	1.2	1.2	2
YCS1-44/150	400	400	150	1.2	1.2	2
YCS1-54/200	400	400	200	1.2	1.2	2
YCS1-54/250	400	400	250	1.2	1.2	2
YCS1-54/300	400	400	300	1.2	1.2	2
YCS1-53/150	500	300	150	1.2	1.2	2
YCS1-53/200	500	300	200	1.2	1.2	2
YCS1-53/250	500	300	250	1.2	1.2	2
YCS1-53/300	500	300	300	1.2	1.2	2
YCS1-54/150	500	400	150	1.2	1.2	2
YCS1-54/200	500	400	200	1.2	1.2	2
YCS1-54/250	500	400	250	1.2	1.2	2
YCS1-54/300	500	400	300	1.2	1.2	2
YCS1-55/150	500	500	150	1.2	1.2	2
YCS1-55/200	500	500	200	1.2	1.2	2
YCS1-55/250	500	500	250	1.2	1.2	2
YCS1-55/300	500	500	300	1.2	1.2	2
YCS1-64/150	600	400	150	1.2	1.2	2
YCS1-64/200	600	400	200	1.2	1.2	2
YCS1-64/250	600	400	250	1.2	1.2	2
YCS1-64/300	600	400	300	1.2	1.2	2
YCS1-65/150	600	500	150	1.2	1.2	2
YCS1-65/200	600	500	200	1.2	1.2	2
YCS1-65/250	600	500	250	1.2	1.2	2
YCS1-65/300	600	500	300	1.2	1.2	2
YCS1-66/150	600	600	150	1.2	1.2	2
YCS1-66/200	600	600	200	1.2	1.2	2
YCS1-66/250	600	600	250	1.2	1.2	2
YCS1-66/300	600	600	300	1.2	1.2	2
YCS1-74/200	700	400	200	1.2	1.2	2

YCS1 Enclosure





Model	H(mm)	W(mm)	D(mm)	Thickness		
				Door/mm	Body/mm	M.P/mm
YCS1-74/300	700	400	300	1.2	1.2	2
YCS1-75/150	700	500	150	1.2	1.2	2
YCS1-75/200	700	500	200	1.2	1.2	2
YCS1-75/250	700	500	250	1.2	1.2	2
YCS1-75/300	700	500	300	1.2	1.2	2
YCS1-76/200	700	600	200	1.2	1.2	2
YCS1-76/250	700	600	250	1.2	1.2	2
YCS1-76/300	700	600	300	1.2	1.2	2
YCS1-86/200	800	600	200	1.5	1.5	2
YCS1-86/250	800	600	250	1.5	1.5	2
YCS1-86/300	800	600	300	1.5	1.5	2
YCS1-86/350	800	600	350	1.5	1.5	2
YCS1-86/400	800	600	400	1.5	1.5	2
YCS1-88/200	800	800	200	1.5	1.5	2
YCS1-88/250	800	800	250	1.5	1.5	2
YCS1-88/300	800	800	300	1.5	1.5	2
YCS1-88/400	800	800	400	1.5	1.5	2
YCS1-106/200	1000	600	200	1.5	1.5	2
YCS1-106/250	1000	600	250	1.5	1.5	2
YCS1-106/300	1000	600	300	1.5	1.5	2
YCS1-107/200	1000	700	200	1.5	1.5	2
YCS1-108/200	1000	800	200	1.5	1.5	2
YCS1-108/250	1000	800	250	1.5	1.5	2
YCS1-108/300	1000	800	300	1.5	1.5	2
YCS1-108/400	1000	800	400	1.5	1.5	2
YCS1-1010/250	1000	1000	250	1.5	1.5	2
YCS1-1010/300	1000	1000	300	1.5	1.5	2
YCS1-126/200	1200	600	200	1.5	1.5	2
YCS1-126/250	1200	600	250	1.5	1.5	2
YCS1-126/300	1200	600	300	1.5	1.5	2
YCS1-128/200	1200	800	200	1.5	1.5	2
YCS1-128/250	1200	800	250	1.5	1.5	2
YCS1-128/300	1200	800	300	1.5	1.5	2
YCS1-1210/250	1200	1000	250	1.5	1.5	2
YCS1-1210/300	1200	1000	300	1.5	1.5	2
YCS1-1210/400	1200	1000	400	1.5	1.5	2
YCS1-1212/250	1200	1200	250	1.5	1.5	2
YCS1-1212/300	1200	1200	300	1.5	1.5	2
YCS1-146/300	1400	600	300	1.5	1.5	2
YCS1-148/300	1400	800	300	1.5	1.5	2
YCS1-148/400	1400	800	400	1.5	1.5	2
YCS1-1410/300	1400	1000	300	1.5	1.5	2
YCS1-1410/400	1400	1000	400	1.5	1.5	2
YCS1-1412/300	1400	1200	300	1.5	1.5	2

Electronic phase switch



General

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!

Type designation

Model	Rated current
YC6VAZs	63A
Electronic phase switch YC6VAZs	63A 80A 100A

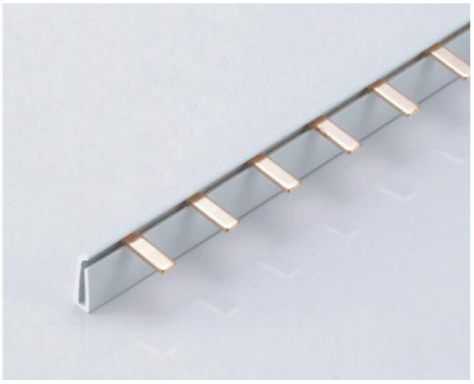
Technical data

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		
Mechanical life	10		
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	100A
Max power of load (KW)	13.9kW	17.6kW	22kW

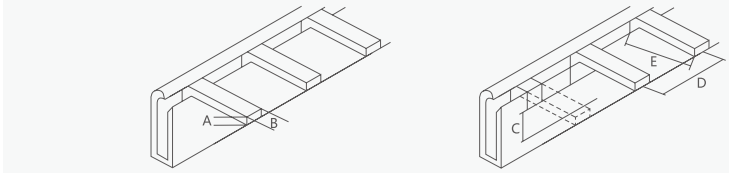
Busbar

Busbar Pin

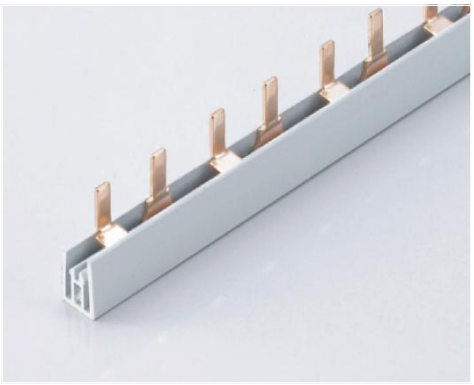
Material: Copper
Features: good conductivity, low contact resistance, safe and reliable performance.



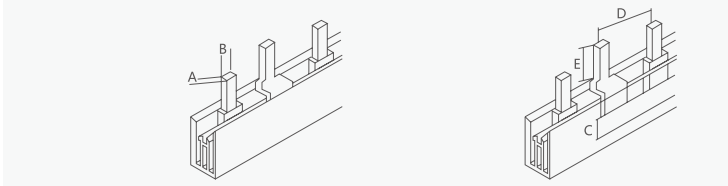
PIN 1P



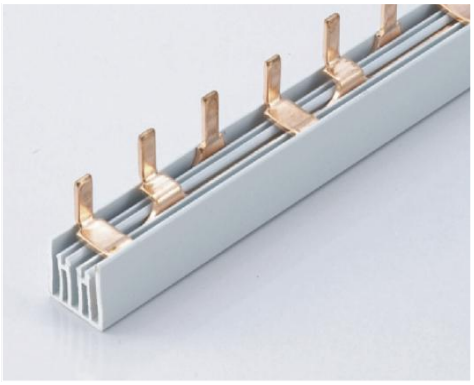
Specification	Model	A	B	C	D	E	Reference current
PIN	1P-63	1.4	4	7	17.8	11.5	63A
PIN	1P-80	1.5	4	9	17.8	11.5	80A
PIN	1P-100	1.7	4	9	17.8	11.5	100A



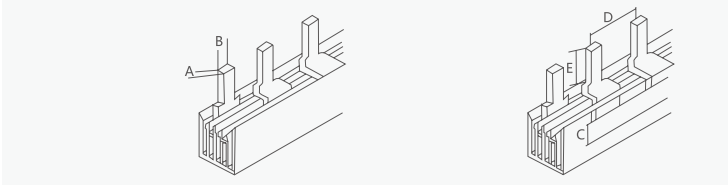
PIN 2P



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



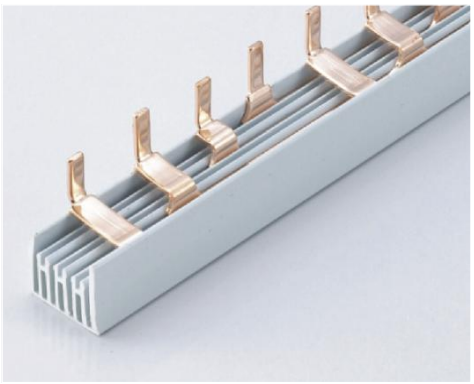
Specification	Model	A	B	C	D	E	Reference current
PIN	3P-63	1.4	4	7	17.8	11.5	63A
PIN	3P-80	1.5	4	9	17.8	11.5	80A
PIN	3P-100	1.8	4	9	17.8	11.5	100A

Busbar

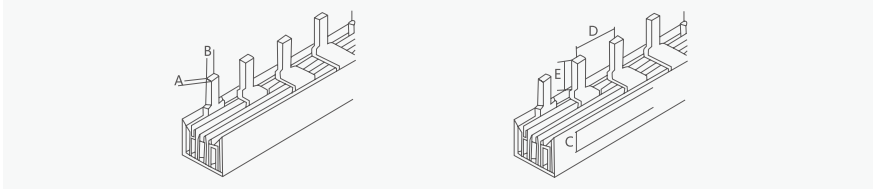
A

Busbar Pin

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



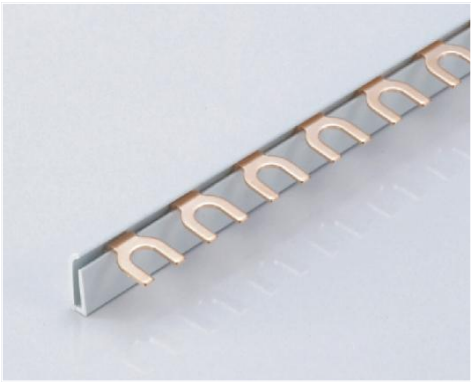
PIN 4P



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

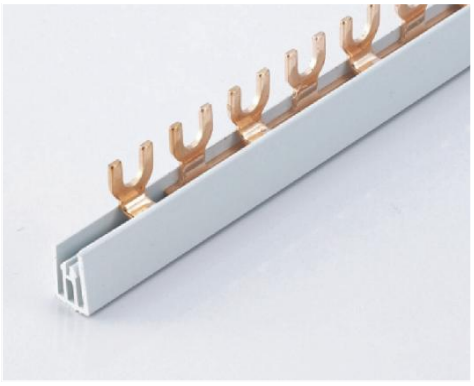
Material: Copper
Features: good conductivity, low contact resistance, safe and reliable performance.



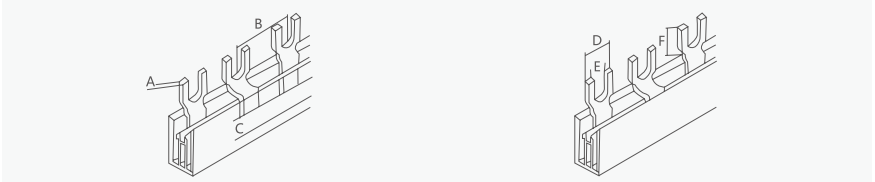
FORK 1P



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

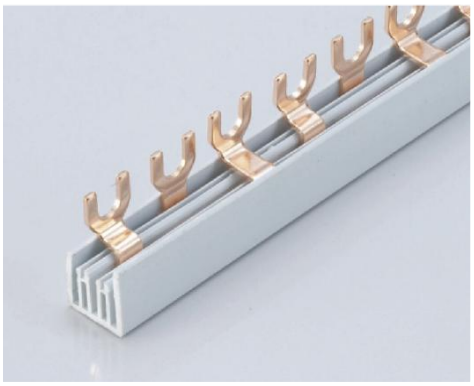


Specification	Model	A	B	C	D	E	F	Reference current
FORK	2P-63	1.4	17.8	7	12	6	12	63A
FORK	2P-80	1.5	17.8	9	12	6	12	80A
FORK	2P-100	1.8	17.8	9	12	6	12	100A

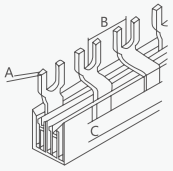
Busbar

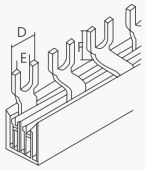
Busbar Fork

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

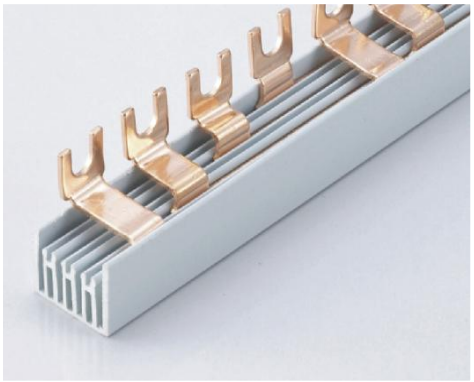


FORK 3P

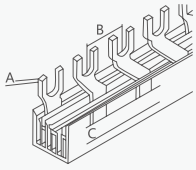


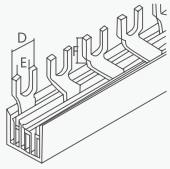


Specification	Model	A	B	C	D	E	F	Reference current
FORK	3P-63	1.4	17.8	7	12	6	12	63A
FORK	3P-80	1.5	17.8	9	12	6	12	80A
FORK	3P-100	1.8	17.8	9	12	6	12	100A



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



RT18-32X



RT18-32

General

RT18 Cylindrical contact caps fuse protector is applicable to the distribution equipment with AC 50Hz, rated voltage of 690V and rated current not more than 125A for circuit overload 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

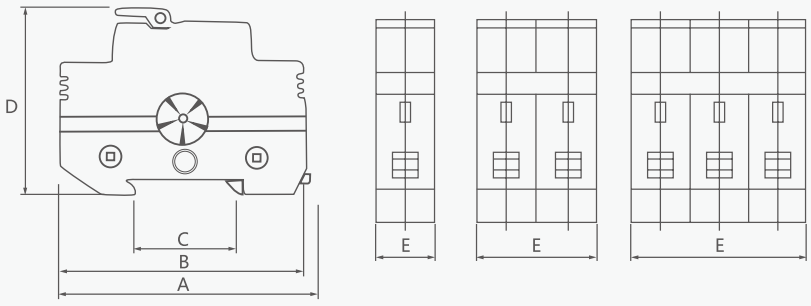
Technical data

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	690	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

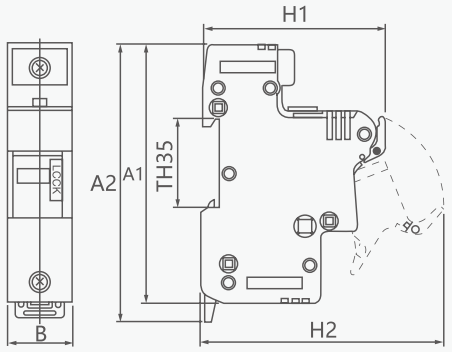


RT18L-125

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

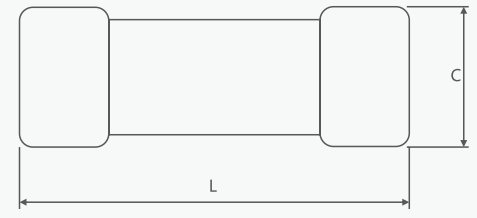
Fuse Link



Fuse Link

Dimension(mm)	Rated current (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		$51\pm^{0.6}_{10}$	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

Overall and mounting dimensions(mm)



YCLP Plug-in Circuit Breaker







General

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

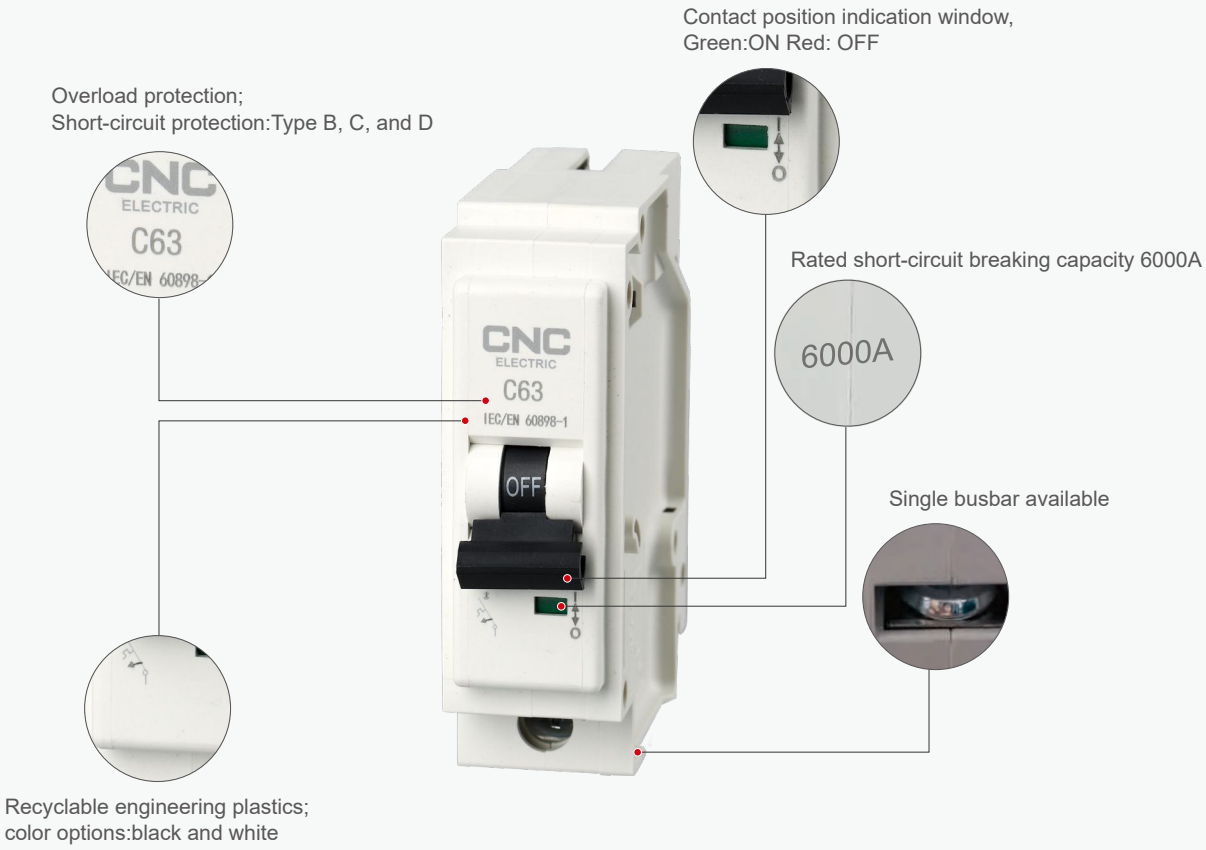
Standard:IEC60898-1

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		
Frequencyy 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		

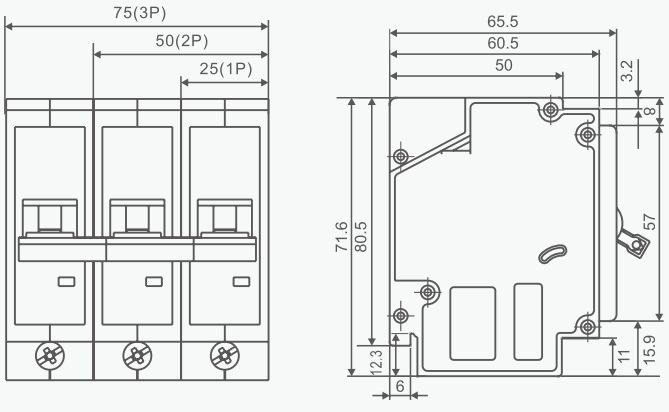
Final Distribution

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

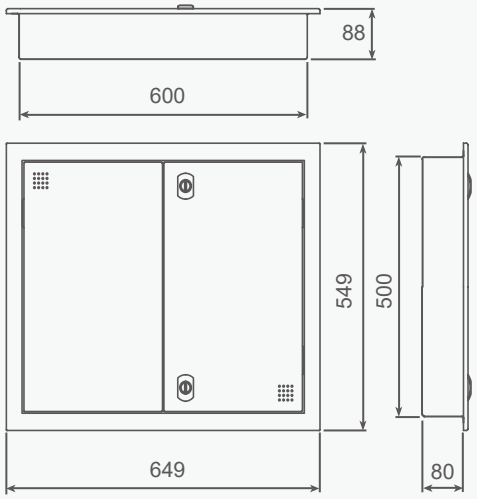
YCX4 series network terminal box, made of metal, small wall thickness, wide coverage, to meet the free choice of cable TV, Internet and telephone services.

Features

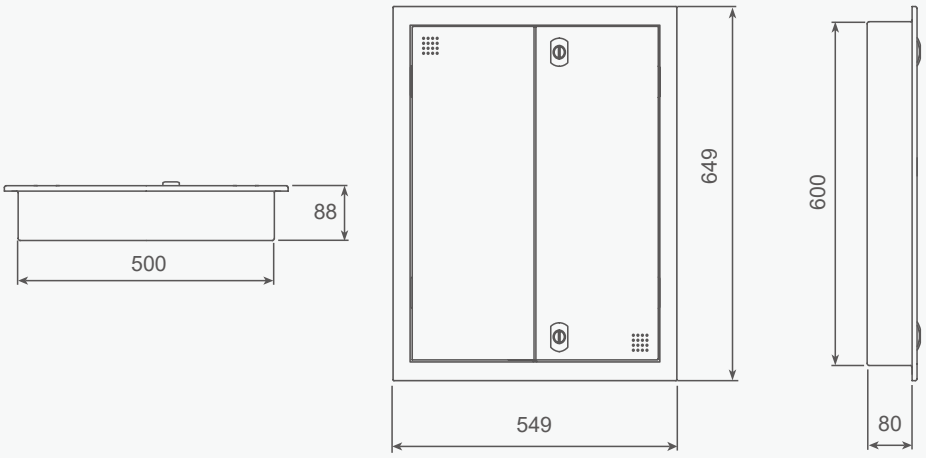
1. The base, cover, door and mounting plate are made of steel plate, color Ral 7032, using micro-texture polyester electrostatic painting process;
2. No partition box wall, input and output have greater versatility;
3. Independent cover and door, easy to install;
4. Detachable door, box through two doors 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)

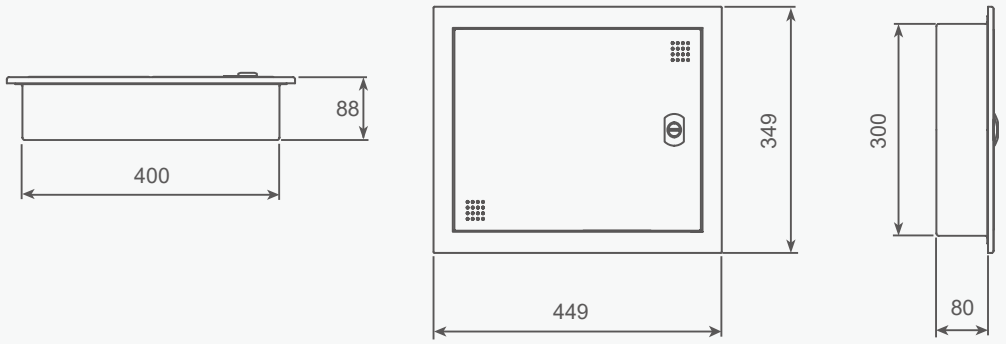


YCX4-01

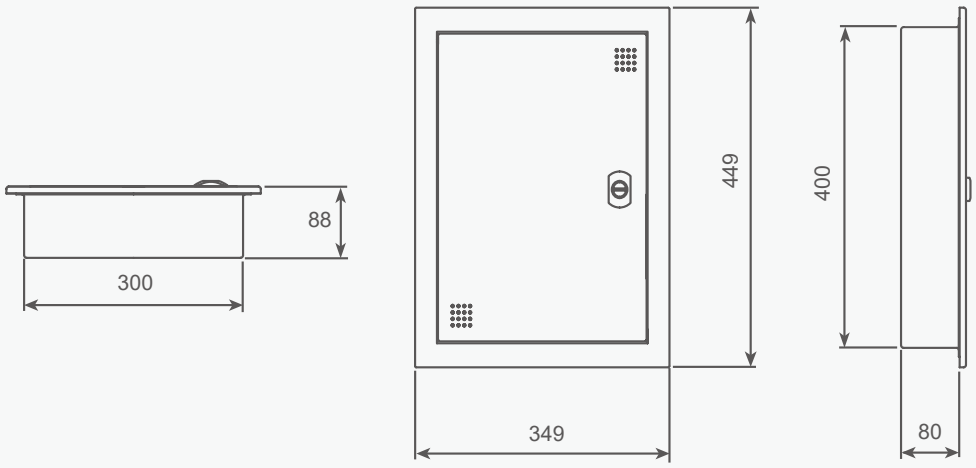


YCX4-02

YCX4 Box Terminal Network



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

Final Distribution

THQC,THQL,TQL,THQP,THQD

Technical data

Type		THQC			THQL			TQL			THQP		THQD		
															
Rated current In (A)		10, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100			10, 15, 20, 25, 30, 35, 40, 50, 60			10, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100			10, 15, 20, 25, 30, 35, 40, 50, 60		10, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100		
Poles		1	2	3	1	2	3	1	2	3	1	2	1	2	3
Rated insulation voltage Ui (AC V)		400			400			400			400		400		
Rated impulse - stand voltage Uimp (V)		4000			4000			4000			4000		4000		
Rated working voltage Ue (AC V)		380			380			380			380		380		
Frequencyy f (Hz)		50/60			50/60			50/60			50/60		50/60		
Rated limited short - circuit breaking capacity Icu (KA)	127V	5	/	/	5	/	/	5	/	/	5	/	5	/	/
	220V	3	5	5	3	5	5	3	5	5	3	5	3	5	5
	380V	/	3	3	/	3	3	/	3	3	/	3	/	3	3
Operation characteristic (Times)	Mechanical life	8500			8500			8500			8500		8500		
	Electrical life	1500			1500			1500			1500		1500		
Outlook dimension	L (mm)	100			85			85			84		84		
	W (mm)	25	50	75	25	50	75	25	50	75	12	25	50		
	H (mm)	75			75			75			75		75		
Installation		fixed			plug-in			plug-in			plug-in		plug-in		
The Material of Enclosure		bakelite/resin			resin			bakelite/resin			resin		resin		

Note: 1.Rated working short circuit breaking capacity Ics=50%Icu

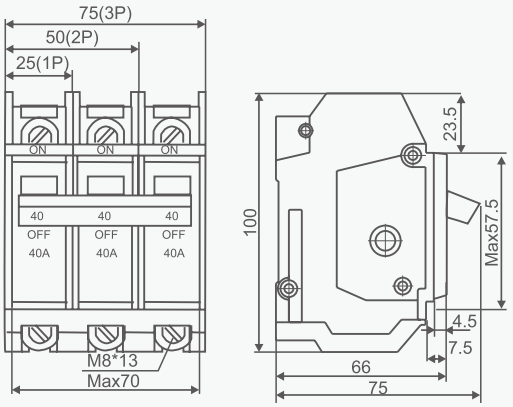
2.Standard: GB14048-2, IEC60947-2

THQC,THQL,TQL,THQP,THQD

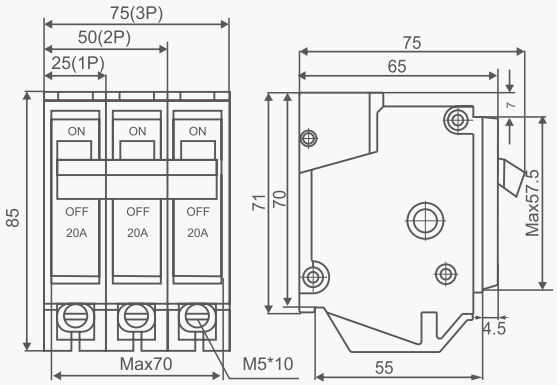
A

Overall and mounting dimensions(mm)

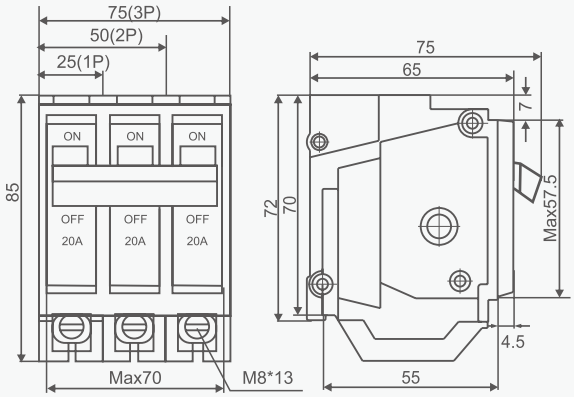
THQC



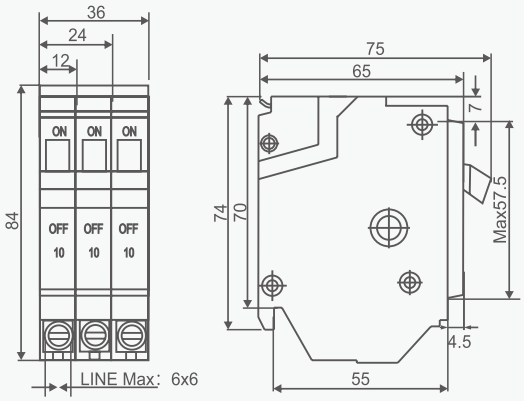
THQL



TQL



THQP



THQD

