

Final Distribution

YCB6 series



Page A02

YCB6-63

Miniature Circuit Breaker



Page A07

YCB6H-63

Miniature Circuit Breaker



Page A09

YCB6-125

Miniature Circuit Breaker

YCB7 series



Page A13

YCB7-63N

Miniature Circuit Breaker



Page A19

YCB7-125N

Miniature Circuit Breaker



Page A22

YCB7LE-63Y

Residual Current Circuit Breaker
with Over Current Protection



Page A24

YCB7NLE-63

Residual Current Circuit Breaker
with Over Current Protection



Page A29

YCB7NLE-125

Residual Current Circuit Breaker
with Over Current Protection



Page A32

YCB7RL-63

RCCB Electromagnetic



Page A34

YCB7RL-100

RCCB Electromagnetic



Page A36

YCH7-125N

Miniature Circuit Breaker



Page A38

YCD7

Residual Current Circuit Breaker
with Over Current Protection

YCB3 series



Page A41

YCB3-63

Miniature Circuit Breaker



Page A44

YCB3RL-63

RCCB Electromagnetic



Page A46

YCB3Z-40

Miniature Changeover Switch

Final Distribution

YCB9 series



Page A50

YCB9N-40

Miniature Circuit Breaker DPN



Page A52

YCB9-63

Miniature Circuit Breaker



Page A54

YCB9-63R

Miniature Circuit Breaker



Page A58

YCB9-80M/H

Miniature Circuit Breaker



Page A61

YCB9-125

Miniature Circuit Breaker



Page A63

YCB9NL-40

Residual Current Circuit Breaker
with Over Current Protection



Page A65

YCB9NL-40LS

Residual Current Circuit Breaker
with Over Current Protection



Page A68

YCB9L-40

Residual Current Circuit Breaker
with Over Current Protection



Page A71

YCB9HL-63

Residual Current Circuit Breaker
with Over Current Protection



Page A74

YCB9LE-80M/H

Residual Current Circuit Breaker
with Over Current Protection



Page A76

YCB9RL-100

RCCB Electromagnetic



Page A78

YCB9RL-63B

RCCB Electromagnetic



Page A80

YCH9-40

Isolating Switch



Page A82

YCH9s-125

Isolating Switch

Arc Fault Detection Device



Page A84

AFDD9RL-63

Arc Fault Detection
Device (AFDD+RCBO)



Page A87

AFDD9NL-40

Arc Fault Detection
Device (AFDD+RCBO)



Page A92

AFDD9LE-63Y

Arc Fault Detection
Device (AFDD+RCBO)



Page A95

AFDD9-63

Arc Fault Detection
Device (AFDD+MCB)



Page A98

AFD9-63

Arc Fault Detection
Device (AFDD+Isolator)



Page A100

AFDD

Arc Fault Detection
Devices

Final Distribution

Smart circuit breaker



Page A106
YCB9ZF-100AP
(4G/WIFI)
LCD



Page A106
YCB9ZF-100APE
(4G/WIFI)
LCD



Page A114
YCB9ZF-100W WIFI



Page A118
YCB9ZF-80AP



Page A118
YCB9LZF-80AP



Page A124
YCB9NZF-40AP



Page A130
YCSi

Changeover switch



Page A132
YCBZN-40



Page A133
YCBZ-63



Page A134
YCBZ-125

Indicator



Page A135
ADM



Page A136
YCD9

Voltage meter



Page A137
YCM

Overvoltage and undervoltage protector



Page A141
YC7VAN
Overvoltage and Under-
voltage Protector



Page A146
YC7VAN-WIFI kWh
Voltage and Current
Protector



Page A150
YC9VA
Voltage protector with
current control



Page A153
YC9VA-3
Voltage protector
with current control

Modular socket



Page A156
TMS-5

Surge protection device



Page A157
YCS7N

Modular contactor



Page A161
YCCH6
Automatic type



Page A161
YCCH7
Manual automatic
integration

Smart switch controller



Page A164
YCWF-Y02 WIFI

Final Distribution

Consumer box



Page A168
YCX1-ST
Surface Mount Distribution
Box (IP40)



Page A169
YCX2-FT
Flush Mount Distribution
Box (IP40)



Page A170
YCX3
Surface Mount Distribution
Box (IP40)



Page A171
YCX6
Lighting Distribution Box
(IP40)



Page A172
HA
Water Proof Distribution Box
(IP65)



Page A173
HT
Waterproof Distribution Box
(IP65)



Page A174
YCMET-R
British Distribution Box



Page A175
SH-Q3
Water Proof Junction Box
(IP65 without hole IP54 with hole)



Page A176
YCS1
Enclosure
(IP65)

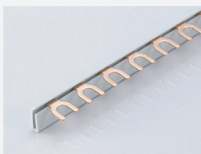


Page A179
**Electronic Phase
Switch**

Busbar



Page A180
Busbar Pin



Page A180
Busbar Fork

Low voltage fuse



Page A183
RT18



Page A183
RT18L

Plug-in circuit breaker



Page A185
YCLP

Multimedia distribution box



Page A187
YCX4

THQ



Page A190
THQ

YCB6 Series

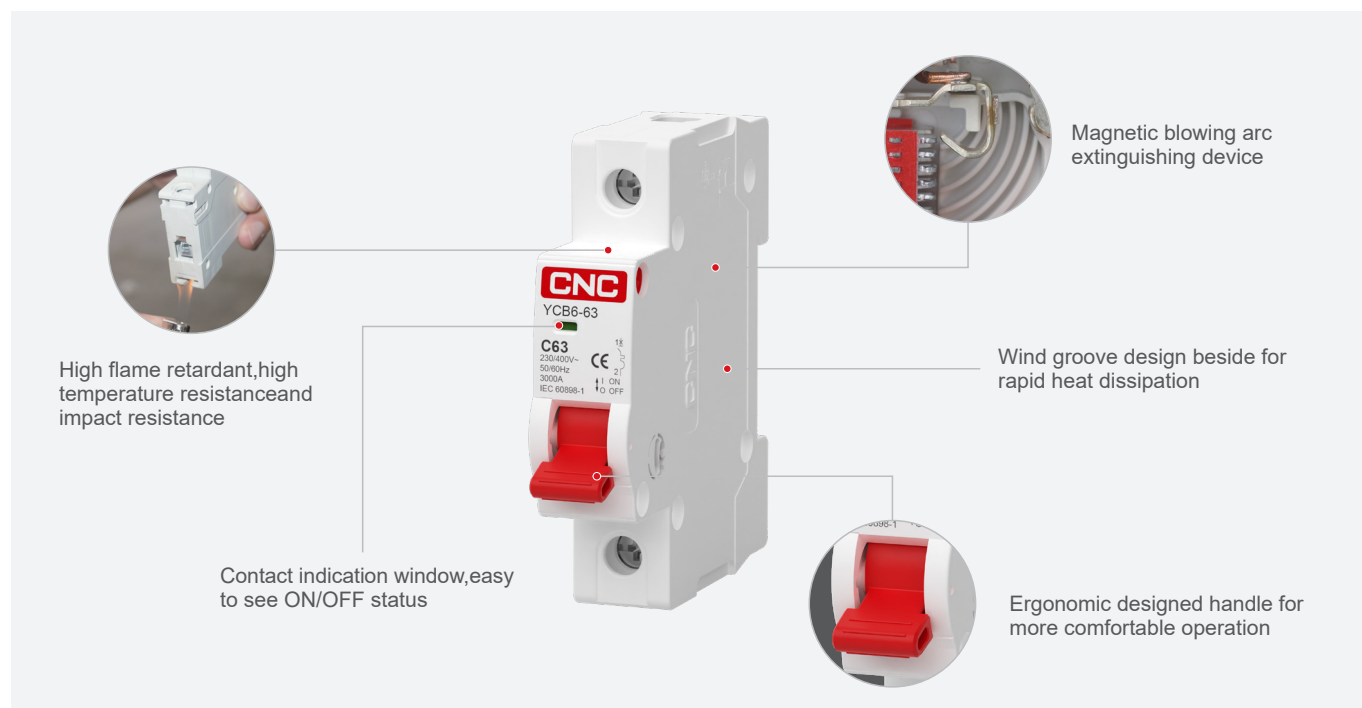


- Reliable performance for more safety
- Convenient to use

CNC
ELECTRIC

Final Distribution

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	
								Current
								Tripping type
								1P,2P,3P,4P
								Breaking No: 3kA H: 4.5kA
								Series code
								Miniature circuit breaker
								Company code

Final Distribution

YCB6-63 MCB

A

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
		ln-lbs	18
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip
	Connection		From top or bottom

Selection

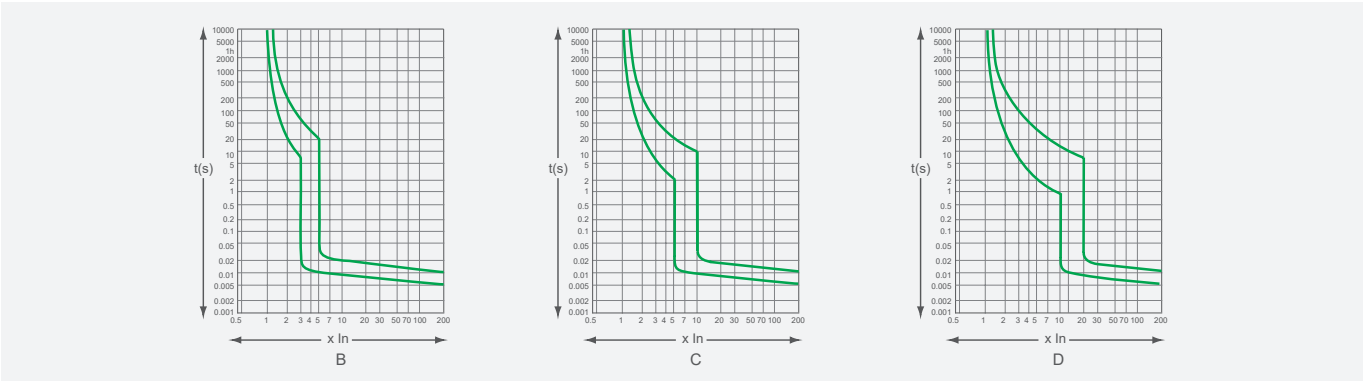
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t ≤1h(In≤63A)	Not tripping
	1.13In	t ≤2h(In>63A)	
B,C,D	1.45In	t ≤1h(In≤63A)	Tripping
	1.45In	t <2h(In>63A)	
B,C,D	2.55In	1s< t <60s(In≤32A)	Tripping
	2.55In	1s< t <120s(In>32A)	

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	

Final Distribution

YCB6-63 MCB

Curve



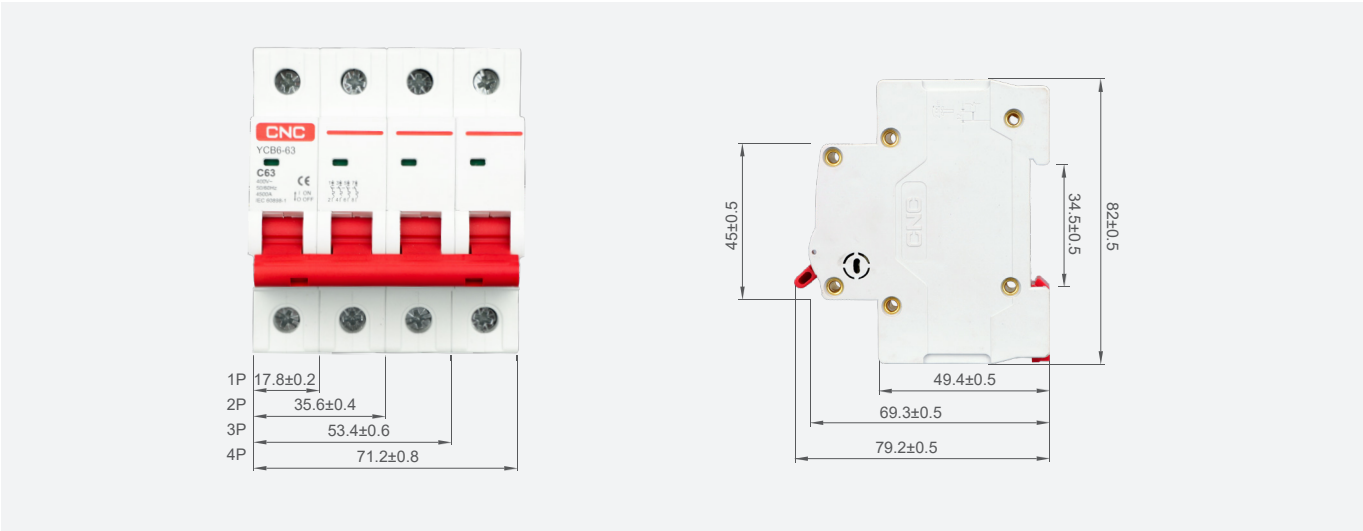
Temperature drop correction table

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

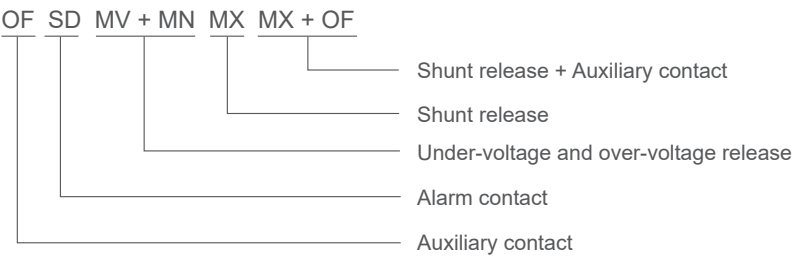
A

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

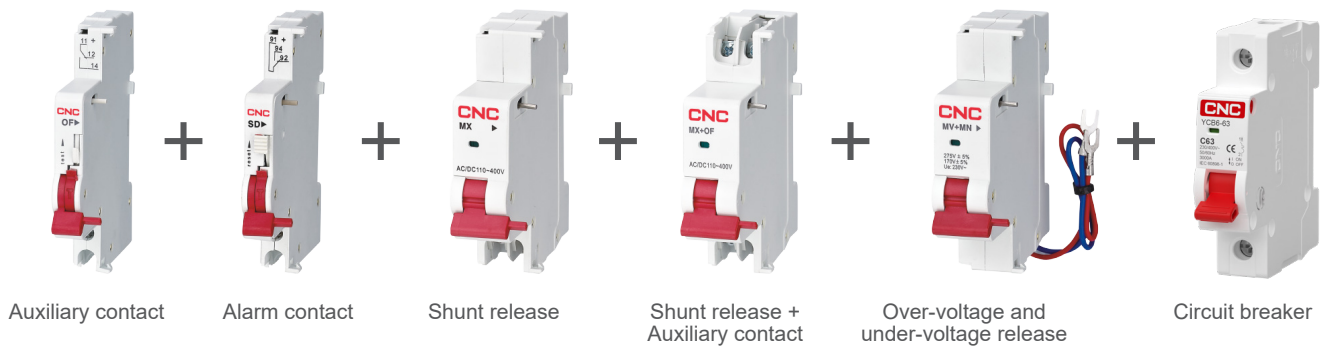


Function

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 figure below. (Remark: each MCB can be installed with 3 (MAX.)indicating accessories.)



Operating Conditions

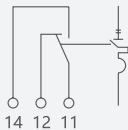
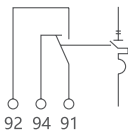
- Ambient temperature:-5°C ~ +40°C;
- Altitude: Below 2000m;
- Environment: The medium should be no risk of blasting and can't corrode the metal and damage insulating gas as well asconductive dust;
- Installation: 35mm standard din rail.

Final Distribution

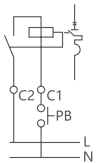
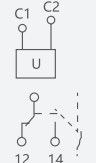
YCB6-63 MCB

Technical data

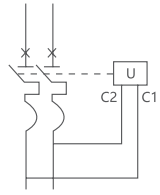
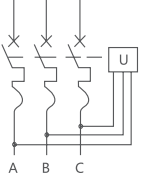
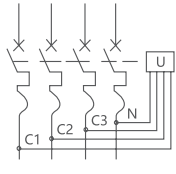
Auxiliary contact and Alarm contact technical parameters

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

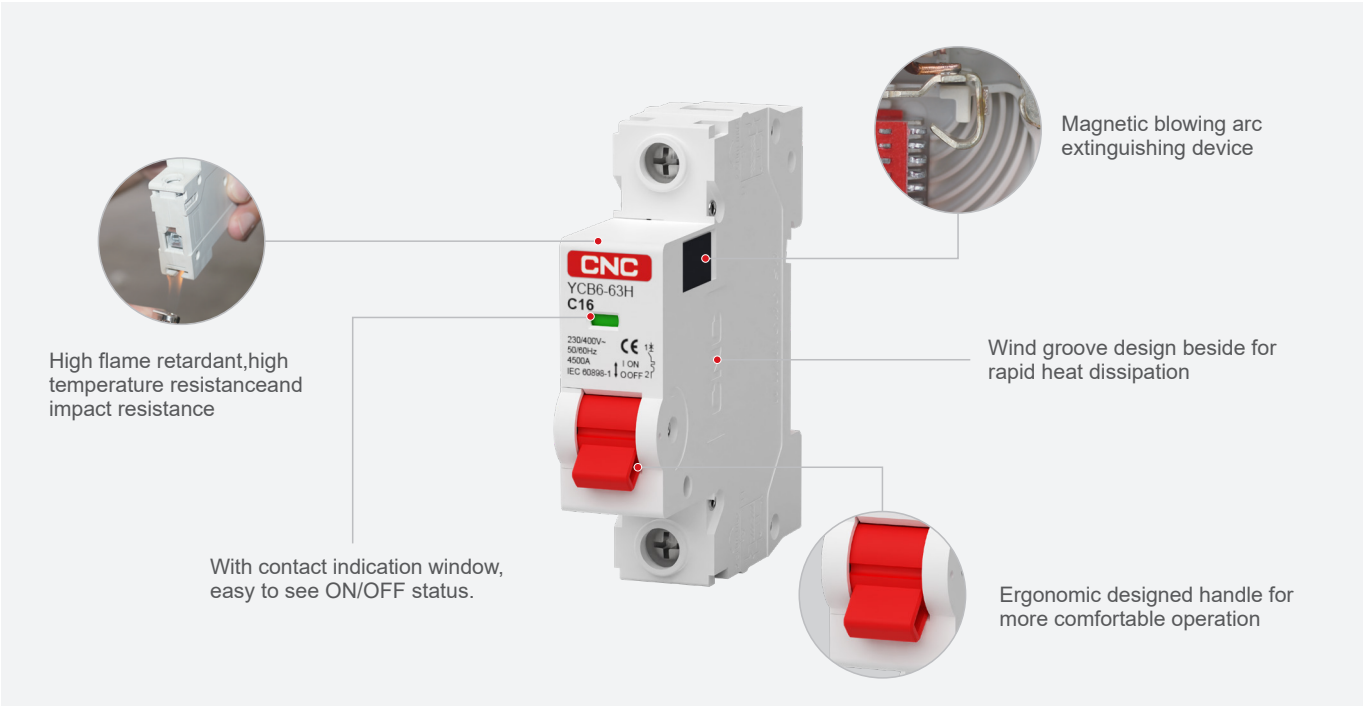
Under-voltage & Over-voltage Release technical parameters

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

Final Distribution

YCB6H-63 MCB

A



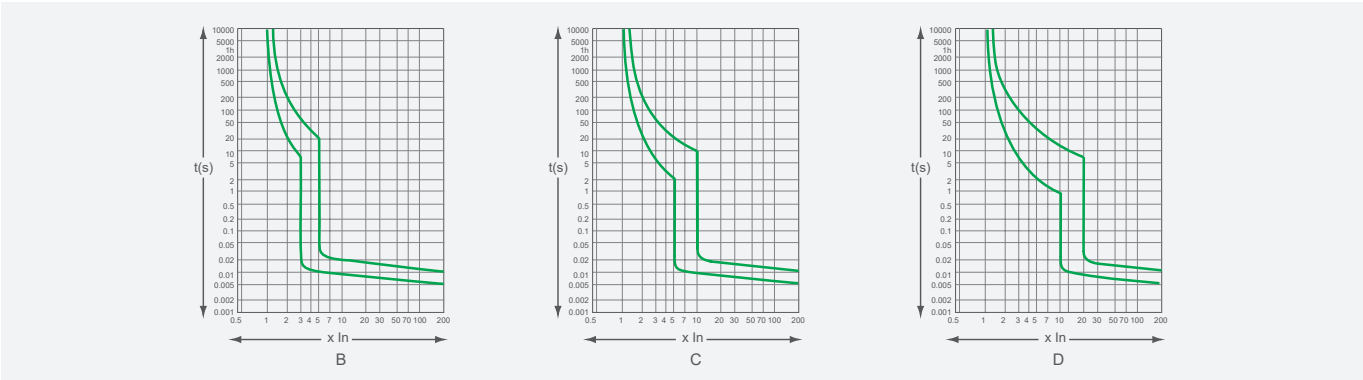
General

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

Selection

Type	Test current	Tripping time	Expected result	Type	Test current	Tripping time	Expected result
B,C,D	1.13In	t≤1h(In≤63A)	Not tripping	B	3In	t≤0.1s	Not tripping
	1.13In	t≤2h(In>63A)		C	5In	t≤0.1s	
B,C,D	1.45In	t<1h(In≤63A)	Tripping	D	10In	t≤0.1s	
	1.45In	t<2h(In>63A)		B	5In	t<0.1s	Tripping
B,C,D	2.55In	1s<t<60s(In≤32A)	Tripping	C	10In	t<0.1s	
	2.55In	1s<t<120s(In>32A)		D	20In	t<0.1s	

Curve



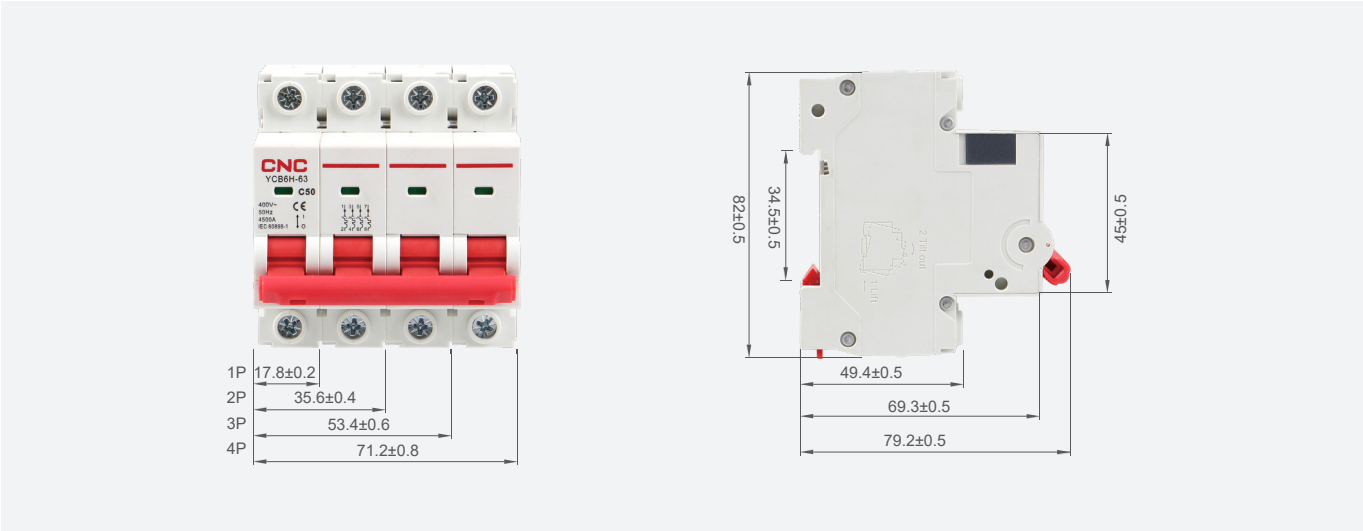
Final Distribution

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

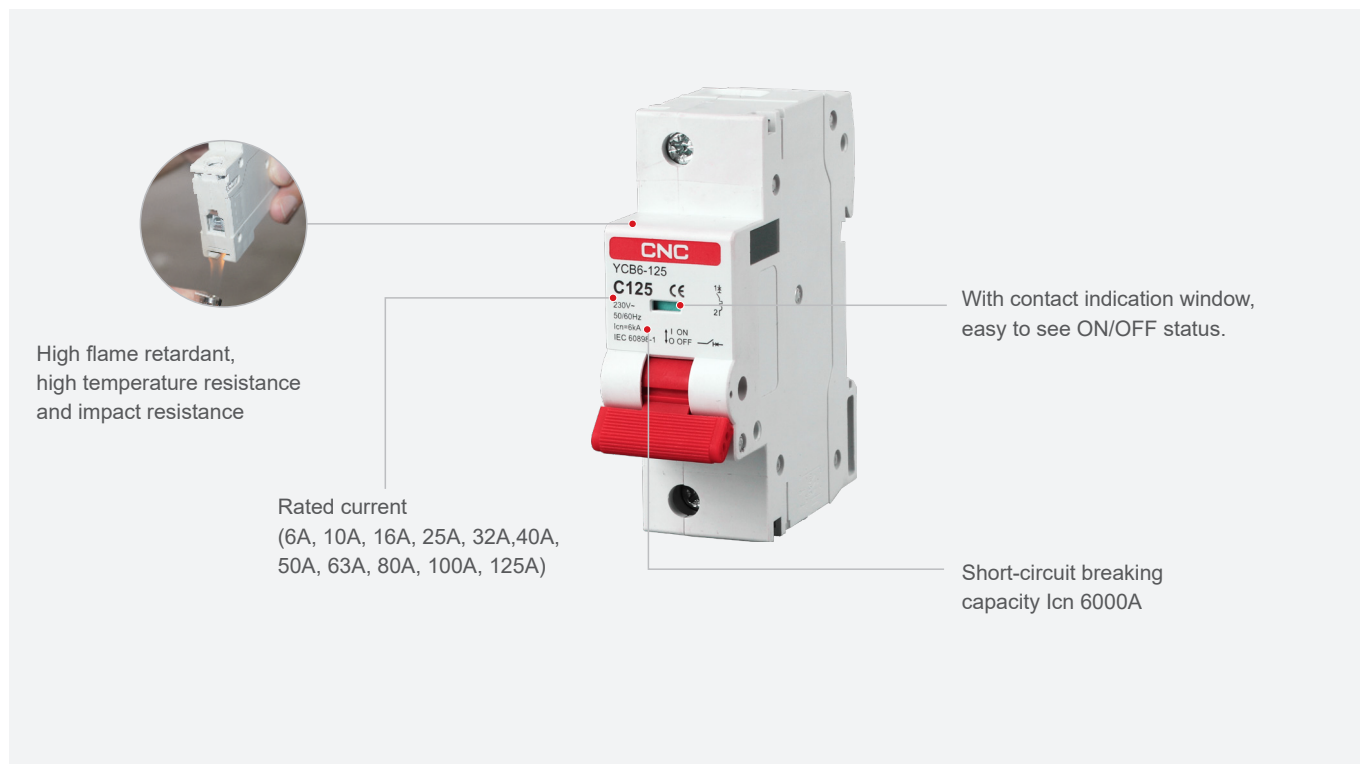
Overall and mounting dimensions(mm)



Final Distribution

YCB6-125 MCB

A



General

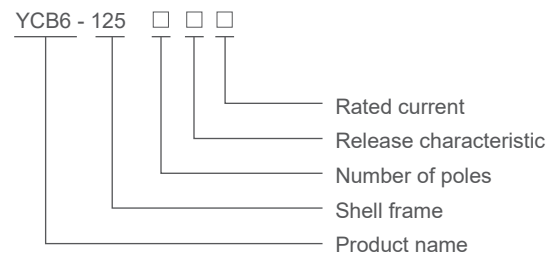
YCB6-125 miniature circuit breaker(circuitbreaker)is applicable to the circuit with AC50Hz/60Hz, rated voltage of no more than 400V, and rated current from 6A to 125A for overload protection and short circuit protection. This product can be applied to various places such as industrial, commercial, tall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

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

Features

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

Type designation



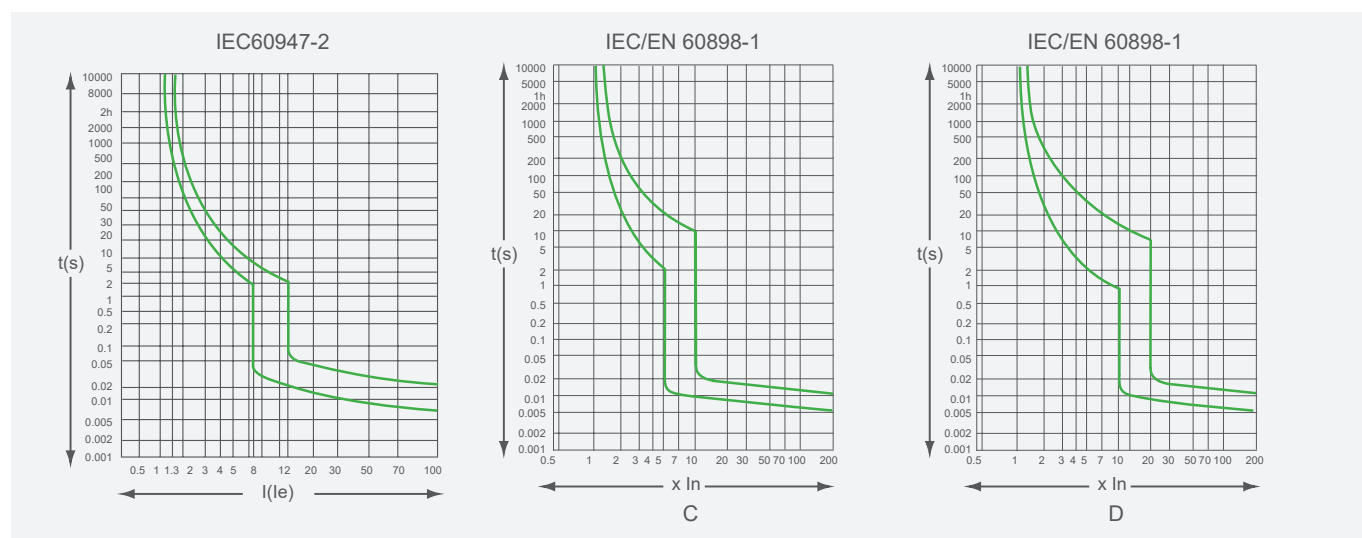
Final Distribution

YCB6-125 MCB

Technical data

Type	Standard		IEC/EN 60947-2	IEC/EN 60898-1
Electrical features	Rated current I_n	A	6,10,16,25,32,40,50,63,80,100,125	
	Poles	P	1,2,3,4	
	Rated voltage U_e	V	230/400	
	Insulation voltage U_i	V	500	
	Rated frequency	Hz	50/60	
	Rated breaking capacity	A	6000	
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	6000	
	Dielectric test voltage at ind. Freq. for 1min	kV	2.5	
	Pollution degree		3	
	Thermo-magnetic release characteristic		8-12 I_n	B,C,D
Mechanical features	Electrical life	t	4000	
	Mechanical life	t	10000	
	Contact position indicator		Yes	
	Protection degree		IP20	
	Reference temperature for setting of thermal element		30	
	Ambient temperature (with daily average $\leq 35^\circ\text{C}$)	$^\circ\text{C}$	-5~+40(Special application please refer to temperature compensation correction)	
	Storage temperature	$^\circ\text{C}$	-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	
		ln-lbs	31	
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device	
	Connection		From top and bottom	

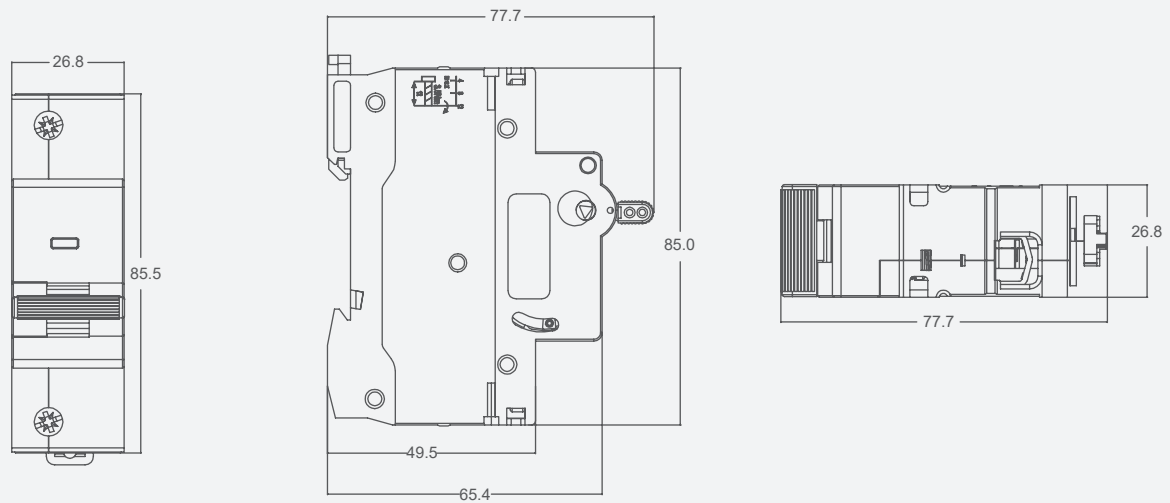
Release Curve diagram



Final Distribution

YCB6-125 MCB

Overall and mounting dimensions(mm)



Ordering instruction

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

YCB7 Series

- Industrial aesthetic design
- Higher performance



CNC
ELECTRIC

Final Distribution

YCB7-63N MCB

A



General

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

Standard: IEC/EN 60898-1.

Type designation

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)

Final Distribution

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 I _n		1-63A
	Rated frequency		50/60Hz
Electrical features	Rated voltage U _e		230/400
	Rated insulation voltage U _i		500
	Rated breaking capacity I _{cn}		6000
	Rated impulse withstand voltage U _{imp} (1.2/50)		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
			ln-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

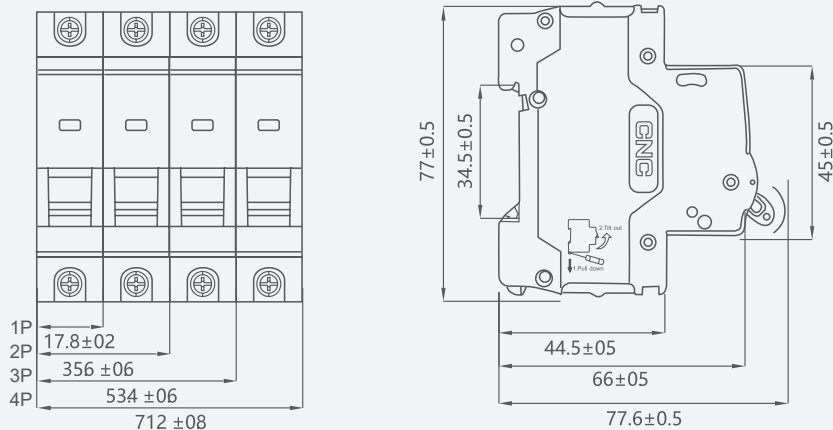
A

Final Distribution

YCB7-63N MCB

Overall and mounting dimensions(mm)

A

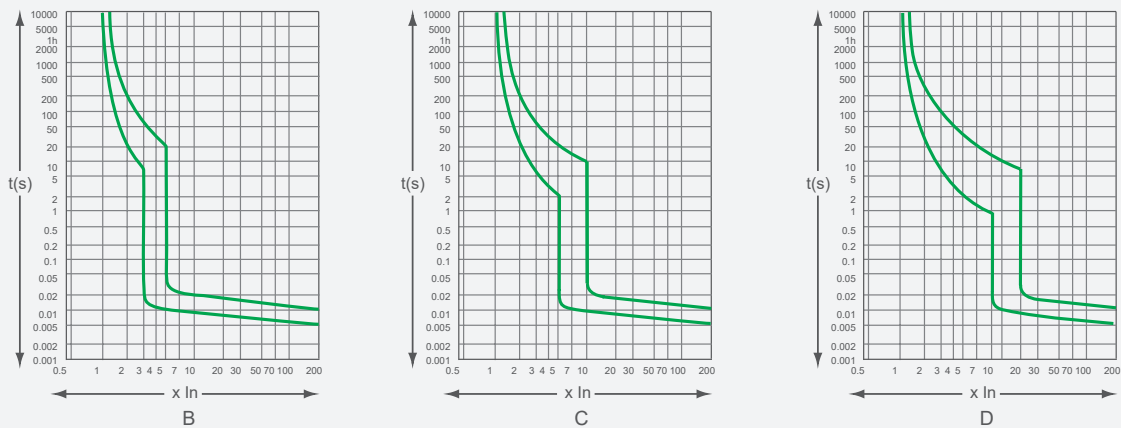


Selection

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

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

Curve



Final Distribution

YCB7-63N 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

A

Final Distribution

YCB7 Series MCB Accessories

A

General

This series circuit breaker accessories are used in household, building and other electrical circuits with YcB7 circuit breaker cooperated for remote control and different 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

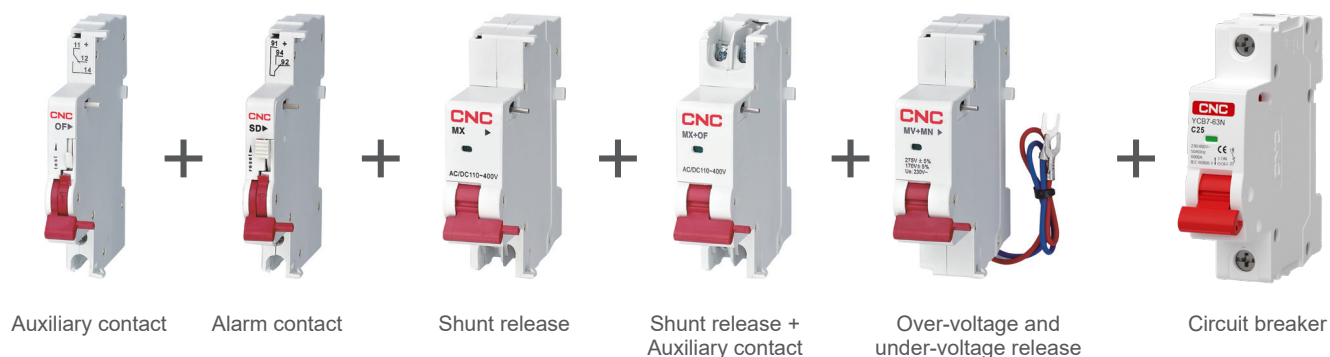
OF	SD	MV+MN	MX	MX+OF
Shunt release + Auxiliary contact	Shunt release	Under-voltage and over-voltage release	Alarm contact	Auxiliary contact

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 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 figure below. (Remark: each MCB can be installed with 3 (MAX.) indicating accessories.)



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.

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 U_i	Rated control voltage U_s	Tripping power consumption (W or VA)	Operation voltage U_s	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	

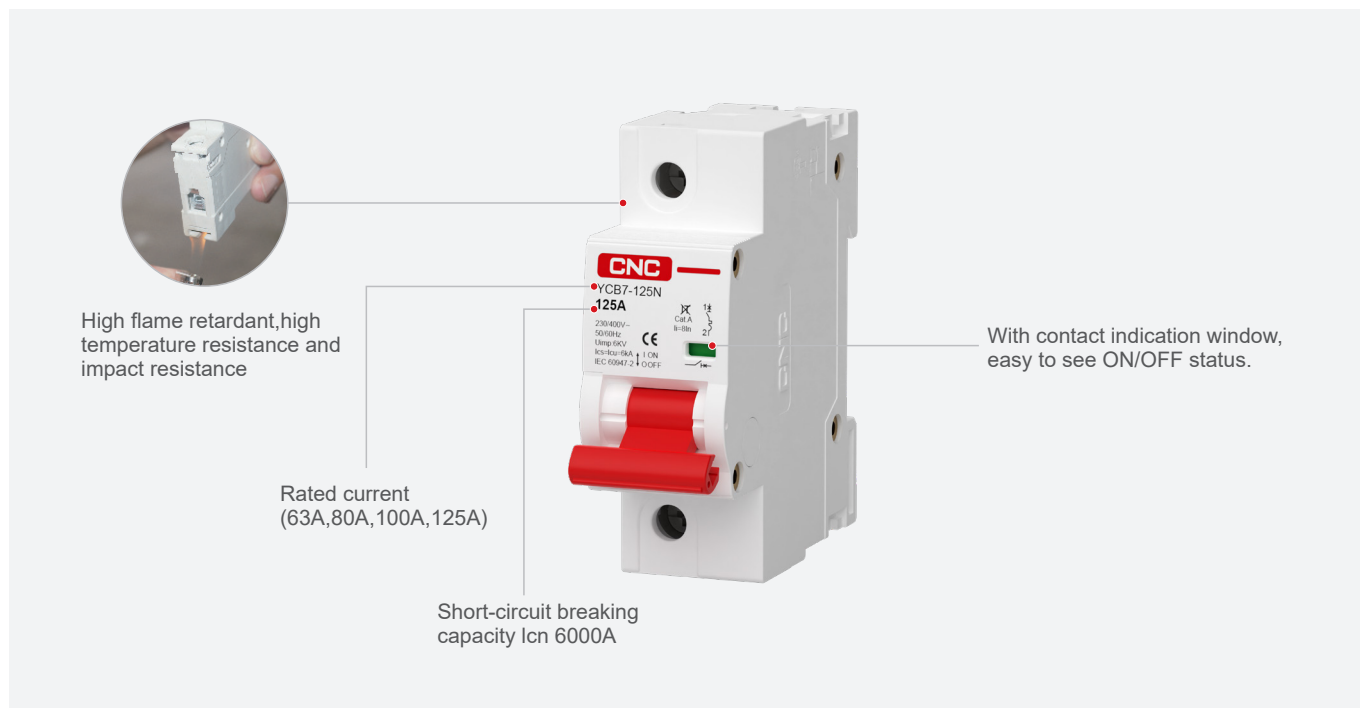
Under-voltage & Over-voltage Release technical parameters

Accessory name	Rated working voltage U_e	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

A

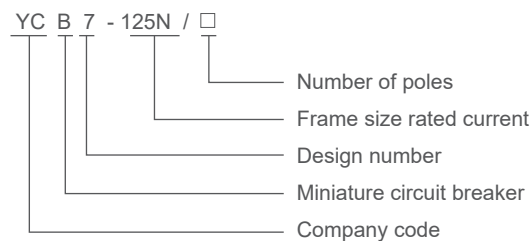


General

YCB7-125N miniature circuit breaker (circuit breaker) is applicable to the circuit with AC 50 Hz/60 Hz, rated voltage of no more than 400 V, and rated current from 10 A to 125 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: IEC 60947-2, IEC 60947-2 IEC 60898-1

Type designation



Operating conditions

1. Ambient air temperature $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$ (with daily average $\leq 35^{\circ}\text{C}$)
2. Altitude: $\leq 2000\text{m}$.
3. Air conditions: At mounting site, relative humidity not exceed 50% at the maximum temperature of $+40^{\circ}\text{C}$. For the wettest month, the maximum relative humidity averaged shall be 90% while the lowest temperature averaged in that month is $+20^{\circ}\text{C}$, 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 the A1.1 TH 35-7.5 steel mounting rail requirements.
6. Pollution grade: 3
7. Mounting conditions: inclination between mounting plane and vertical plane not exceed $\pm 5^{\circ}$.
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,	6kAli=12In
		3P/4P		AC400V			

Release

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

Technical data

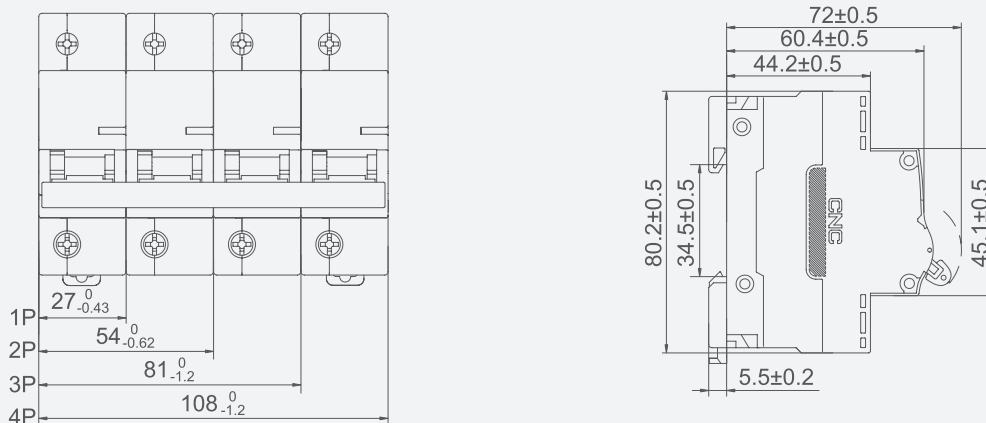
Type	Standard		IEC/EN 60947-2	IEC/EN 60898-1
Electrical features	Rated current In	A	10,16,20,25,32,40,50,63,80,100,125	
	Poles	P	1, 2, 3, 4	
	Rated voltage Ue	V	230/400	
	Insulation voltage Ui	V	500	
	Rated frequency	Hz	50/60	
	Rated breaking capacity	A	6000	
	Rated impulse withstand voltage(1.2/50)Uimp	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 $\leq 35^{\circ}C$)	°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	

Final Distribution

YCB7-125N MCB

A

Overall and mounting dimensions(mm)



Ordering instructions

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

Customers can negotiate separately if you have special requirements.

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

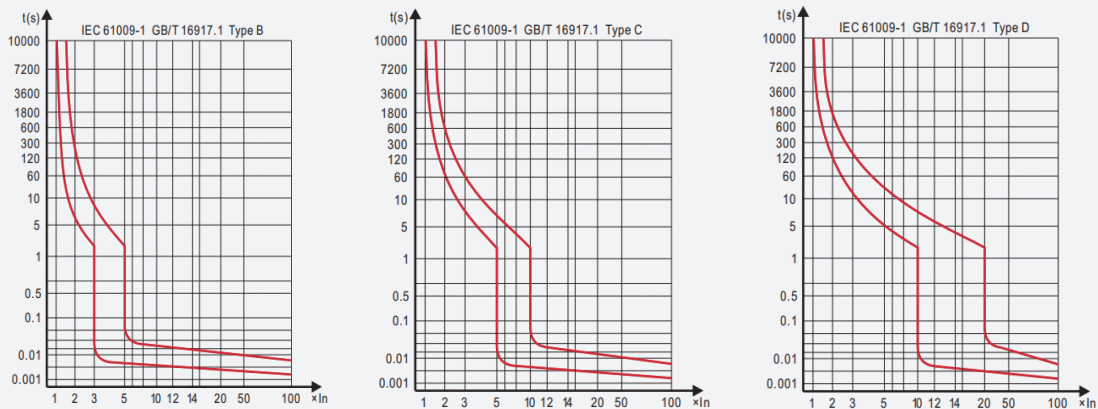
YCB7LE-63Y1P+NC63100mA A Type

Model	Shell grade current	Category	Poles	Tripping characteristics	Rated current	Rated residual 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.

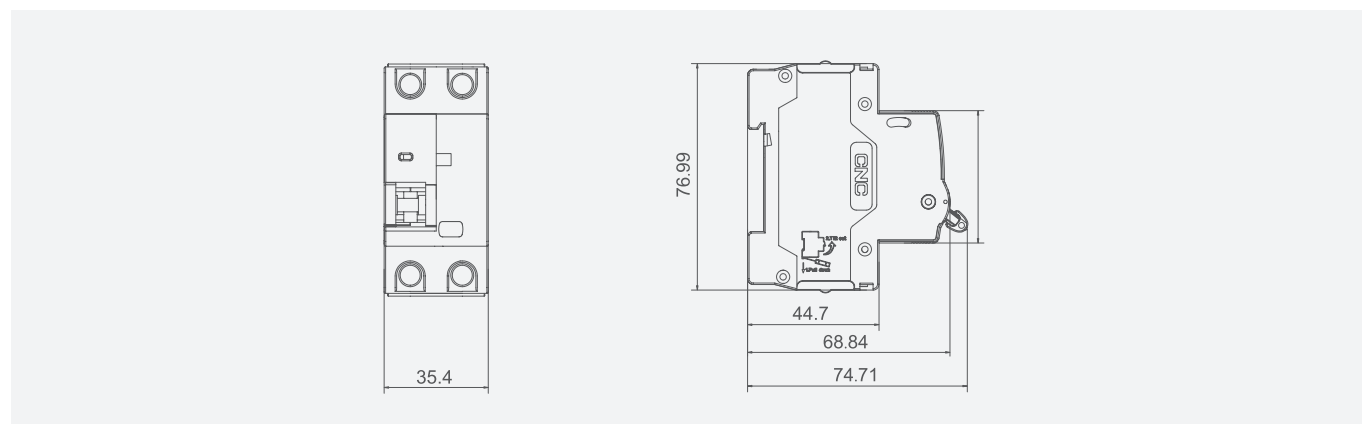
Curve



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 I_n	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Rated voltage U_e	V	230
	Rated sensitivity $I_{\Delta n}$	A	0.03, 0.1, 0.3
	Rated residual making and breaking capacity $I_{\Delta m}$	A	630
	Rated short-circuit capacity I_{cn}	A	6000
	Break time under $I_{\Delta n}$	s	≤ 0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	4000
	Dielectric test voltage at ind.Freq.for 1min	Kv	2
	Insulation voltage U_i	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 $\leq 35^{\circ}\text{C}$)	$^{\circ}\text{C}$	-5~+40
	Storage temperature	$^{\circ}\text{C}$	-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)





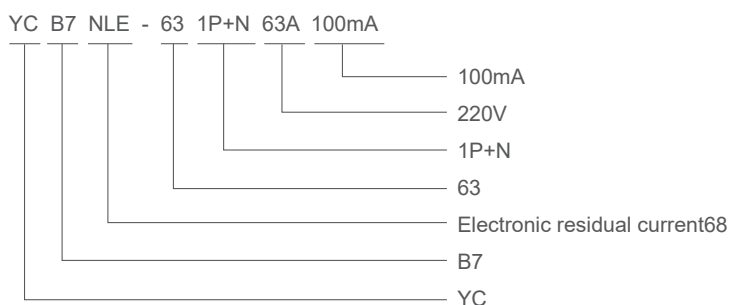
General

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



Operating conditions

1. Ambient temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$
2. Relative humidity: $\leq 50\%$ at 40°C ; $\leq 90\%$ at 25°C
3. Altitude: $\leq 2000\text{m}$
4. Environmental conditions: no harmful gases and vapors, no conductive or explosive dust, no severe mechanical vibration

Final Distribution

YCB7NLE-63 RCBO Eletronic

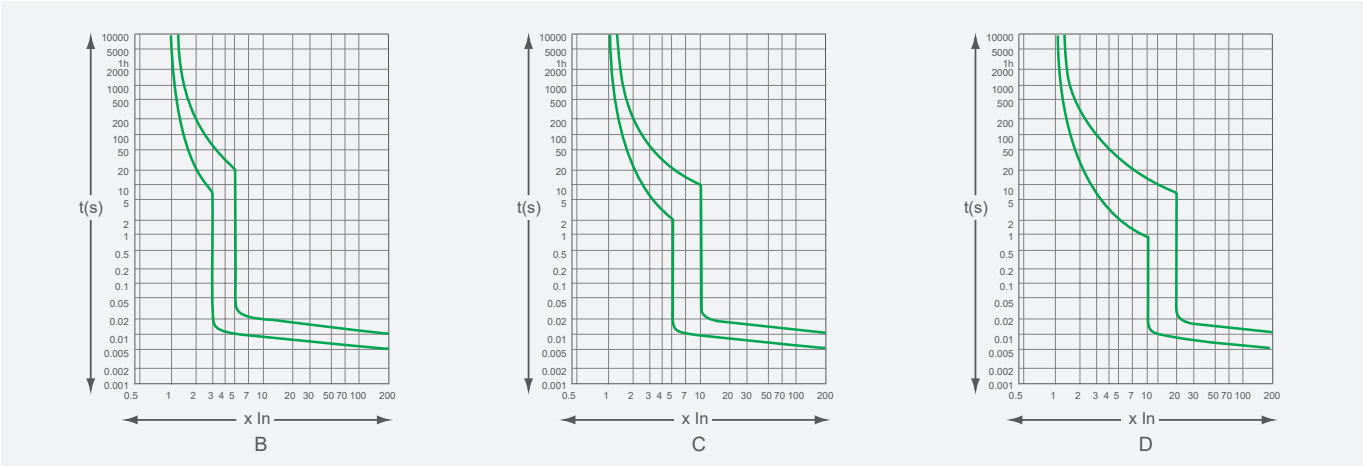
A

Release

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

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

Curve

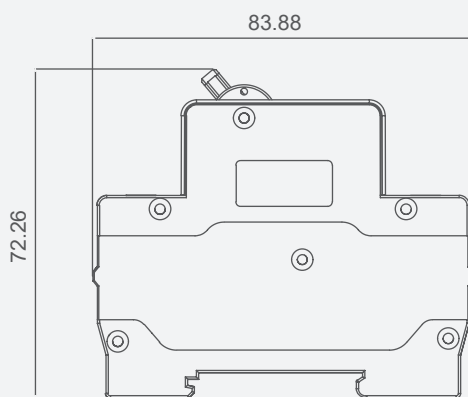
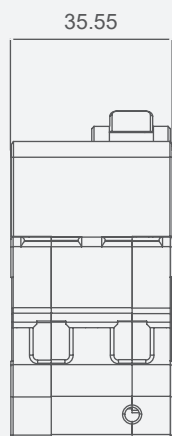


Technical data

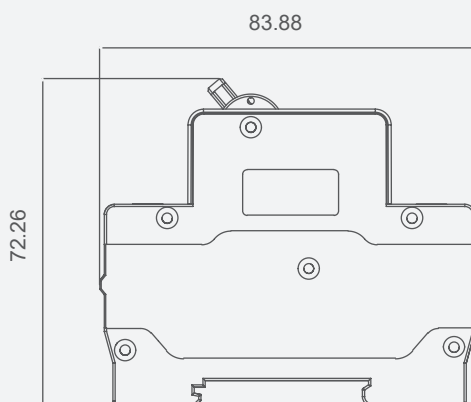
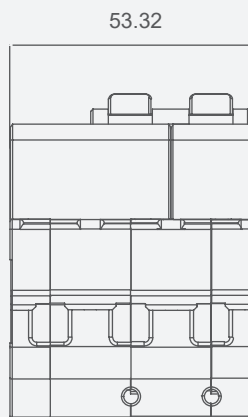
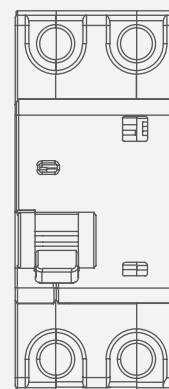
Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	1P+N, 2P, 3P, 3P+N, 4P
	Type(wave form of the earth leakage sensed)		AC
	Thermomagnetic release characteristic		B, C, D
	Rated current I _n	A	6, 10, 16, 20, 25, 32, 40, 50, 63
	Rated voltage U _e	V	230V AC(1P+N,2P)400V AC(3P 3P+N, 4P)
	Rated sensitivity I _{Δn}	A	0.03,0.05, 0.1, 0.3
	Rated residual making and breaking capacity I _{Δm}	A	500(I _n ≤40A) 630(I _n >40A)
	Rated short-circuit capacity I _{cn}	A	4500
	Break time under I _{Δn}	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)U _{imp}	V	4000
	Dielectric test voltage at ind.Freq.for 1min	Kv	2
	Insulation voltage U _i	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
		ln-lbs	18
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions(mm)

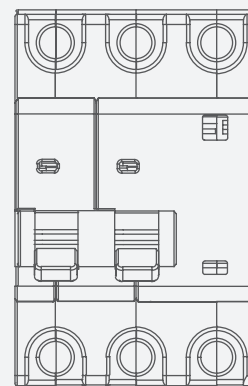
A



1P+N



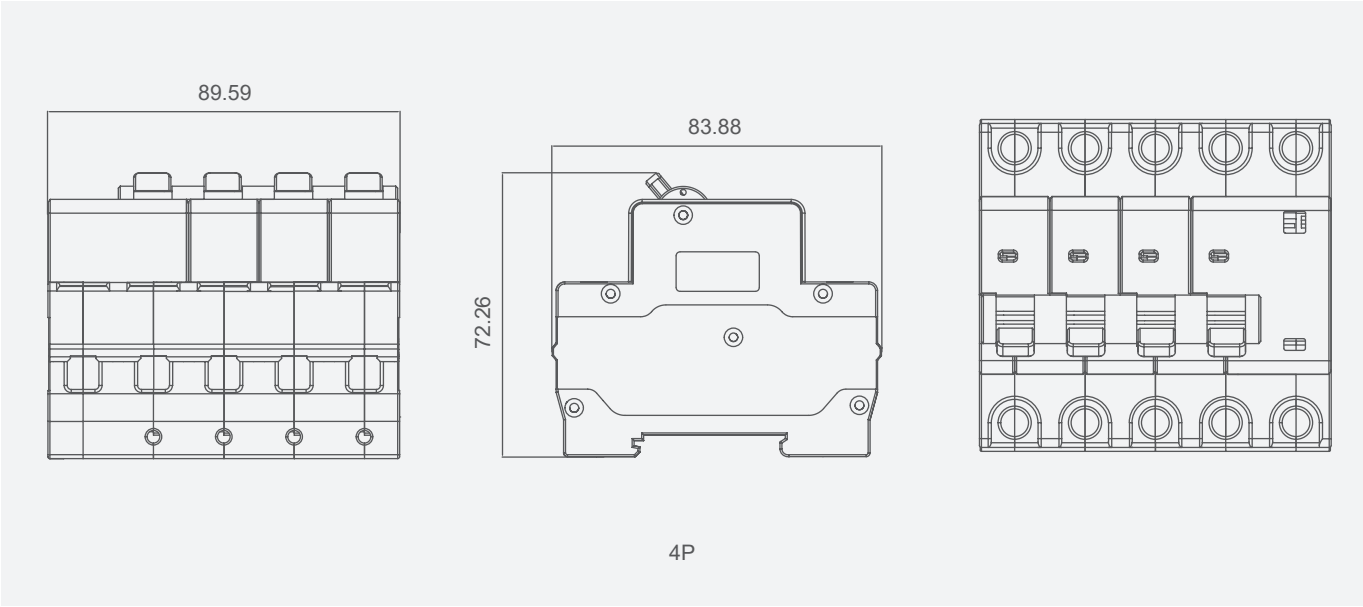
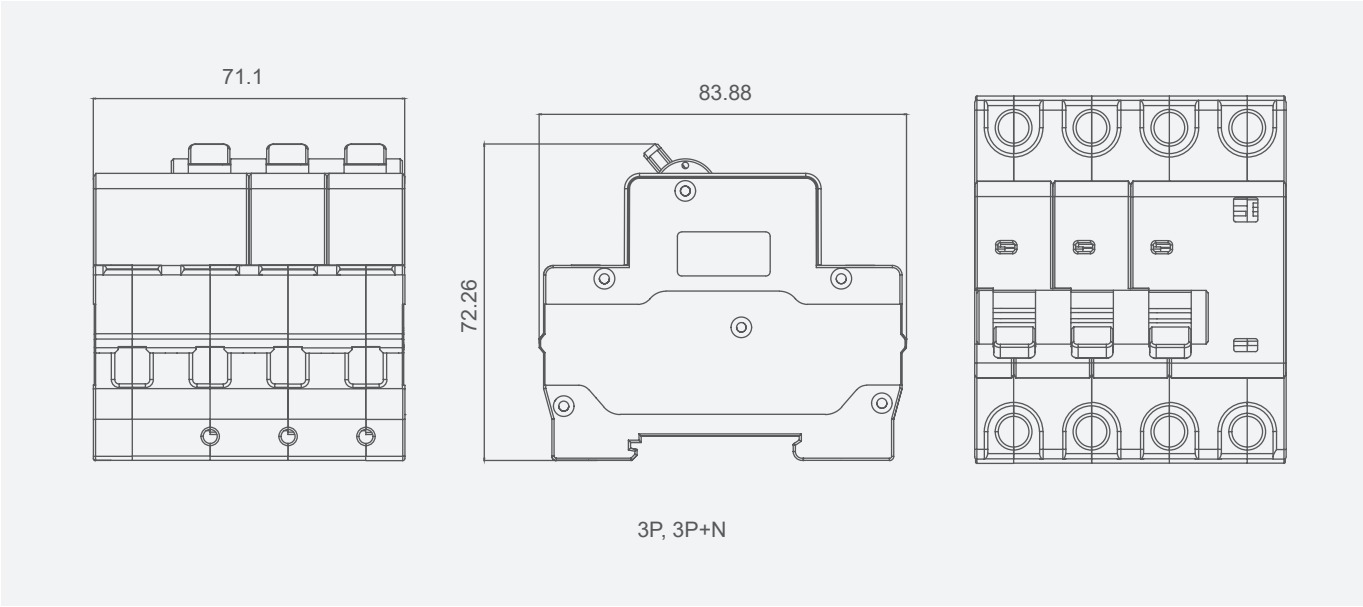
2P

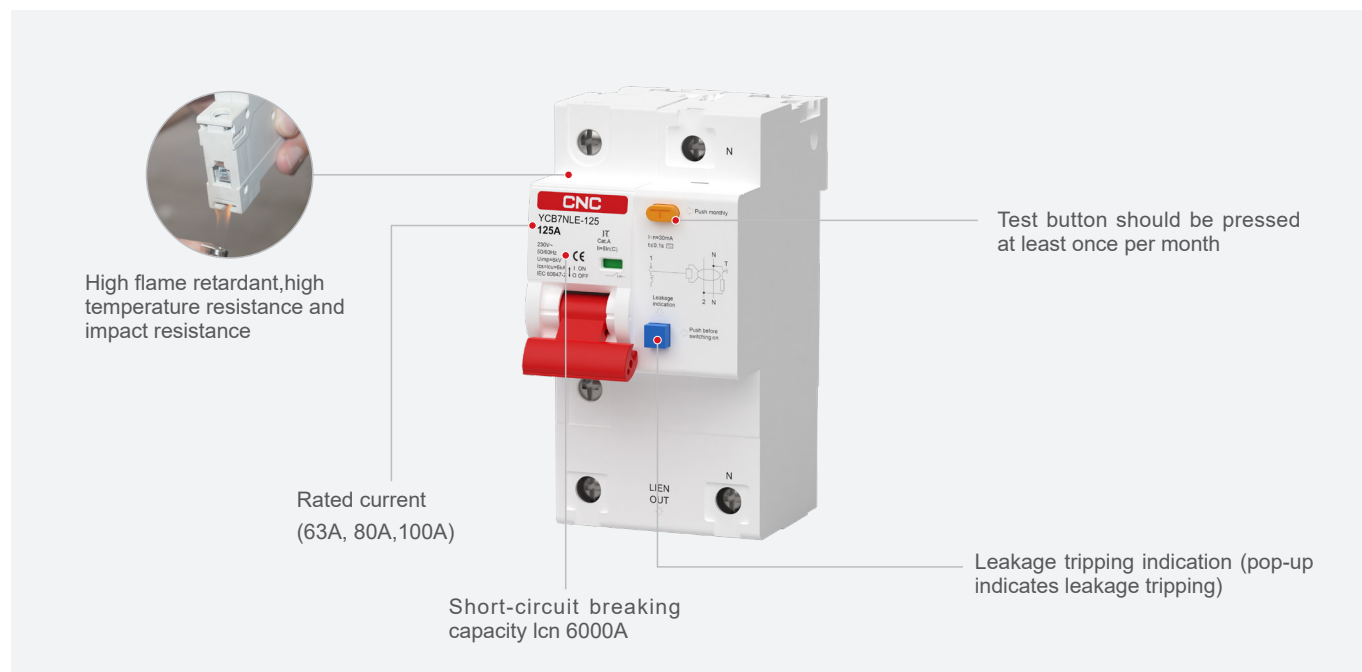


Final Distribution

YCB7NLE-63 RCBO Eletronic

A





General

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

Selection

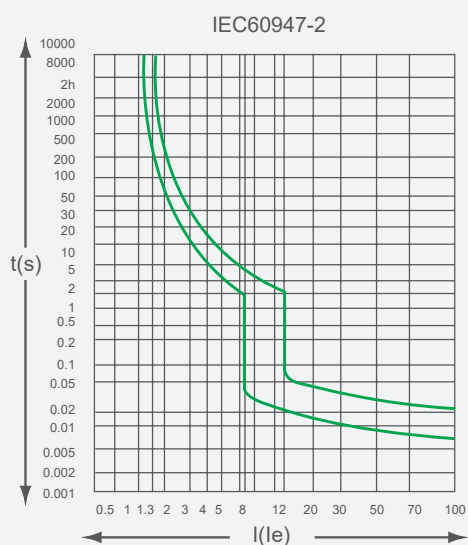
1. $I_{\Delta n} \leq 30$ mA: additional protection in the case of direct contact.
2. $I_{\Delta n} \leq 300$ mA: preventative fire protection in the case of ground fault currents.
3. $I_{\Delta n}$ class - Tripping is ensured for sinusoidal, alternating currents, whether they be quickly applied or slowly 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	$1.05I_n$	$t \leq 1h (I_n \leq 63A), t \leq 2h (I_n > 63A)$	Not tripping
C, D	$1.3I_n$	$t \leq 1h (I_n \leq 63A), t \leq 2h (I_n > 63A)$	Tripping
C, D	$2.55I_n$	$1s < t < 120s$	Tripping
C	$8I_n \times 80\%$	$t \leq 0.2s$	Not tripping
D	$12I_n \times 80\%$	$t \leq 0.2s$	Not tripping
C	$8I_n \times 120\%$	$t \leq 0.2s$	Tripping
D	$12I_n \times 120\%$	$t \leq 0.2s$	Tripping

Curve



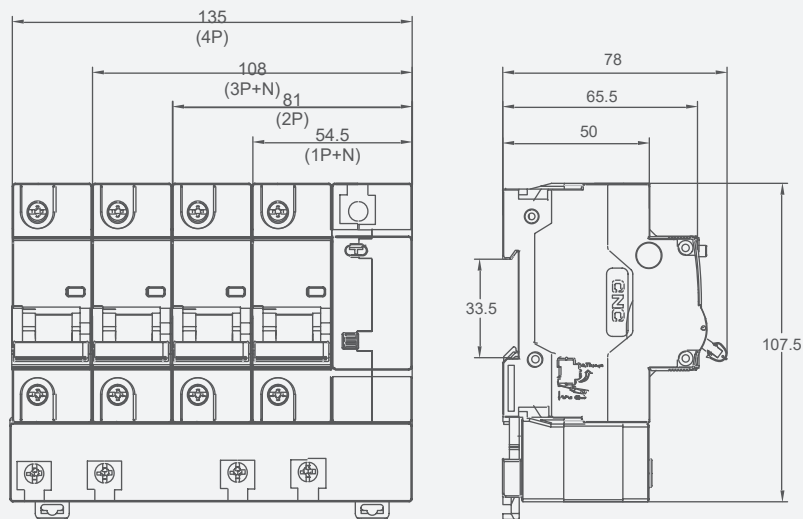
Technical data

Type	Standard		IEC/EN 60947-2
Electrical features	Type (wave form of the earth leakage sensed)		AC
	Thermo-magnetic release characteristic		(C)li=8In,(D)li=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 $I\Delta n$	A	0.03,0.1,0.3
	Rated short-circuit capacity Icn	A	6000
	Break time under $I\Delta n$	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 $\leq 35^\circ\text{C}$)	$^\circ\text{C}$	-5~+40
	Storage temperature	$^\circ\text{C}$	-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
		ln-lbs	31
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip
	Connection		From top or bottom

Final Distribution

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

Final Distribution

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

YCB7RL - 63 1P+N 63 100mA A Type

Model	Shell grade current	Poles	Rated current	Rated residua operating	Type
YCB7RL	- 63	1P+N	63	100mA	A Type
RCCB Elec-tromagnetic	63	1P+N 3P+N	6	Default: 10mA 30mA 100mA 300mA	Default: AC Type A Type
			10		
			16		
			20		
			25		
			32		
			40		
			50		
			63		

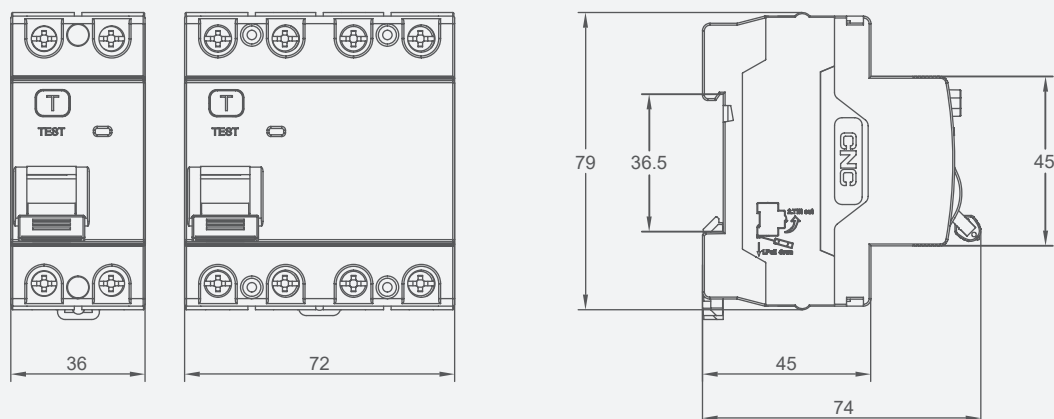
Note: This product cannot be assembled with attachments



Technical data

Type	Standard		IEC/EN 60898-1
Electrical features	Leakage type		Electromagnetic type
	Rated current I_n	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 U_e	V	230/400
	Insulation voltage U_i	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity $I_{nc}=I_{\Delta c}$	A	6000
	Rated impulse withstand voltage $(1.2/50)U_{imp}$	V	6000
	Dielectric test voltage at ind.Freq.for 1min	Kv	2.5
Mechanical features	Rated sensitivity $I_{\Delta n}$	A	0.01, 0.03, 0.1, 0.3
	Rated residual making and breaking capacity $I_{\Delta m}$	A	500($I_n \leq 40A$); 630($I_n = 50A/63A$)
	Pollution degree		2
	Electrical life	times	4000
	Mechanical life	times	8000
	Protection degree		IP20
	Storage temperature	°C	-25~+70
	Ambient temperature(with daily average $\leq 35^\circ\text{C}$)	°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)



Final Distribution

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

YCB7RL - 100 1P+N 63 100mA A Type

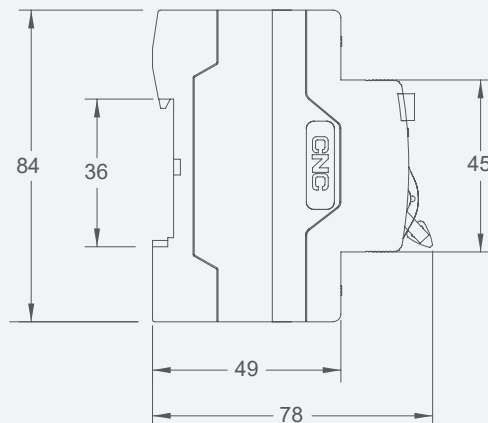
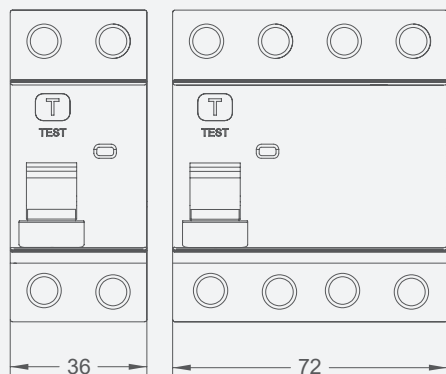
Model	Shell grade current	Poles	Rated current	Rated residua operating	Type
YCB7RL	100	1P+N	63	100mA	A Type
RCCB Elec-tromagnetic	63	1P+N	6 10 16 20 25 32 40 50 63	Default: 10mA 30mA 100mA 300mA	Default: AC Type A Type

Note: This product cannot be assembled with attachments

Technical data

Type	Standard		
Electrical features	Leakage type		Electromagnetic type
	Rated current I_n	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 U_e	v	230/400
	Insulation voltage U_i	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity $I_{nc}=I_{\Delta c}$	A	6000
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	6000
	Dielectric test voltage at ind.Freq.for 1min	Kv	2.5
	Rated sensitivity $I_{\Delta n}$	A	0.01, 0.03, 0.1, 0.3
	Rated residual making and breaking capacity $I_{\Delta m}$	A	500($I_n \leq 40A$);630($I_n = 50A/63A$);1000($I_n = 80A/100A$)
	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 averages $\leq 35^\circ\text{C}$)	°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

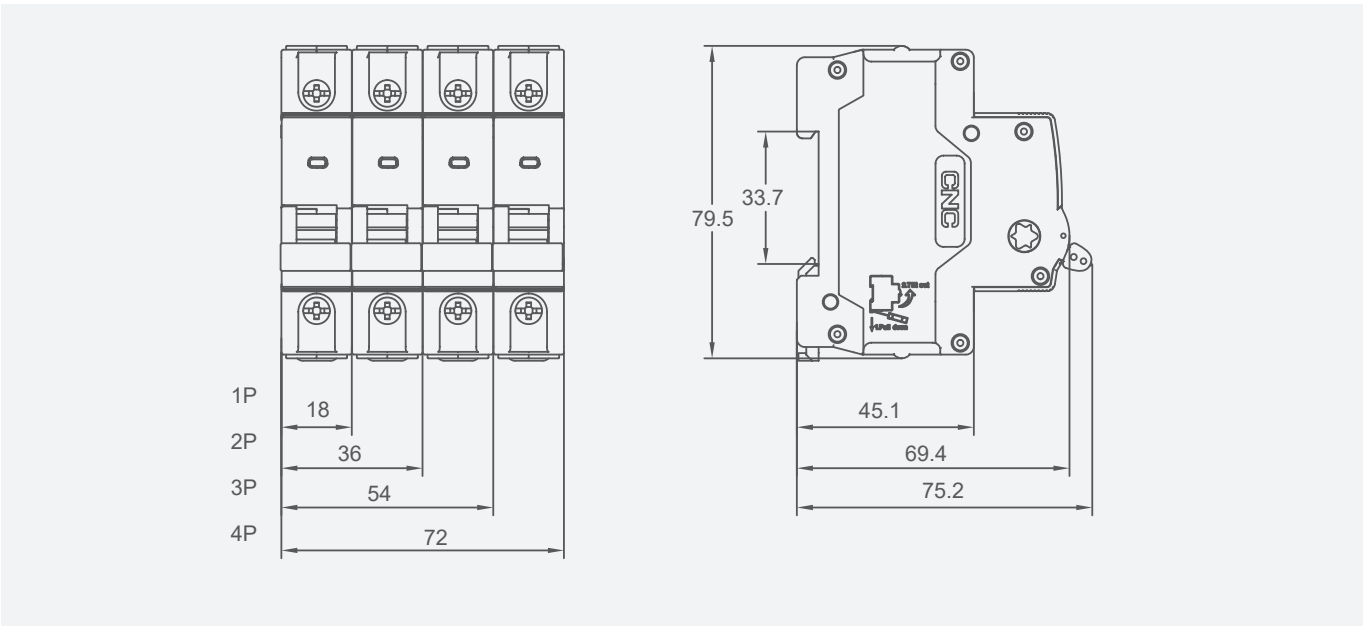
YCH7-125N Isolating Switch

A

Technical data

Model	YCH7-125N		
Electrica features	Poles	P	1,2, 3, 4
	Rated voltage Ue	V	230/400
	Rated current Ie	A	20,32,40,63,80,100,125
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)Uimp	V	4000
	Rated short-time withstand current Icw		12Ie, 1s
	Rated making and breaking capacity		3Ie,1.05Ue,cosΦ=0.65
	Rated short circuit making capacity		20Ie,t=0.1s
	Dielectric test voltage at ind.Freg.for 1min	Kv	2.5
	Insulation voltage Ui	V	500
	Pollution degree		2
	Use Category	t	AC-22A
Mechanical features	Electrical life	t	1500
	Mechanical life		8500
	Protection degree		IP20
Installation	Terminal size top/bottom	mm ²	50
	for cable and pin-type busbar	AWG	18-1/0
Operating conditions	Ambient temperature(with daily average≤35℃)		-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)

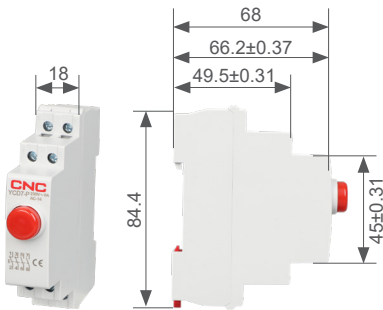


Final Distribution

YCD7 Series Signal/Control Rail Module



B:Self-locking P: Unocking



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(Unlock- ing) B:Button(Self-locking)	22:2NO2NC 40:4NO 31:3NO1NC	G Green R:Red

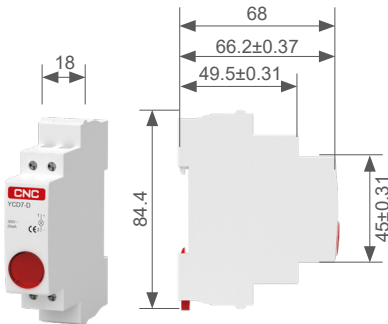
Technical data

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

Final Distribution

YCD7 Series Signal/Control Rail Module

A



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

Final Distribution

YCB3-63 MCB

A



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	-	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

Final Distribution

YCB3-63 MCB

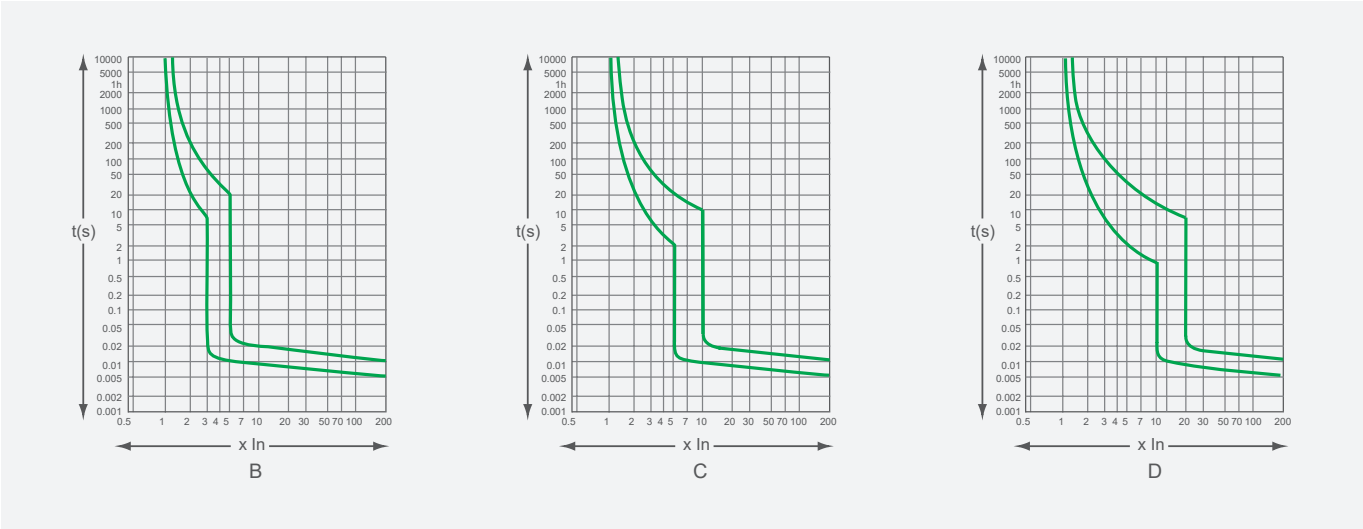
Selection

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

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



Curve



Final Distribution

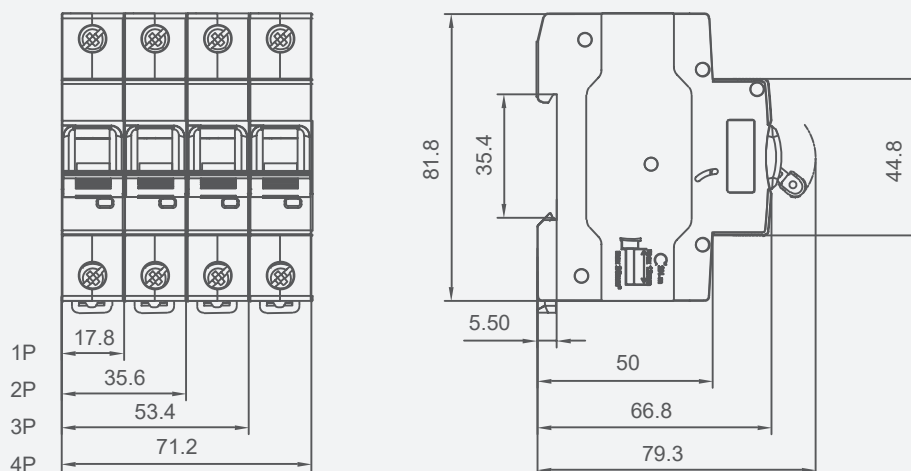
YCB3-63 MCB

Technical data

A

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)



Final Distribution

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

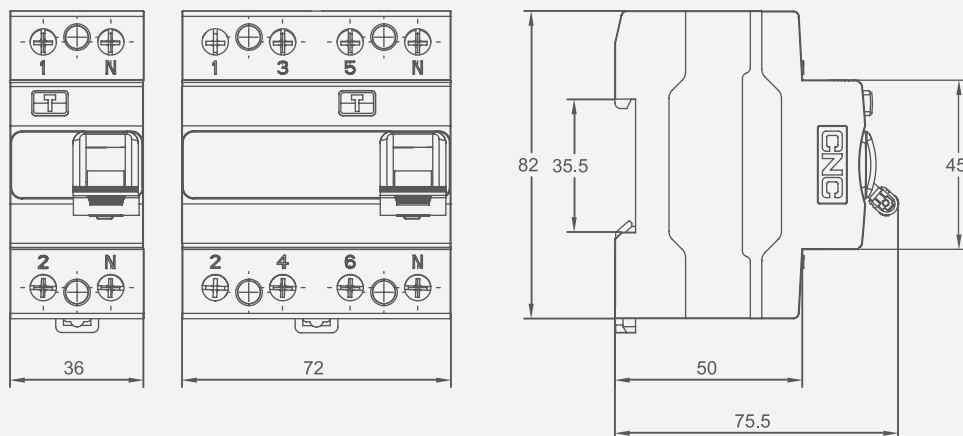


YCB3RL-63 RCCB Electromagnetic

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 averages≤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)



Final Distribution

YCB3Z-40 Changeover switch



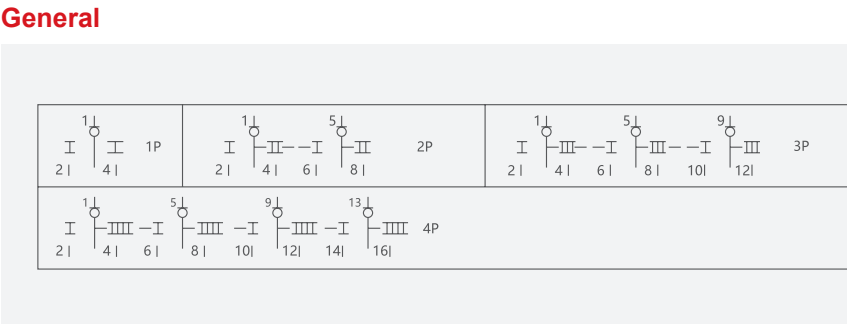
General

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

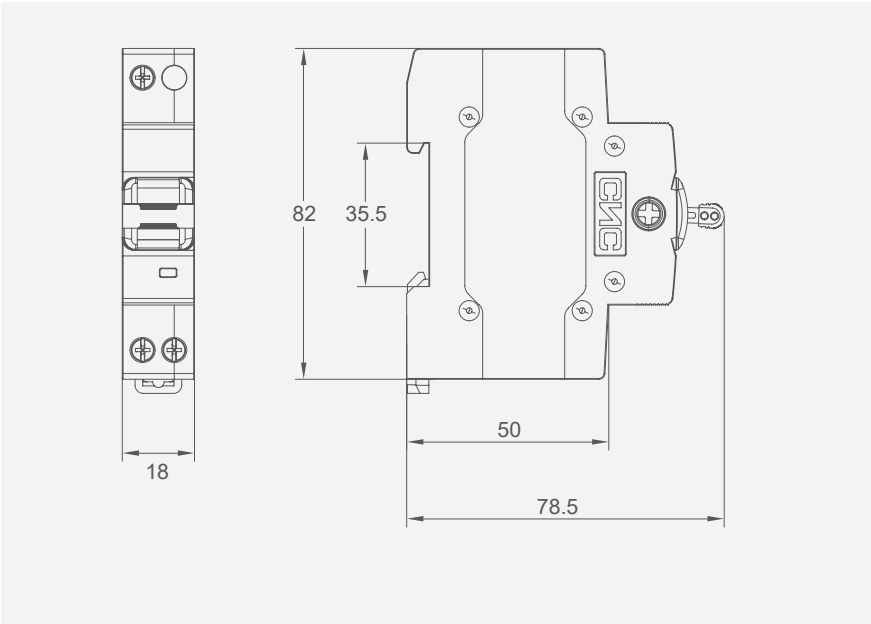
Standard: IEC 60947-3

Technical data

Frame	Maximum wiring
Rated Voltage	240/415V~
Rated Current	16,25,32,40A
Rated Frequency	50/60Hz
Number of Poles	1,2,3,4P
Contact form	1-0-2
Electrical Life	1500 Cycles
Mechanical Life	8500 Cycles
Protection degree	Ip20
Ambient Temperature	-5°C~40°C
Terminal/Cable size	10mm²
Mounting	On DIN rail EN60715(35mm) by means of fast clip device.



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

Final Distribution

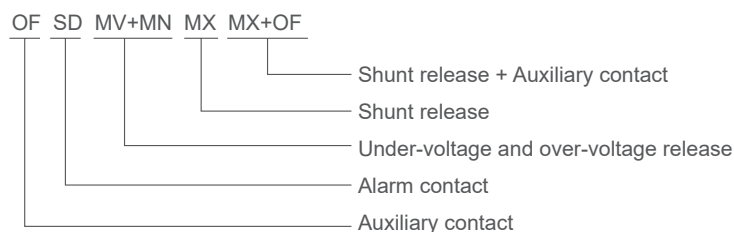
YCB9 Series MCB Accessories

General

This series circuit breaker accessories are used in household, building and other electrical circuits, cooperated with YCB9 series circuit breaker to select different 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

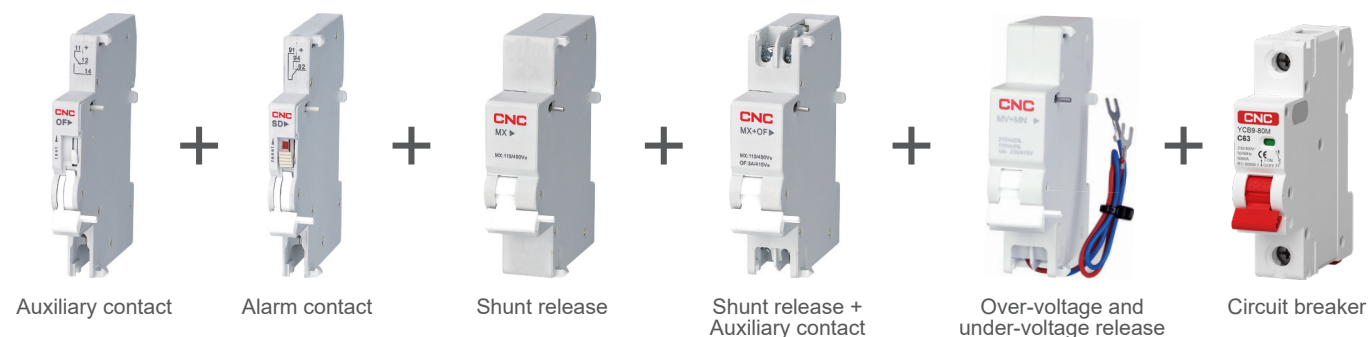


Function

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 figure below. (Remark: each MCB max installed with 3 indicate accessories(OF or SD),2 release accessories.)



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.

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

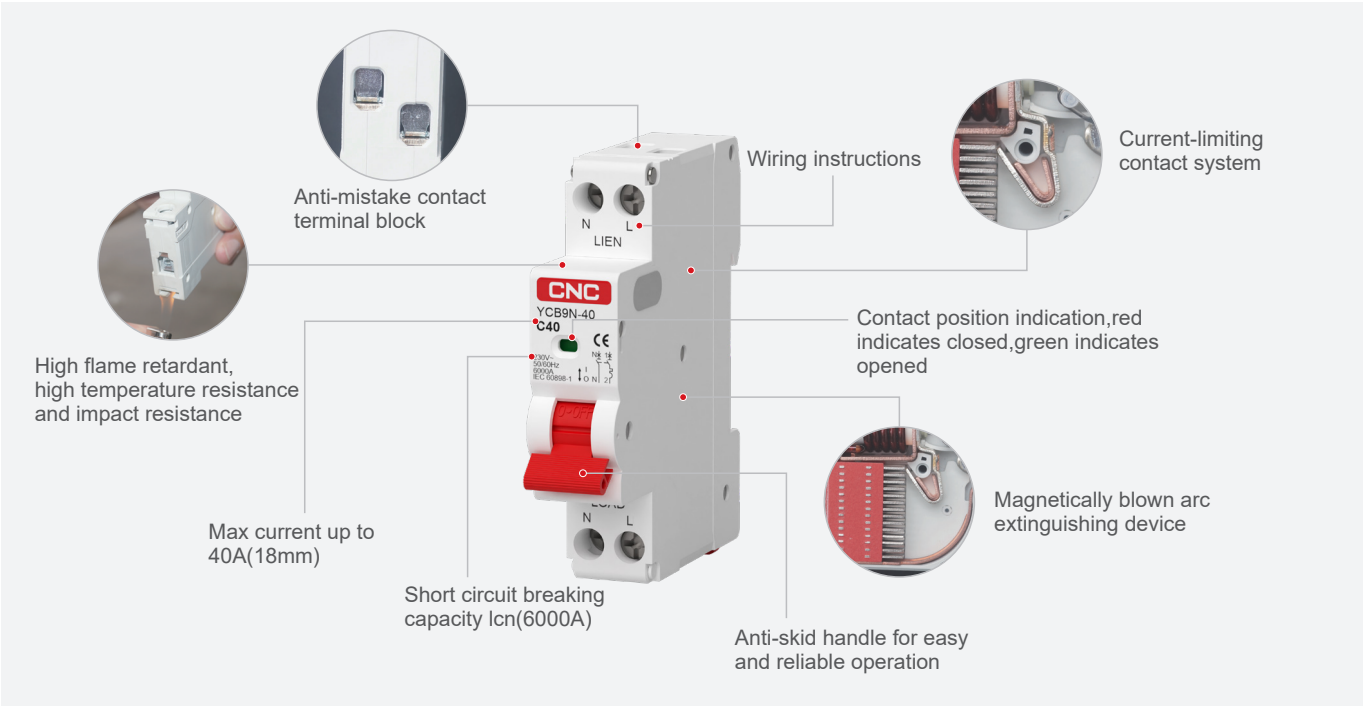
Accessory name	Rated insulation voltage U_i	Rated control voltage U_s	Tripping power consumption (W or VA)	Operation voltage U_s	Diagram
Shunt release MX	415V	AC/DC:220~380V 110~220V	240	0.7~1.1	
		AC/DC:24~48V	120		
Shunt release + Auxiliary contact MX+OF	415V	AC/DC:220~380V 110~220V	240	0.7~1.1	
	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

Under-voltage & Over-voltage Release technical parameters

Accessory name	Rated insulation voltage U_i	Operation voltage U_s	Diagram
Shunt release MX	AC230V	Under-voltage:170V±5% Over-voltage:270V±5%	
Shunt release + Auxiliary contact MX+OF	AC380V	Under-voltage:300V±5% Over-voltage:460V±5%	

Final Distribution

YCB9N-40 MCB DPN



General

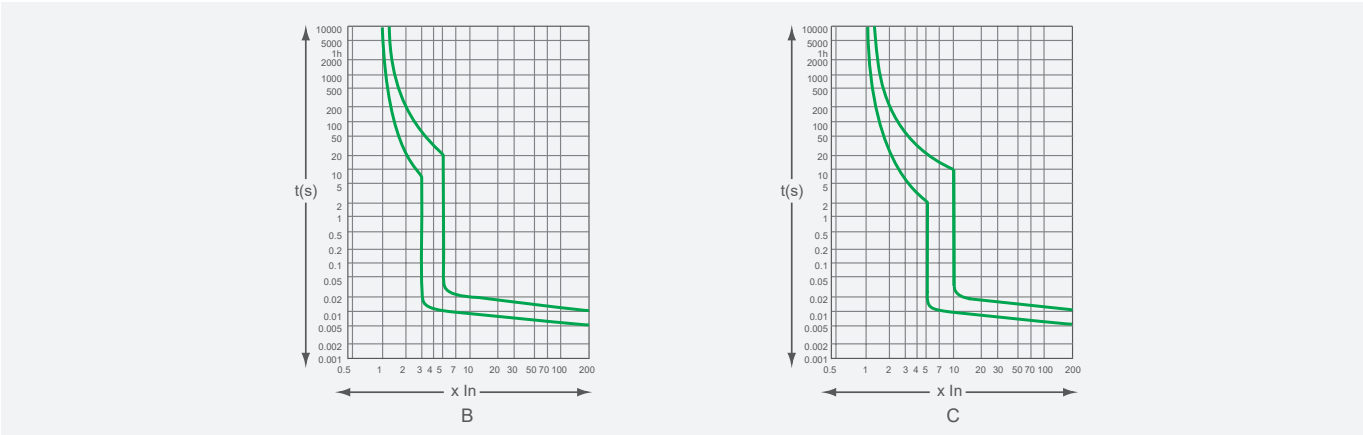
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure
5. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In

Selection

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

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

Curve



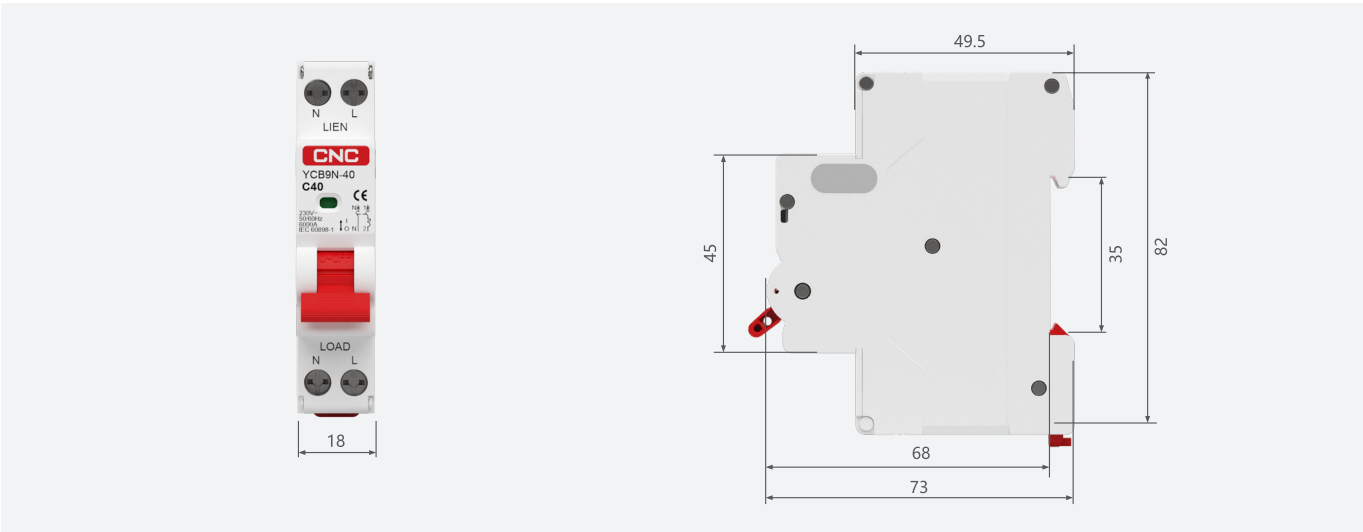
Final Distribution

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	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 EN 60715(35mm)by means of fast clip
	Connection		From top or bottom

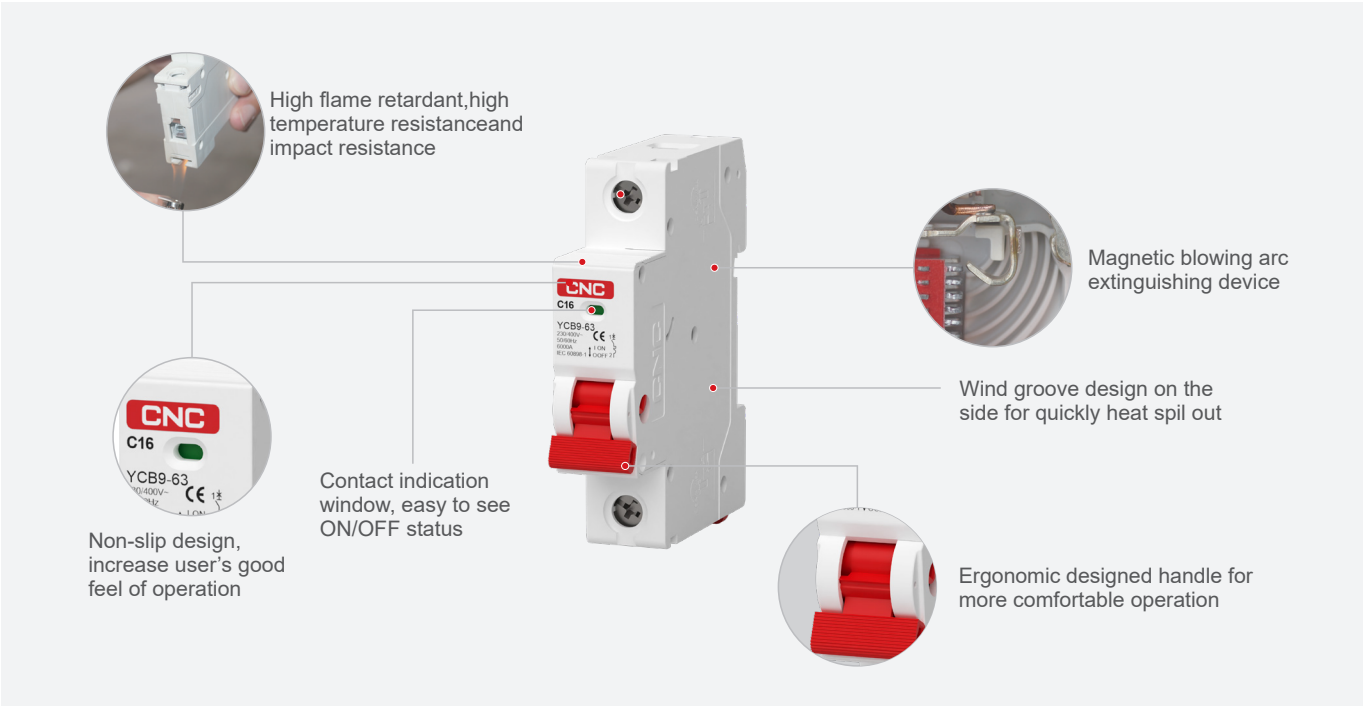
Overall and mounting dimensions (mm)



Final Distribution

YCB9-63 MCB

A



General

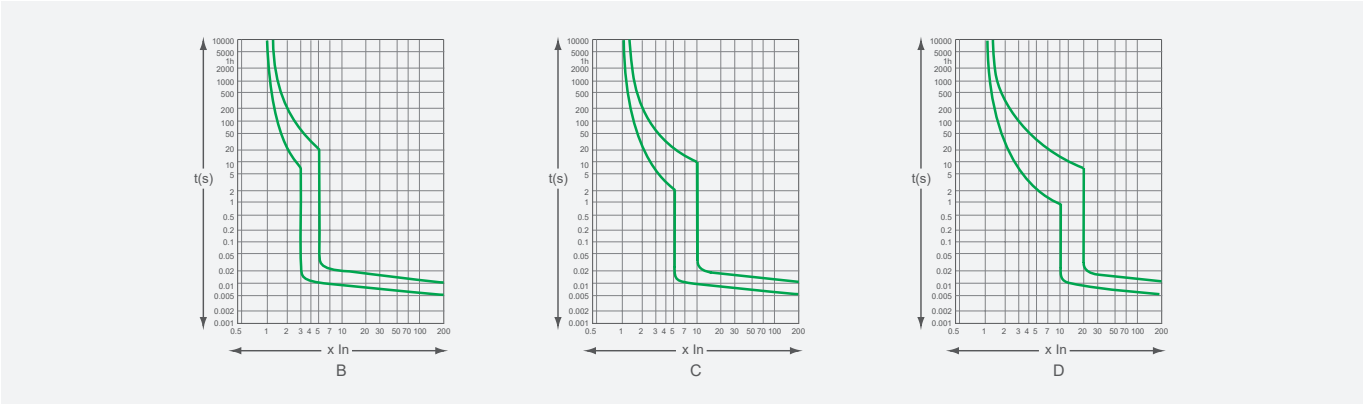
1. Overload protection
2. Short circuit protection
3. Controlling
4. Used in residential building, non-residential building, energy source industry and infrastructure
5. According to the type of instantaneous release classified as follows : type B(3-5)In, type C(5-10)In, type D(10-20)In

Selection

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

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

Curve



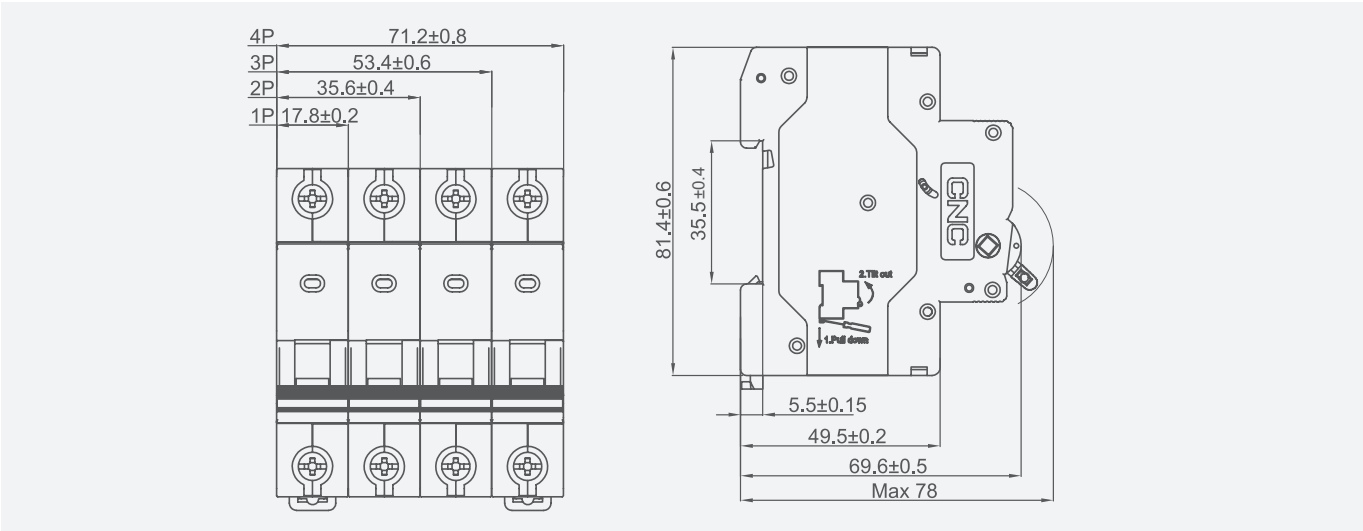
Final Distribution

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

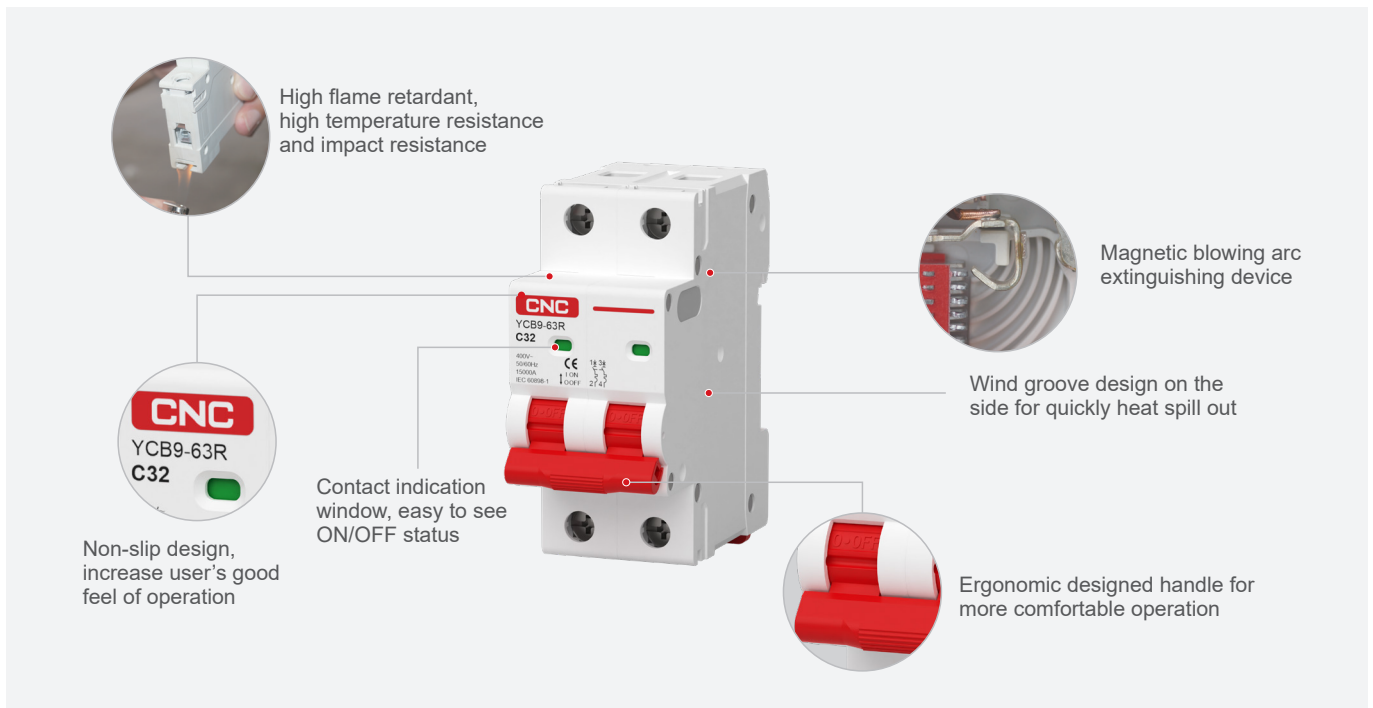
Overall and mounting dimensions(mm)



Final Distribution

YCB9-63R MCB

A



General

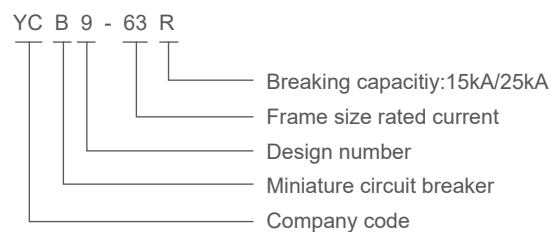
YCB9-63R Series Miniature circuit breaker is applicable to protecting from overload and short circuit in the circuit of AC 50/60Hz, Rated voltage 230/400V rated current 63A, it also can be used in switch the infrequent operation of the circuit under normal conditions. It's mainly used in industry, commerce,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



Final Distribution

YCB9-63R MCB

Operating conditions

- A
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.

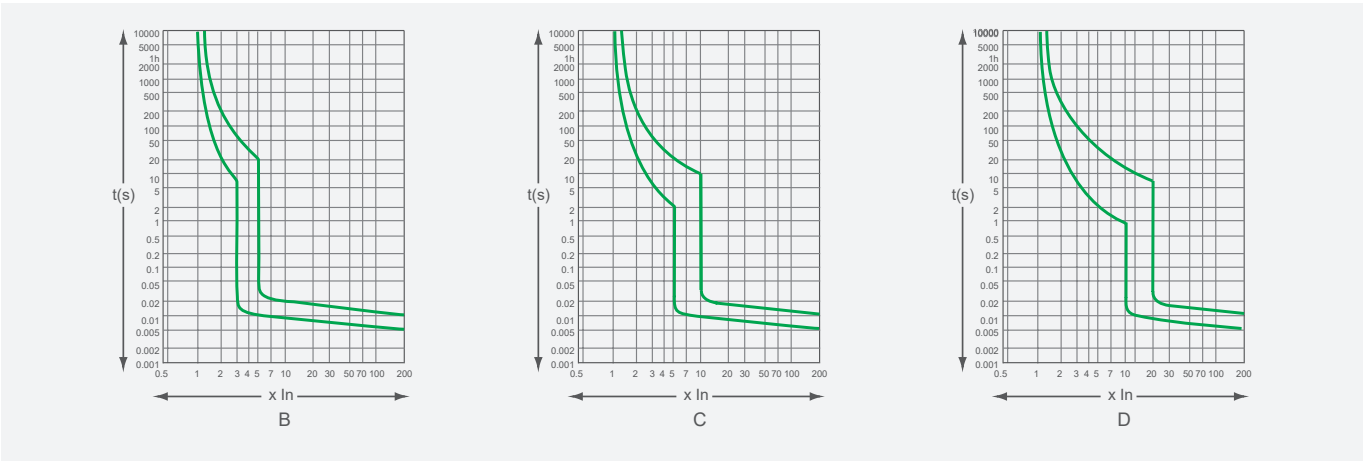
7. Product shall be installed at the place where there shall be no severe impact and vibration.

8. The product should locate in the places where there are no obvious impact and shake.

Selection

Type	Test current	Tripping time	Expected result	Type	Test current	Tripping time	Expected result
B,C,D	1.13In	$t \leq 1h(In \leq 63A)$	Not tripping	B	3In	$t \leq 0.1s$	Not tripping
	1.13In	$t \leq 2h(In > 63A)$		C	5In	$t \leq 0.1s$	
B,C,D	1.45In	$t \leq 1h(In \leq 63A)$	Tripping	D	10In	$t \leq 0.1s$	
	1.45In	$t < 2h(In > 63A)$		B	5In	$t < 0.1s$	Tripping
B,C,D	2.55In	$1s < t < 60s(In \leq 32A)$	Tripping	C	10In	$t < 0.1s$	
	2.55In	$1s < t < 120s(In > 32A)$		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 mm ²
6	1
10	1.5
16,20	2.5
25	4
32	6
40,50	10
63	16

Final Distribution

YCB9-63R MCB

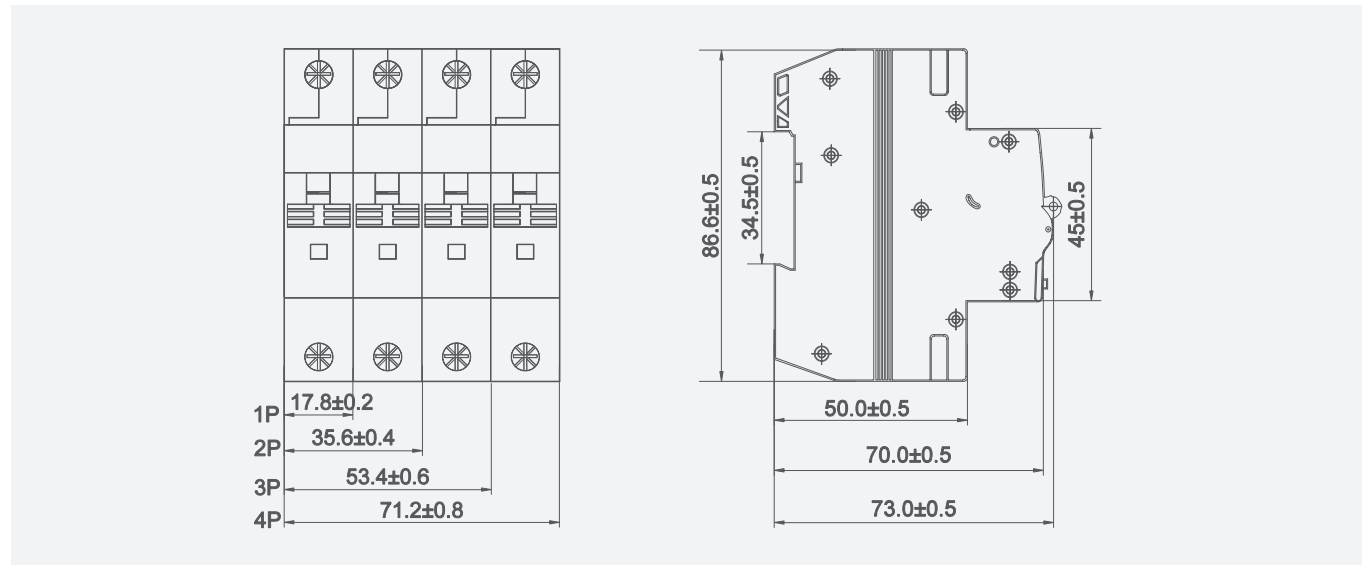
Temperature drop correction table

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

- 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.
- Customers can negotiate separately if you have special requirements.

Final Distribution

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	/:Single busbar DB:Double busbar
					2	
					4	
					6	
					10	
					16	
					20	
					25	
					32	
					40	
					50	
					63	
					80	

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

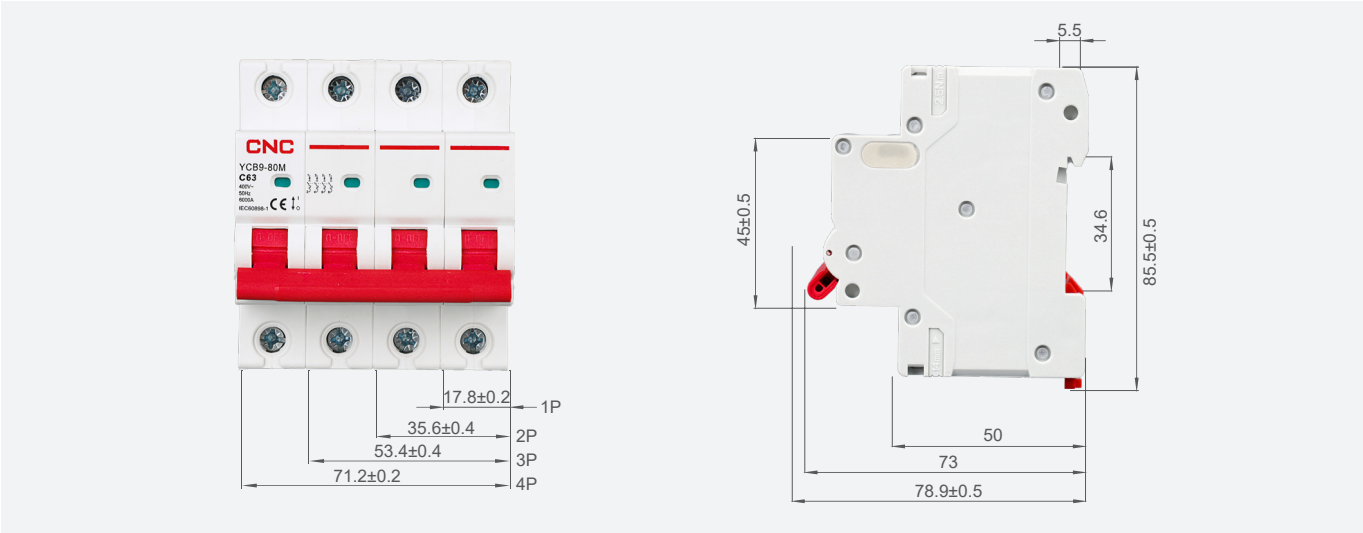
Technical data

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	mm²	25	
			AWG	18-3	
		Terminal size top/ bottom for busbar	mm²	25	
			AWG	18-3	
	Torque		N*m	2	
			ln-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		

Final Distribution

YCB9-80M/H MCB

Overall and mounting dimensions(mm)



Tripping characteristic(IEC/EN 60898-1)

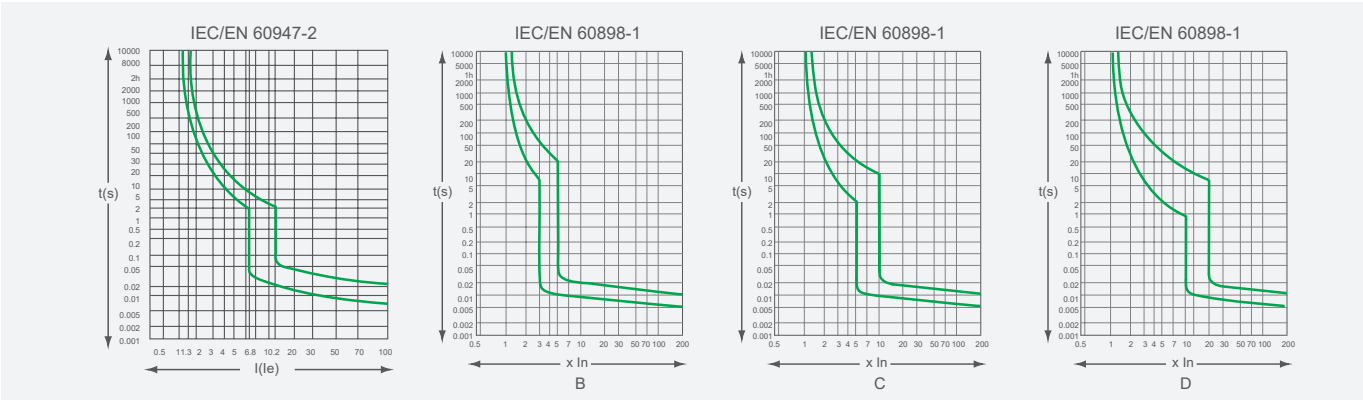
Type	Test current	Tripping time	Expected result
B,C,D	1.13In	$t \leq 1h (In \leq 63A)$	Not tripping
	1.13In	$t \leq 2h (In > 63A)$	
B,C,D	1.45In	$t \leq 1h (In \leq 63A)$	Tripping
	1.45In	$t < 2h (In > 63A)$	
B,C,D	2.55In	$1s < t < 60s (In \leq 32A)$	Tripping
	2.55In	$1s < t < 120s (In > 32A)$	

Type	Test current	Tripping time	Expected result
B	3In	$t \leq 0.1s$	Not tripping
C	5In	$t \leq 0.1s$	
D	10In	$t \leq 0.1s$	
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	$t \geq 1h (In \leq 63A)$ $t \geq 2h (In > 63A)$	Not tripping	Current increase steadily within 5s
b		1.3In	Right after test number a	$t < 1h (In \leq 63A)$ $t < 2h (In > 63A)$	Tripping	
c		8In	Cold state	$t \geq 0.2s$	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

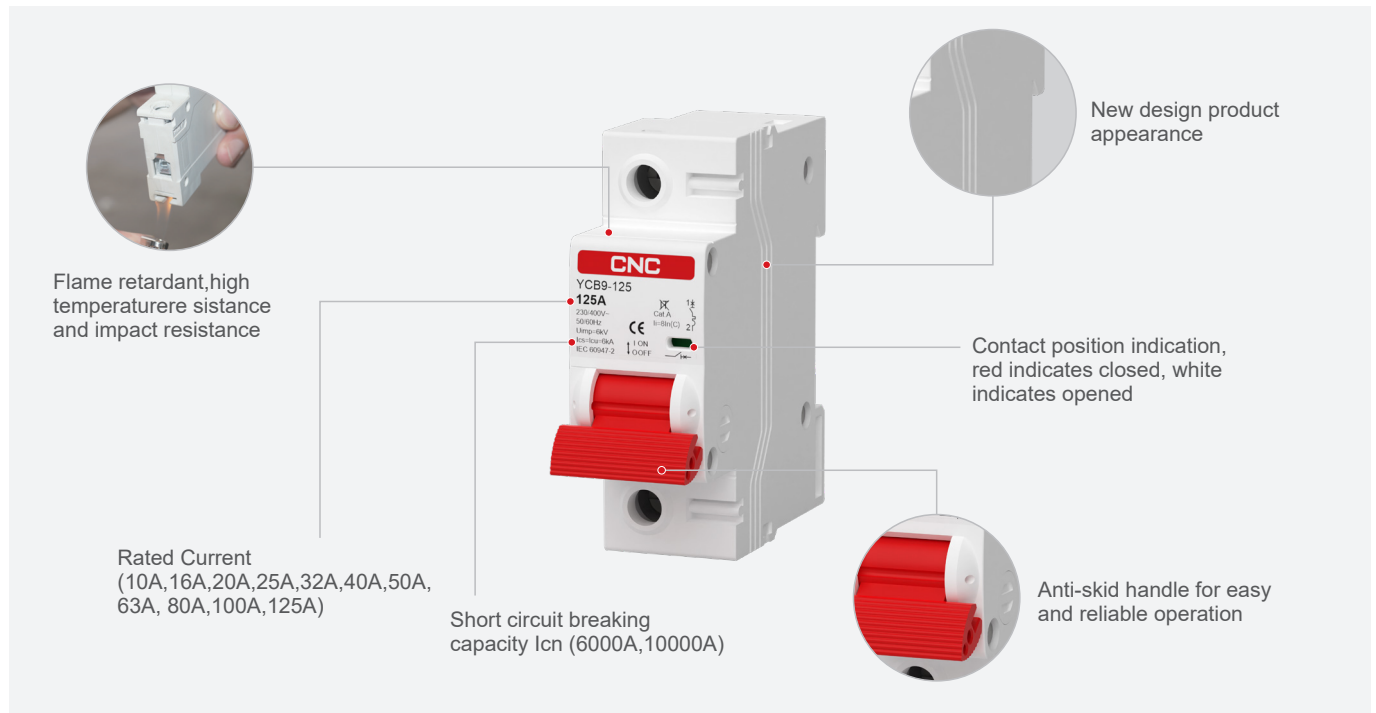
Curve



Final Distribution

YCB9-125 MCB

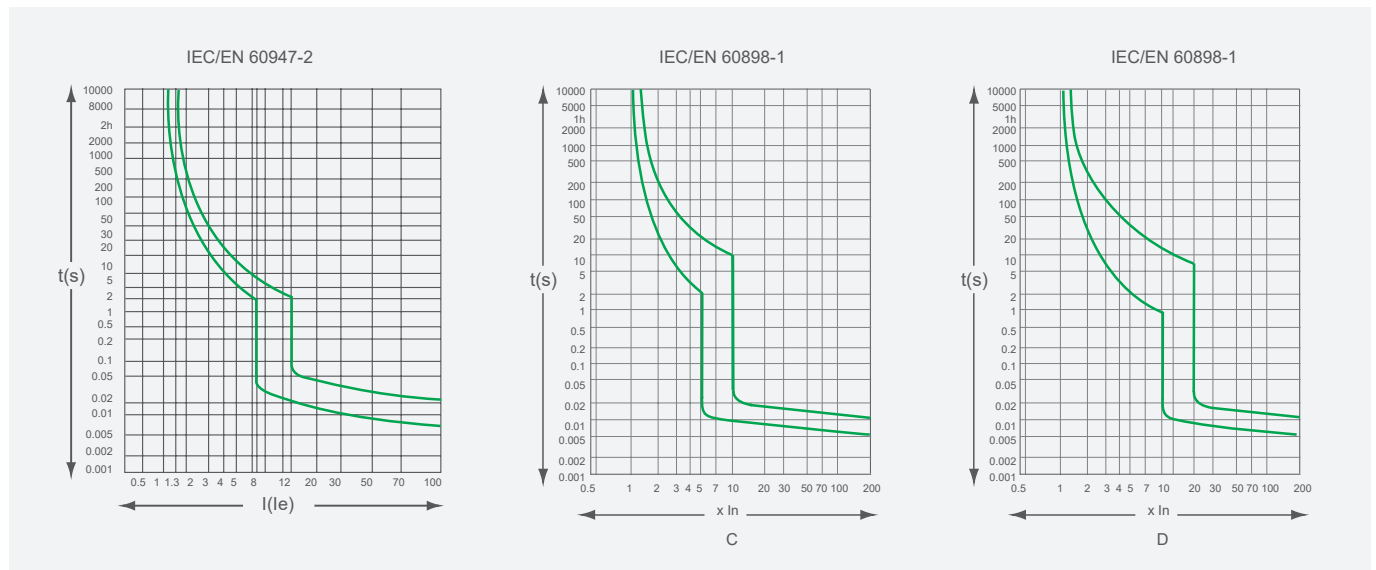
A



General

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

Curve



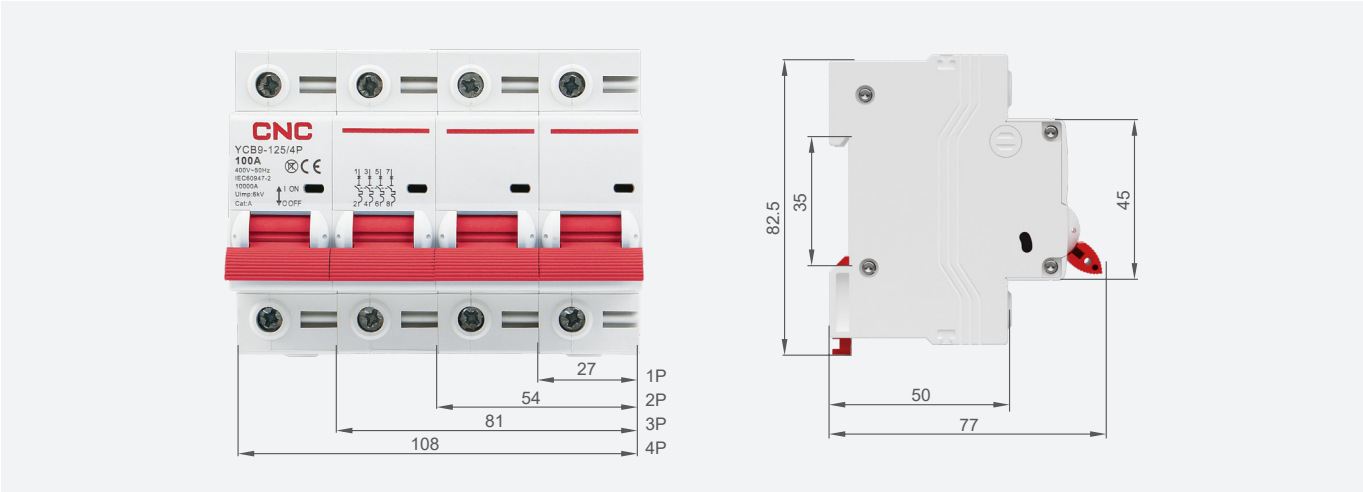
Final Distribution

YCB9-125 MCB

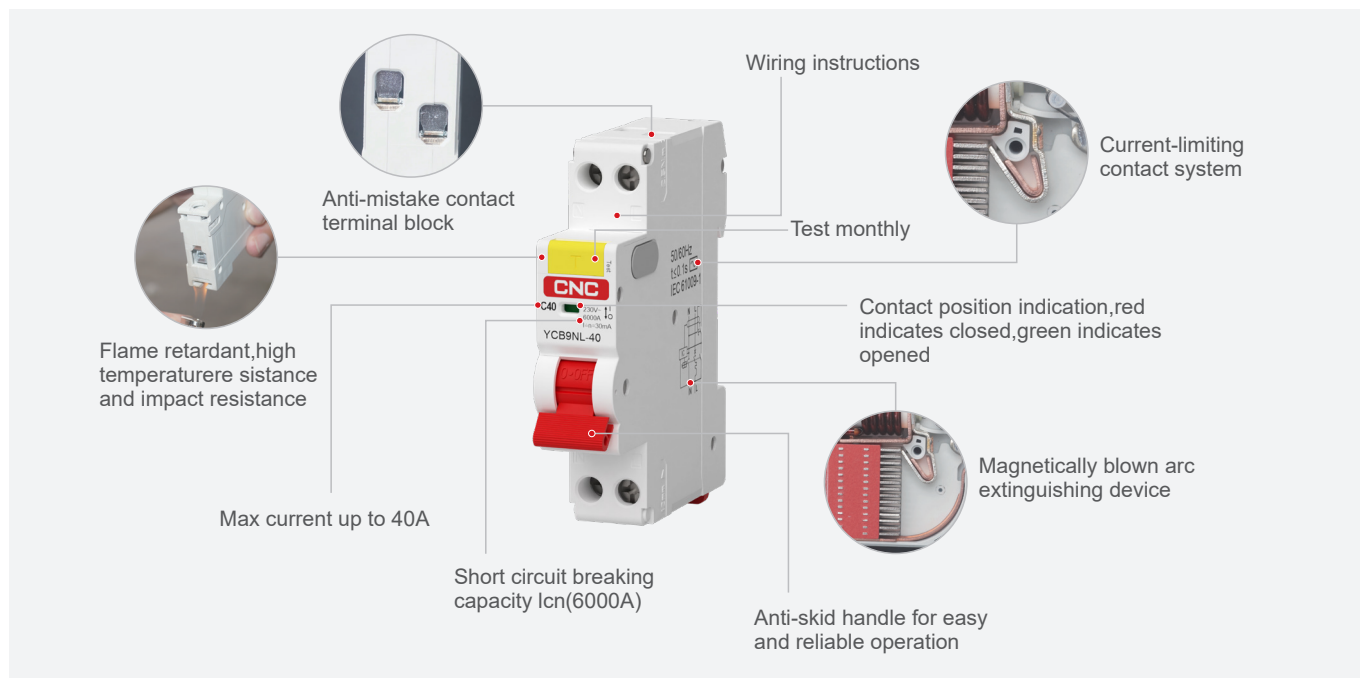
Technical data

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	
		ln-lbs	31	
	Mounting		On DIN rail EN60715(35mm)by means of fast clip device	
	Connection		From top and bottom	

Overall and mounting dimensions(mm)



A



General

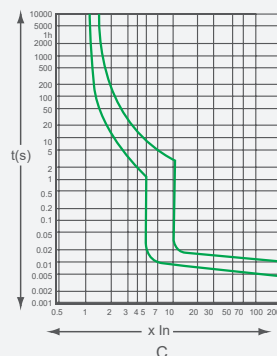
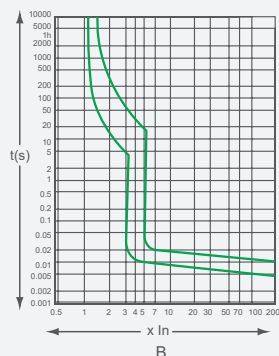
1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts.
4. Protection against fire hazard caused by insulation faults
5. Used in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

Selection

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

Type	Test current	Tripping time	Expected result
B	3 I_n	$t \leq 0.1s$	Not tripping
C	5 I_n	$t \leq 0.1s$	
B	5 I_n	$t < 0.1s$	Tripping
C	10 I_n	$t < 0.1s$	

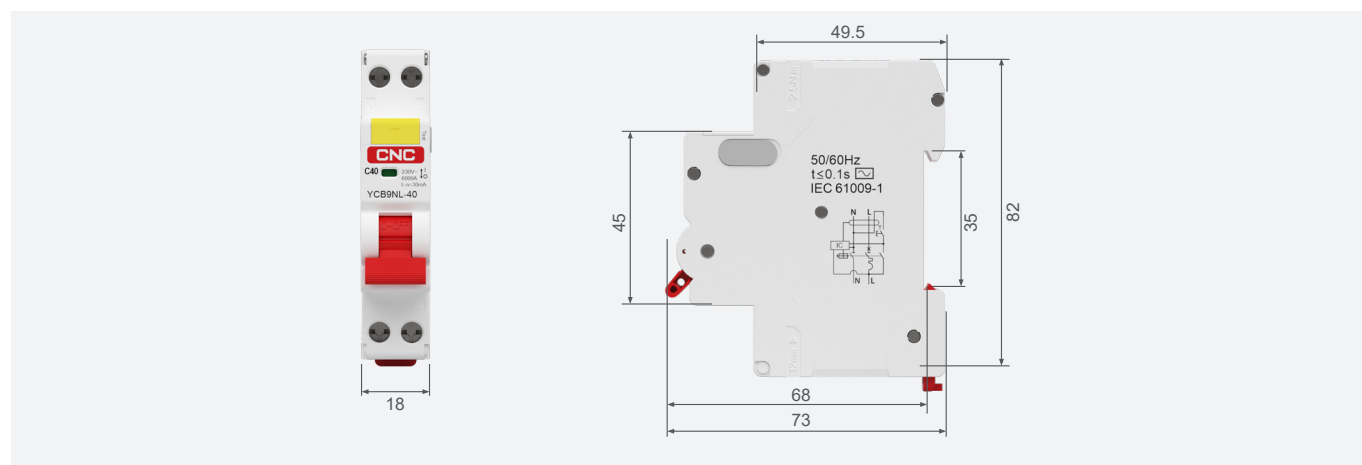
Curve



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 I_n	A	6, 10, 16, 20, 25, 32, 40
	Rated voltage U_e	V	230
	Rated sensitivity $I_{\Delta n}$	A	0.03, 0.05, 0.1
	Rated residual making and breaking capacity $I_{\Delta m}$	A	500($I_n \leq 40A$) 630($I_n > 40A$)
	Rated short-circuit capacity I_{cn}	A	6000
	Break time under $I_{\Delta n}$	s	≤ 0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50) U_{imp}	V	4000
	Dielectric test voltage at ind.Freq.for 1min	kV	2
	Insulation voltage U_i	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 $\leq 35^\circ\text{C}$)	$^\circ\text{C}$	-5~+40
	Storage temperature	$^\circ\text{C}$	-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 EN60715(35mm)by means of fast clip device
	Connection		From top

Overall and mounting dimensions (mm)



Final Distribution

YCB9NL-40LS RCBO

A

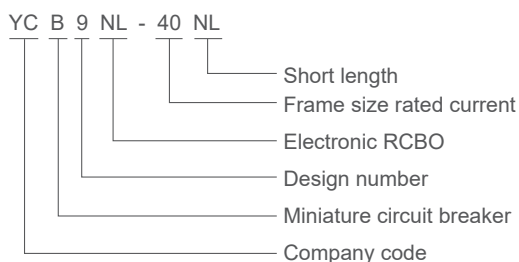


General

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



Operating conditions

1. Ambient temperature: $-25^{\circ}\text{C} \sim +40^{\circ}\text{C}$.
2. Air conditions: At mounting site, relative humidity not exceed 50% at the maximum temperature of $+40^{\circ}\text{C}$. For the wettest month, the maximum relative humidity averaged shall be 90% while the lowest temperature averaged in that month is $+20^{\circ}\text{C}$, special measures should be taken to occurrence of condensation.
3. Altitude: $\leq 2000\text{m}$.
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 $\pm 5^{\circ}$
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 Δ n	30mA
	Insulation voltage Ui (V)	500
	Rated frequency	50/60Hz
	Rated breaking capacity	6kA
	Rated residual making and breaking capacity I Δ m (A)	3000
	Rated impulse withstand voltage(1 .2/50) Uimp (V)	4000
	Break time under I Δ 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 $\leq 35^{\circ}\text{C}$)	-5 ~ +40
	Storage temperation (°C)	-25 ~ +70
	Terminal connection type	Cable/U-type busbar/Pin-type busbar
	Terminal size top for cable	10mm ²
	Terminal size bottom for cable	16mm ² / 18-8 AWG
	Terminal size top/bottom for Busbar	10mm ² / 18-8 AWG
	Tightening torque	2.5 N*m / 22 In-lbs .
	Mounting	On DIN rail EN 60715 (35mm)
	Connection	From bottom

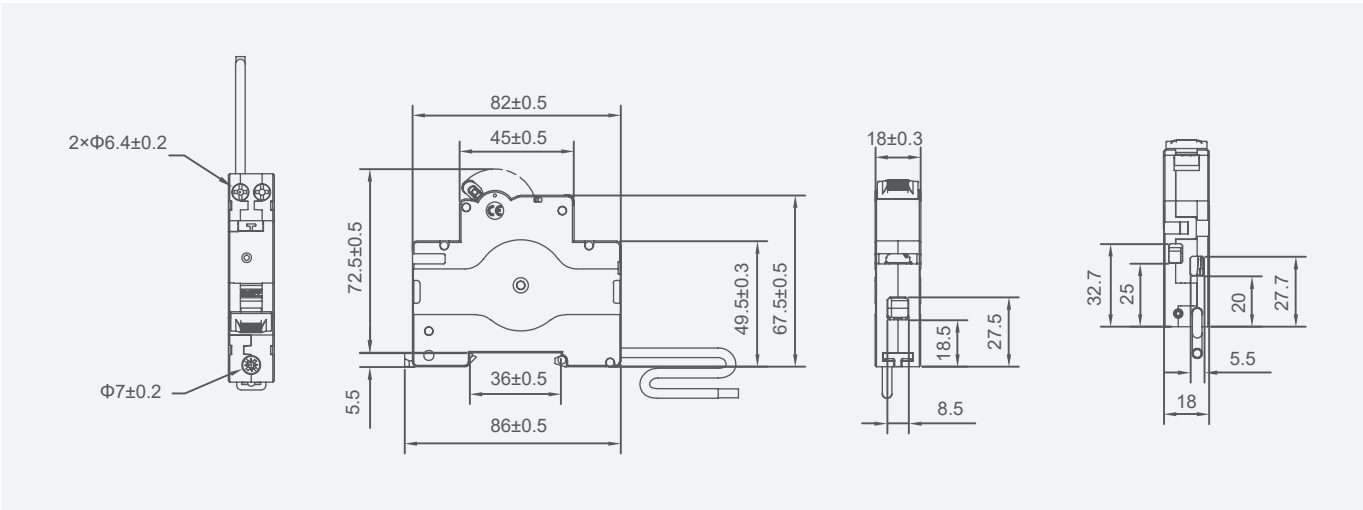
A

Final Distribution

YCB9NL-40LS RCBO

A

Overall and mounting dimensions(mm)



Temperature compensation coefficient table

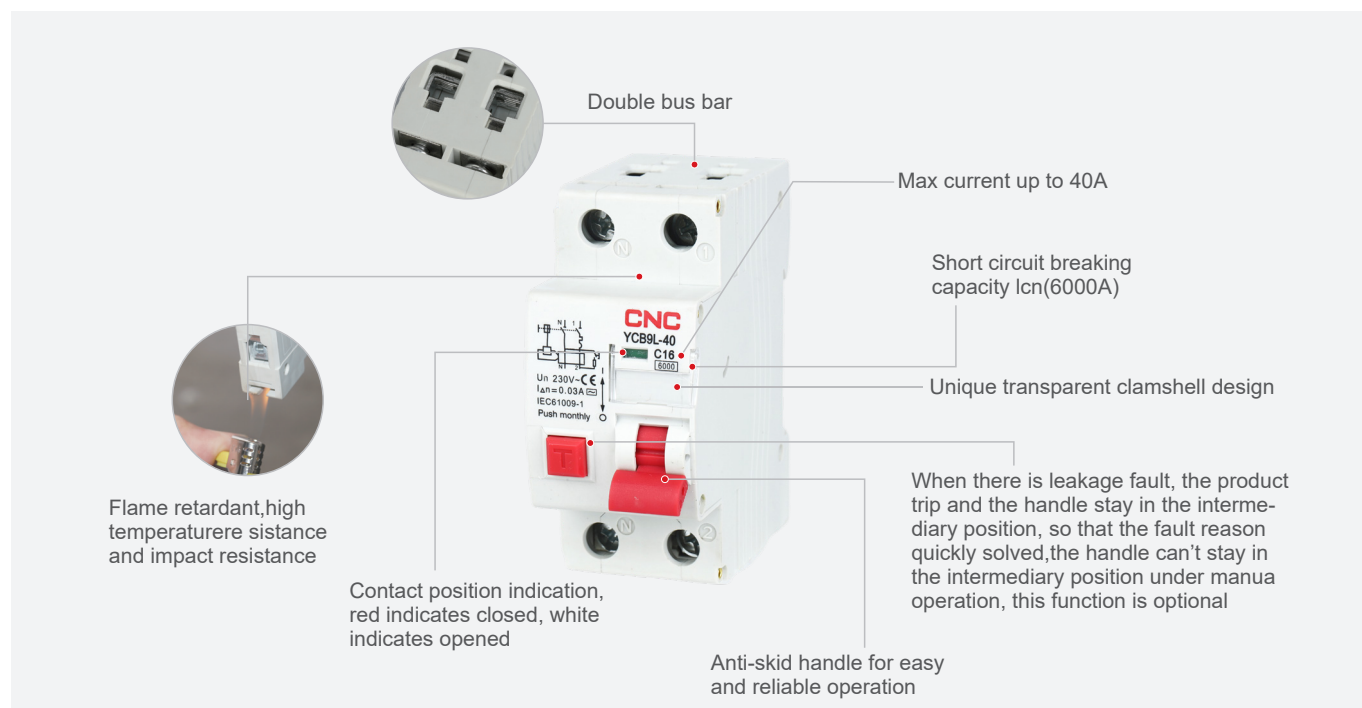
The maximum permissible current in a circuit breaker depends on the ambient temperature at which the circuit breaker is placed. Ambient temperature is the temperature inside the enclosure or switchboard in which the circuit breakers are installed. The reference temperature is 30°C Ambient temperature: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

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)I_n, type C(5-10)I_n

Selection

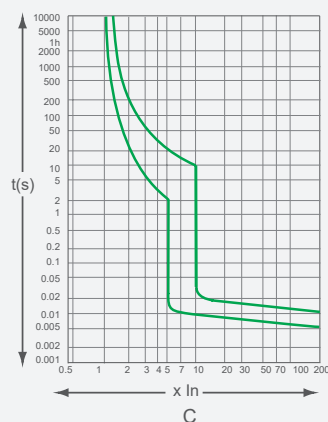
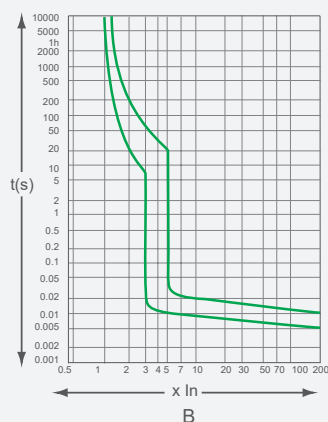
Type	Test current	Tripping time	Expected result
B,C	1.13I _n	t ≤ 1h (I _n ≤ 63A)	Not tripping
	1.13I _n	t ≤ 2h (I _n > 63A)	
B,C	1.45I _n	t < 1h (I _n ≤ 63A)	Tripping
	1.45I _n	t < 2h (I _n > 63A)	
B,C	2.55I _n	1s < t < 60s (I _n ≤ 32A)	Tripping
	2.55I _n	1s < t < 120s (I _n > 32A)	

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

Curve

B,C Curve

A

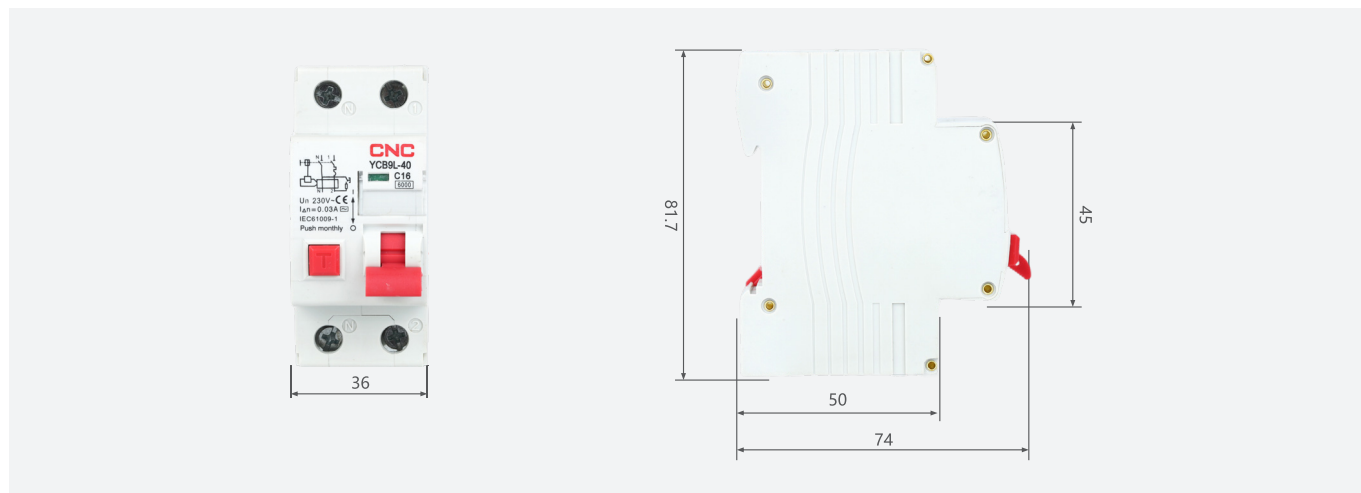


Technical data

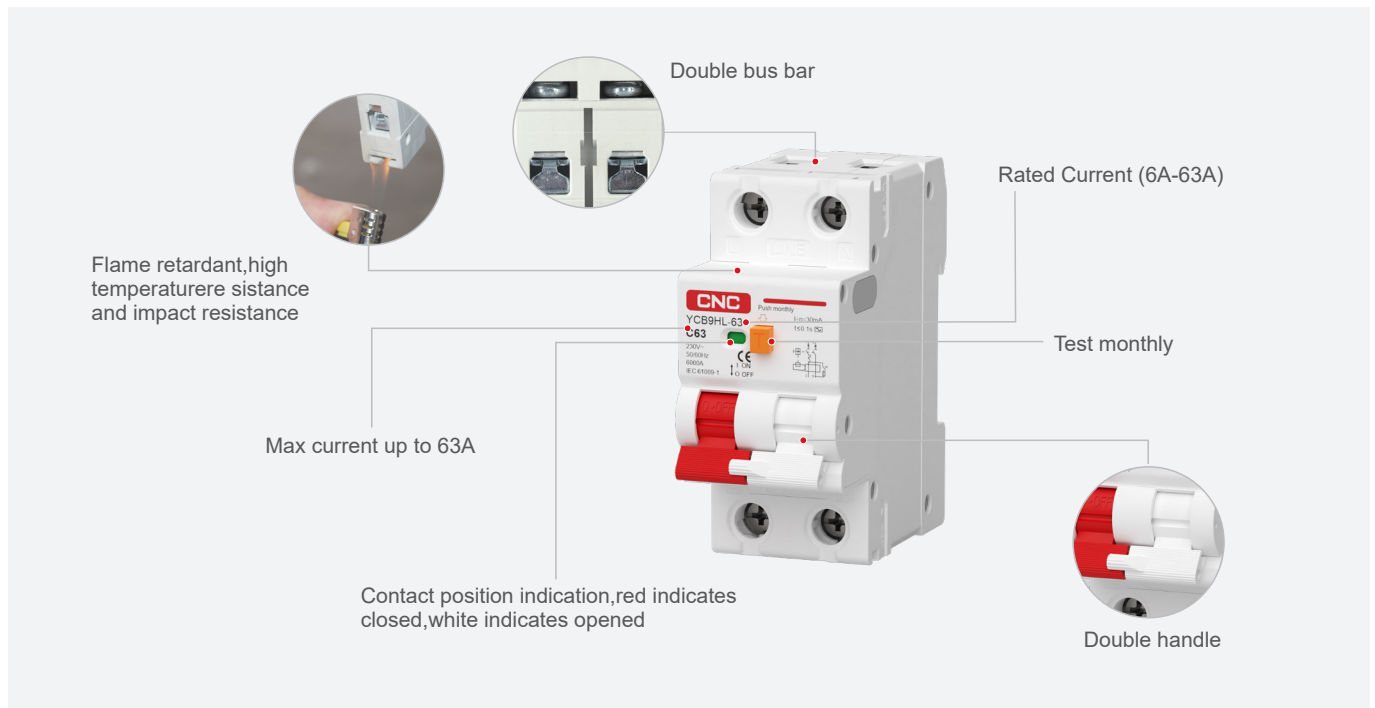
Type	Standard		IEC/EN 61009-1
Electrical features	Leakage type		Electromagnetic type
	Rated current I_n	A	6, 10, 16, 20, 25, 32, 40
	Type (wave form of the earth leakage sensed)		A, AC
	Poles	P	1P+N
	Rated voltage U_e	V	230
	Insulation voltage U_i	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity I_{cn}	A	6000
	Rated impulse withstand voltage (1.2/50) U_{imp}	V	4000
	Dielectric test voltage at ind. Freq. for 1min	kV	2
	Rated sensitivity $I_{\Delta n}$	A	0.03, 0.05, 0.1
	Break time under $I_{\Delta n}$	s	≤ 0.1
	Rated residual making and breaking capacity $I_{\Delta m}$	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 $\leq 35^\circ\text{C}$)	°C	-5~+40
Installation	Terminal connection type		Cable/U-type bar/Pin-type busbar
	Terminal size top / bottom for cable	mm ²	16
		AWG	18-5
	Terminal size top / bottom for busbar	mm ²	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)



A



General

YCB9HL-63 RCBO is a 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

Final Distribution

YCB9HL-63 RCBO Electromagnetic

Selection

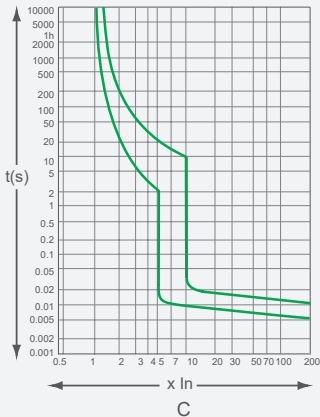
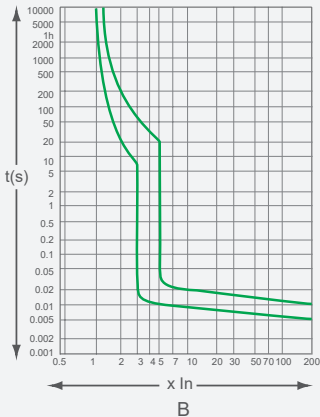
Type	Test current	Tripping time	Expected result
B,C	1.13In	$t \leq 1h (In \leq 63A)$	Not tripping
	1.13In	$t \leq 2h (In > 63A)$	
B,C	1.45In	$t < 1h (In \leq 63A)$	Tripping
	1.45In	$t < 2h (In > 63A)$	
B,C	2.55In	$1s < t < 60s (In \leq 32A)$	Tripping
	2.55In	$1s < t < 120s (In > 32A)$	

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



Curve

B,C Curve



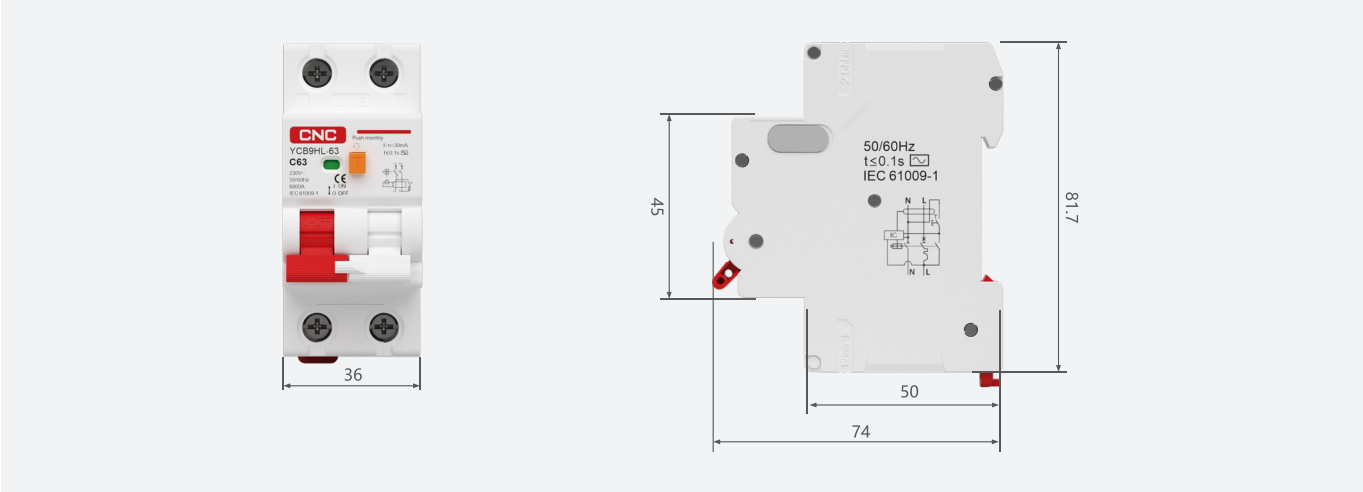
Final Distribution

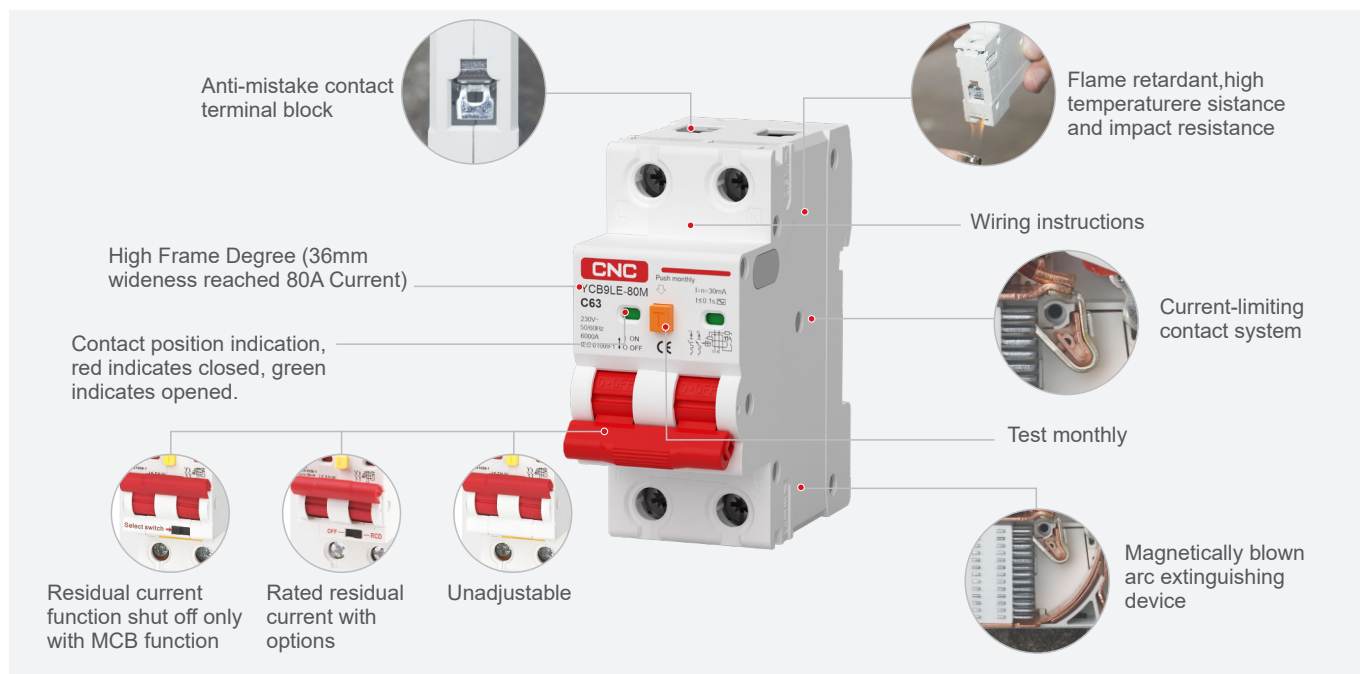
YCB9HL-63 RCBO Electromagnetic

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)





General

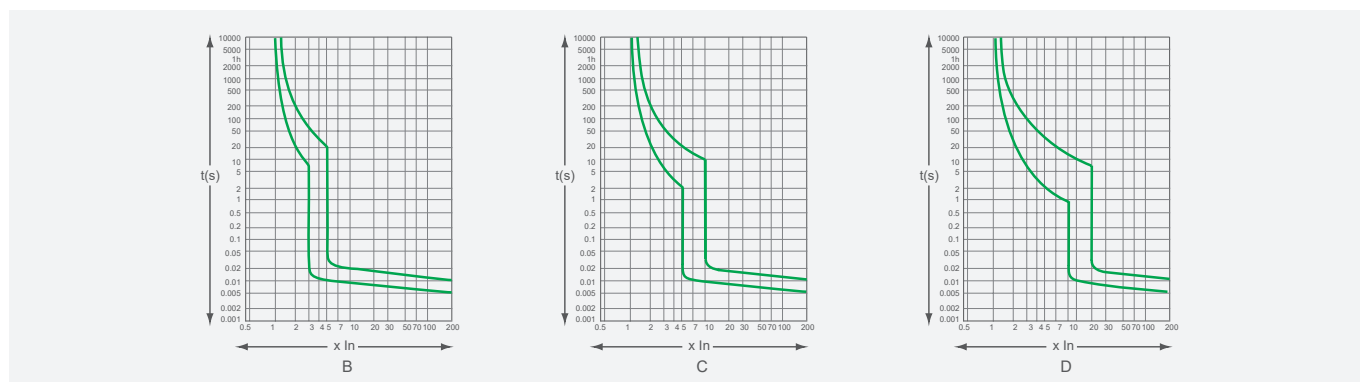
1. Protection against overload and short-circuit currents
2. Protection against the effects of sinusoidal alternating earth fault currents
3. Protection against indirect contacts and additional protection against direct contacts
4. Protection against fire hazard caused by insulation faults
5. Used in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

Selection

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

Type	Test current	Tripping time	Expected result
B	3 I_n	$t \leq 0.1s$	Not tripping
C	5 I_n	$t \leq 0.1s$	
D	10 I_n	$t \leq 0.1s$	
B	5 I_n	$t < 0.1s$	Tripping
C	10 I_n	$t < 0.1s$	
D	20 I_n	$t < 0.1s$	

Curve



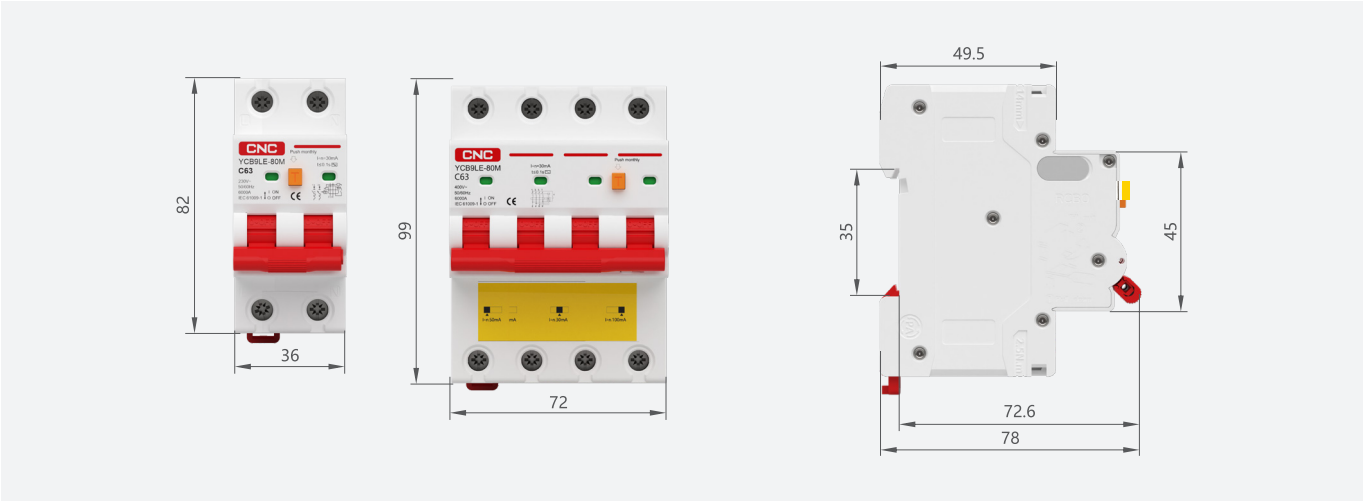
Final Distribution

YCB9LE-80M/H RCBO Electronic

Technical data

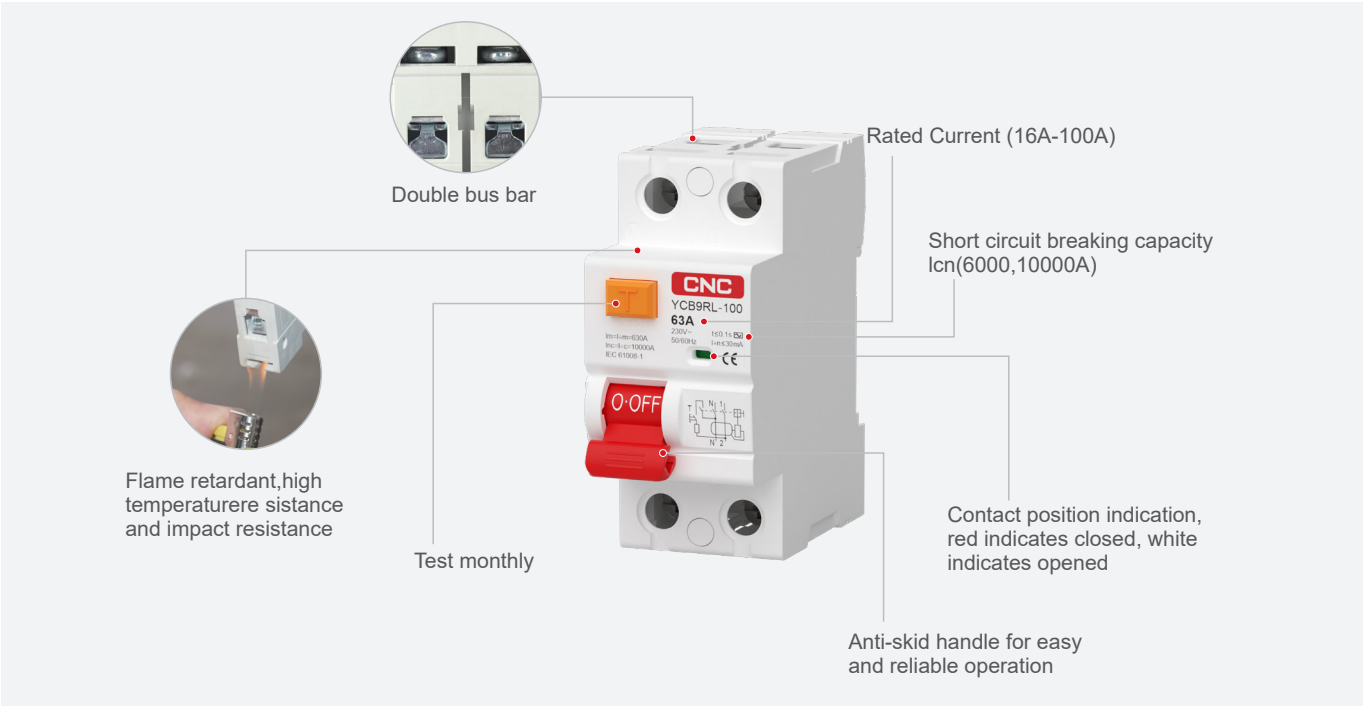
Type	Standard		IEC/EN 61009-1
Electrical features	Poles	P	2, 4
	Type(wave form of the earth leakage sensed)		A/AC
	Thermo-magnetic release characteristic		B, C, D
	Rated current I _n	A	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63, 80
	Rated voltage U _e	V	230/400
	Rated sensitivity IΔ _n	A	0.03, 0.05, 0.1, 0.2
	Rated residual making and breaking capacity IΔ _m	A	500(I _n ≤40A) 630(I _n >40A)
	Rated short-circuit capacity I _{cn}	A	M:6000A H:10000A(I _n ≤63A)
	Break time under IΔ _n	s	≤0.1
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage(1.2/50)U _{imp}	V	4000
	Dielectric test voltage at ind.Freq.for 1min	kV	2
	Insulation voltage U _i	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



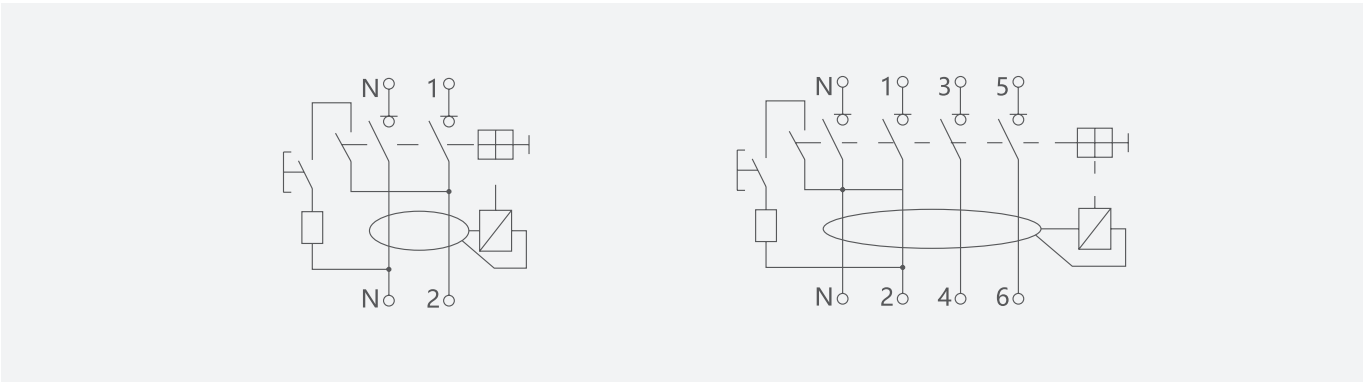
General

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

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

Wiring Diagram



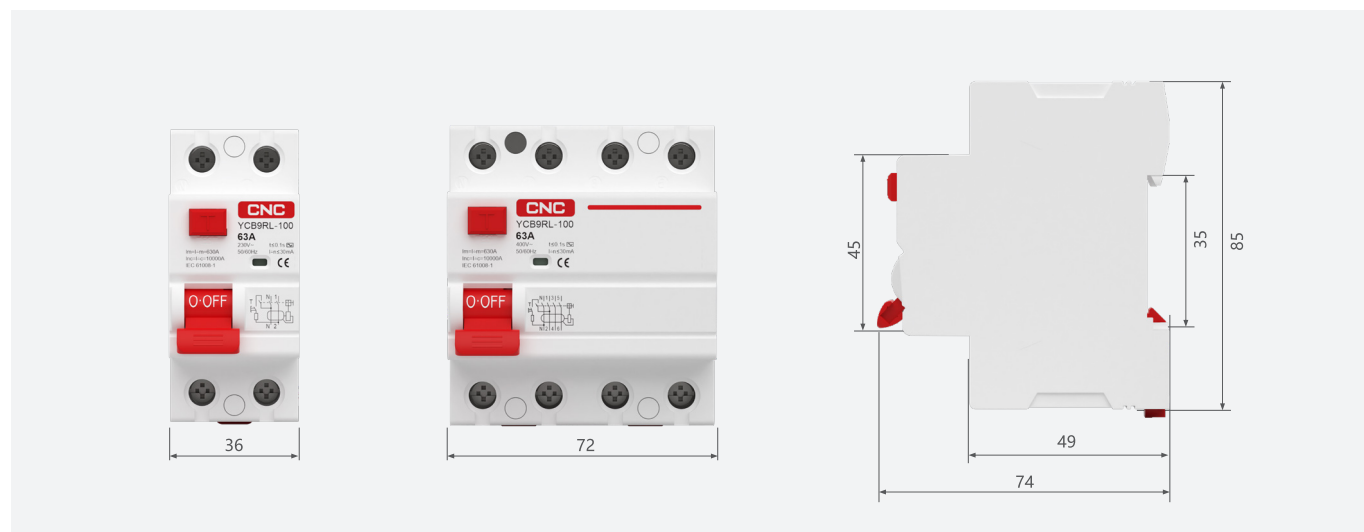
YCB9RL-100 RCCB Electromagnetic

Technical data

A

Type	Standard		IEC/EN 61008-1
Electrical features	Leakage type		Electromagnetic type
	Rated current I_n	A	6, 10, 16, 25, 32, 40, 50, 63, 80, 100
	Type (wave form of the earth leakage sensed)		A, AC, AS
	Poles	P	2, 4
	Rated voltage U_e	V	230/400
	Insulation voltage U_i	V	500
	Rated frequency	Hz	50/60
	Rated breaking capacity $I_{nc}=I_{\Delta c}$	A	6000, 10000
	Rated impulse withstand voltage (1.2/50) U_{imp}	V	6000
	Dielectric test voltage at ind. Freq. for 1min	kV	2.5
	Rated sensitivity $I_{\Delta n}$	A	0.01, 0.03, 0.1, 0.3
	Rated residual making and breaking capacity $I_{\Delta m}$	A	500($I_n \leq 40A$); 630($I_n = 50A/63A$); 1000($I_n = 80A/100A$)
	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 $\leq 35^\circ\text{C}$)	°C	-5~+40
	Terminal connection type		Cable/Pin-type busbar/U-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
		lbf-in	22
	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

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 Elec-tromagnetic	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



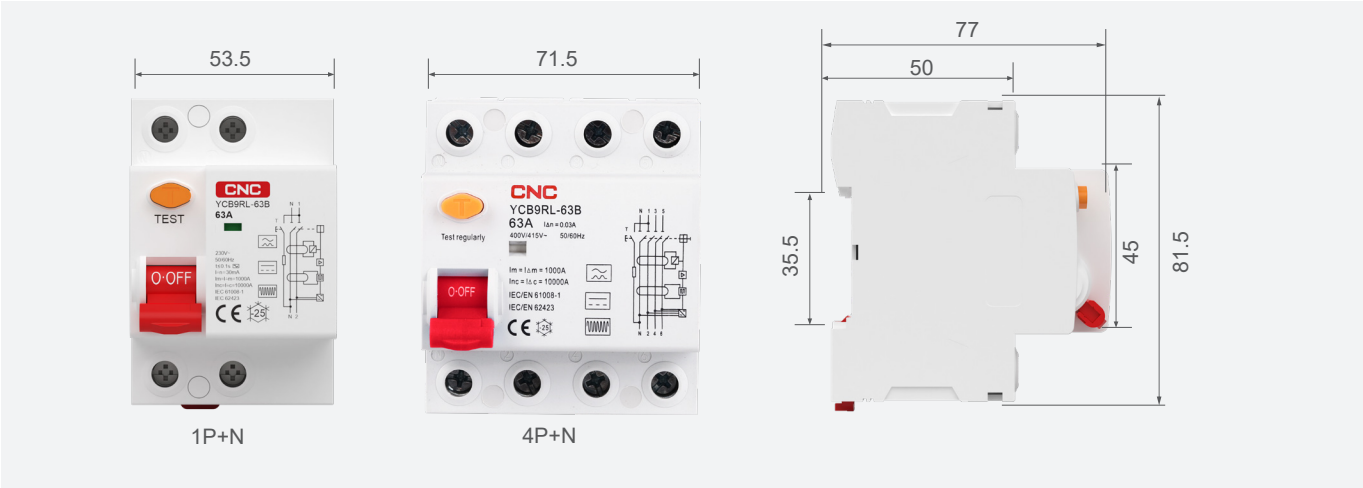
Final Distribution

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	mm²	16
	Installation category		II

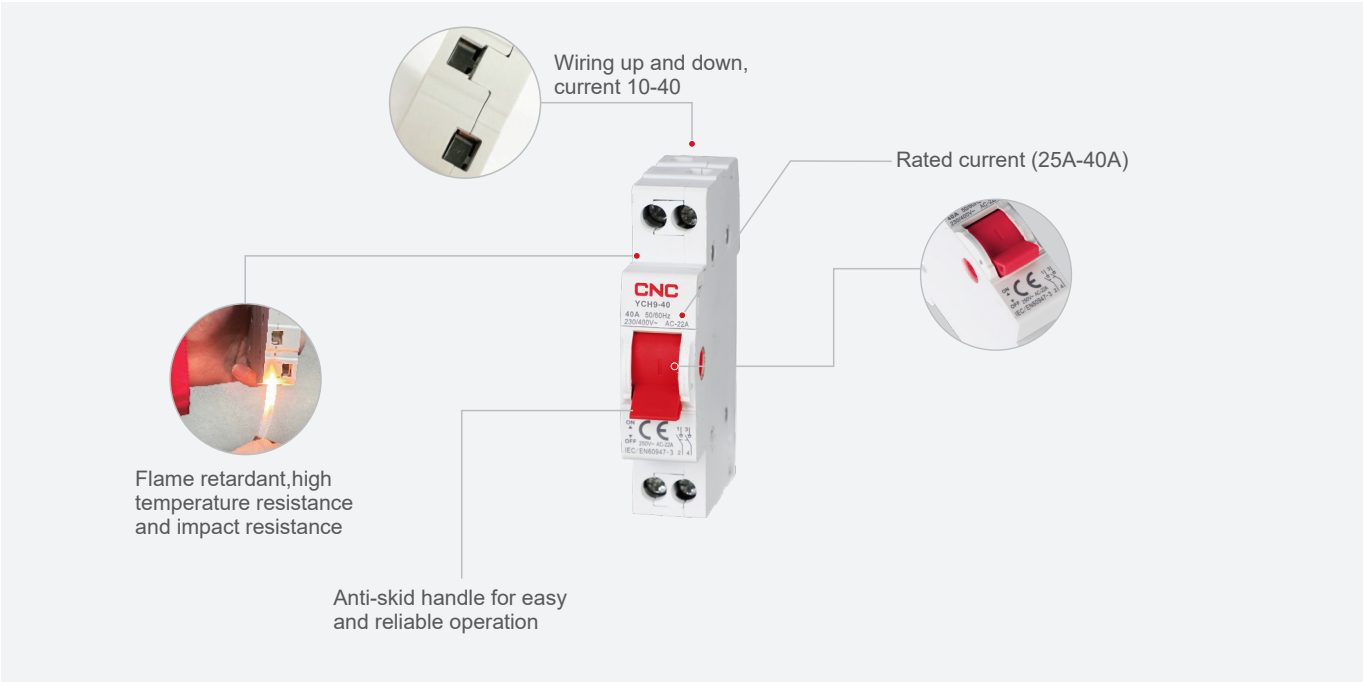
Overall and mounting dimensions (mm)



Final Distribution

YCH9-40 Isolating Switch

A



General

YCH9-40 was designed according to IEC 60947-3. It meets the demand of loading and isolating the circuit, it is used as a main switch in distribution boxes in household applications or as a switch for individual electric circuits, easily to be assembled and work with the same series compact circuit breakers together.

Standard: IEC 60947-3

Features

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

Type designation

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

Final Distribution

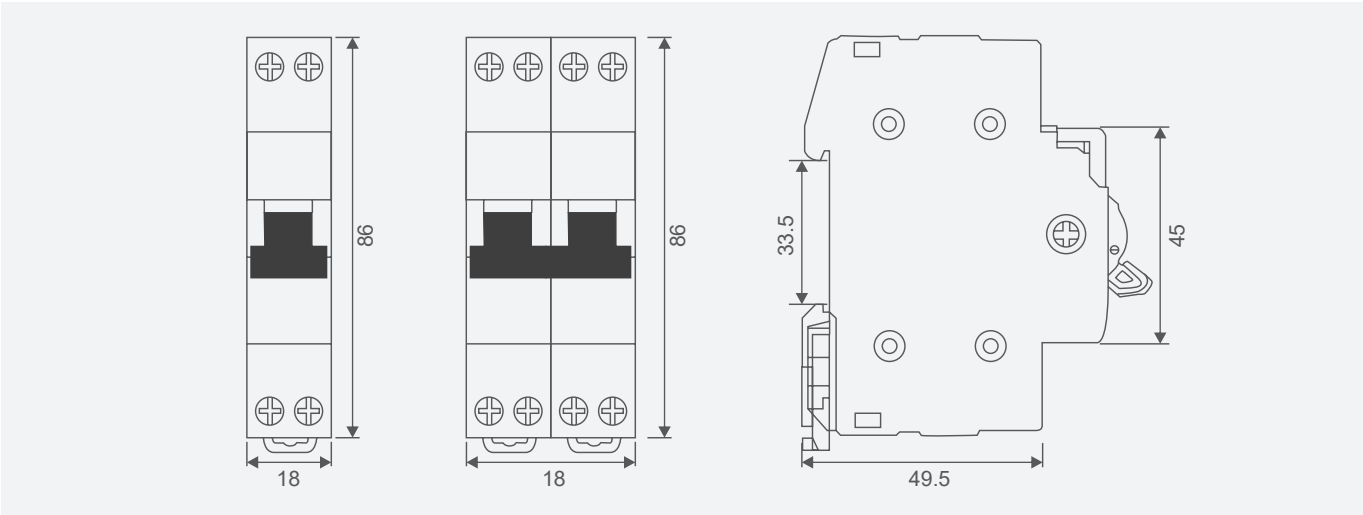
YCH9-40 Isolating Switch

A

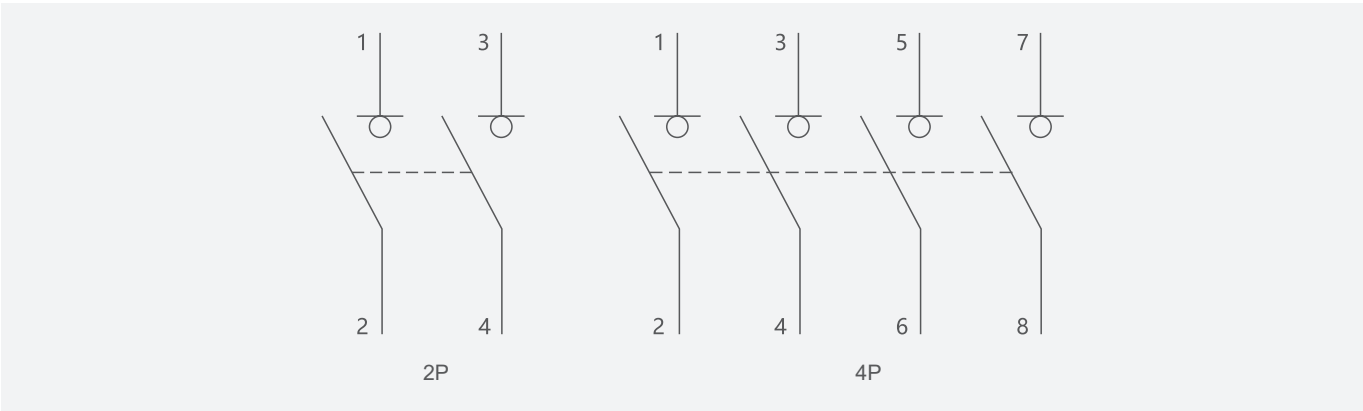
Technical data

Model	Standard	Model	IEC/EN 60947-3
Electrical features	Poles	P	2P, 4P
	Rated voltage Ue	V	240/415
	Rated current Ie	A	16,20,25,32,40
	Rated frequency	Hz	50/60
	Rated impulse withstand voltage Uimp	V	4000
	Rated short-time withstand current Icw	A	480
	Rated short circuit making capacity Icm	A	480
	Pollution degree		3
	Insulation voltage Ui	V	500
Mechanical features	Electrical life	t	1500
	Mechanical life	t	8500
	Protection degree		IP20
	Ambient temperature(with daily average≤35℃)	℃	-5~+40
	Mounting		On DIN rail EN 60715(35mm)by means of fast clip device
	Terminal capacity	t	1-10mm²
	Busbar specification	t	08-2.5mm
	Terminal fastening torque		1.2N.m

Overall and mounting dimensions(mm)

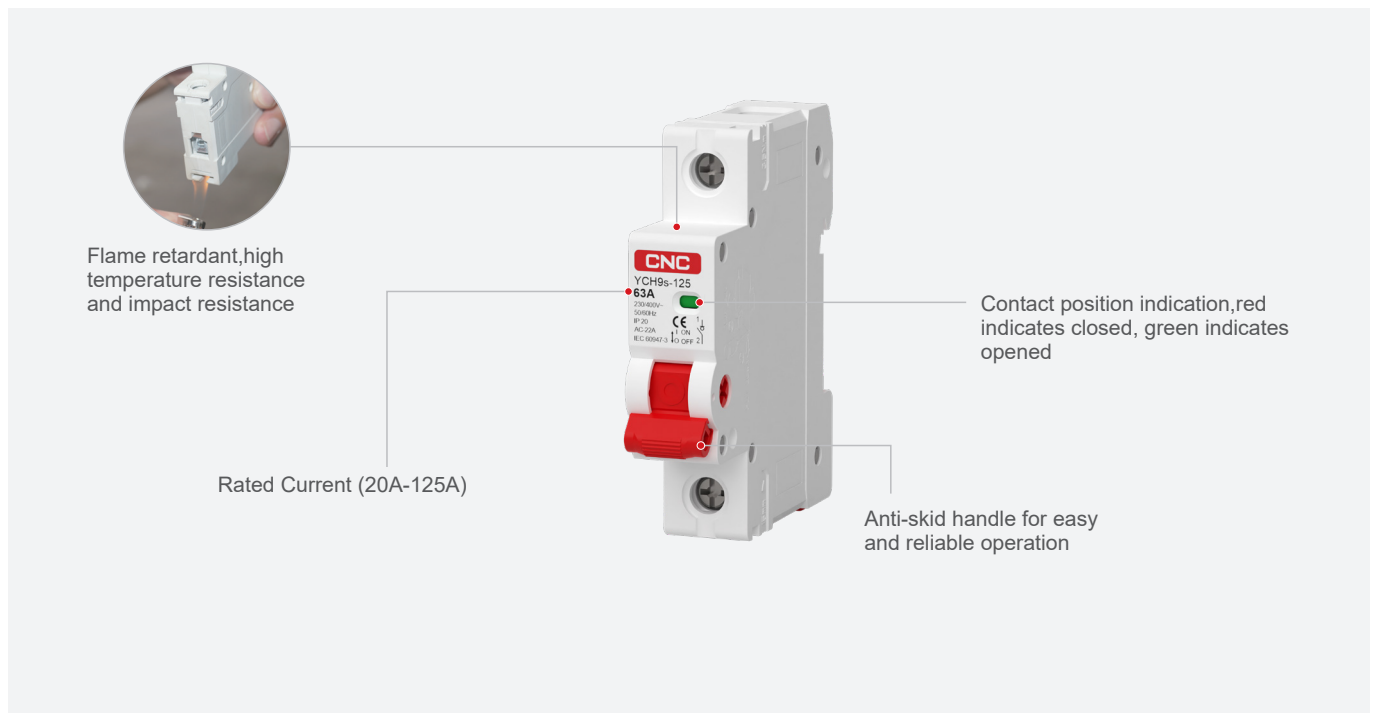


Wiring diagram



YCH9s-125 Isolating Switch

A



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: IEC600947-3

Operating Conditions

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

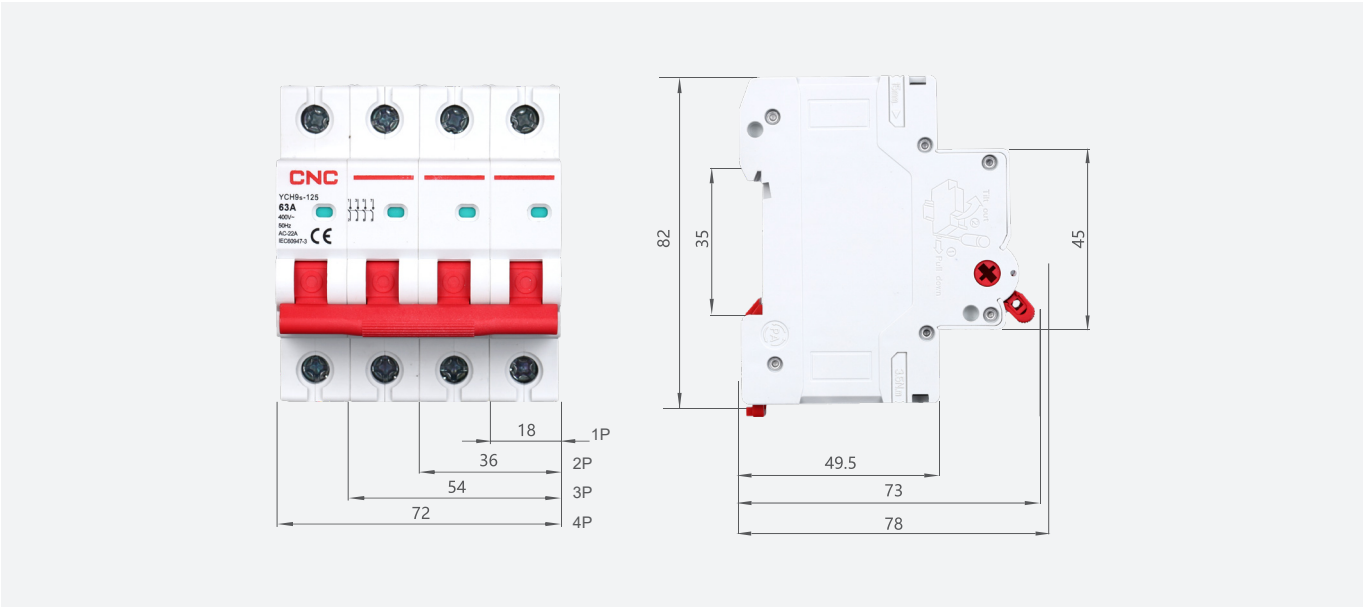
Final Distribution

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.Freg.for 1min	kV	2.5
	Insulation voltage Ui	V	500
	Pollution degree	t	2
Mechanical features	Electrical life	t	1500
	Mechanical life		8500
	Protection degree	°C	IP20
	Ambient temperature(with daily average≤35°C)	mm²	-5~+40
Installation	Terminal size top/bottomfor cable and pin-type busbar	AWG	50

Overall and mounting dimensions(mm)



AFDD9RL-63 Arc Fault Detection Device



General

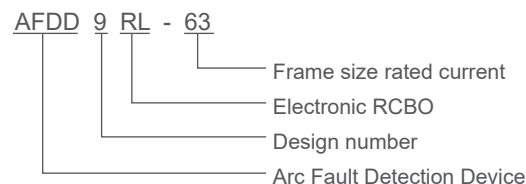
The AFDD9RL-63 series Arc Fault Detection Device are assembled by residual current circuit breakers (RCBO) and arc detection modules. The AFDD9RL-63 Arc Fault Detection Device possess the functions of short-circuit protection, overload protection, residual current protection and arc-fault protection. 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.

LED Indication

LED illumination for AFDD operation and arc fault identification

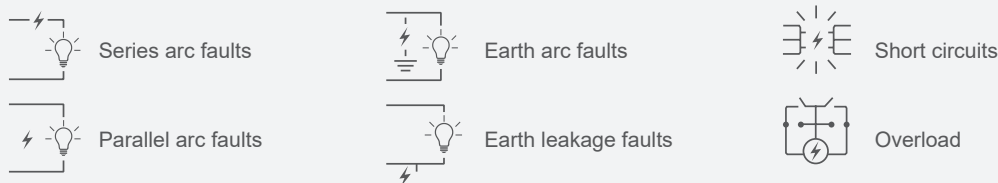
- LED turns GREEN , AFDD is operating properly
- LED flashes in RED for 5 times when AFDD is re-closed after tripping, the tripping is caused arc fault.
- LED turns GREEN when AFDD is reclosed after tripping, the tripping is caused by either overload, short circuit or earth leakage fault.
- LED flashes in RED, AFDD is operating improperly and shall be replaced by professionals.

Type designation



Maximum Protection

AFDD9RL-63 offers maximum protection against

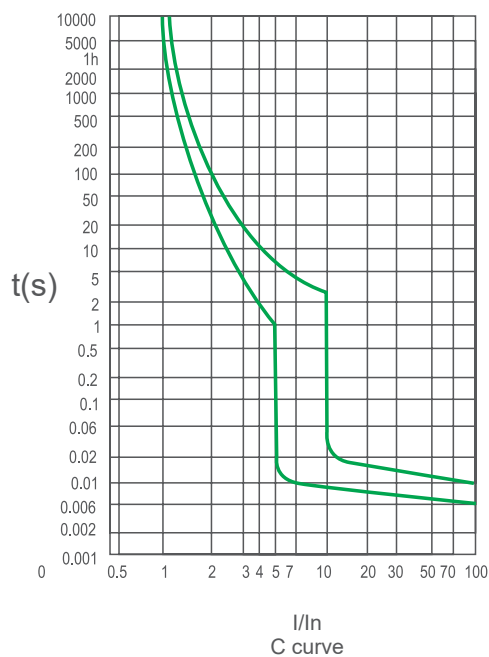
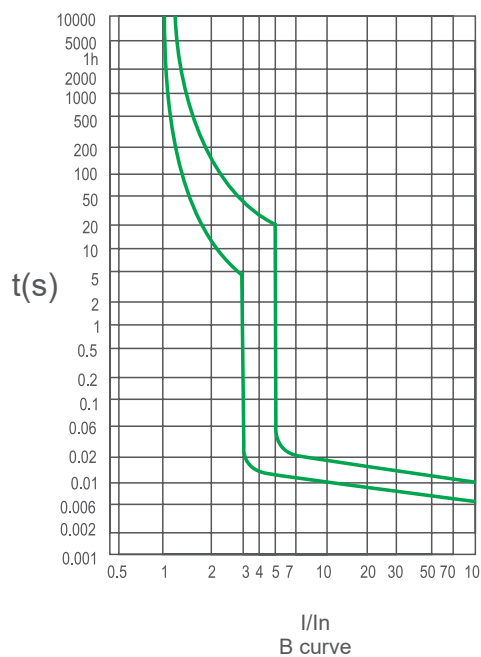


Technical data

A

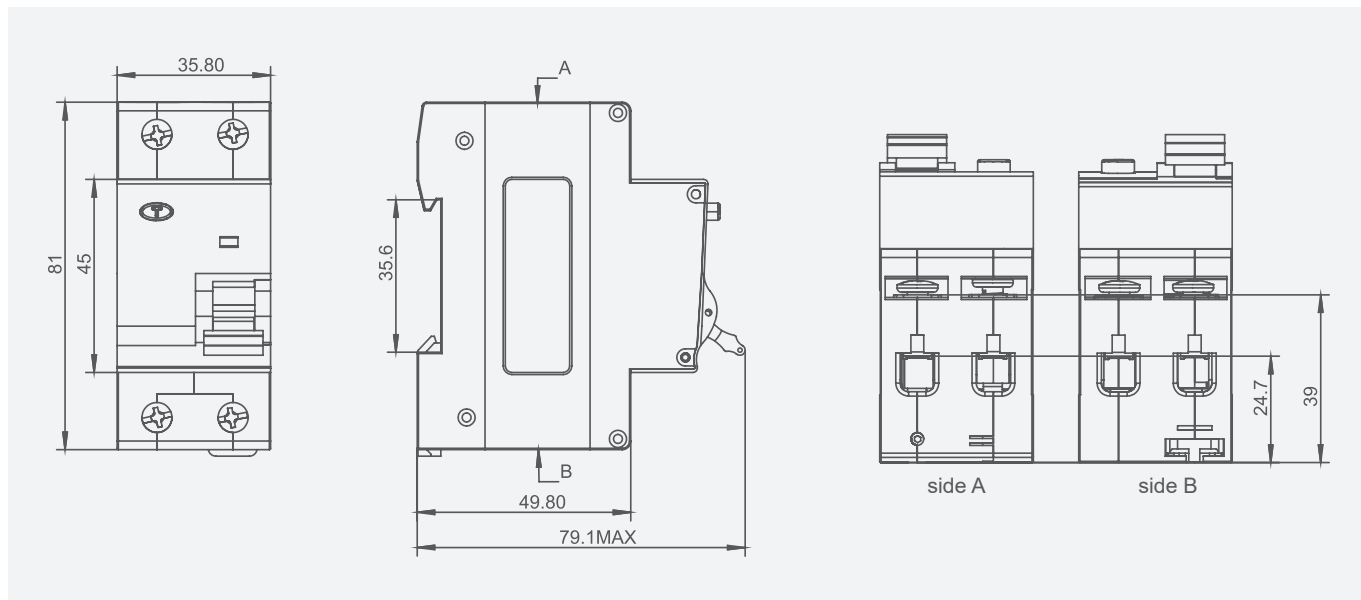
Content	Technical data
Rated voltage U_e , V	AC230/240
Approvals	CQC , CE
Rated frequency, Hz	50
Rated insulation voltage U_i , V	500
Rated impulse withstand voltage U_{imp} , V	4000
Rated current I_n , A	6, 10, 16, 20, 25, 32, 40, 50, 63
Number of poles	1P+N (N-pole disconnectable)
Instantaneous tripping type	B, C
Sensitivity ΔI_n , mA	10, 30, 100
type of RCBO	AC, A
Rated short circuit breaking capacity I_{cn} ,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

Tripping curves



AFDD9RL-63 Arc Fault Detection Device

Overall and mounting dimensions(mm)



A



The AFDD9NL-40 series Arc Fault Detection Device are assembled from 18mm - wide double - pole leakage circuit breakers (RCBO) and arc - detection modules. The products have functions of short - circuit protection, over - current protection, over - voltage protection, leakage protection, and arc - fault protection.

The AFDD9NL-40 series Arc Fault Detection Device meet the performance requirements of the standard IEC62606 - 2013. The AFDD9NL-40 series is designed in particular for UK market.

AFDD 9 NL - 40

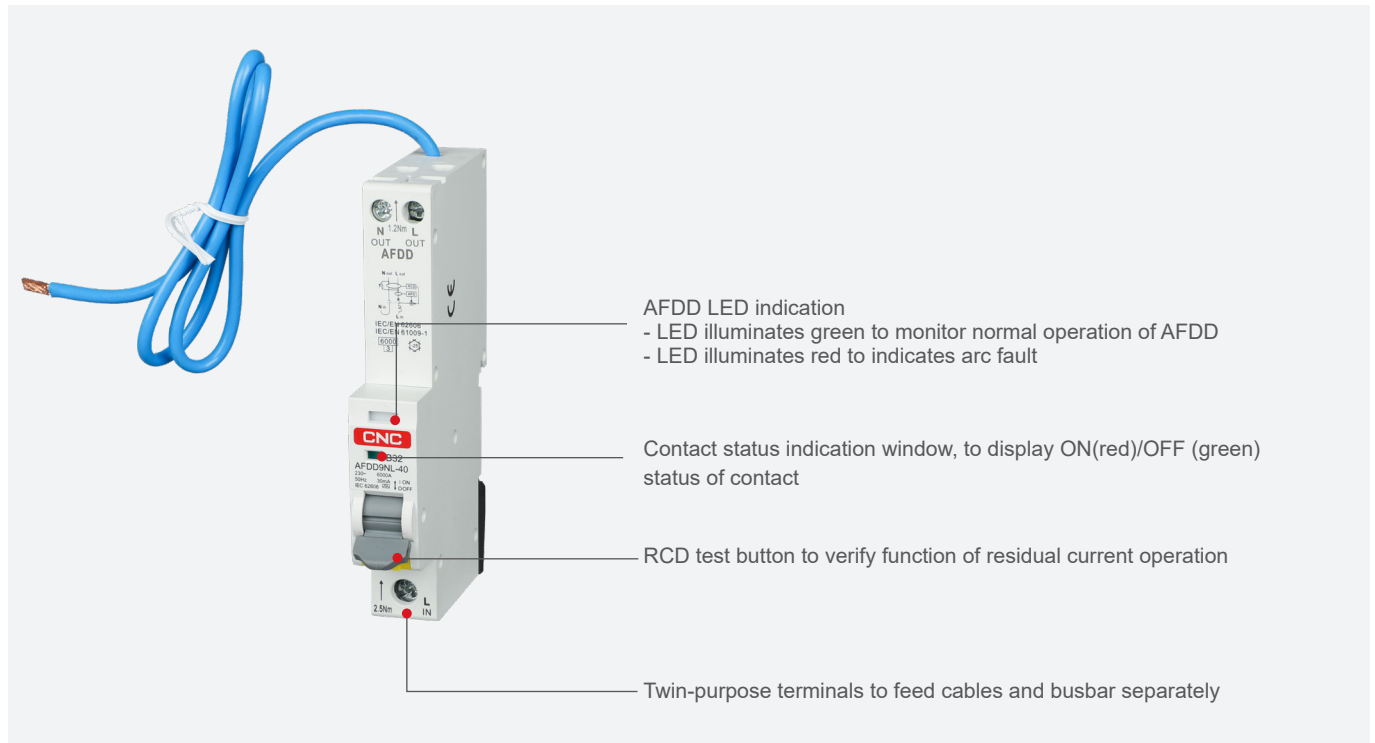
Frame size rated current

Electronic RCBO

Design number

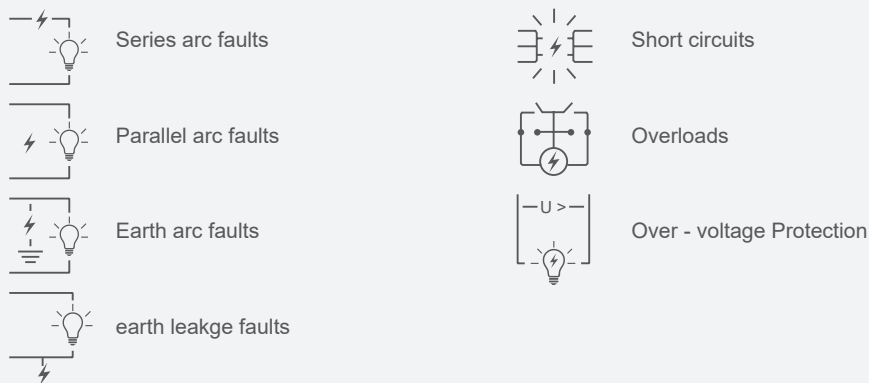
Arc Fault Detection Device

Overview



Maximum Protection

AFDD9NL-40 offers maximum protection against:



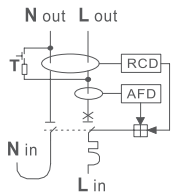
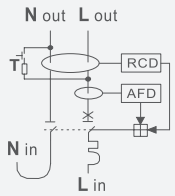
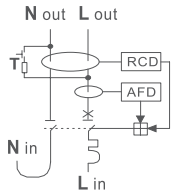
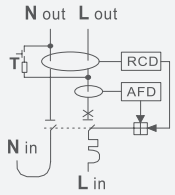
LED Indication

LED illumination for AFDD operation and arc fault identification

1. LED flashes in RED for 5 times when AFDD is re-closed after tripping, the tripping is caused arc fault.
2. LED flashes in YELLOW for 3 times as one cycle and such cycle repeats for 5 times when AFDD is re-closed after tripping, the tripping is caused by earth leakage fault.
3. LED flashes in YELLOW for 2 times as one cycle and such cycle repeats for 5 times when AFDD is re-closed after tripping, the tripping is caused by over-voltage.
4. LED turns GREEN when AFDD is re-closed after tripping, the tripping is caused by either overload or short circuit.
5. LED flashes in RED, AFDD is operating improperly and shall be replaced by professionals.

Ordering references

A

Wiring diagram	References	Pole No.	Rated current I_n , A	Sensitivity $I_{\Delta n}$, mA	Tripping curve	RCD type
	AFDD9NL-40 B06 / 0.03 AC	1P+N	6	30mA	B	AC
	AFDD9NL-40 B10 / 0.03 AC	1P+N	10	30mA	B	AC
	AFDD9NL-40 B16 / 0.03 AC	1P+N	16	30mA	B	AC
	AFDD9NL-40 B20 / 0.03 AC	1P+N	20	30mA	B	AC
	AFDD9NL-40 B25 / 0.03 AC	1P+N	25	30mA	B	AC
	AFDD9NL-40 B32 / 0.03 AC	1P+N	32	30mA	B	AC
	AFDD9NL-40 B40 / 0.03 AC	1P+N	40	30mA	B	AC
	AFDD9NL-40 B06 / 0.03 A	1P+N	6	30mA	B	A
	AFDD9NL-40 B10 / 0.03 A	1P+N	10	30mA	B	A
	AFDD9NL-40 B16 / 0.03 A	1P+N	16	30mA	B	A
	AFDD9NL-40 B20 / 0.03 A	1P+N	20	30mA	B	A
	AFDD9NL-40 B25 / 0.03 A	1P+N	25	30mA	B	A
	AFDD9NL-40 B32 / 0.03 A	1P+N	32	30mA	B	A
	AFDD9NL-40 B40 / 0.03 A	1P+N	40	30mA	B	A
	AFDD9NL-40 C06 / 0.03 AC	1P+N	6	30mA	C	AC
	AFDD9NL-40 C10 / 0.03 AC	1P+N	10	30mA	C	AC
	AFDD9NL-40 C16 / 0.03 AC	1P+N	16	30mA	C	AC
	AFDD9NL-40 C20 / 0.03 AC	1P+N	20	30mA	C	AC
	AFDD9NL-40 C25 / 0.03 AC	1P+N	25	30mA	C	AC
	AFDD9NL-40 C32 / 0.03 AC	1P+N	32	30mA	C	AC
	AFDD9NL-40 C40 / 0.03 AC	1P+N	40	30mA	C	AC
	AFDD9NL-40 C06 / 0.03 A	1P+N	6	30mA	C	A
	AFDD9NL-40 C10 / 0.03 A	1P+N	10	30mA	C	A
	AFDD9NL-40 C16 / 0.03 A	1P+N	16	30mA	C	A
	AFDD9NL-40 C20 / 0.03 A	1P+N	20	30mA	C	A
	AFDD9NL-40 C25 / 0.03 A	1P+N	25	30mA	C	A
	AFDD9NL-40 C32 / 0.03 A	1P+N	32	30mA	C	A
	AFDD9NL-40 C40 / 0.03 A	1P+N	40	30mA	C	A

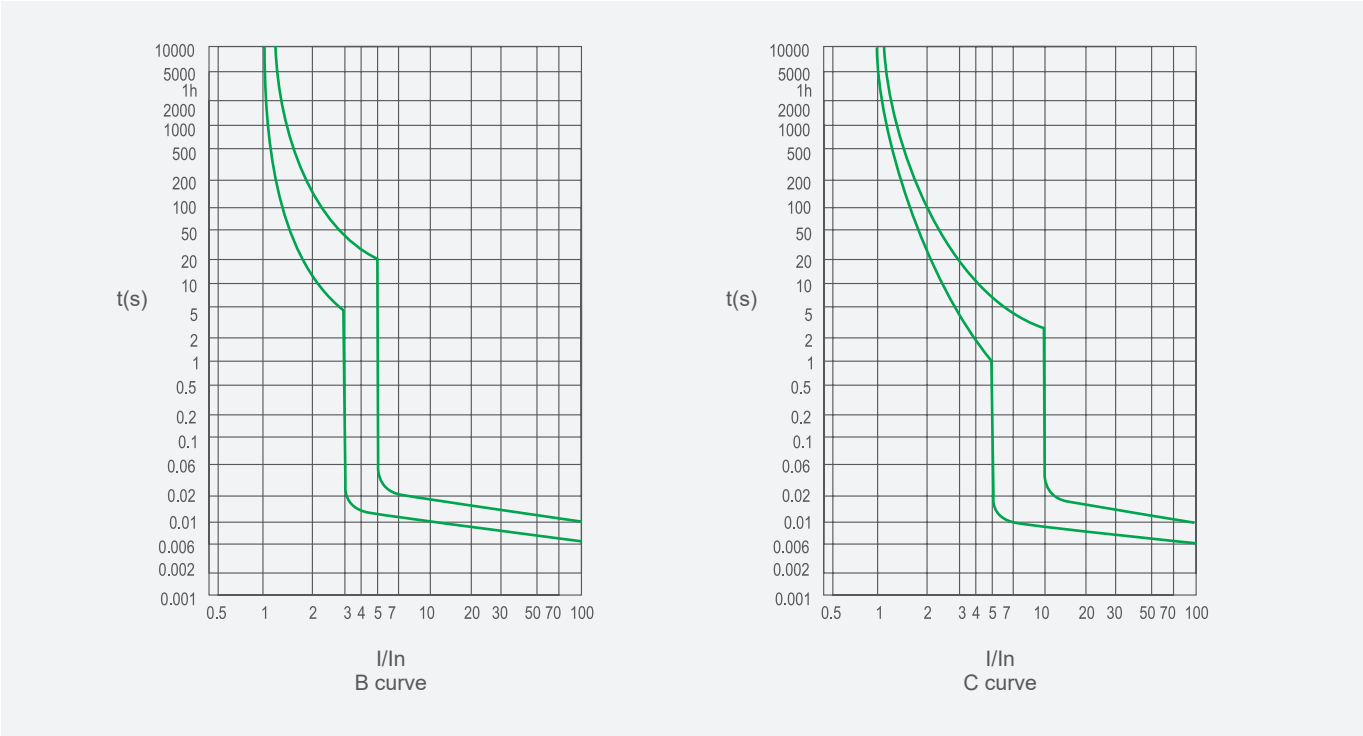
Final Distribution

AFDD9NL-40 Arc Fault Detection Device

Technical data

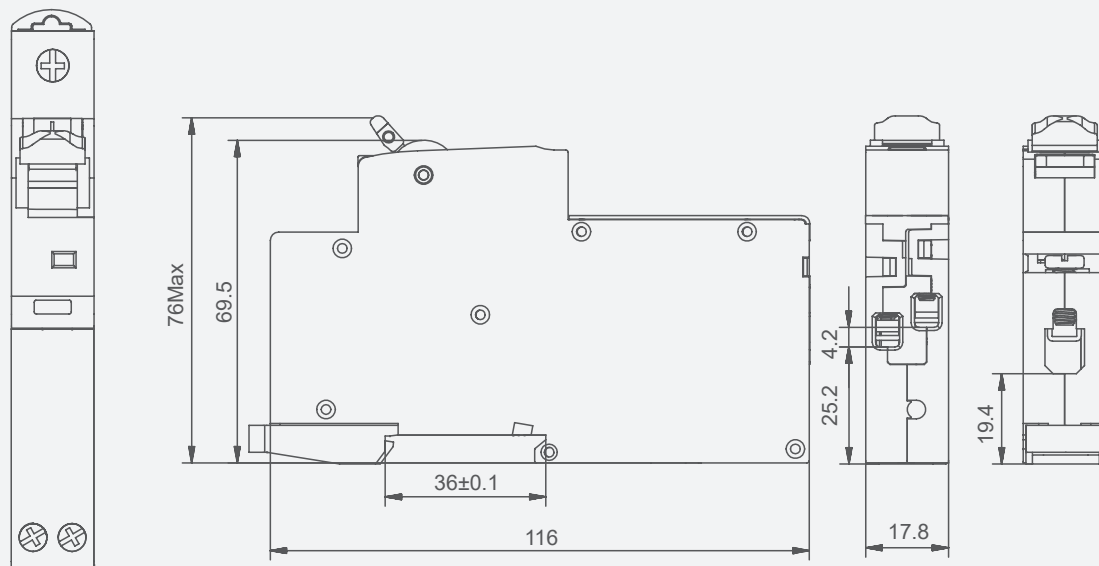
Content	Technical data
Rated voltage Ue, V	AC230/240
Approvals	CE
Rated frequency, Hz	50
Rated insulation voltage Ui ,V	500
Rated impulse withstand voltage Uimp, V	4000
Rated current In, A	6, 10, 16, 20, 25, 32, 40
Number of poles	1P+N
Instantaneous tripping type	B, C
Sensitivity IΔn, mA	30
RCD type	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

Tripping curves

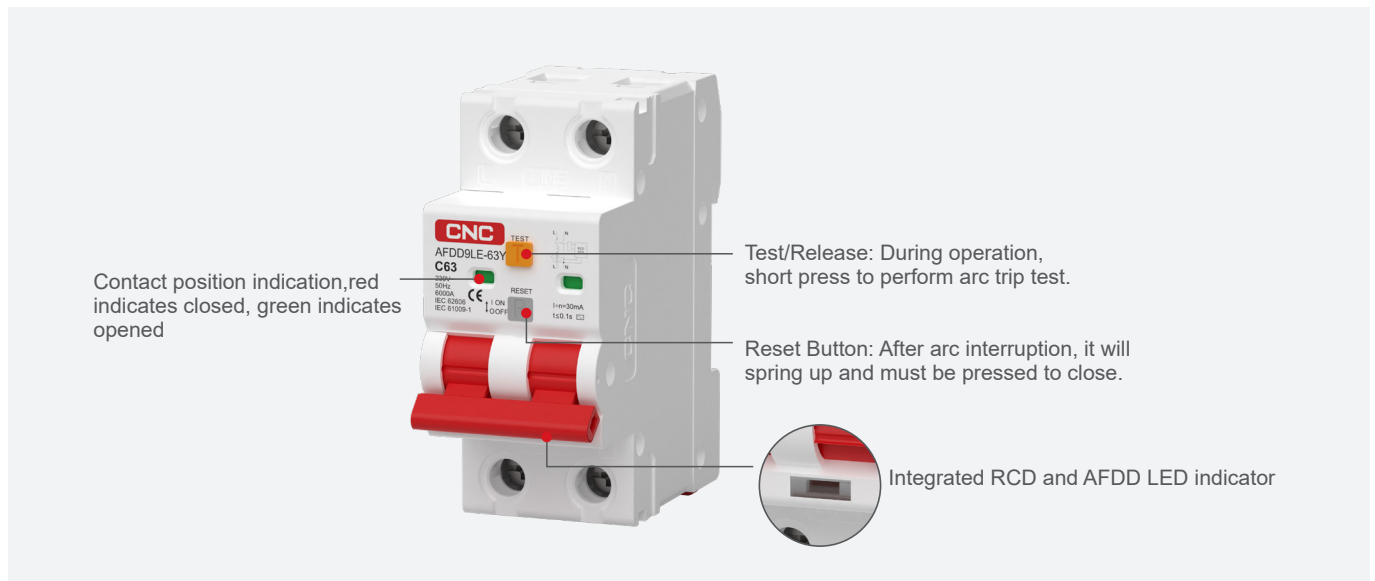


AFDD9NL-40 Arc Fault Detection Device

Overall and mounting dimensions(mm)



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 (note that it is the release trigger) to test the breaking function of the AFDD protector.
- Red light flashing state: arc fault alarm state
Pressing the "T key" will immediately cancel the alarm.

Set AFD detection mode:

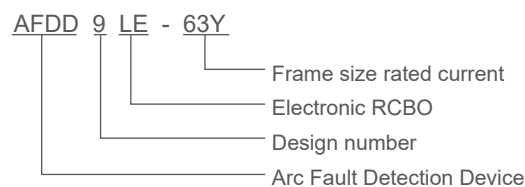
When the green light is on, keep pressing the "T key" for about 3 seconds, the green light will go out, and it means entering the setting state. Press the "T key" again, the green light will flash to indicate the current working mode, and each press will switch once!

There are four working modes:

- Flash once: Anti-interference mode
- Flashes twice: low sensitivity
- Flashes three times: standard mode
- Flashes four times: Enhanced mode (not a dedicated scenario, not recommended)

The switch will take effect immediately. Wait for 10 seconds to automatically exit the setting state, or you can long press the "T key" to exit immediately.

Type designation



Maximum Protection

AFDD9LE-63Y offers maximum protection against



Series arc faults



Parallel arc faults



Earth arc faults



Earth leakage faults



Short circuits

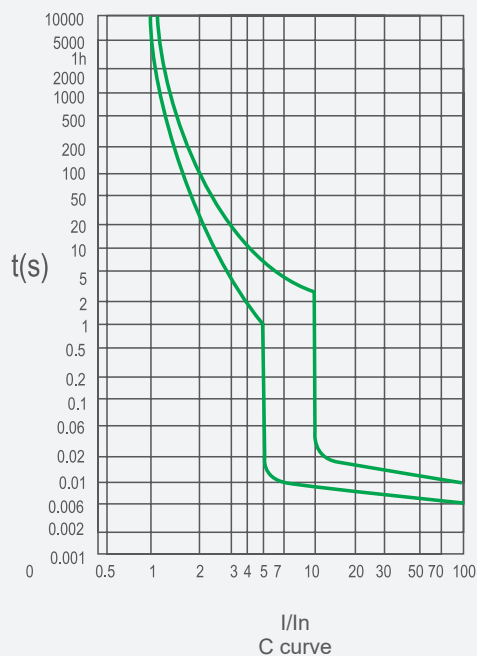
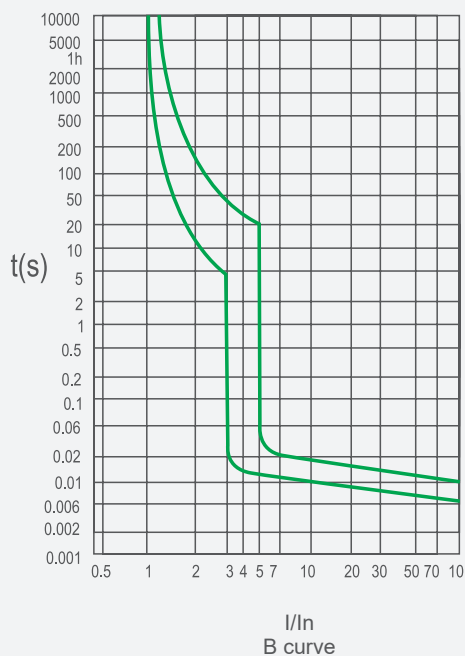


Overload

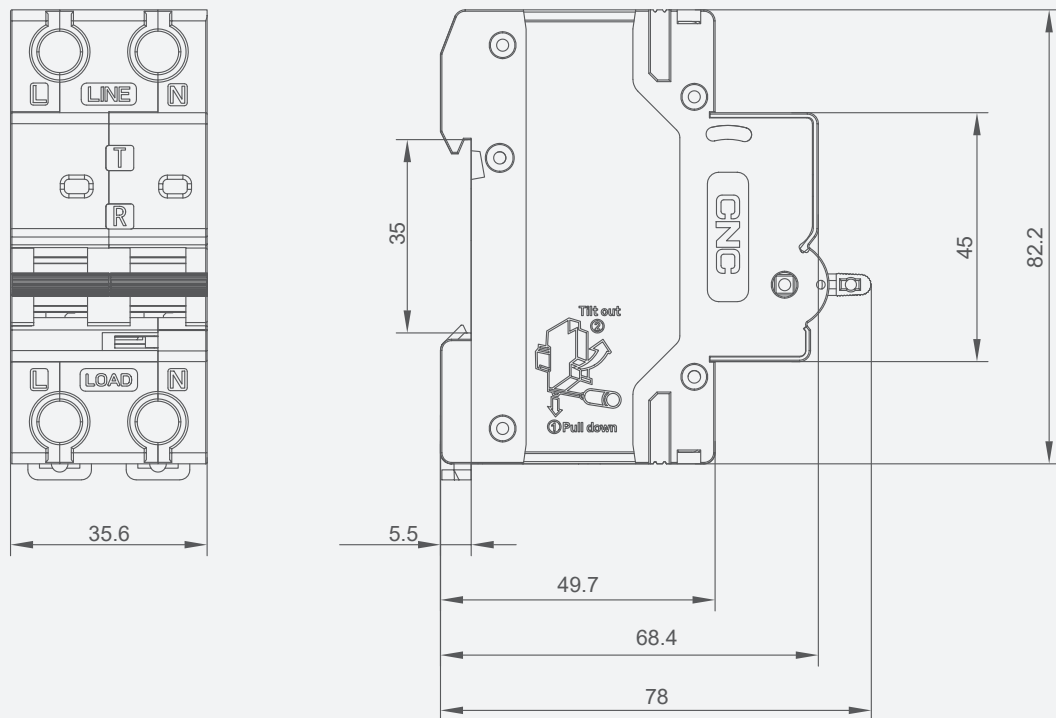
Technical data

Content	Technical data
Rated voltage U_e , V	AC230/240
Approvals	CE
Rated frequency, Hz	50
Rated insulation voltage U_i , V	500
Rated impulse withstand voltage U_{imp} , V	4000
Rated current I_n , A	6, 10, 16, 20, 25, 32, 40, 50, 63
Number of poles	1P+N (N-pole disconnectable)
Instantaneous tripping type	B, C
Sensitivity $I_{\Delta n}$, mA	10, 30, 100
type of RCBO	AC, A
Rated short circuit breaking capacity I_{cn} , 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

Tripping curves

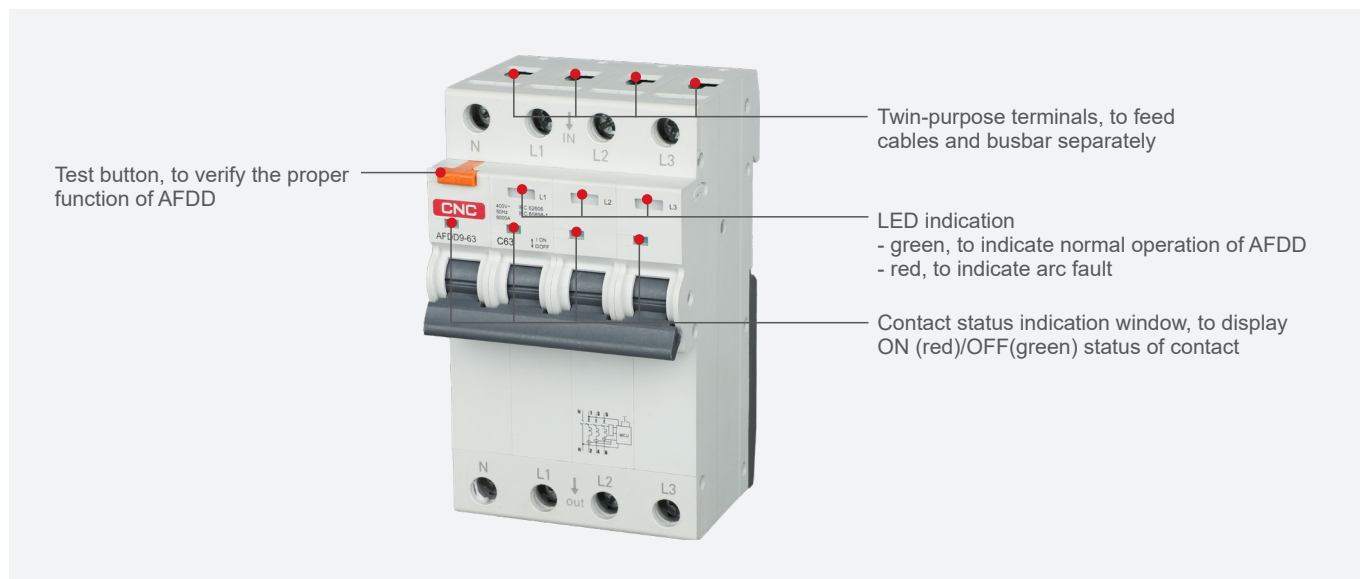


Overall and mounting dimensions(mm)



AFDD9-63 Arc Fault Detection Device

A



General

The ADDF9-63 three - phase four - wire Arc Fault Detection Device is assembled from a miniature circuit breaker(MCB) and an arc - detection module. The ADDF9-63 Arc Fault Detection Device has functions of short - circuit protection, over - current protection, and arc - fault protection. It can simultaneously detect the A - phase, B - phase, and C - phase fault arcs in three - phase circuits, and can also detect the fault arcs between phases. When the Arc Fault Detection Device detects an arc fault in the circuit, it will immediately cut off the power supply to play a protective role.

LED Indication

LED illumination for AFDD operation and arc fault identification

1. LEDs of phase L1, L2, L3 turn GREEN , AFDD is operating properly;
2. LEDs of phase L1, L2, L3 flash together in RED for 5 times and turn off when AFDD is re-closed after tripping, the tripping is caused by arc fault;
3. LED turn RED or flash in RED, AFDD is operating improperly and shall be replaced by professionals.

Type designation



Maximum Protection

AFDD9-63 offers maximum protection against



Series arc faults



Earth arc faults



Overloads



Parallel arc faults



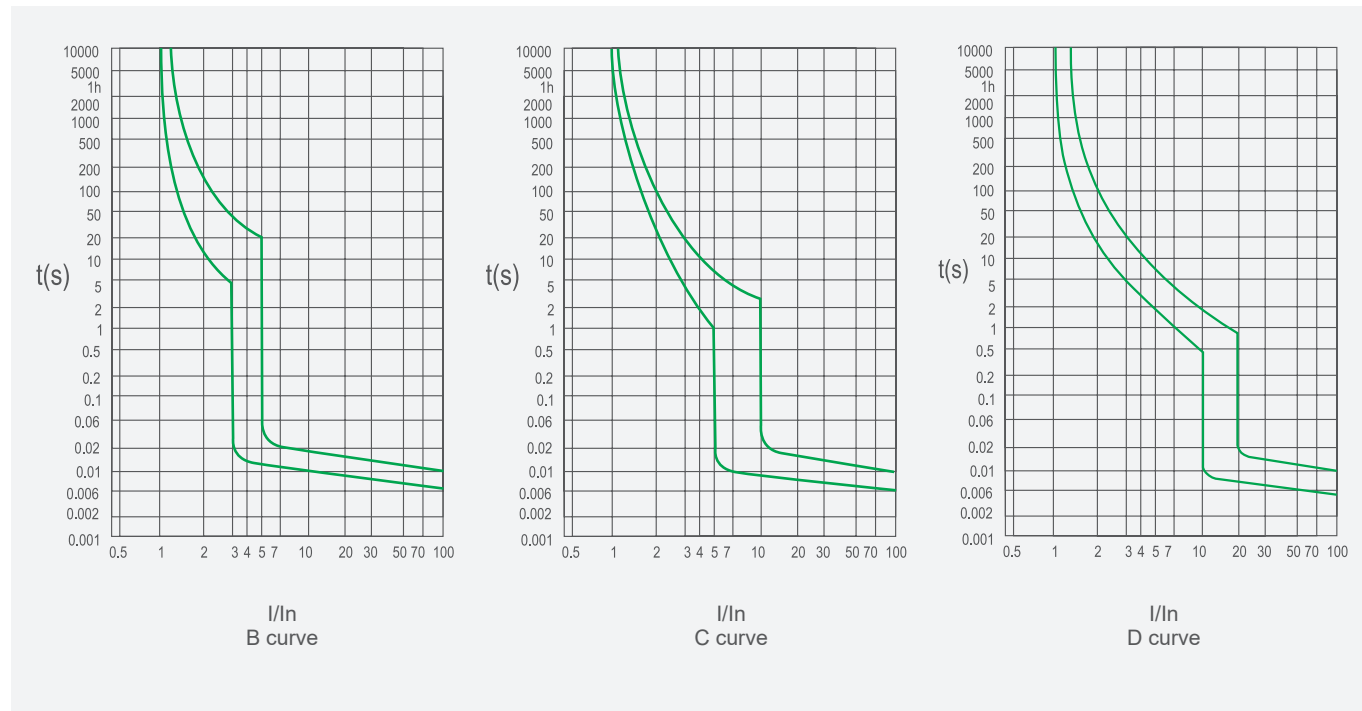
Short circuits

Technical data

Content	Technical data
Standards	IEC/EN62606; IEC/EN60898-1
Number of poles	3P+N
Rated current I_n , A	6, 10, 16, 20, 25, 32, 40, 50, 63
Rated voltage U_e , V	AC400/415
Rated insulation voltage U_i , V	500
Rated frequency, Hz	50
Rated short-circuit breaking capacity I_{cn} , A	6000
Rated impulse withstand voltage U_{imp} , V	4000
Over-current protection	With over-current protection
Instantaneous tripping type	Type B, Type C, Type D
Dielectric strength test voltage for 1min, V	2000
Mechanical and electrical endurance, cycles	4000
Protection degree	IP20
Connection capacity, mm	25
Terminal tightening torque, N.m	2.5
Ambient temperature, °C	-25~+40

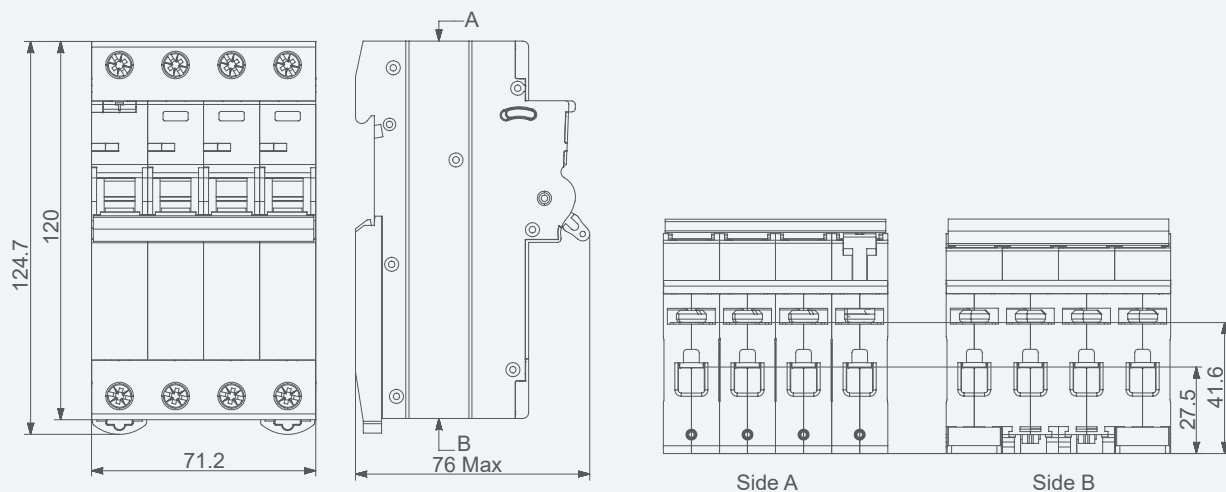
A

Tripping curves



AFDD9-63 Arc Fault Detection Device

Overall and mounting dimensions(mm)



Final Distribution

AFD9-63 Arc Fault Detection Device

A



General

AFD9-63, a three phase four wire Arc Fault Detection Device (AFDD), designed to reduce the risk of electric fire, can effectively detects electric arc faults, disconnects the affected circuit and offers complete protection in residential, non-residential building, energy sources, industry and infrastructures. Installation of AFDD is strongly recommended in location with sleeping accommodations, place with fire risks due to big quantity flammable materials, place with combustible building materials, place with irreplaceable goods and beyond.

LED Indication

LED illumination for AFDD operation and arc fault identification

1. LEDs of phase L1, L2, L3 turn GREEN, AFDD is operating properly
2. LEDs of phase L1, L2, L3 flash together in RED for 5 times and turn off when AFDD is re-closed after tripping, the tripping is caused by arc fault
3. LEDs of phase L1, L2, L3 turn RED or flash in RED, AFDD is operating improperly and shall be replaced by professionals.

Type designation



Maximum Protection

AFD9-63 offers maximum protection against:



Series arc faults



Parallel arc faults



Earth arc faults

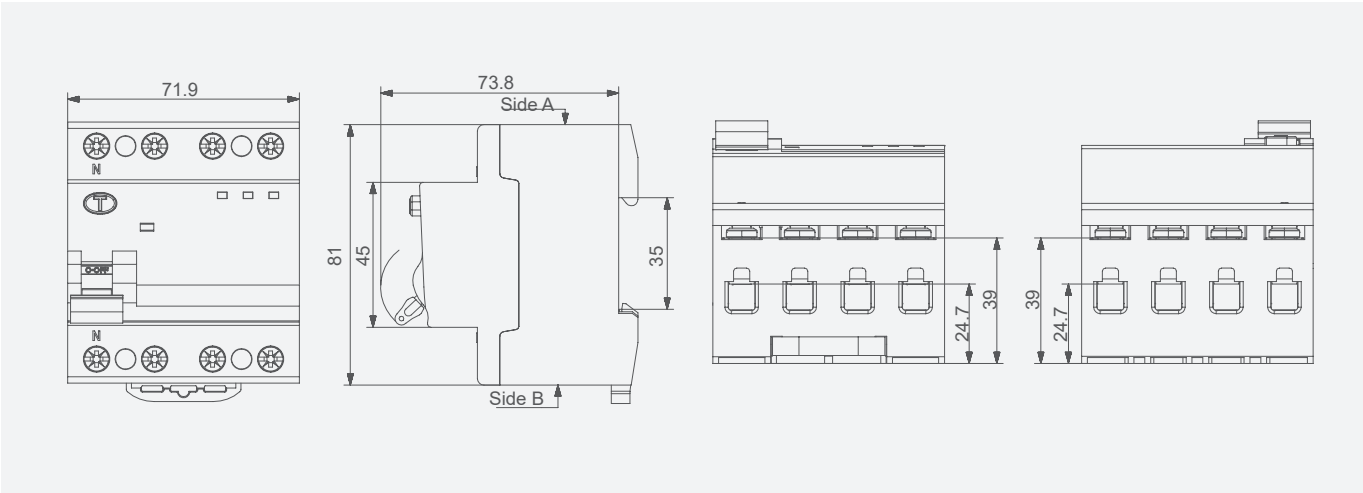
Final Distribution

AFD9-63 Arc Fault Detection Device

Technical data

Rated voltage Ue,V	Technical data
Rated frequency,HZ	AC400/415
Rated insulation voltage Ui, V	50
Rated impulse withstand voltage Uimp,V	500
Rated current In,A	4000
Number of poles	6, 10, 16, 20, 25, 32, 40, 50, 63
Rated conditional short-circuit current Inc,A	3+N
Rated making and breaking capacity IΔm ,A	10000
SCPD fuse	 10000
Mechanical and electrical endurance,cycles	4000
Protection degree	Ip20
Ambient temperature,°C	-25~+40
Standards	IEC 62606

Overall and mounting dimensions(mm)





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

- Green light status: running status
Press the "T key" and release it quickly (note that it is the release trigger) to test the breaking function of the AFDD protector.
- Red light flashing state: arc fault alarm state
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 state. Press the "T key" again, the green light will flash to indicate the current working mode, and each press will switch once!

There are four working modes:

- Flash once: Anti-interference mode
- Flashes twice: low sensitivity
- Flashes three times: standard mode
- Flashes four times: Enhanced mode (not a dedicated scenario, not recommended)

The switch will take effect immediately. Wait for 10 seconds to automatically exit the setting state, or you can long press the "T key" to exit immediately.



AFDD C20



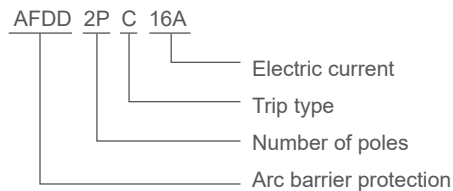
General

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



Technical data

Table 1

Item	Parameter	Data
Electrical features	Rated voltage U_e (V)	230V~
	Rated current I_n (A)	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
	Rated sensitivity $I_{\Delta n}$ (A)	0.03A
	Poles	2P+N, 2P, 1P+N
	Wave form of the earth leakage sensed	AC
	Thermo-magnetic release characteristic	C(5-10 I_n)
	Rated short circuit capacity I_{cn} (A)	4500
	Rated residual making and breaking capacity $I_{\Delta m}$ (A)	500A($I_n \leq 50A$), 630A($I_n \leq 63A$)
	Rated insulation voltage U_i (V)	500V
	Rated impulse withstand voltage U_{imp} (V)	4000V
	Pollution degree	2
	Electrical life	10000
Mechanical features	Mechanical life	20000
	Protection degree	IP20
	Ambient temperature (°C)	-25~+40
	Storage temperature (°C)	-25~+70
	Tightening torque (N.m)	2
Installation	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	I_n (A)	$I_{\Delta n}$	Time limit for tripping or not tripping			
			$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	
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.

Final Distribution

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

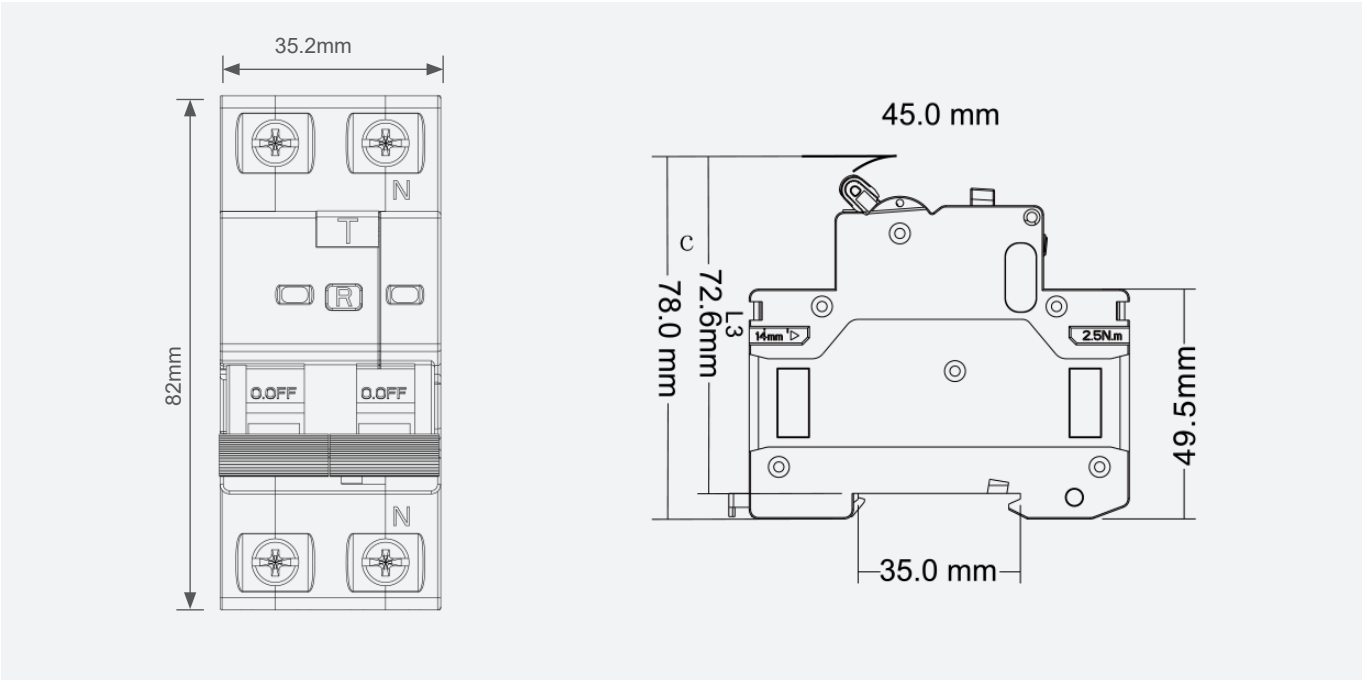
Arc current of test(the effective value)	75A	100A	150A	200A	300A	500A
N	12	10	8	8	8	8
N is the number of half waves at the rated frequency						

Over current protection characteristics (reference temperature 30°C)

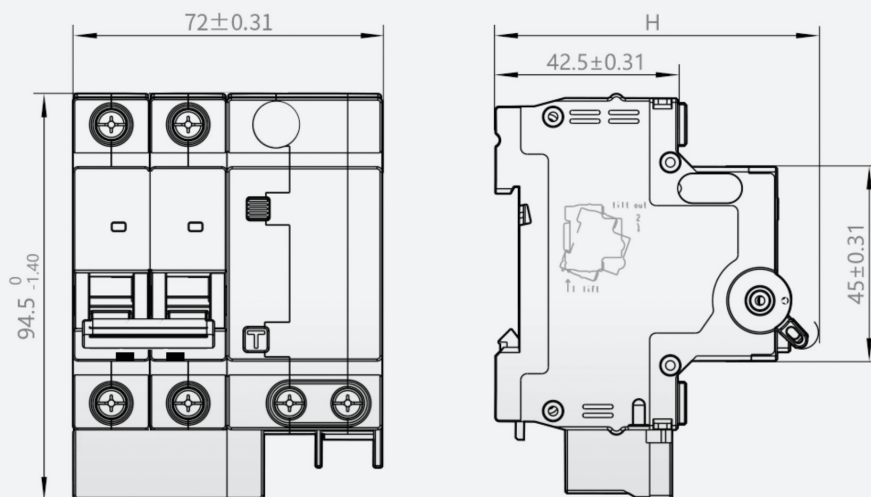
Table 5

Type	In(A)	Tripping time	Expected result	Type	In(A)	Tripping time	Expected result
B,C,D	1.13In	t≤1h(In≤63A)	Not tripping	B,C,D	B	t≤0.1s	Not tripping
	1.13In	t≤2h(In>63A)			C	t≤0.1s	
B,C,D	1.45In	t<1h(In≤63A)	Tripping	B,C,D	D	t≤0.1s	Tripping
	1.45In	t<2h(In>63A)			B	t<0.1s	
B,C,D	2.55In	1s<t<60s(In≤32A)	Tripping	B,C,D	C	t<0.1s	
	2.55In	1s<t<120s(In>32A)			D	t<0.1s	

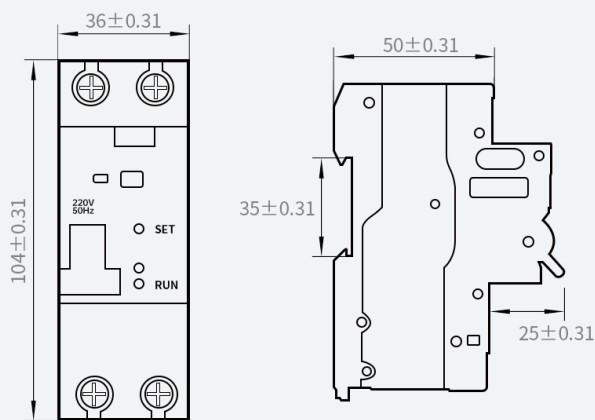
Overall and mounting dimensions(mm)



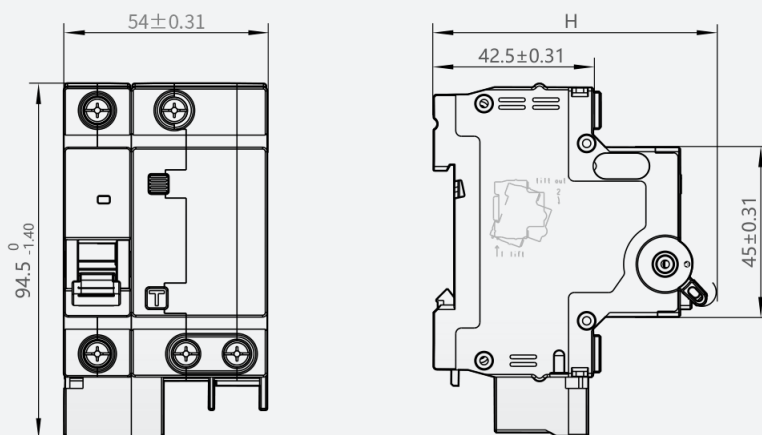
2P+N



2P+N



2P Single handle



1P+N

Installation and Usage (Maintenance)

- Before installation, check if the product markings match the intended conditions of use.
- Before installation, operate the AFDD arc fault protection device to ensure that its mechanism moves smoothly, reliably, and without any jamming.
- Connect the input terminal to the power supply and the output terminal to the load.
- After power is applied, press the test button on the AFDD arc fault protection device several times to confirm its reliable operation.
- When the handle moves upwards, the MCB (Miniature Circuit Breaker) side handle displays "ON," 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.
- 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.
- The working reference temperature for the AFDD arc fault protection device is $+30+5^{\circ}\text{C}$. 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

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

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, safeguarding equipment, preventing circuit aging, and ensuring power safety.
15. Sensitive Leakage Protection: Adjustable leakage protection values according to environmental requirements.

Specifications and Parameters

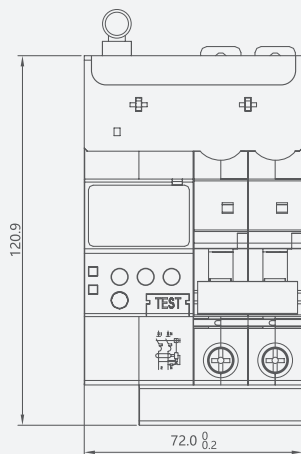
1. Standard modular design, available in 2P and 4P configurations.
2. Working voltage: Single-phase AC230V / Three-phase 415V, 50/60Hz.
3. Rated current: 32A, 63A, 100A.
4. Short-circuit breaking capacity: $I_{cn} = I_{cs} = 6\text{KA}$ (10KA for 63A and below).
5. Leakage trip current: 0-500mA adjustable, trip time $<0.1\text{s}$.
6. Mechanical life: $>15,000$ operations; Electrical life: $>6,000$ operations.
7. Working temperature: $-40\sim70^{\circ}\text{C}$.
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.

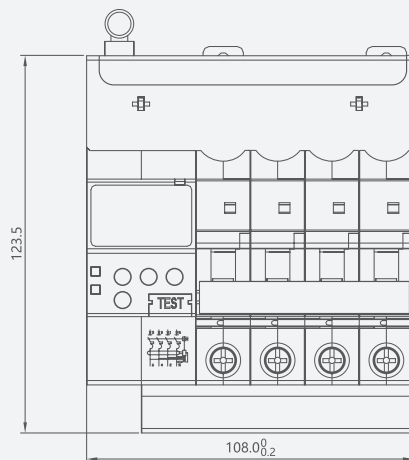
YCB9ZF-100AP/APE Smart Circuit Breaker

Outline and installation dimensions(mm)

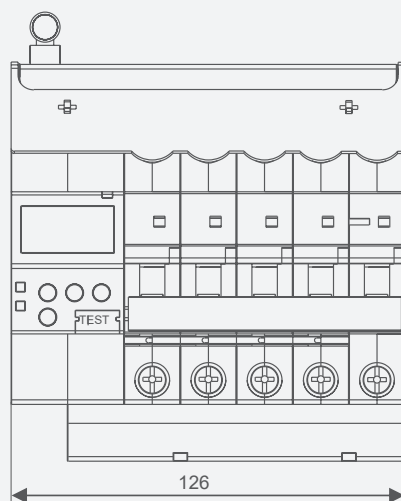
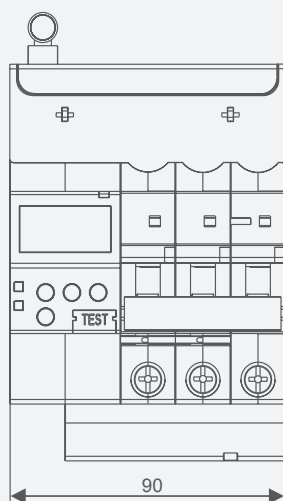
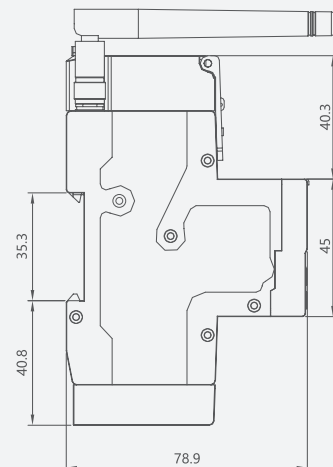
YCBZF-100AP



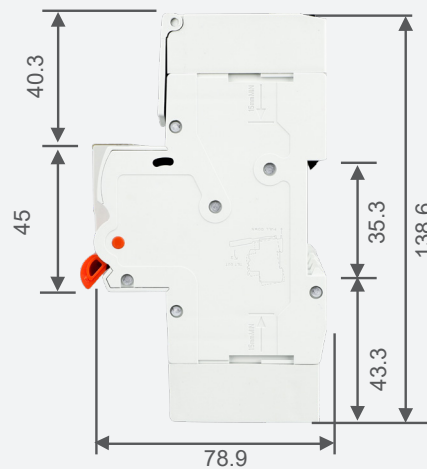
YCBZF-100AP-2P



YCBZF-100AP-4P



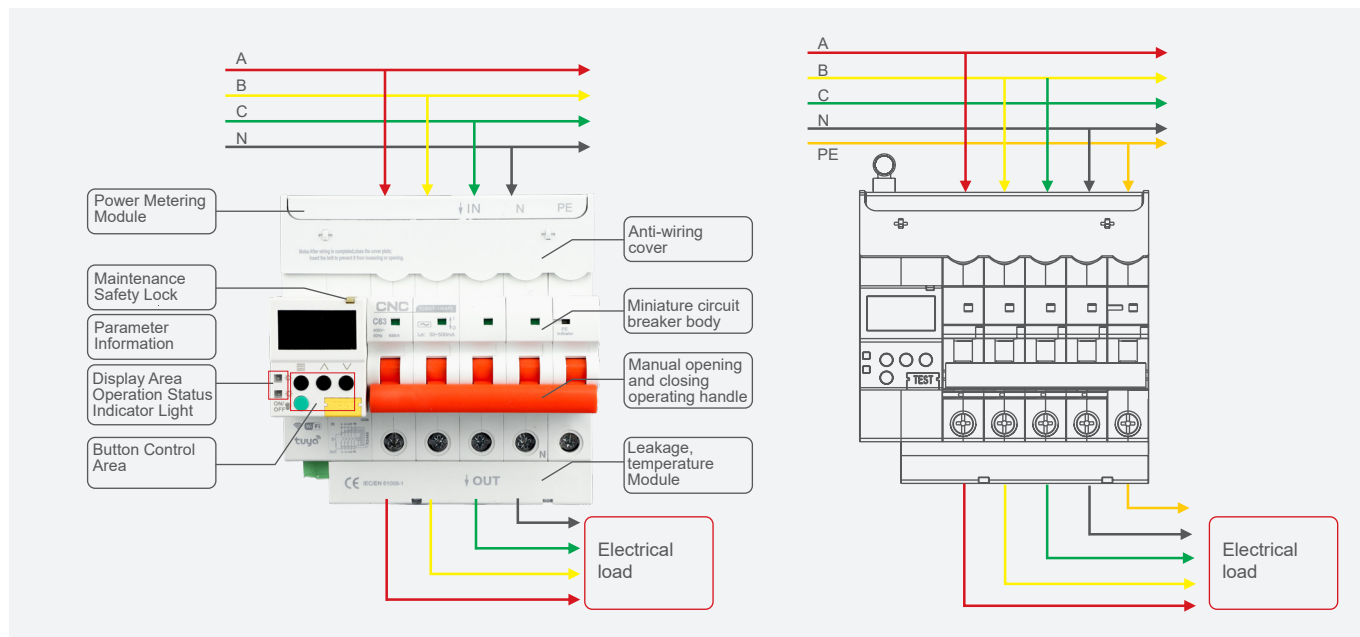
YCB9ZF-100APE



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	25mm ²	25mm ²	25mm ²	25mm ²
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.

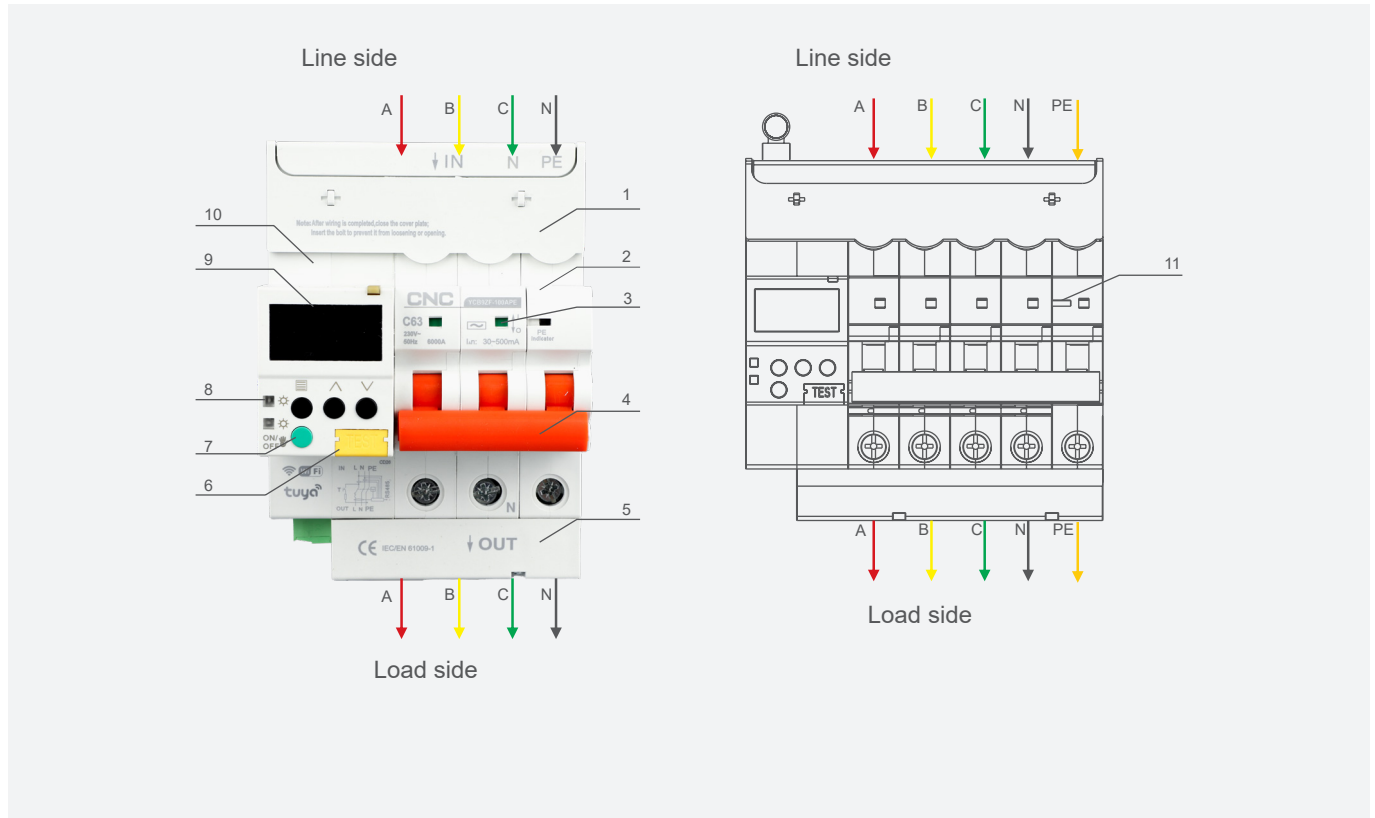
Adjustable Parameters and Functions

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

Final Distribution

YCB9ZF-100AP/APE Smart Circuit Breaker

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").



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.

Technical data

A

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

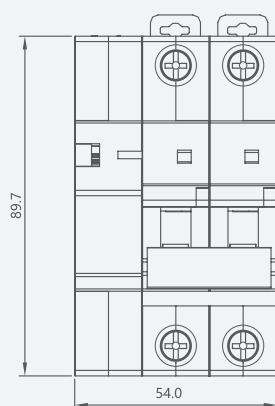
Technical data

Item	Data
YCB9ZF-100W	
Thermo-magnetic release characteristic	C type (Other types can be customized)
Rated current I _n	16A,20A,25A,32A,40A,50A,63A,80A,100A
Rated short-circuit capacity I _{cn}	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

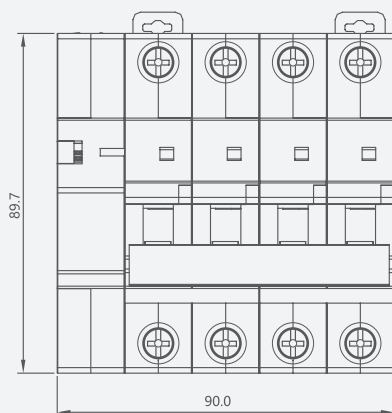


YCBZF-100W-4P

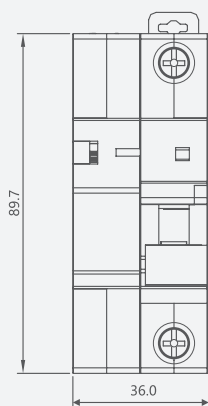
A



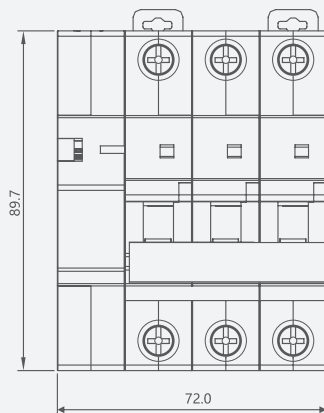
YCBZF-100W-2P



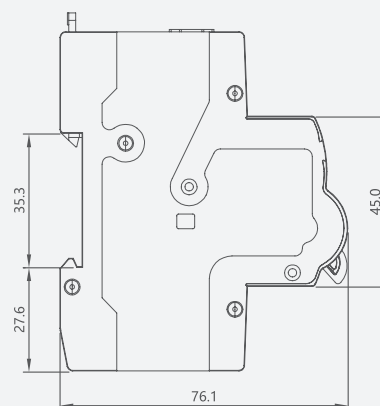
YCBZF-100W-4P



YCBZF-100W-1P



YCBZF-100W-3P



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.

A

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

Final Distribution

YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker

Function parameters

A

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
										Phphase 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℃	80℃
										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

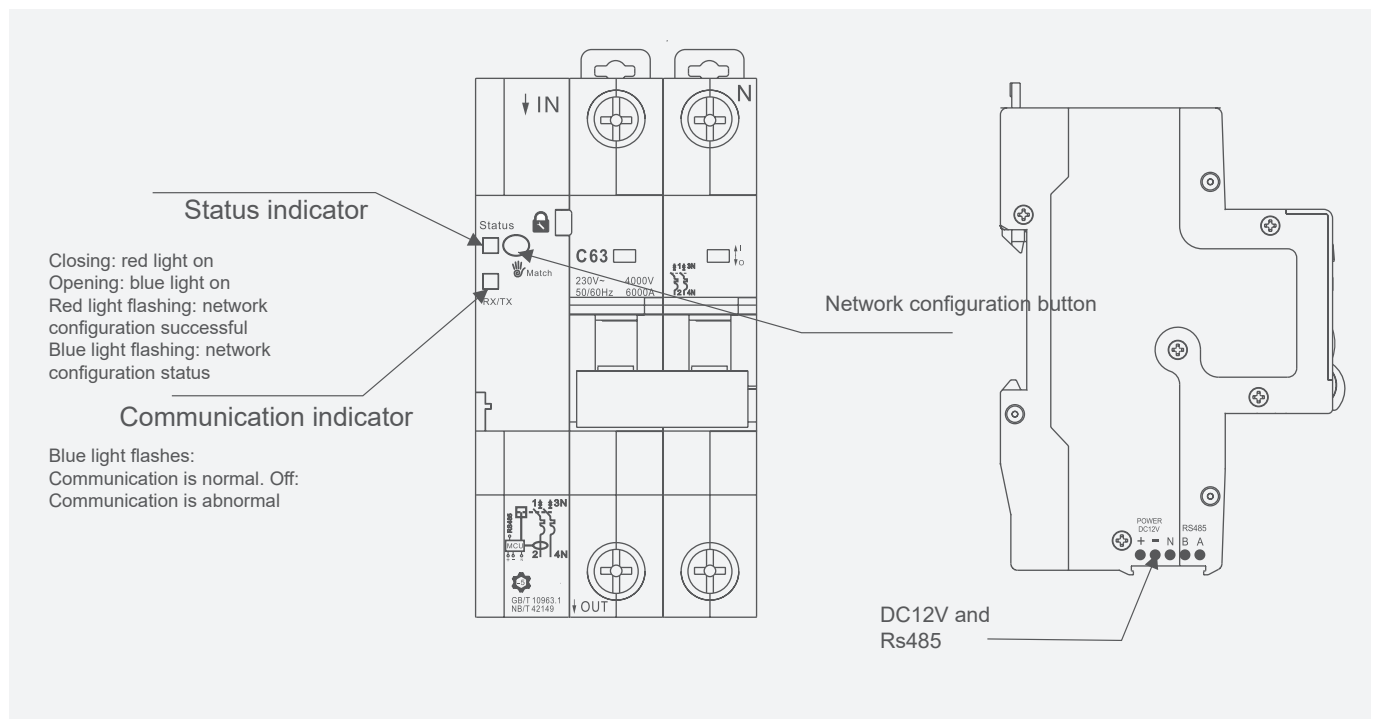
YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker

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

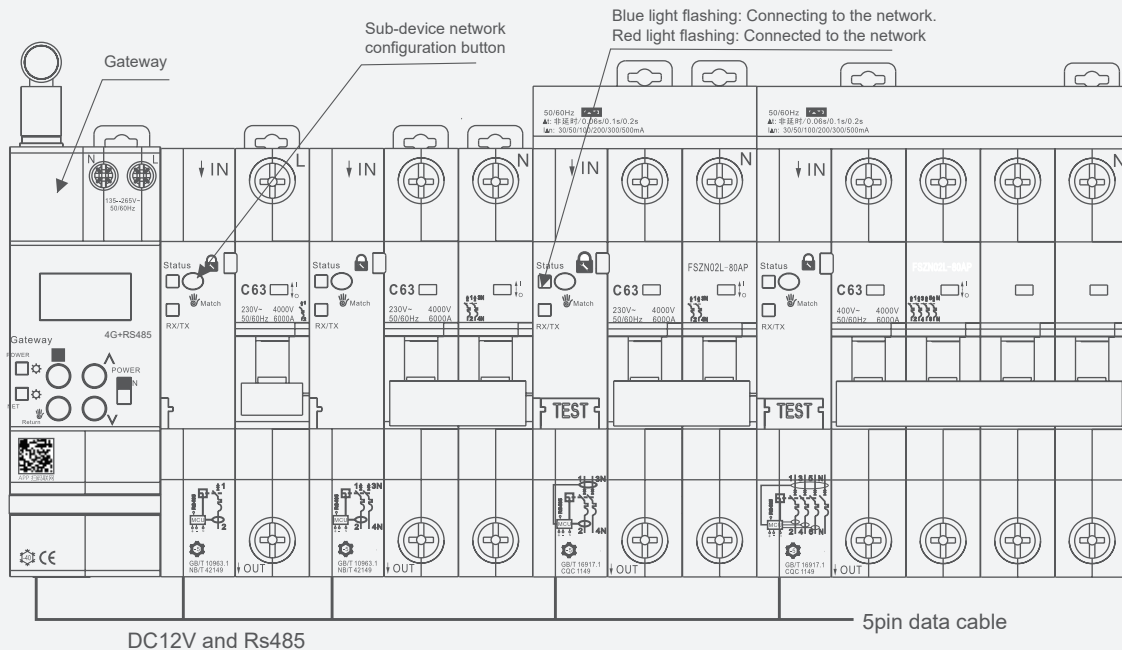
Operation button description

RS485 interface and network configuration description



Final Distribution

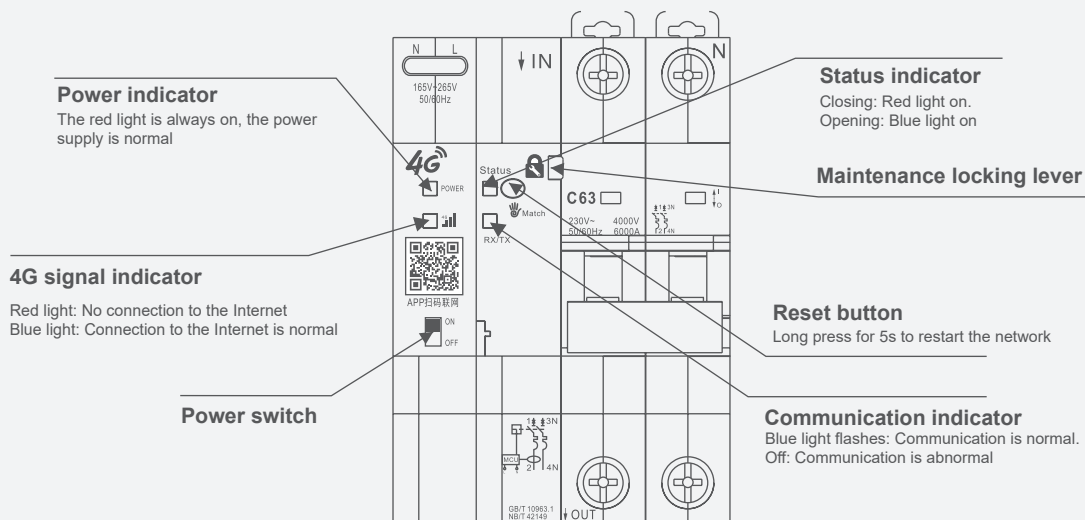
YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker



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 configuration state;
2. Press the sub-device network configuration button to configure the network. The current sub-device is paired successfully, and the sub-device "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 configuration is completed.
5. Scan the QR code on the APP to add a device

4G interface and network configuration instructions

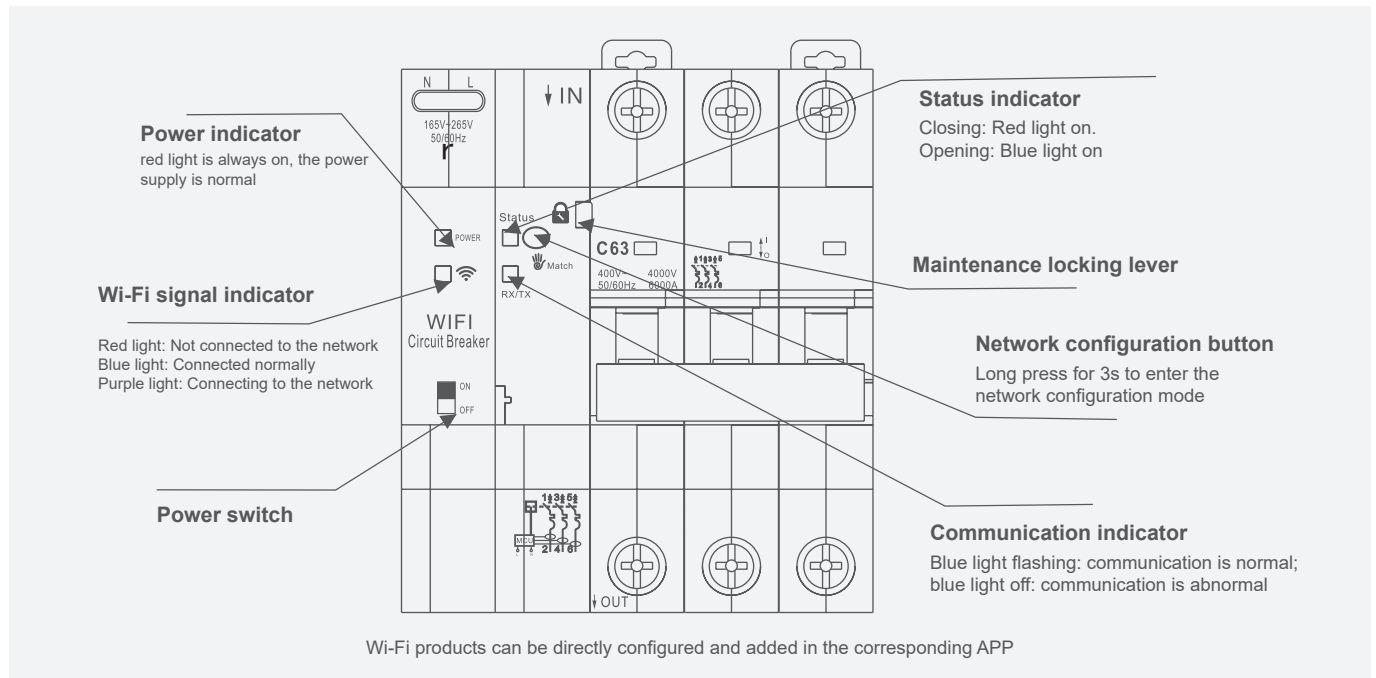


4G products can be added by scanning the QR code directly on the APP

Final Distribution

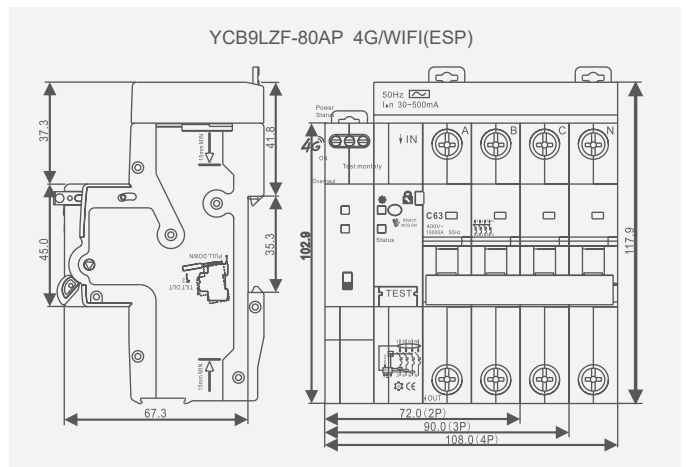
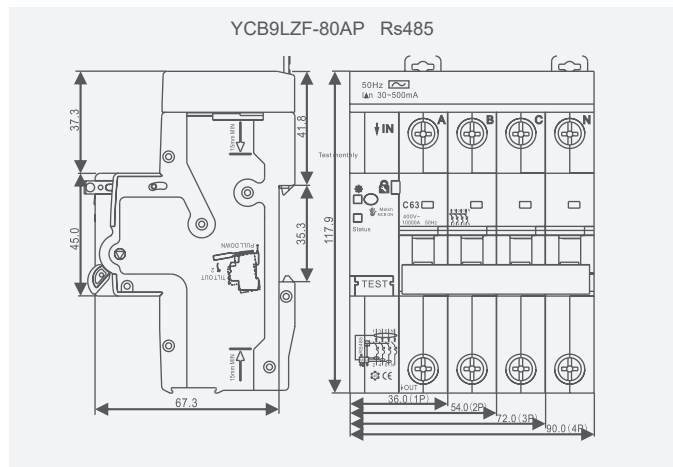
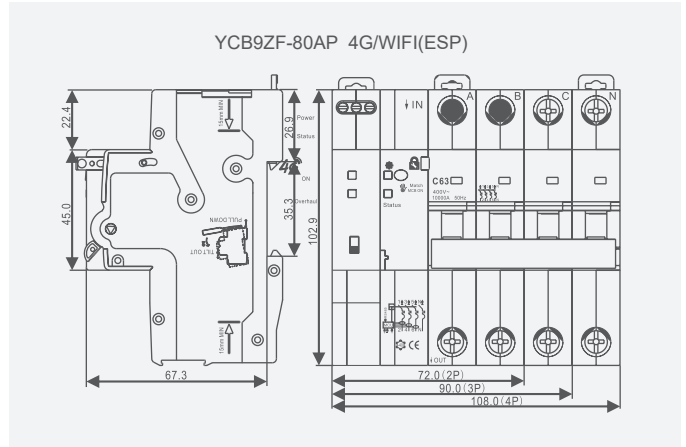
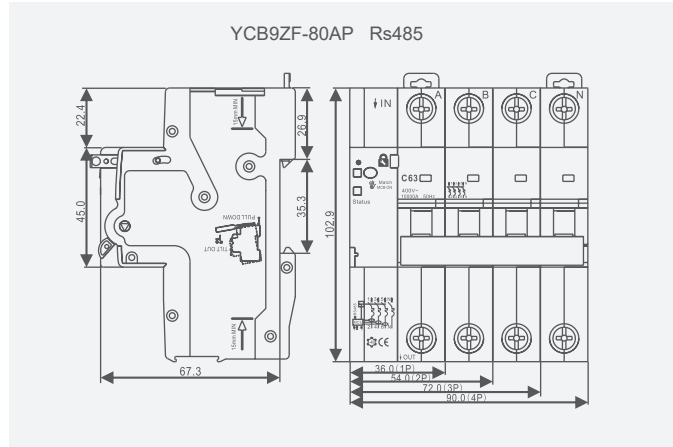
YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker

Wi-Fi product interface and network configuration instructions



Installation and wiring

Installation Dimensions



Final Distribution

YCB9ZF/YCB9LZF-80AP Smart Circuit Breaker

A

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 (mm ²)	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

Function parameters

A

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

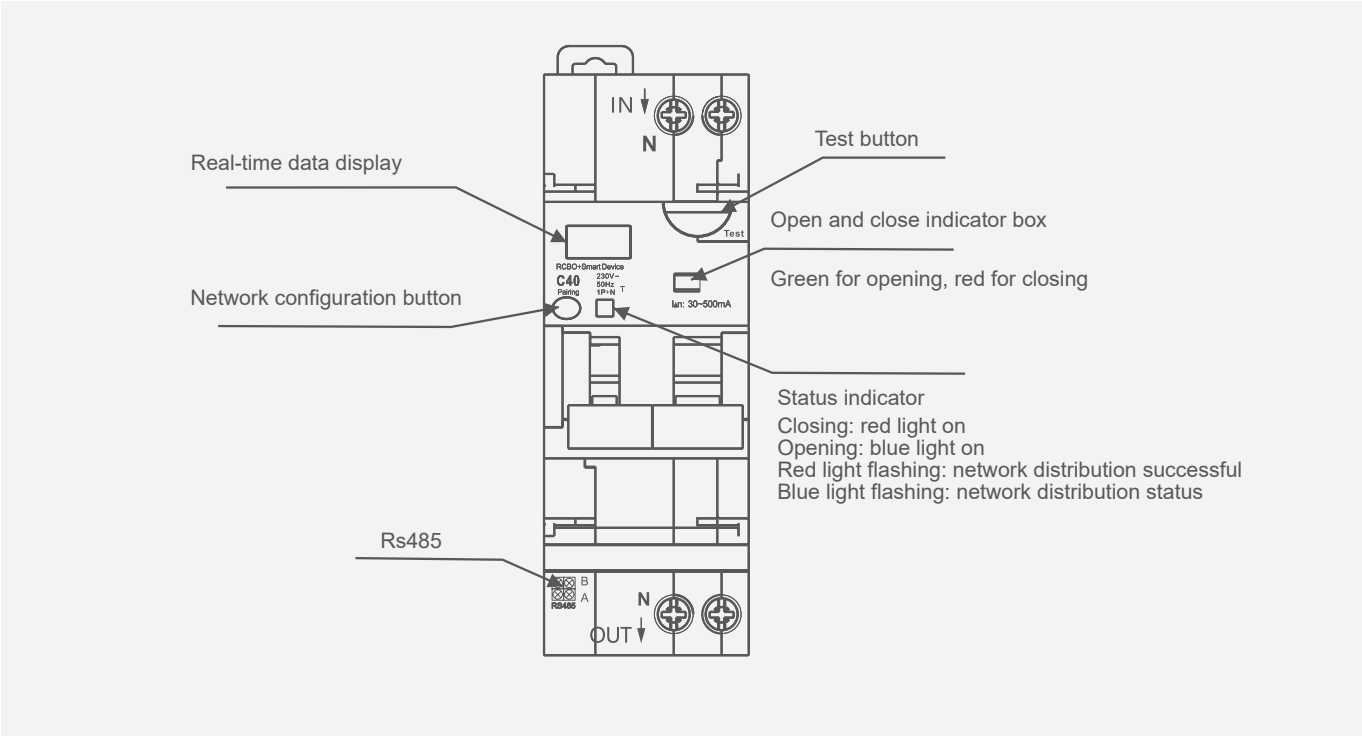
YCB9NZF-40 Smart Circuit Breaker

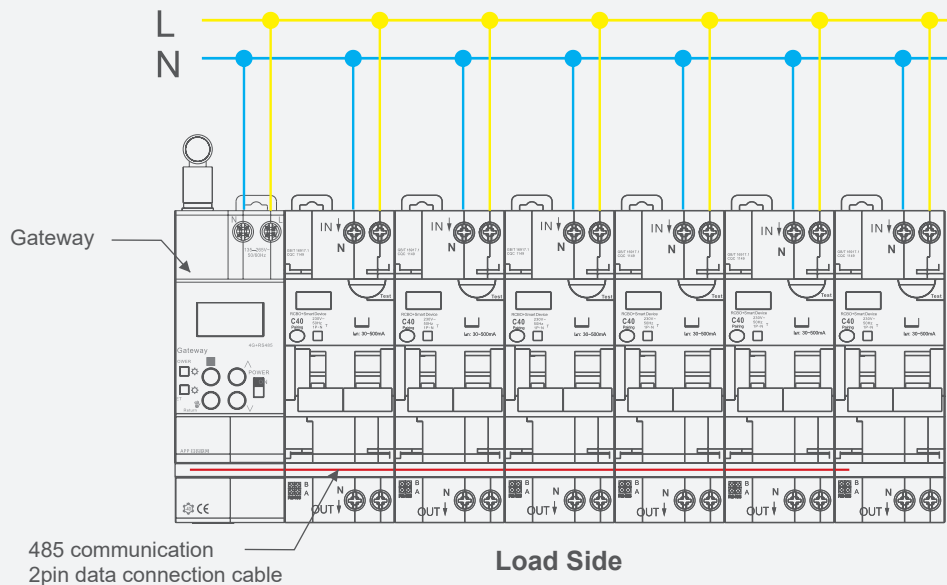
Technical Data

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

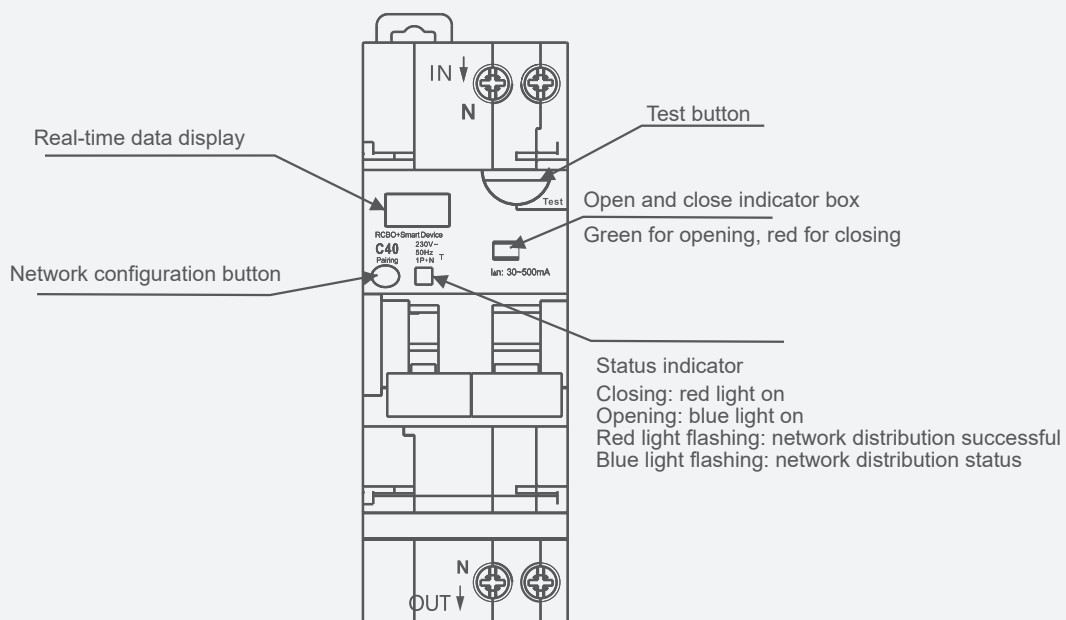




Note: The gateway can pair up to 16 sub-devices

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

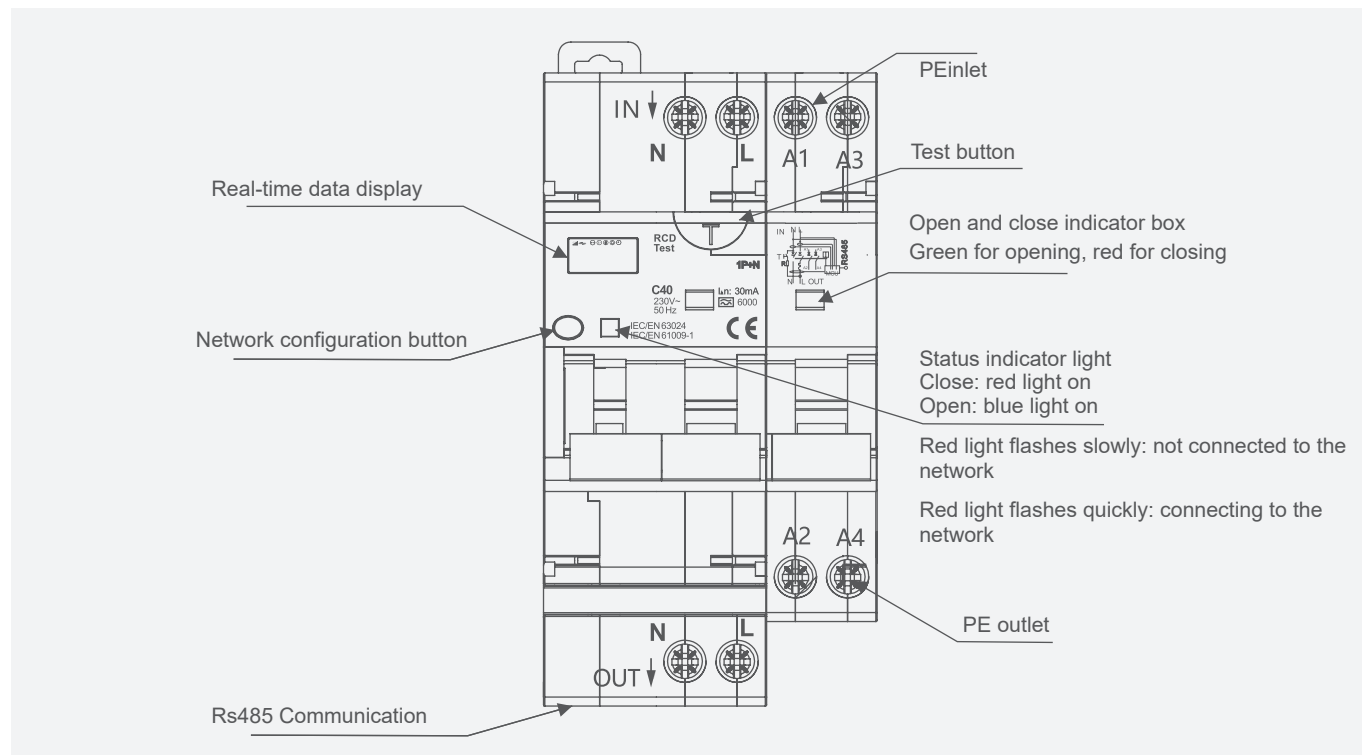


Wi-Fi products can be directly configured and added in the corresponding AP

Final Distribution

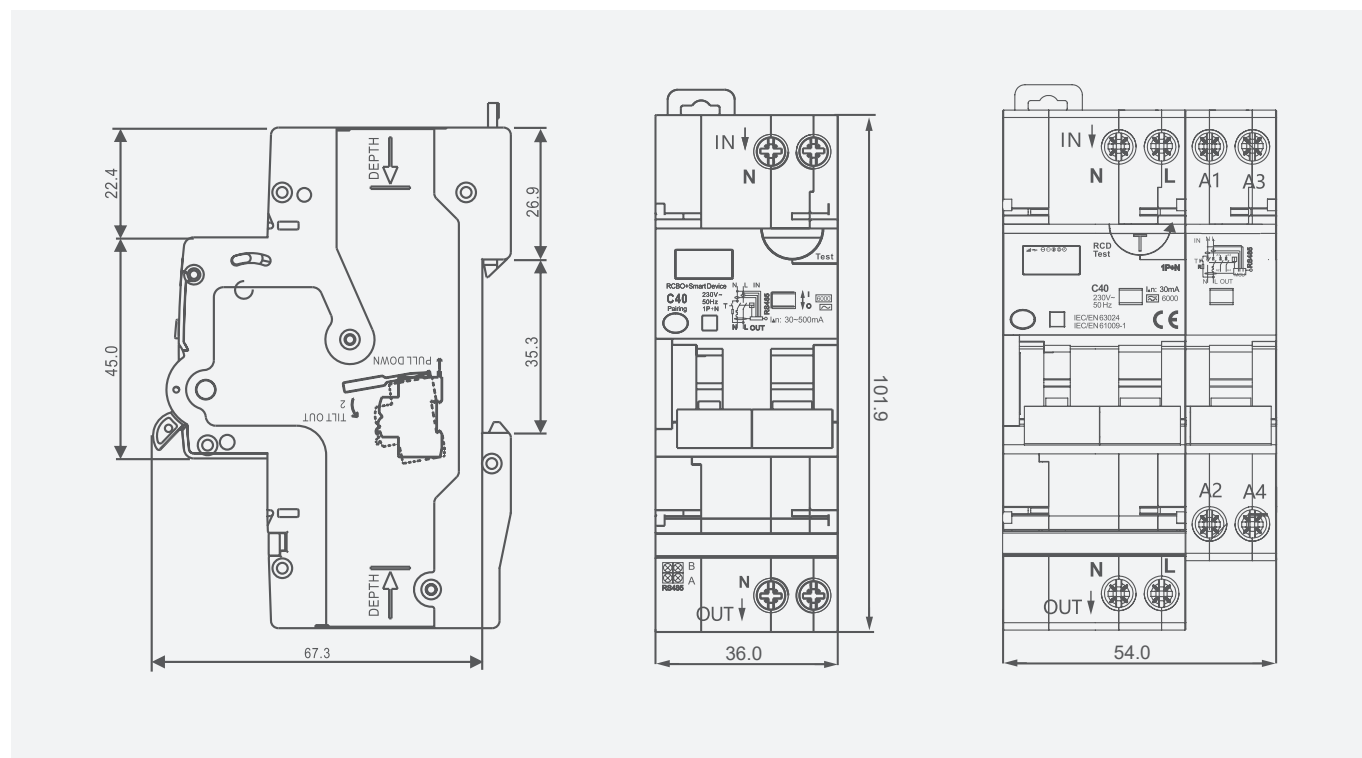
YCB9NZF-40 Smart Circuit Breaker

Interface and network configuration instructions for PE products



Installation and wiring

Installation dimensions



Final Distribution

YCB9NZF-40 Smart Circuit Breaker

A

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(mm ²)	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.

Final Distribution

YCSi Smart Circuit Breaker



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.

A

Type designation

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

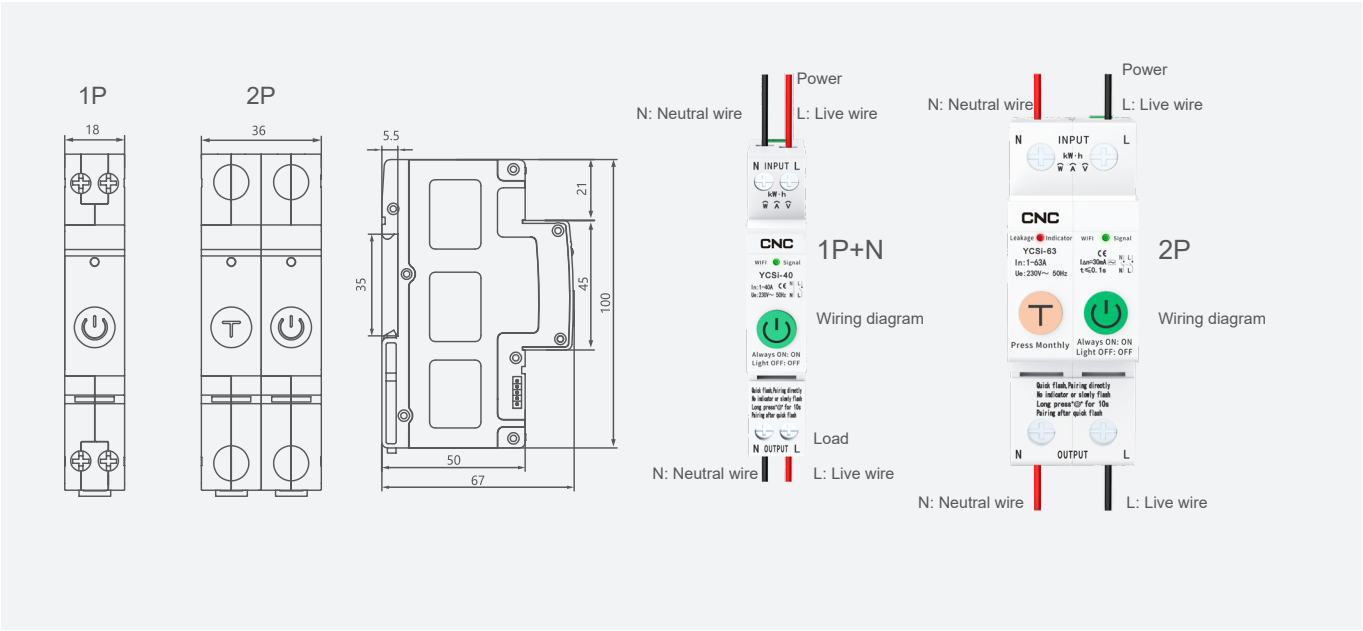
Technical data

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

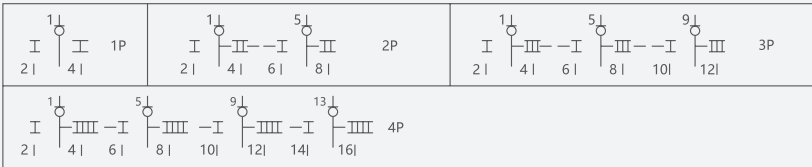
The Changeover Switch can switch on, load and break the circuit under normal conditions, using as Switch Disconnectors.

Standard: IEC 60947-3

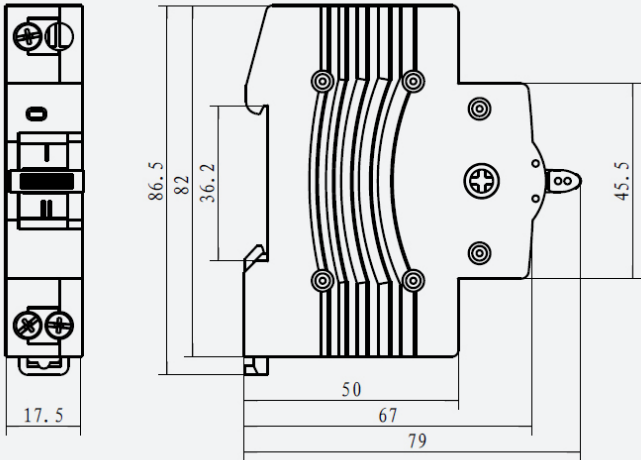
Technical data

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

Wiring diagram



Overall and mounting dimensions(mm)



Final Distribution

YCBZ-63 Changeover switch

A



General

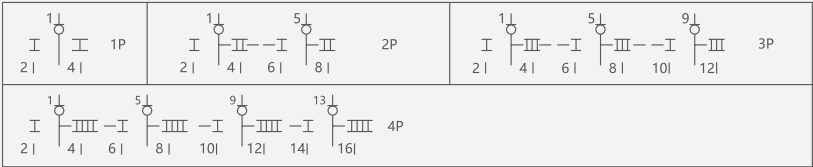
The Changeover Switch can switch on, load and break the circuit under normal conditions,using as Switch Disconnectors.

Standard: IEC 60947-3

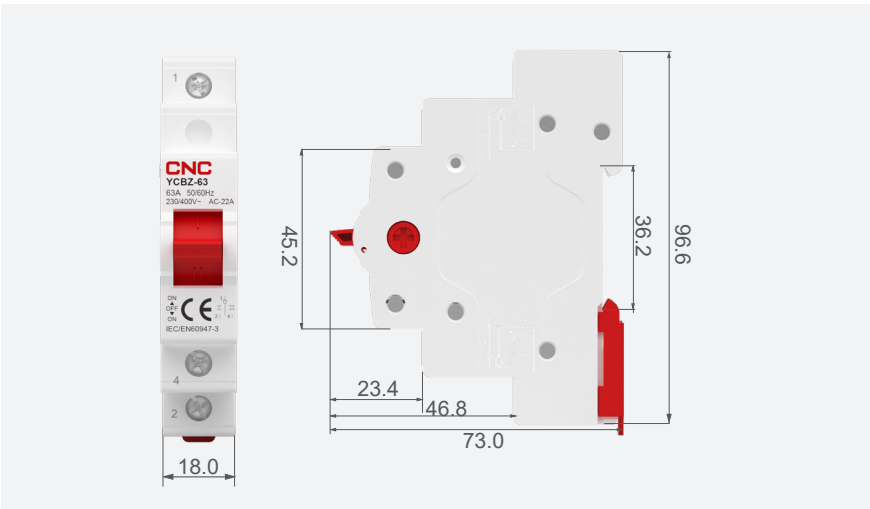
Technical data

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

Wiring diagram



Overall and mounting dimensions(mm)



Final Distribution

YCBZ-125 Changeover switch



General

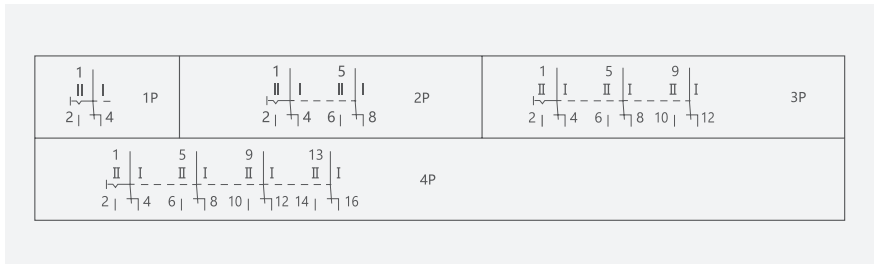
The Changeover Switch can switch on, Load and break the circuit under normal conditions,usingas Switch Disconnectors.

Standard: IEC 60947-3

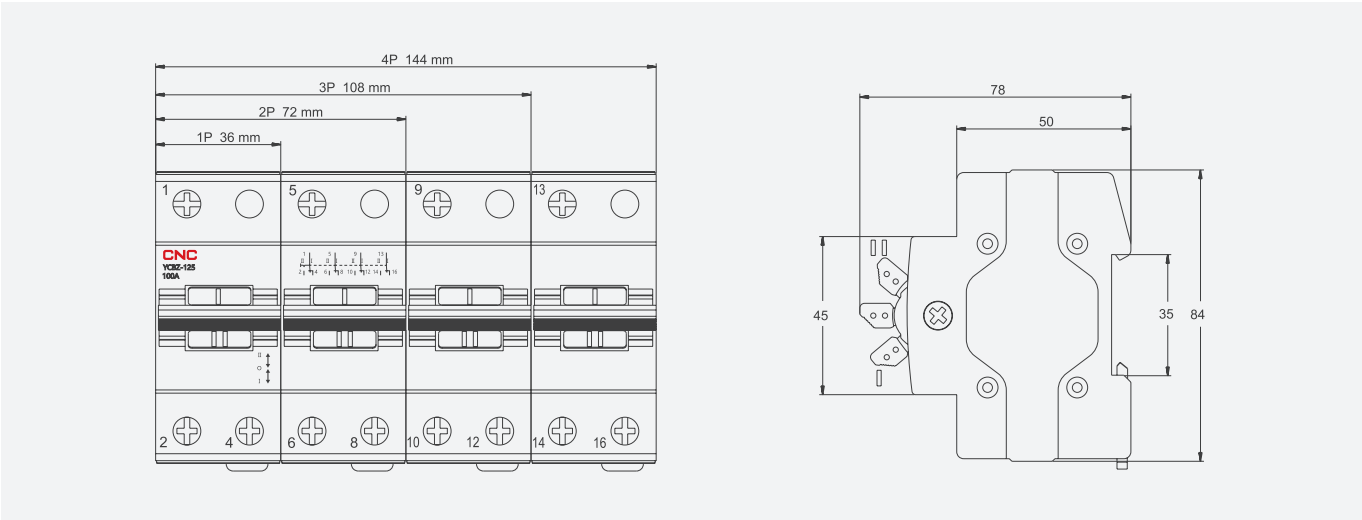
Technical data

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

Wiring diagram



Overall and mounting dimensions(mm)



Final Distribution

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.

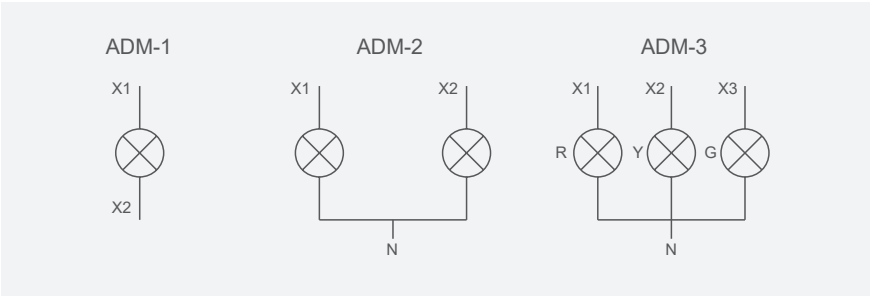
Construction and Feature: Low service duration,minimum power consumption,Compact design in modular size,Easy installation.

Standard: IEC 60947-5-1

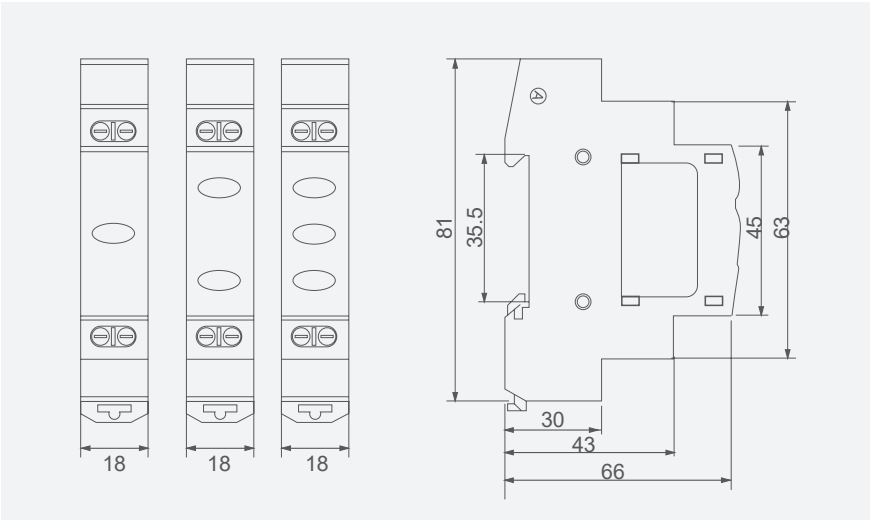
Technical data

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)



Final Distribution

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.

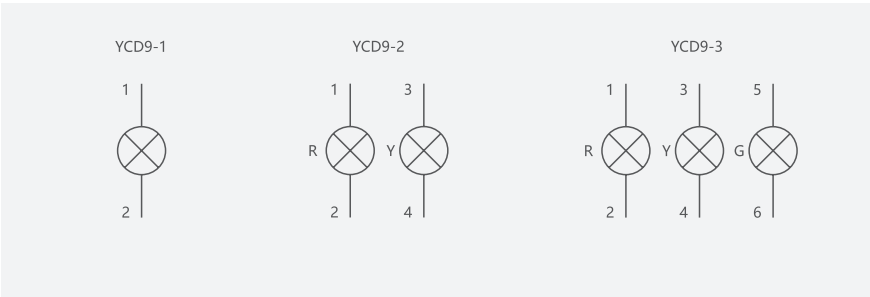
Construction and Feature: Low service duration,minimum power consumption, compact design in modular size,easy installation.

Standard: IEC 60947-5-1

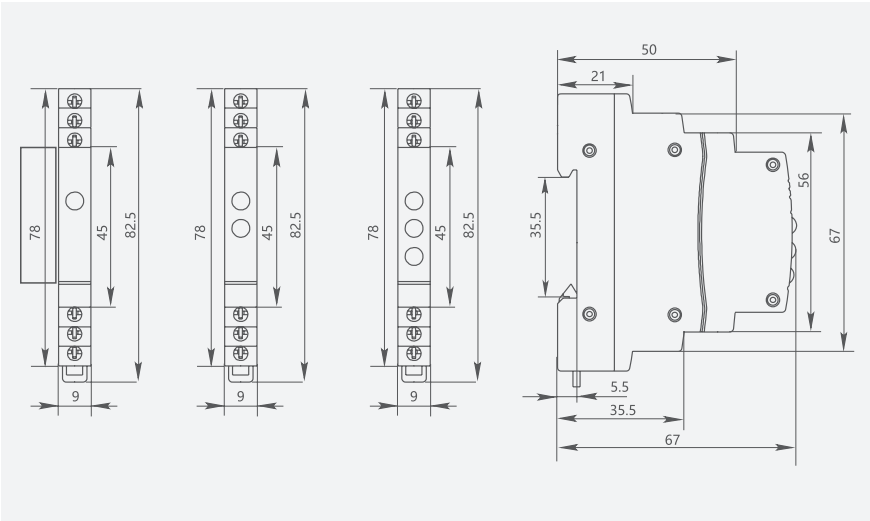
Technical data

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)





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

YCMMA1, YCMMA3	
Supply Voltage /Frequency 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 /Frequency 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

YCMMAVHz3	
Supply Voltage /Frequency 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

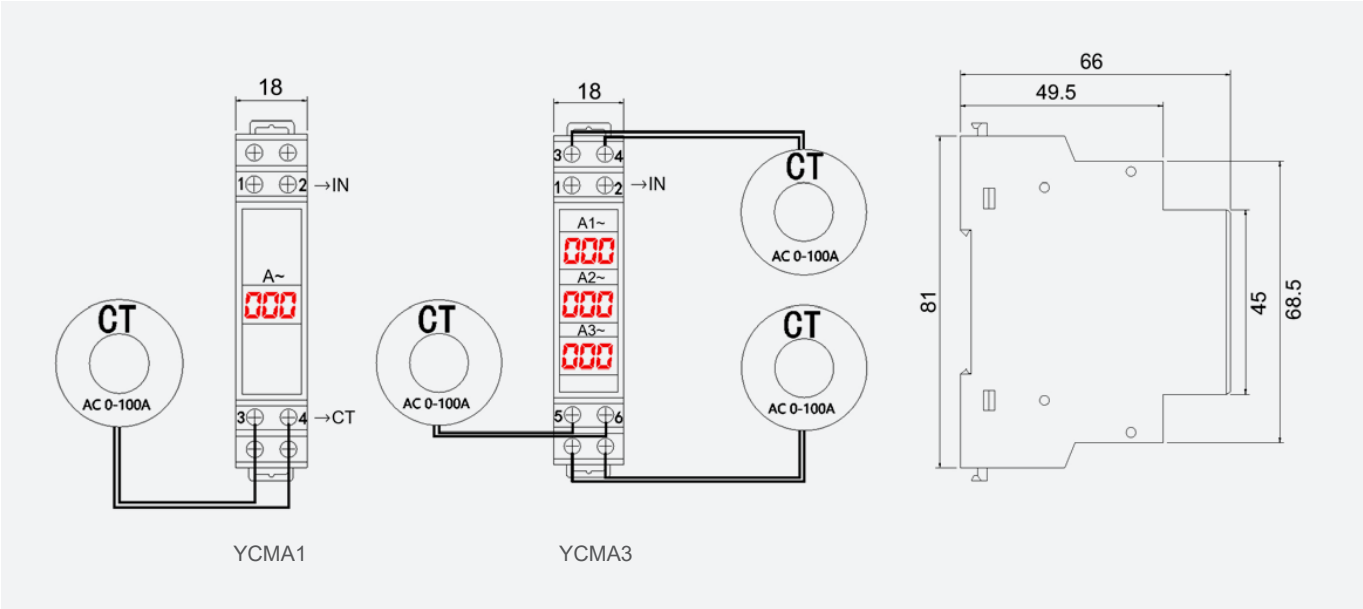
YCM Series DIN Rail Digital Display Meter



YCMHz1,YCMHz3	
Supply Voltage /Frequency Range	AC 80V-500V
Frequency 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

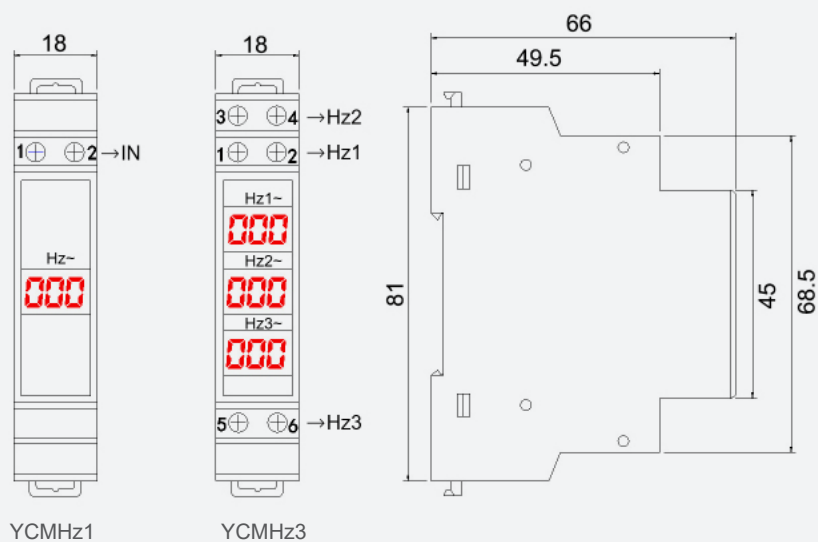
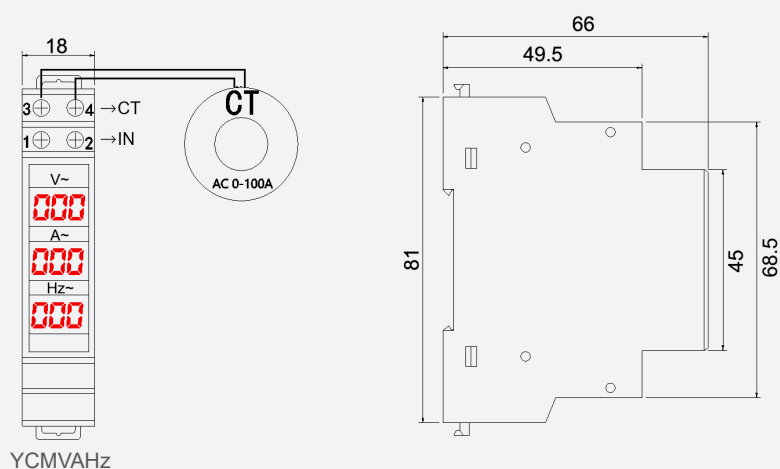
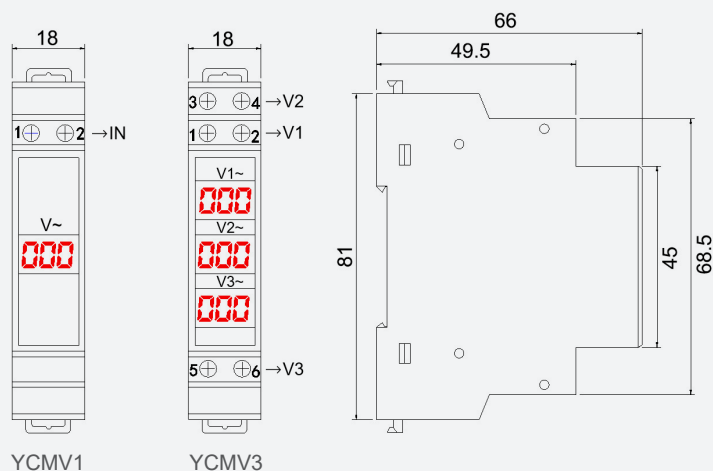
YCMAV2	
Supply Voltage /Frequency Range	AC 80V-500V
Current Range	AC 0-100A
Color	Red
Discrepancy Range	±2%
Rated Insulation Voltage	660V
Sampling Rate	1 time/s
Input Loop Power Consumption	≤2VA
Altitude	≤2000m
Ambient Temperature	-50°C~55°C
Humidity	50% and 40°C Condensation free
Storage Temperature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

Overall and mounting dimensions(mm)

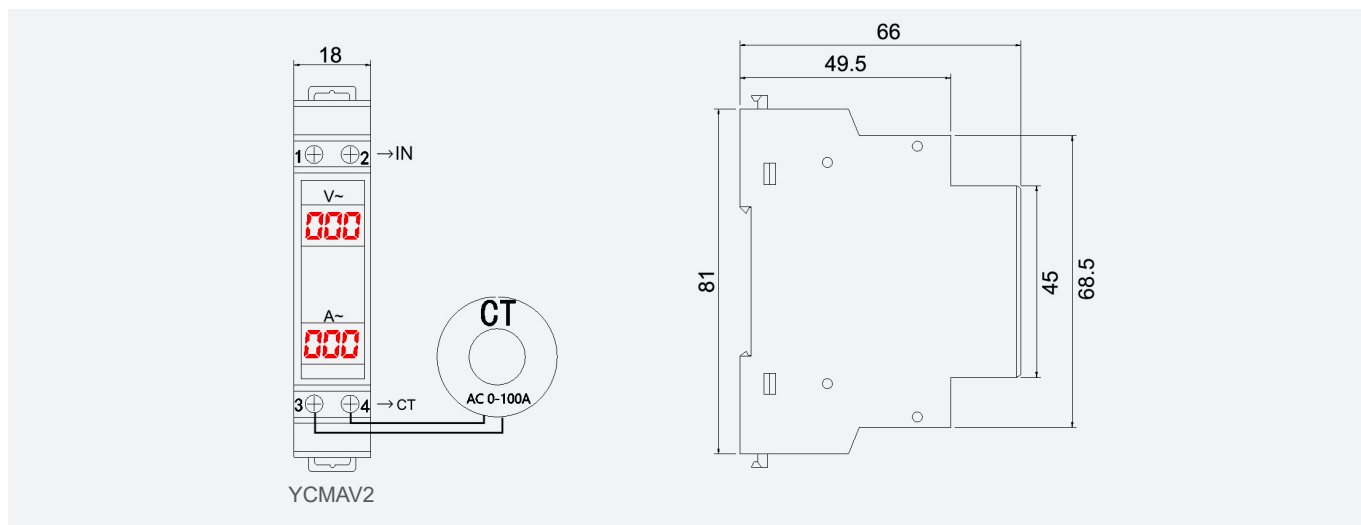


YCM Series DIN Rail Digital Display Meter

A



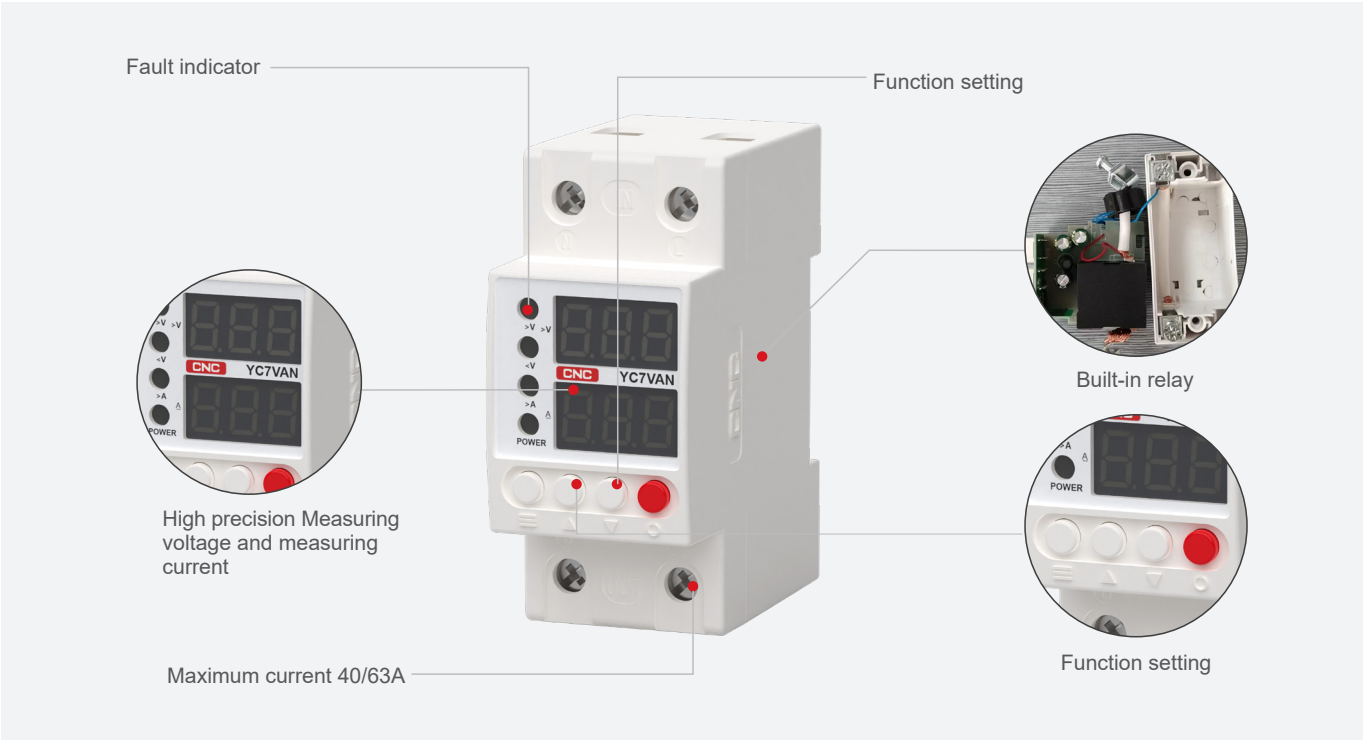
YCM Series DIN Rail Digital Display Meter



A

Final Distribution

YC7VAN Overvoltage and Undervoltage Protector



General

Voltage and current display relay is a microprocessor-based voltage monitoring device for sinale-phase AC networks to protect electrical equip- ment from surge voltage. The device analyzes the main voltage and displays its curent value on a digital indicator. Load is switched by electro- magnetic 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 proteciton.

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(de- fault without notes)	40A:40A 63A:63A 80A:80A	Single-phase:230V

Final Distribution

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

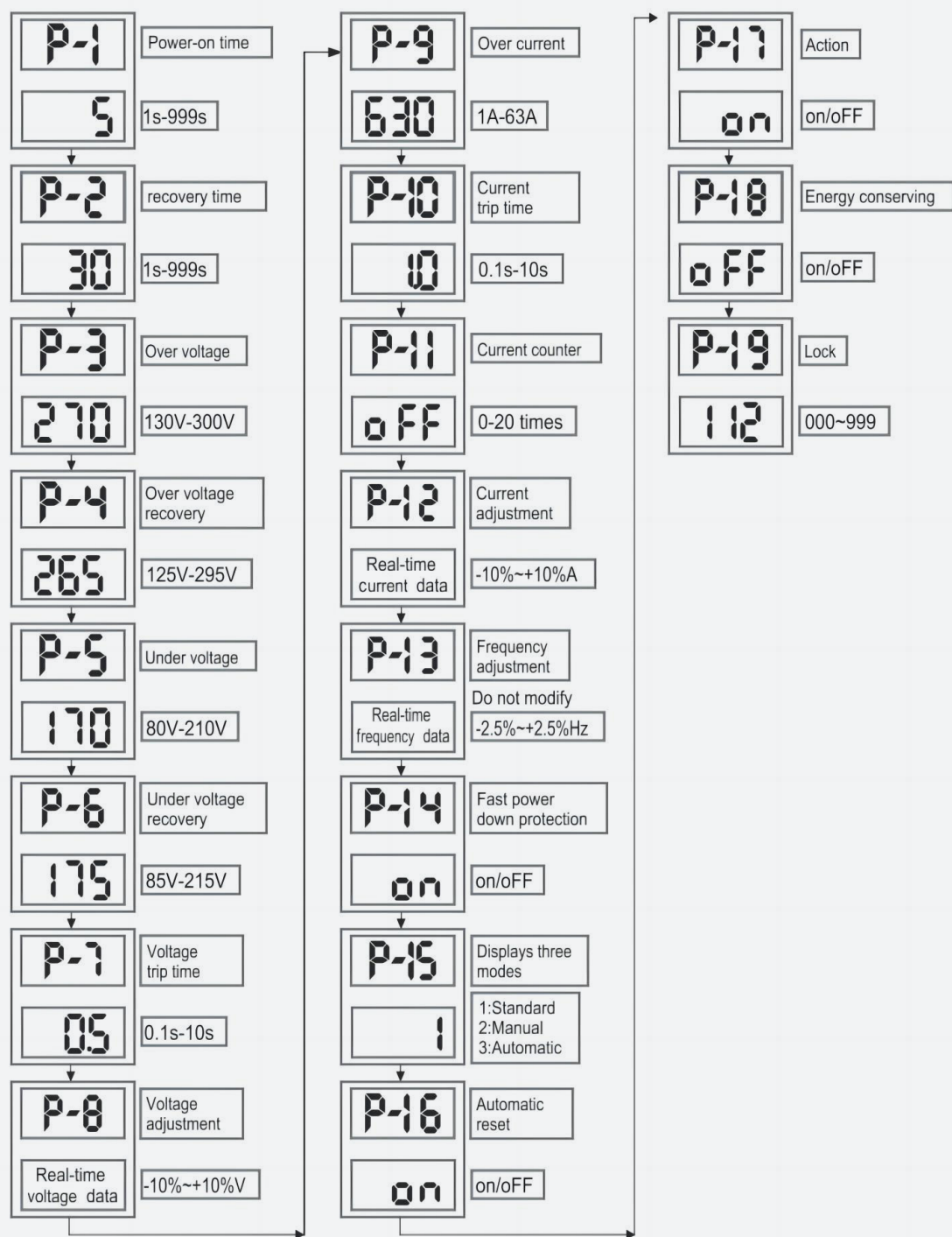
Function	Technical Parameter	Function	Technical Parameter
Input voltage	AC 140-300V	Power-on delay time	1-500s default 10s
Over-voltageprotection value	130-300V default 275V	Over-voltage recovery value	225-295V default 275V
Under-voltageprotection value	80-210V default 175V	Under-voltage recovery value	145-215V default 175V
Over-currentprotection value	40A:1-40A default 40A	Powe rconsumption	\$2W
	63A:1-63A default63A	Boundary dimendion	86×38×68mm
Recovery delaytime	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 case of over-voltage fault, under-voltage fault 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 equipment from false operation.
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 itself will not be damaged.

A

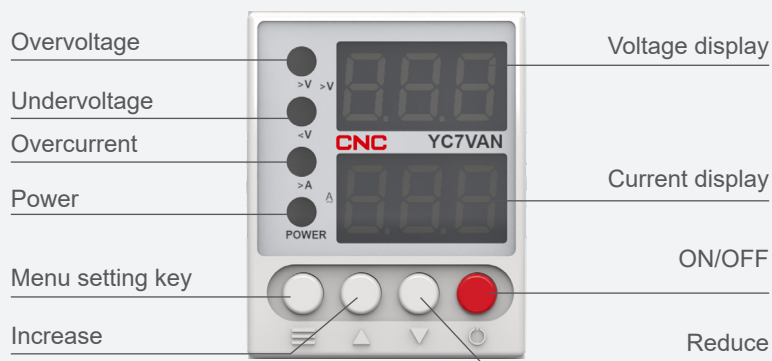
YC7VAN Overvoltage and Undervoltage Protector

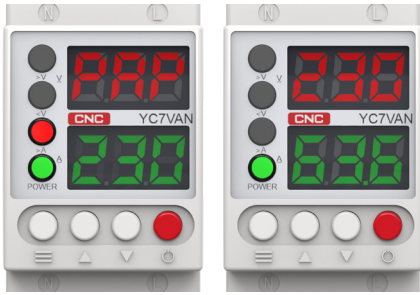
YC7VAN



YC7VAN Overvoltage and Undervoltage Protector

A

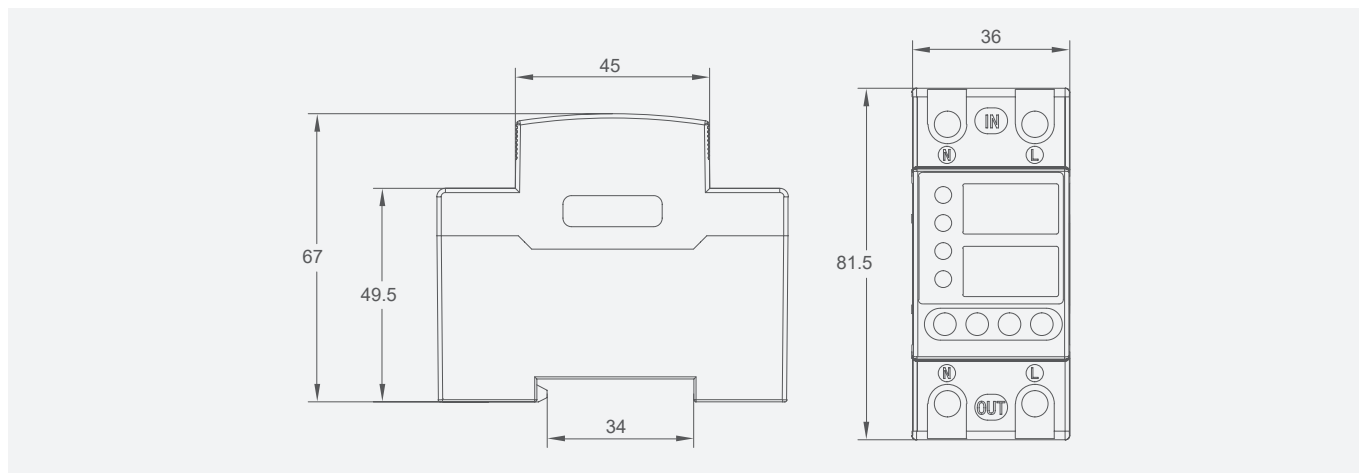


Function	Technical Parameter	Technical Parameter
PoP: Displays overvoltage value	Overvoltage protection interface 	Overvoltage recovery interface 
PUP: Displays undervoltage value	Overvoltage protection interface 	Overvoltage recovery interface 
PAP: Displays overcurrent value	Overcurrent protection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

YC7VAN Overvoltage and Undervoltage Protector

Overall and mounting dimensions(mm)

A



Example of ordering

YC7VAN 63A 230V 50 pieces

YC7VAN-WIFI kWH Series Voltage and Current Protector



Function

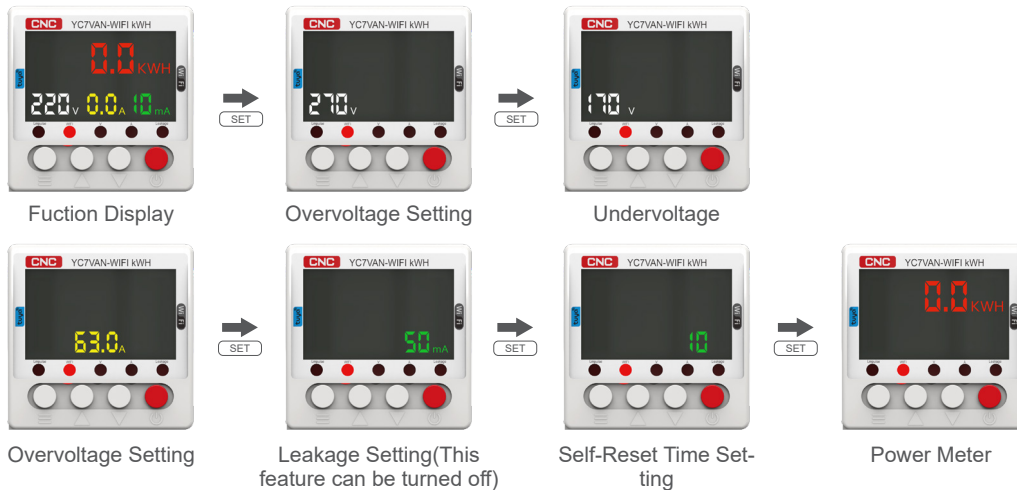
1. Remote control at anytime from anywhere
2. Schedule/Timer/loop timer
3. Energy monitoring
4. Under voltage protection 140V - 210V (adjustable) (default: 170V)
5. Over voltage protection 230V - 300V (adjustable) (default: 270V)
6. Over current protection 1A - 63A (adjustable) (default: 63A)
7. Electric leakage protection: 10 - 100mA (adjustable) (default: 50mA)
8. Preset current/voltage threshold values by app. Once the real - time current/voltage reaches the threshold values. The connected electrical appliances will be automatically turned off

Technical Parameters

1. Rated Supply Voltage: AC 220V
2. Operation Voltage Range: AC85V - 300V (single phase)
3. Rated Frequency: 50Hz
4. Electric Current (>A) setting range: 1A - 63A
5. Overvoltage (>U) setting range: 130V - 300V (adjustable)
6. Undervoltage (<U) setting range: 140V - 210V (adjustable)
7. Electric Leakage Protection range: 10mA - 100mA (This feature can be turned off)
8. Error: $\leq 2\%$
9. >U and <U trip delay: 1s - 500s (adjustable) (default: 10s)
10. Reset/Start Delay: 1s - 500s (adjustable) (default: 10s)
11. Voltage Measurement Accuracy: 1% (Not exceeding 1% of the rated voltage range)
12. Rated Insulation Voltage: 400V
13. Output Contact: 1NO
14. Altitude: $\leq 2000\text{m}$
15. Operating Temperature: $-30^{\circ}\text{C} - 70^{\circ}\text{C}$
16. Power Display Range: 0 - 9999.9kw/h

Final Distribution

YC7VAN-WIFI kWh Series Voltage and Current Protector

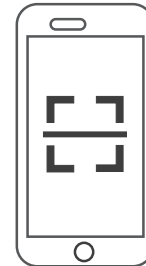


Parameter Settings

1. Click to view each data
2. Press for 5 seconds to enter setup mode, and then press SET to select, press and wifi key to adjust the set

Network Connection

1. Press wifi for 5 seconds until the WIFI indicator blinks quickly to enter the network connection
2. Scan the QR code underneath with mobile QR code scanning tool, or search "Tuya smart" at mobile application market to download and install APP.
3. Connect home WiFi on your mobile phone and start "Tuya smart" APP.
4. Follow the instruction in the APP to register/log in APP account and add new device.
5. After finishing adding new device, you can use APP to control your device conveniently.
6. APP is based on actual released version

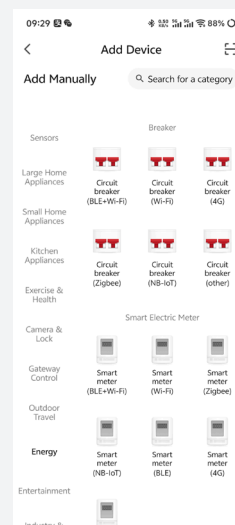


TUYA APP
Download Link

Network Settings

Start "Tuya smart" APP and log in. At the first page, select family at the top left corner and then click "+" on the top right corner to enter the device addition setting page.

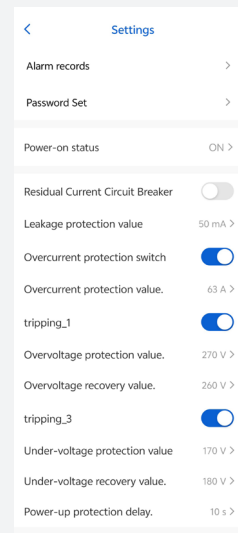
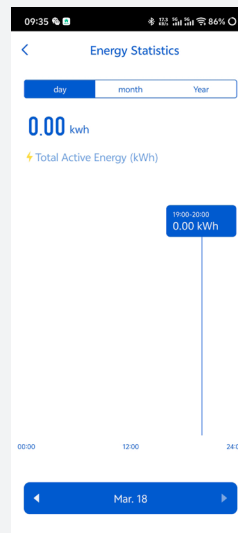
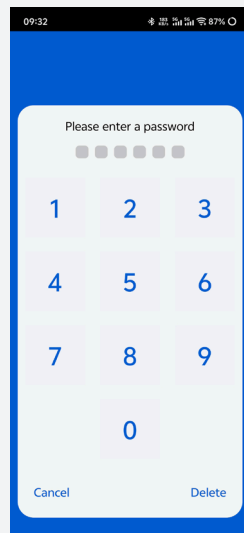
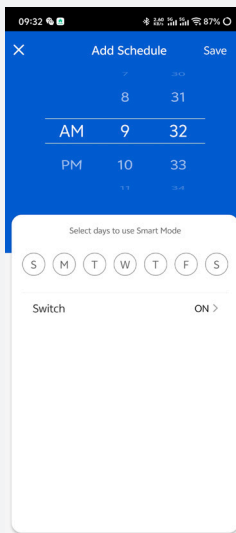
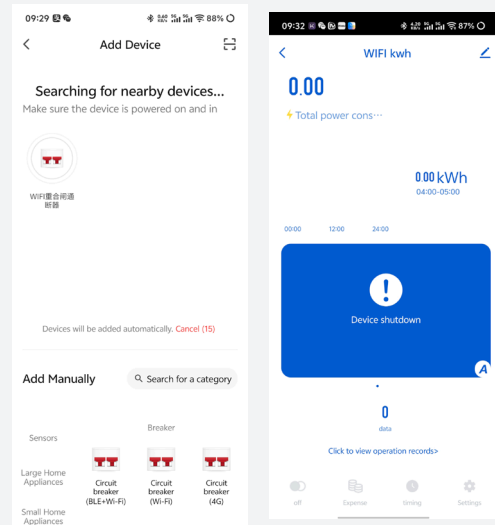
Click "all device" and find out the "Energy" item to select. Turn the power on of the power meter and press key for 5 seconds till the network indicator flashes rapidly, click "confirming the indicator is flash rapidly" Button.



Final Distribution

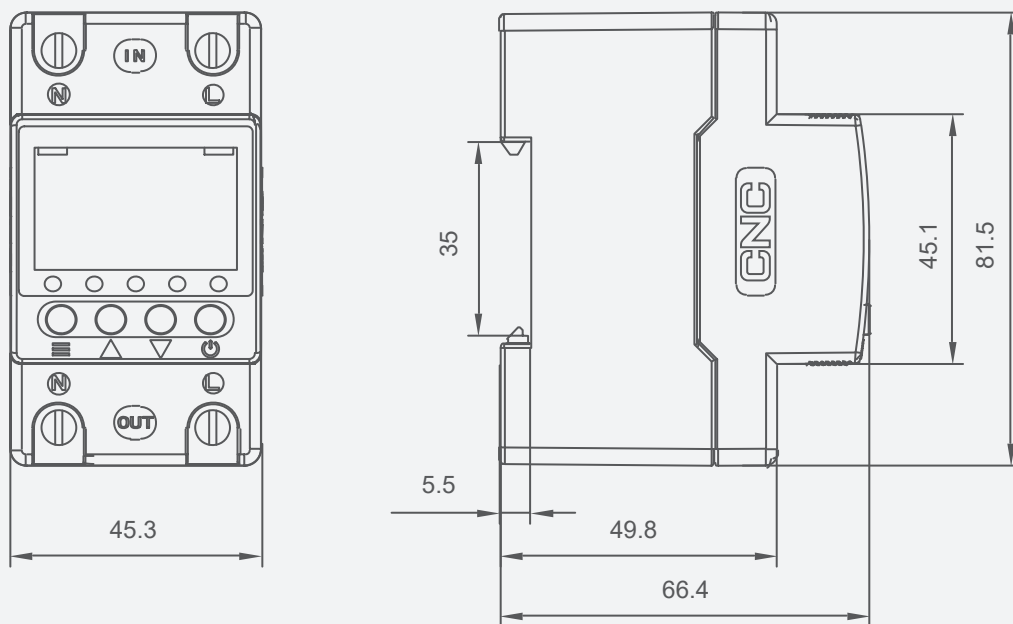
YC7VAN-WIFI kWH Series Voltage and Current Protector

Input the password of connected Wi - Fi. Only supports 2.4G wireless network, 5G wireless network is not supported. Existence of Chinese Characters in Wi - Fi name and password currently not supported, it may cause APP fails to add device.



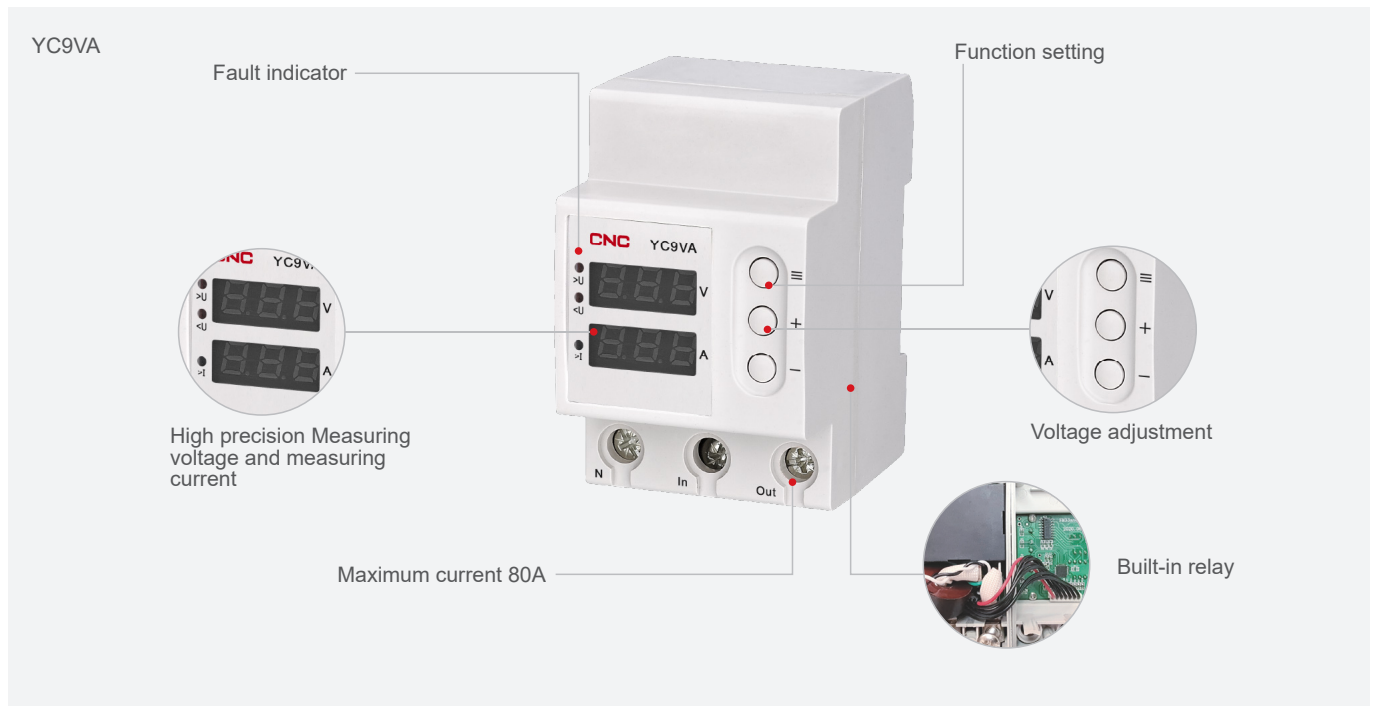
Overall and mounting dimensions(mm)

A



Final Distribution

YC9VA Overvoltage and Undervoltage Protector



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.

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 (I _{nom} < I _{ism} < I _{max}); 0.1s (I _{ism} ≥ I _{max})
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

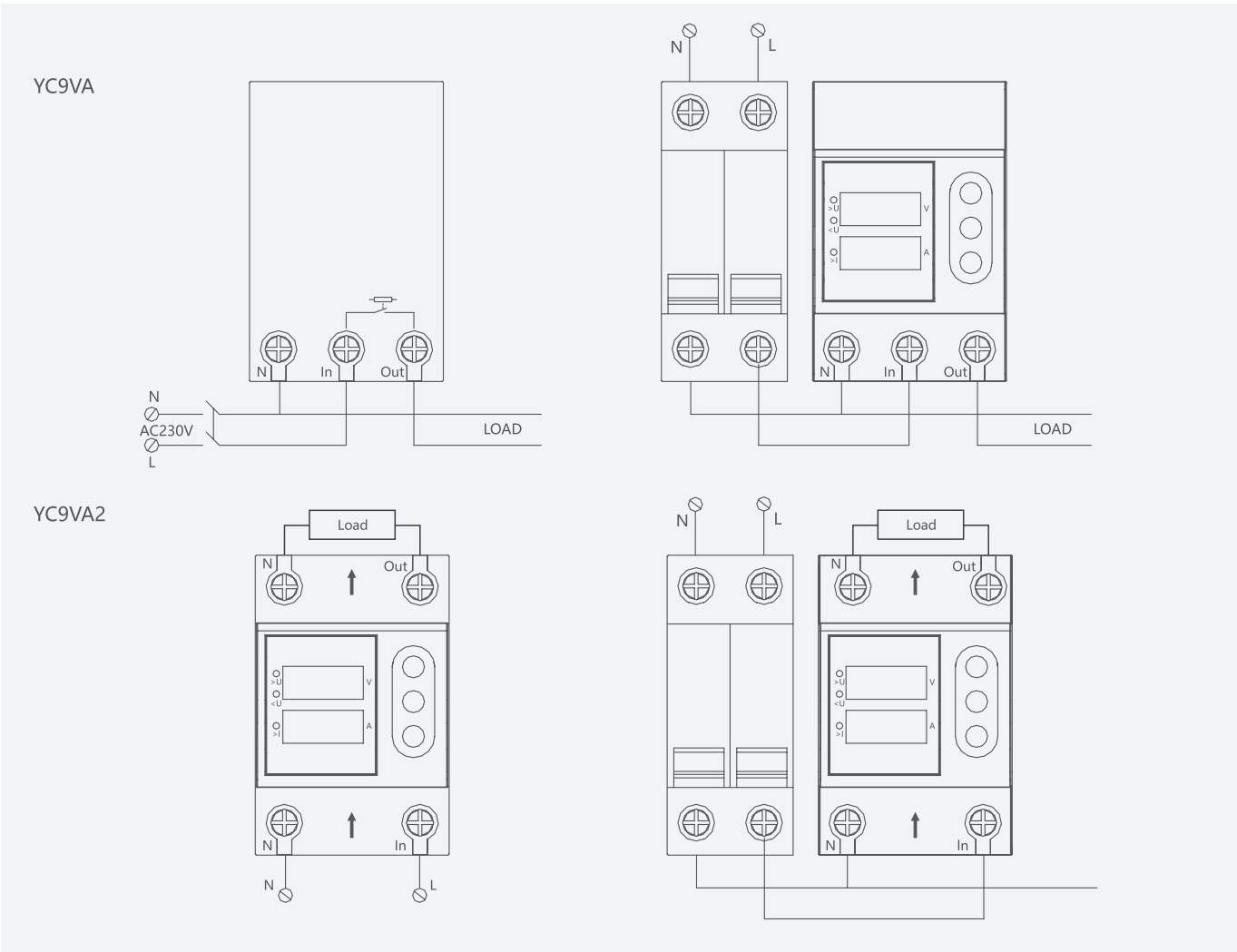
When a voltage is applied to the device, the digital indicator will display the current value of the voltage in the network.

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 while (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 line until the voltage returns to normal. 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.

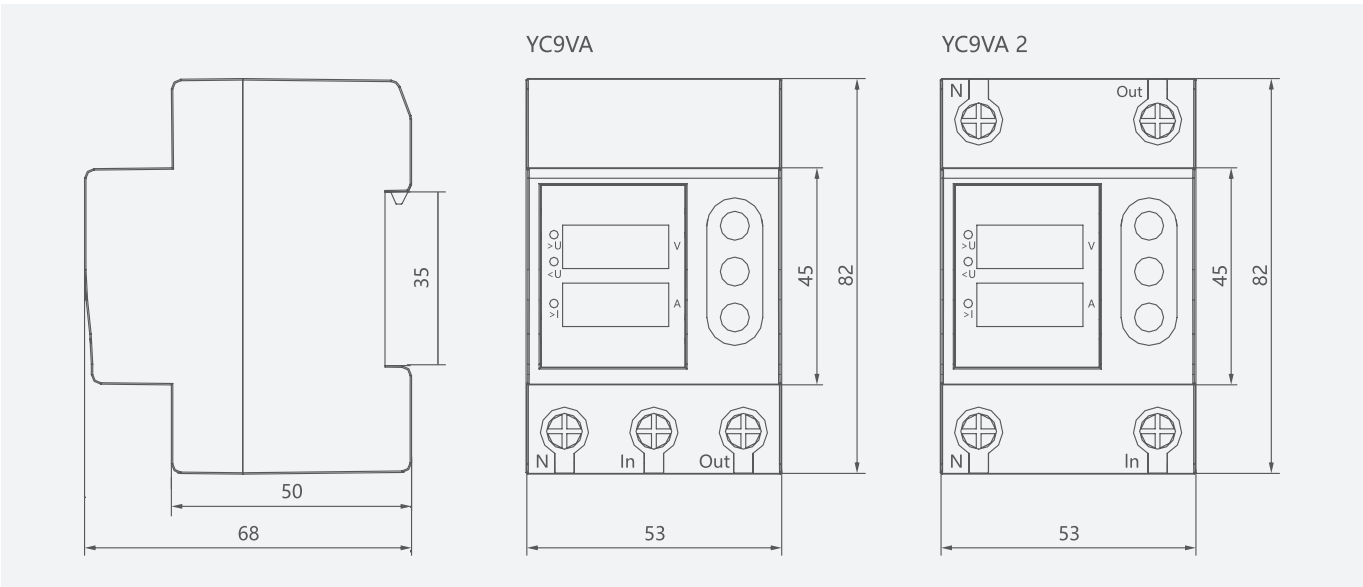
Final Distribution

YC9VA Overvoltage and Undervoltage Protector

Wiring diagram

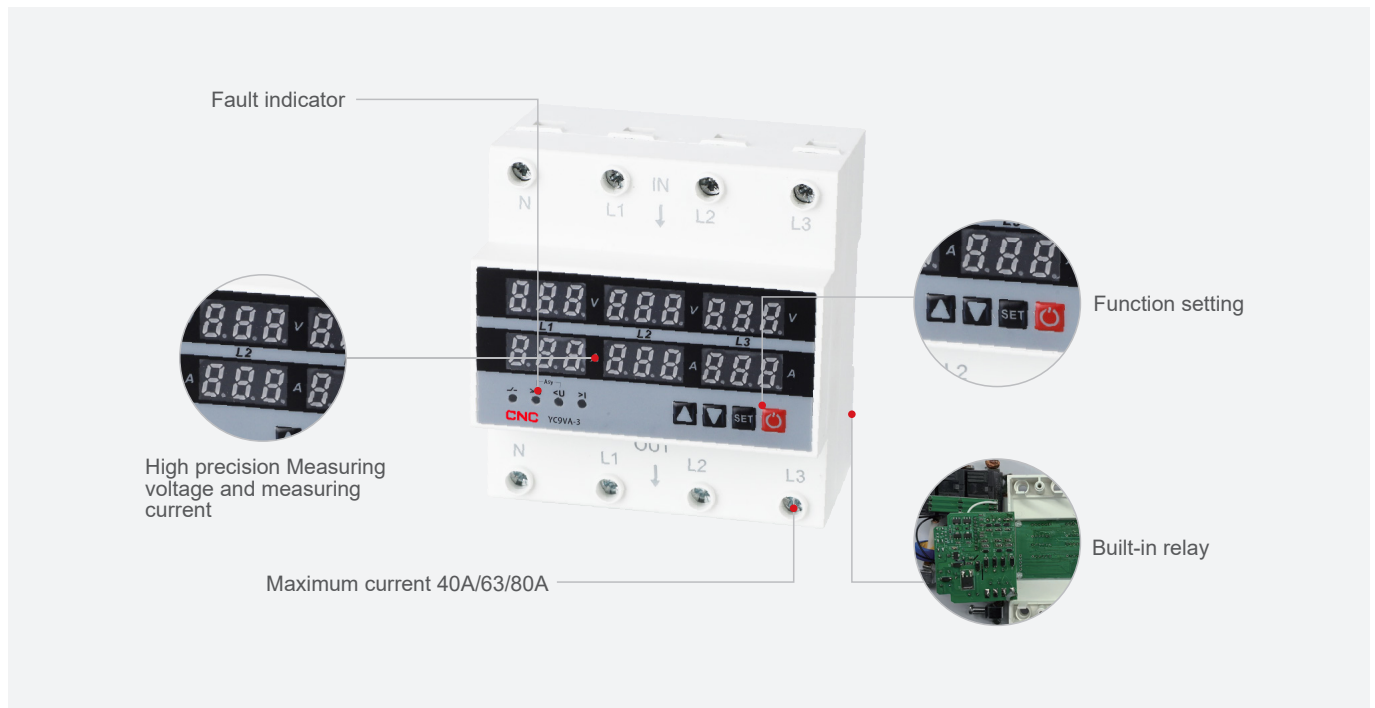


Overall and mounting dimensions(mm)



YC9VA-3 Overvoltage and Undervoltage Protector

A



General

YC9VA3 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

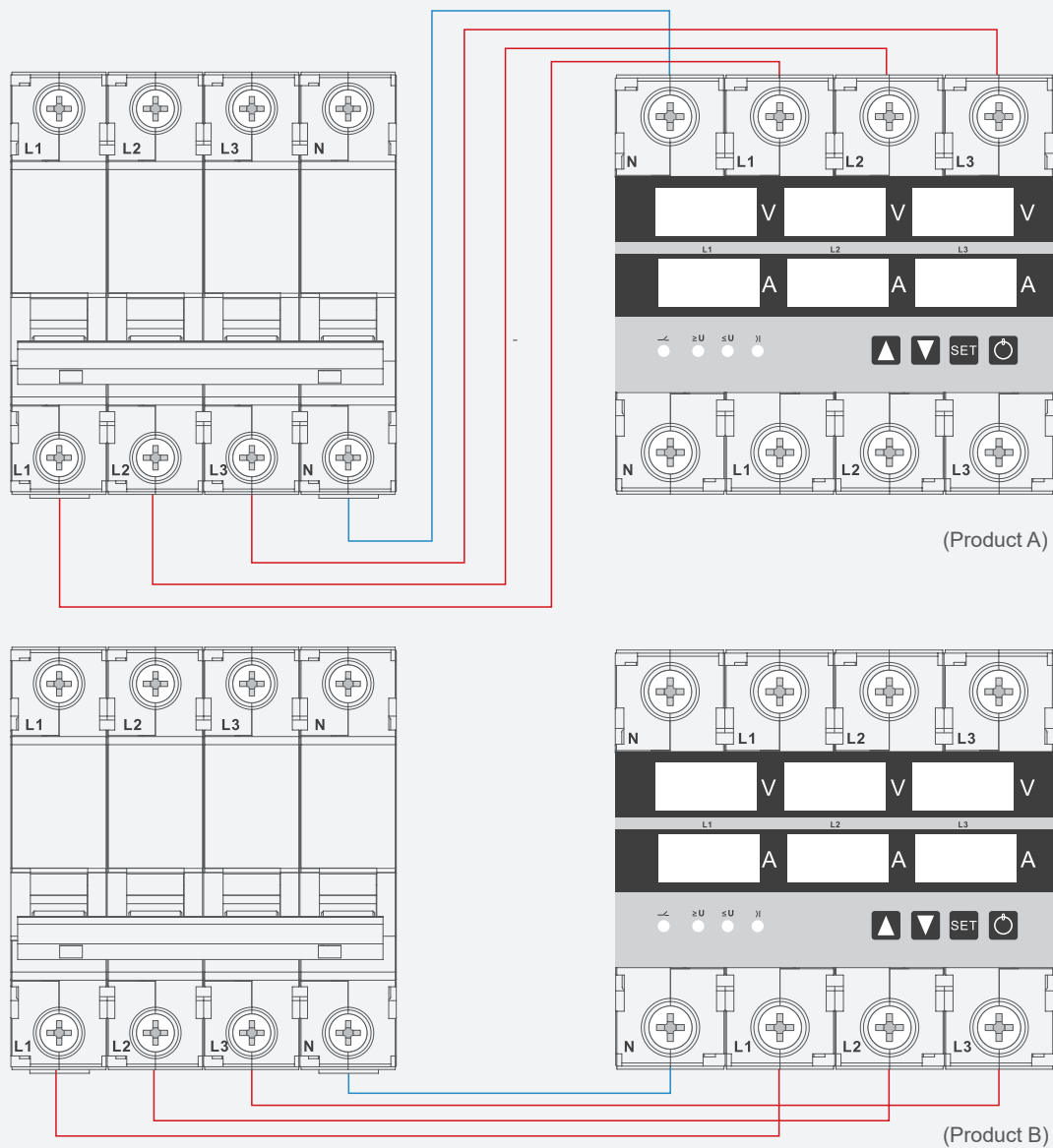
Rated supply voltage	AC 220				AC 380V			
Current specification	40A	63A	80A	100A	40A	63A	80A	100A
Rated operating current(In, A)	40	63	80	100	40	63	80	100
Maximum operating current I _{max} (A, with in 10 min)	63A	80A	100A	125A	63A	80A	100A	125A
Max. power of load(kW)	8.8	13.9	17.6	22	15.2	24	30.4	38

Final Distribution

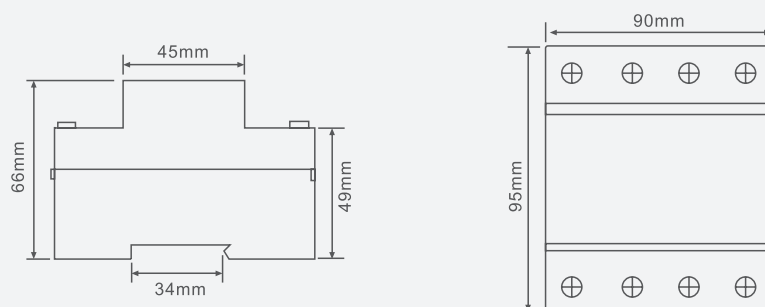
YC9VA-3 Overvoltage and Undervoltage Protector

Wiring diagram

A



Overall and mounting dimensions(mm)



Final Distribution

TMS-5 Modular Socket



General

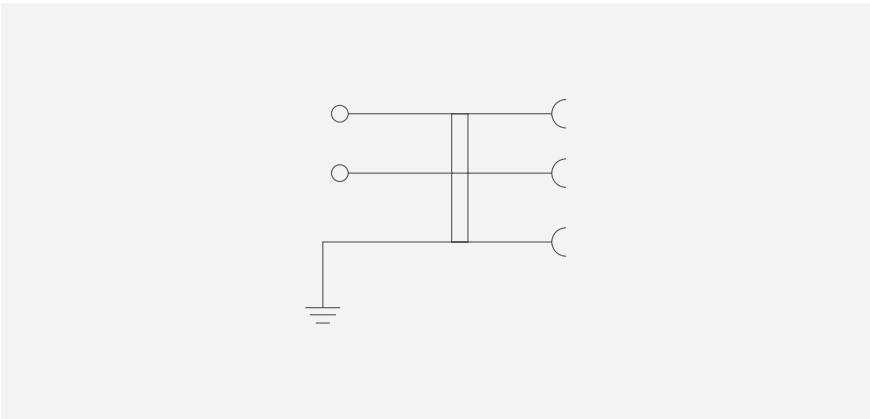
Grounded socket TMS-5 is suitable for single-phase power supply, used in the A auxiliary AC circuit for connecting electrical appliances (portable lamps, power supply, etc.).
Standard: IEC 60884-1.



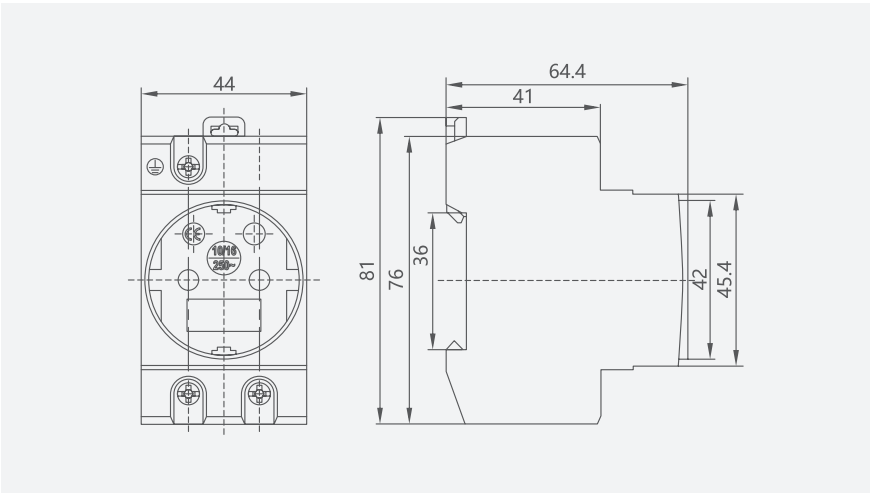
Technical data

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.



General

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

- Installation
 - The surge protector's housing size meets the space saving 18mm 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.
- Characteristics
 - Seal structure design, no arc leakage during operation;
 - Modular design, integrated design, more beautiful appearance;
 - Limit 12.5kA, 15kA, fast response time;
 - Imported high energy graphite, stable performance, safe use;
 - 35mm standard rail installation.
- 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

- It is needless to adjust the protection device after it has been mounted.
- Only the protection device is installed appropriately, it can protect the power grid automatically at once;
- When the protection device is operating, the tablet or 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

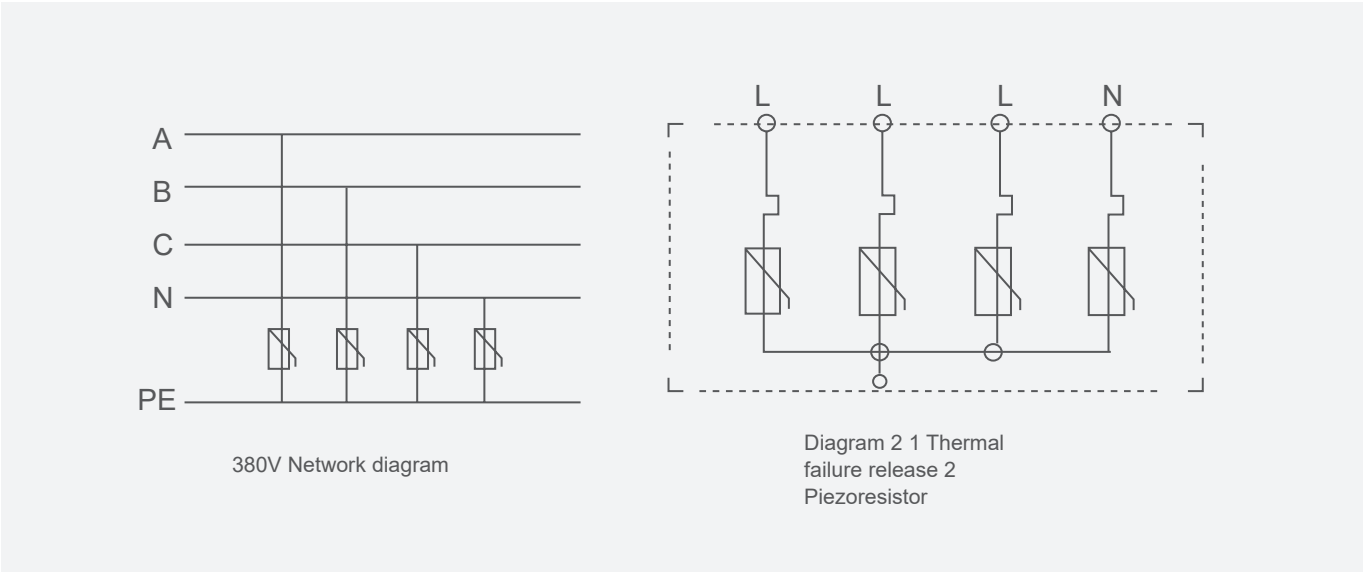
Technical data

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℃
		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	/	/			

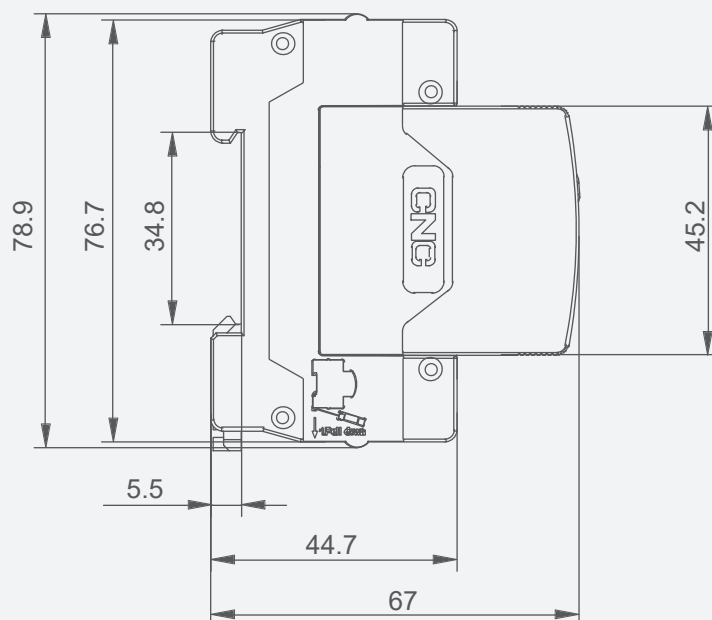
Index	Code	N-PE/12.5	N-PE/15
continuous operating voltage Uc(V)		255V/280V/385V	
protection level UP(KV)		≤1.5KV≤2.0KV≤2.5	
Nominal operating currentin 8/20us (KA)		/	/
Lightning impulse current 10/350us (KA)		12.5	15
Response Time ns		< 100ns	
Color		Blue/Wie	

Main constitution and working principle

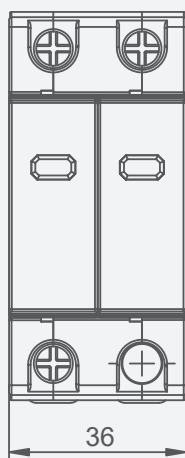


Overall and mounting dimensions(mm)

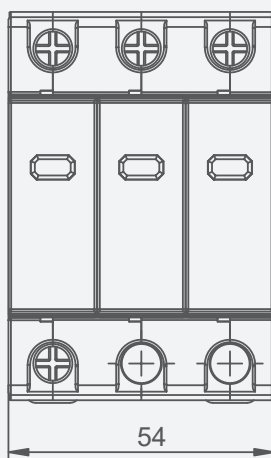
A



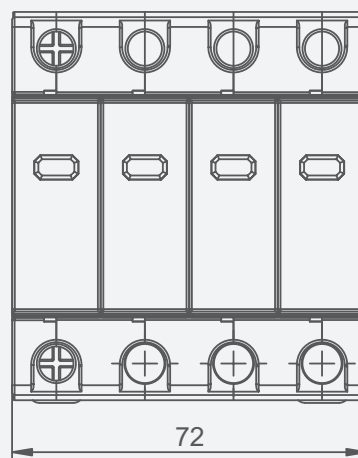
1 pole



2 pole



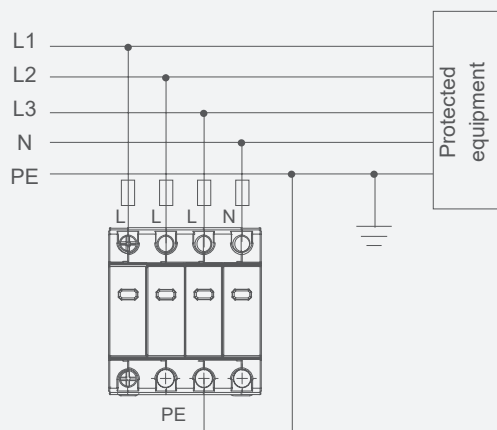
3 pole



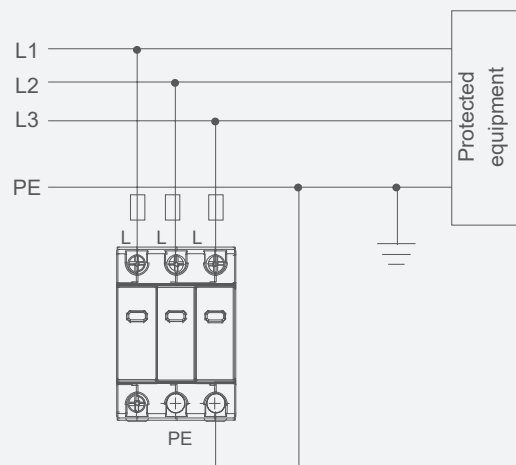
4 pole

Wiring Diagram

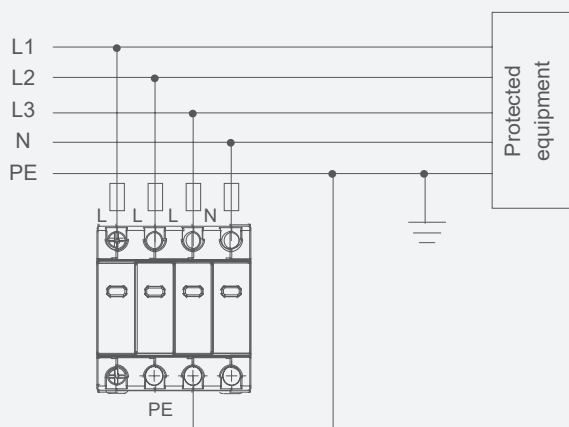
A



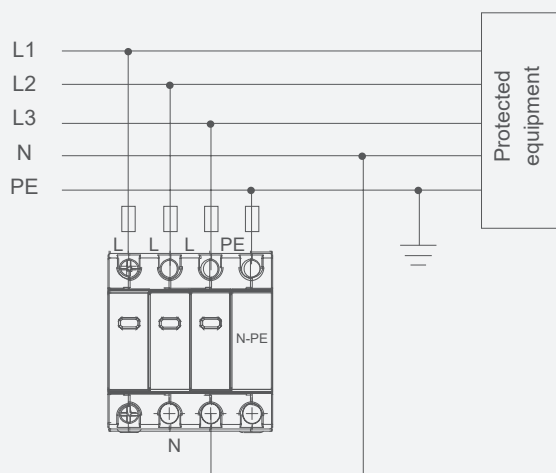
Wiring mode of TN-S power supply system



Wiring mode of TN-C power supply system

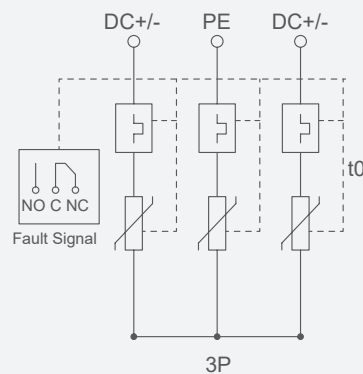
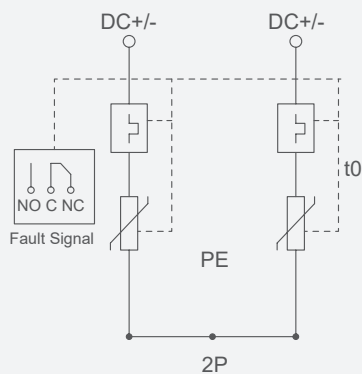


Wiring mode of TT power supply system



"3+1" wiring mode

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

- 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.
- 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.
- Contactors are not used for breaking short circuit current, so it is necessary to choose suitable short circuit protection electrical equipment.

Standard: IEC/EN 61095

Type designation

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

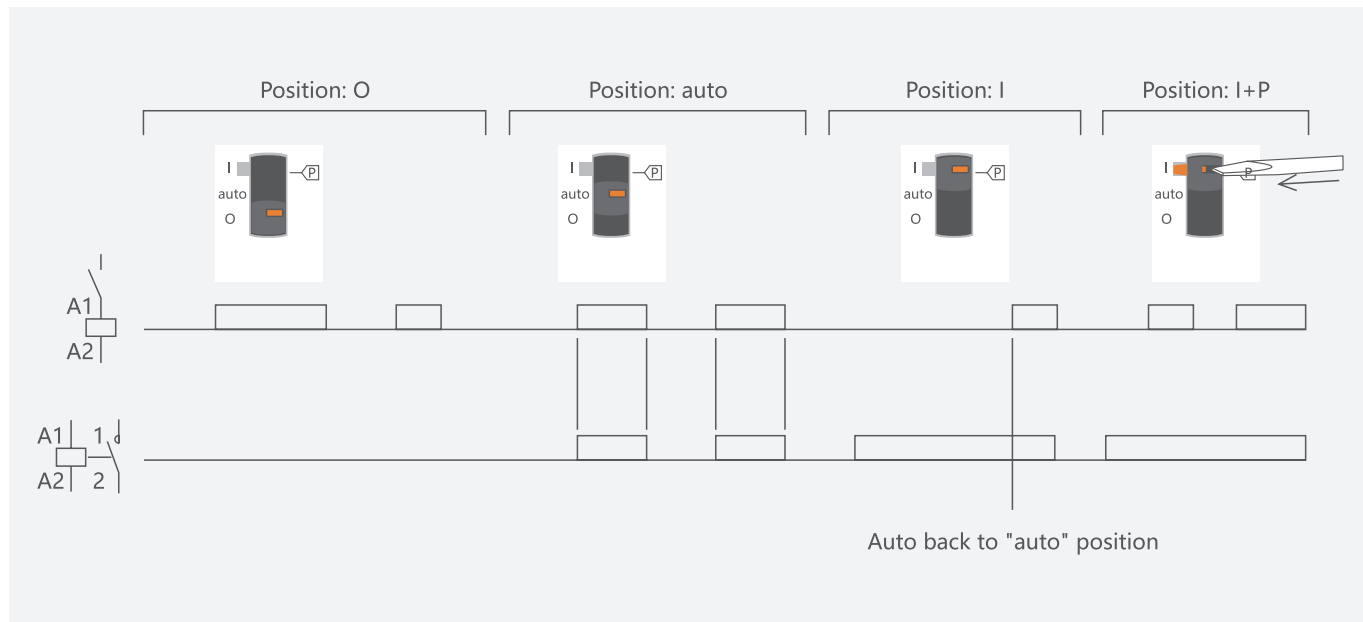
Technical data

Parameter			Specification						
			16	20	25	32	40	63	100
Rated Current In(A)		AC-7a	16	20	25	32	40	63	100
		AC-7b	6	7	9	12	18	25	32
Conventional Free Air Thermal Curent Ith (A)			16	20	25	32	40	63	100
Rated Insulation Voltage Ui (V)			500						
Rated Voltage Ue (V)			250V(2P) 400V (4P)						
Ambient Temperature			-5°C~40°C						
Making and Breaking Capacity (AC-7a)			1.5Ie						
Main Contacts		2P	1NO 1NC, 2NO, 2NC						
		4P	2NO 2NC, 3NO 1NC, 4NO, 4NC						
Controlled power	AC-7a	230V	3.5	4.5	5.5	7	9	14	22
		400V	11	13.5	17	22	27	40	69
	AC-7b	230V	1.2	1.5	2	2.5	4	5.5	6.5
		400V	4	4.5	6	8	12	17	27
Electrical durability (times)			10x10 ⁴						
Mechanical durability (times)			100x10 ⁴						
Operation frequency/1h			100						
Coil Voltage 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						

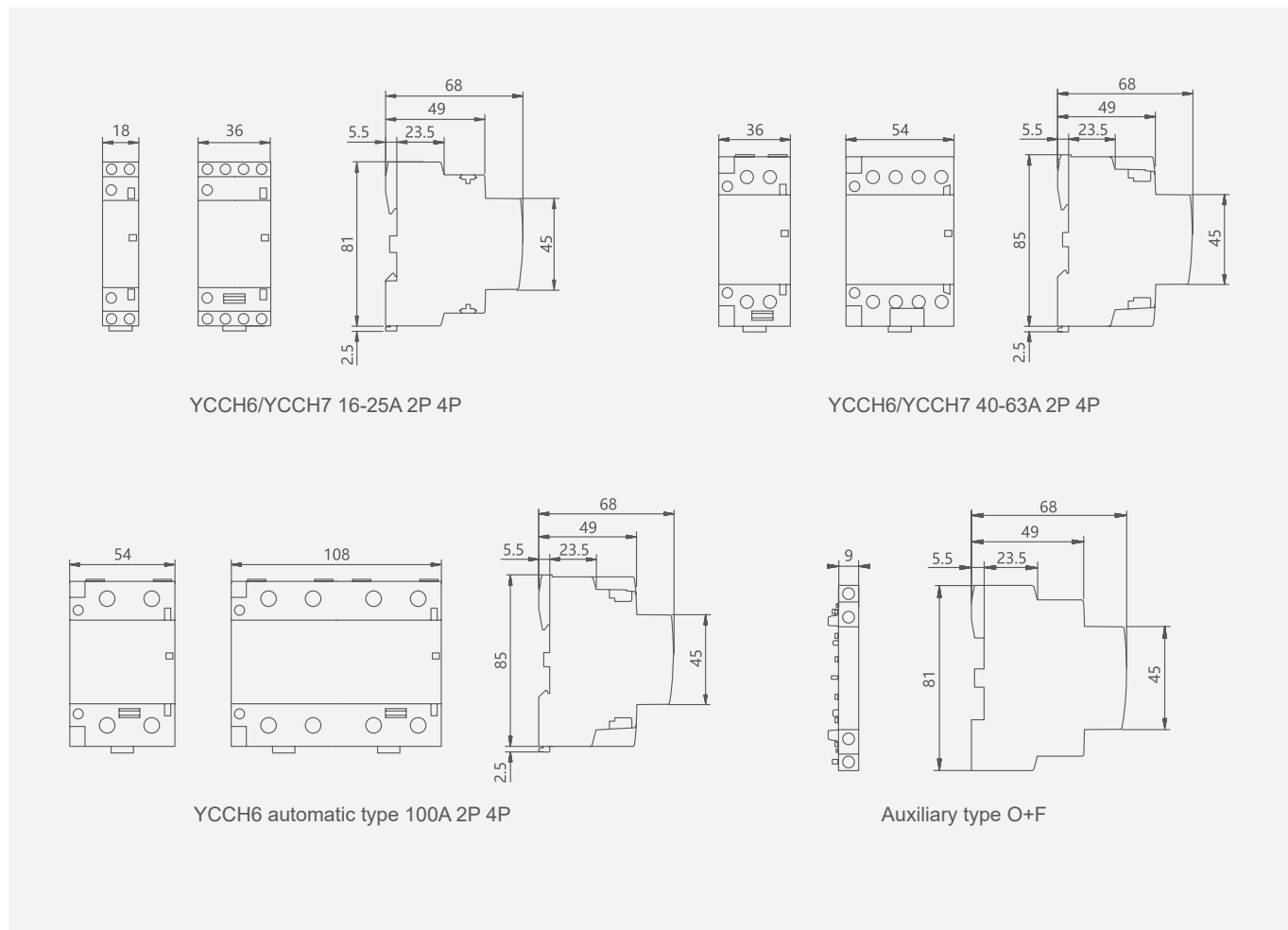
Final Distribution

YCCH6(YCCH7) Modular Contactor (Manual Automatic Integration)

Operation (Manual Operation Contactor)



Overall and mounting dimensions(mm)

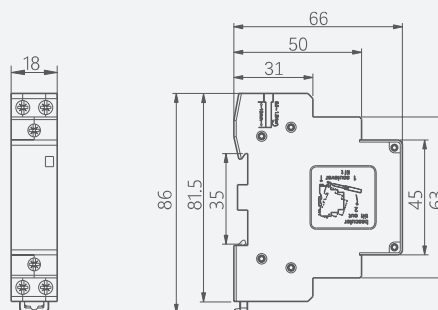


YCCH6(YCCH7) Modular Contactor (Manual Automatic Integration)

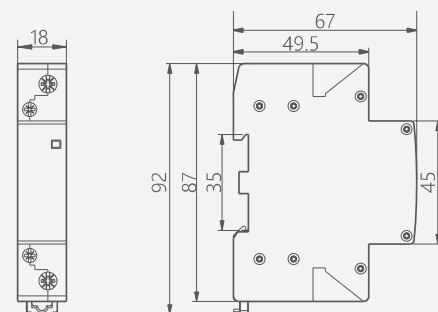
A



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



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

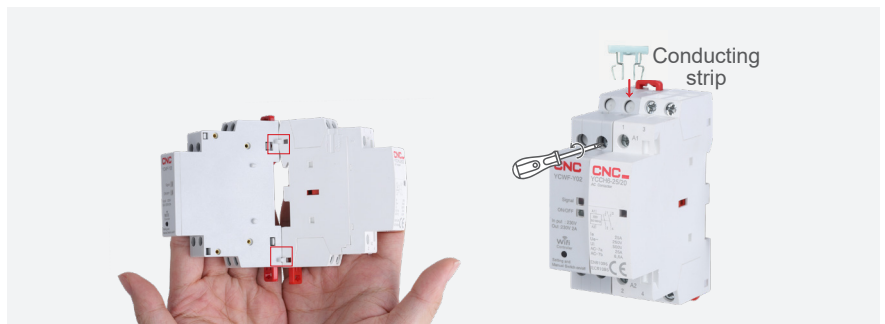
Support smart configuration for fast networking; Support multiple control types: switch, timer switch, cycle control, etc.; Support WLAN local control and remote control; Access to mainstream voice-activated assistants such as Google, Alexa, Tmall Genie, DuerOS, Xiao Ai, etc, Voice-activated smart device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



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				

Final Distribution

YCWF-Y02 WIFI Smart Switch Controller



YCWF+YCCH6-25/40



YCWF+YCCH6-63/40



YCWF+YCCH6-100/20

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	
YCWF+YCCH6-20/40	20A		7A			
YCWF+YCCH6-25/40	25A		9A			
YCWF+YCCH6-16/04	16A		6A		24/110 /230/380	
YCWF+YCCH6-20/04	20A		7A			
YCWF+YCCH6-25/04	25A		9A			

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	
YCWF+YCCH6-63/40	63A		25A			
YCWF+YCCH6-40/04	40A		18A		24/110 /230/380	
YCWF+YCCH6-63/04	63A		25A			

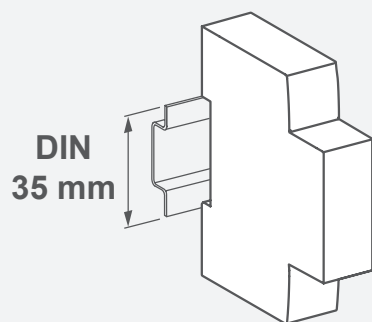
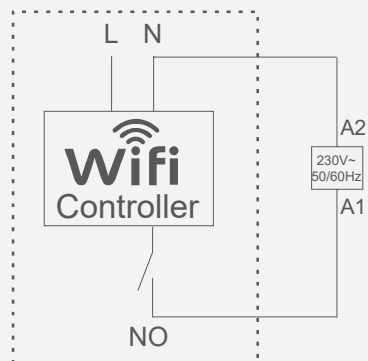
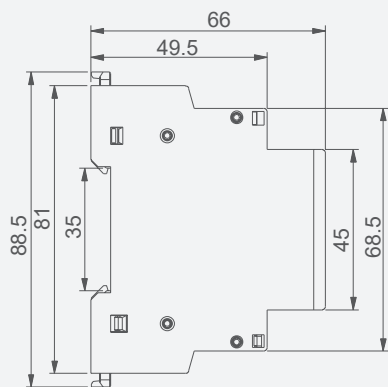
AC 3modules

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	
YCWF+YCCH6-100/11	100A		40A		24/110/230	
YCWF+YCCH6-100/02	100A		40A		24/110/230	

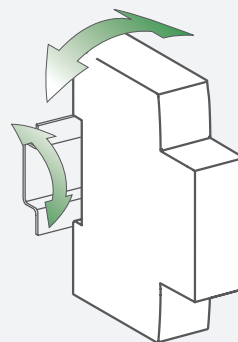
YCWF-Y02 WIFI Smart Switch Controller

Overall and mounting dimensions(mm)

A



Installed on 35mm
standard guide rail



$\pm 30^\circ$ 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

A



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)

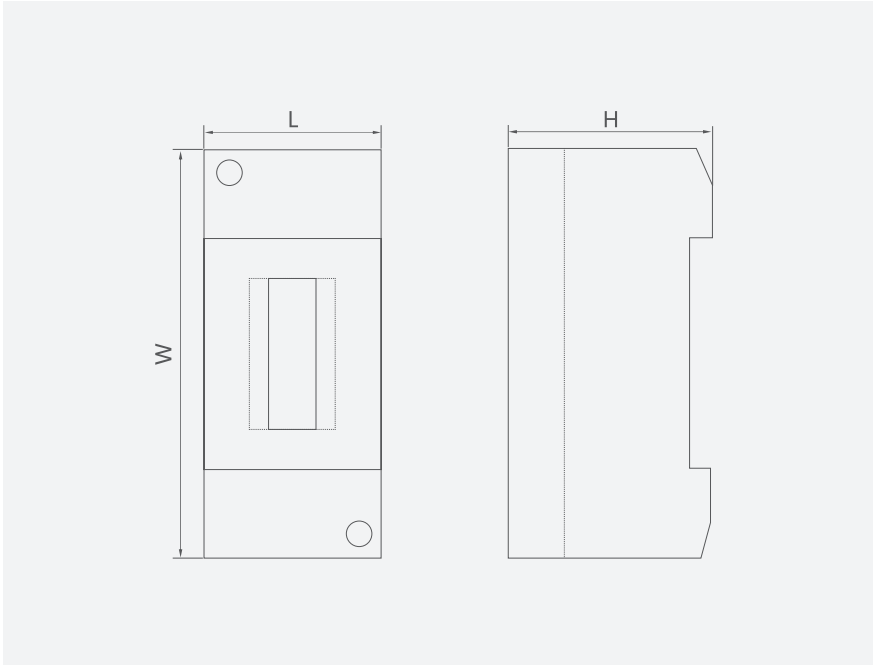
Specification	Dimension	Flush installation W x H x D(mm)
YCX2-FT-6WAYS		142×180×85
YCX2-FT-8WAYS		178×185×85
YCX2-FT-10WAYS		215×200×85
YCX2-FT-12WAYS		251×200×85
YCX2-FT-15WAYS		303×200×85
YCX2-FT-18WAYS		360×230×85
YCX2-FT-20WAYS		396×230×85
YCX2-FT-24WAYS Single row		475×230×85
YCX2-FT-24WAYS Double 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

Final Distribution

YCX3 Surface Mount Distribution Box



Overall and mounting dimensions(mm)



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

YCX6 Lighting Distribution Box



General

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

- Power distribution system

Building electrical distribution system, house renovation and decoration.

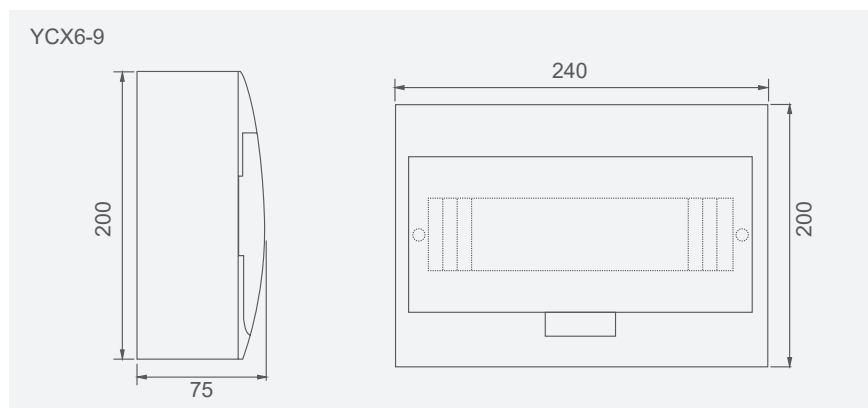
- Installation mode

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

- Appearance design

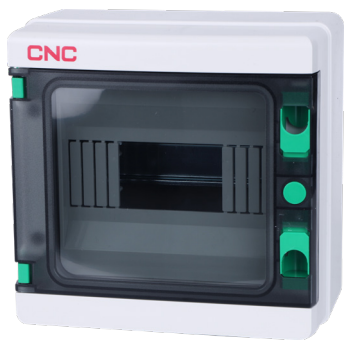
The stylish appearance design is suitable for high-end residences, hotels and office buildings, etc., which show the taste of modern life.

Overall and mounting dimensions(mm)



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

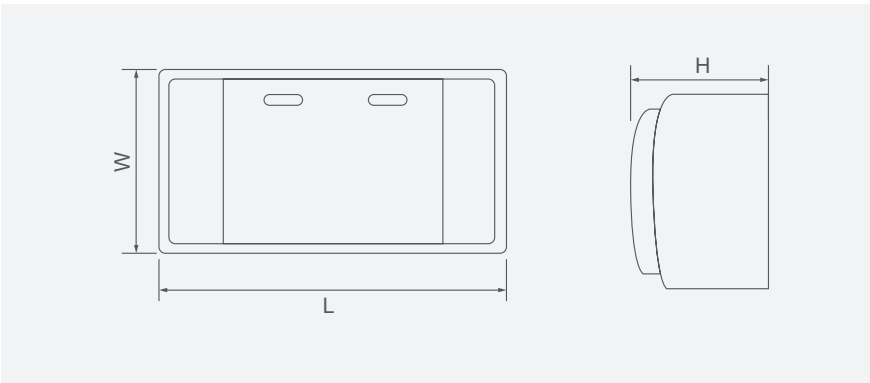
Features

- 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

Final Distribution

HT Plastic Distribution Box

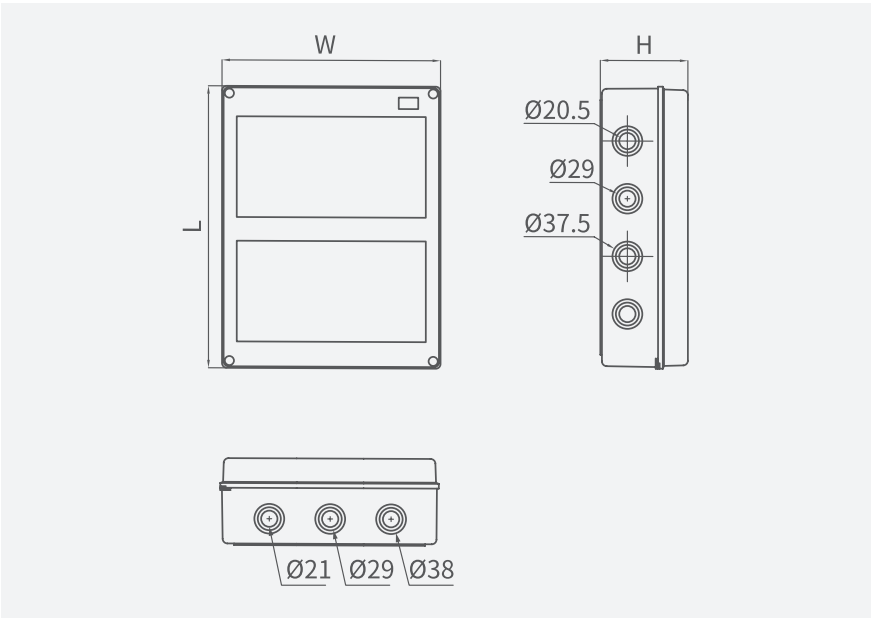
A



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

Final Distribution

YCMET-R British Distribution Box



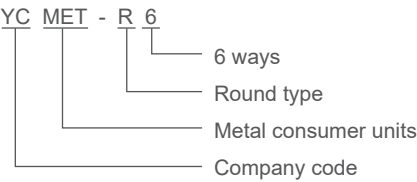
General

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

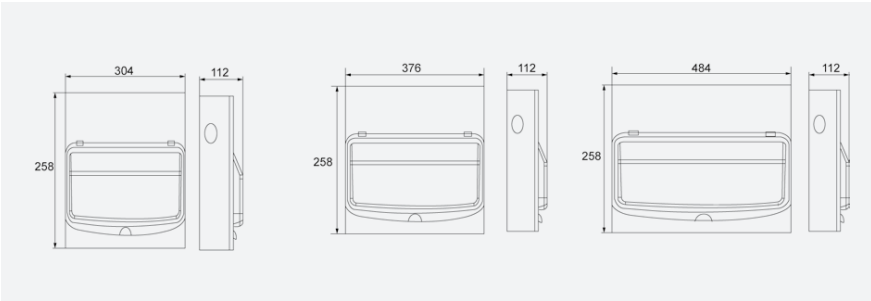
The DIN rail is complete with a useful alignment and fixing mechanismthat allows quickinstal-
lation. Cable entry points are located on top, bottom, side andrear surfaces.

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



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

A



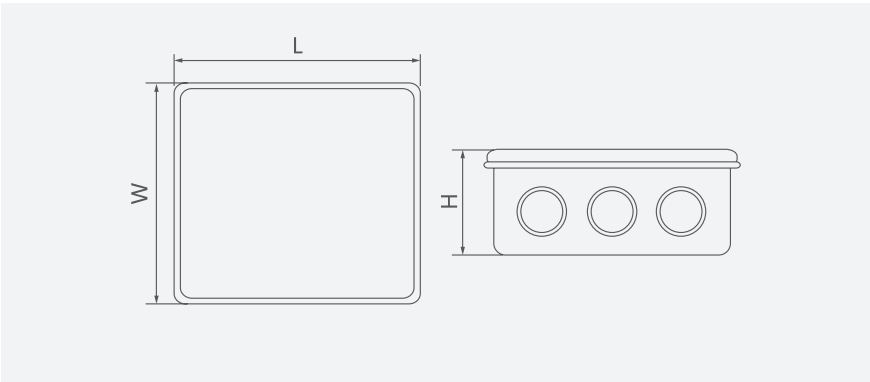
General

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

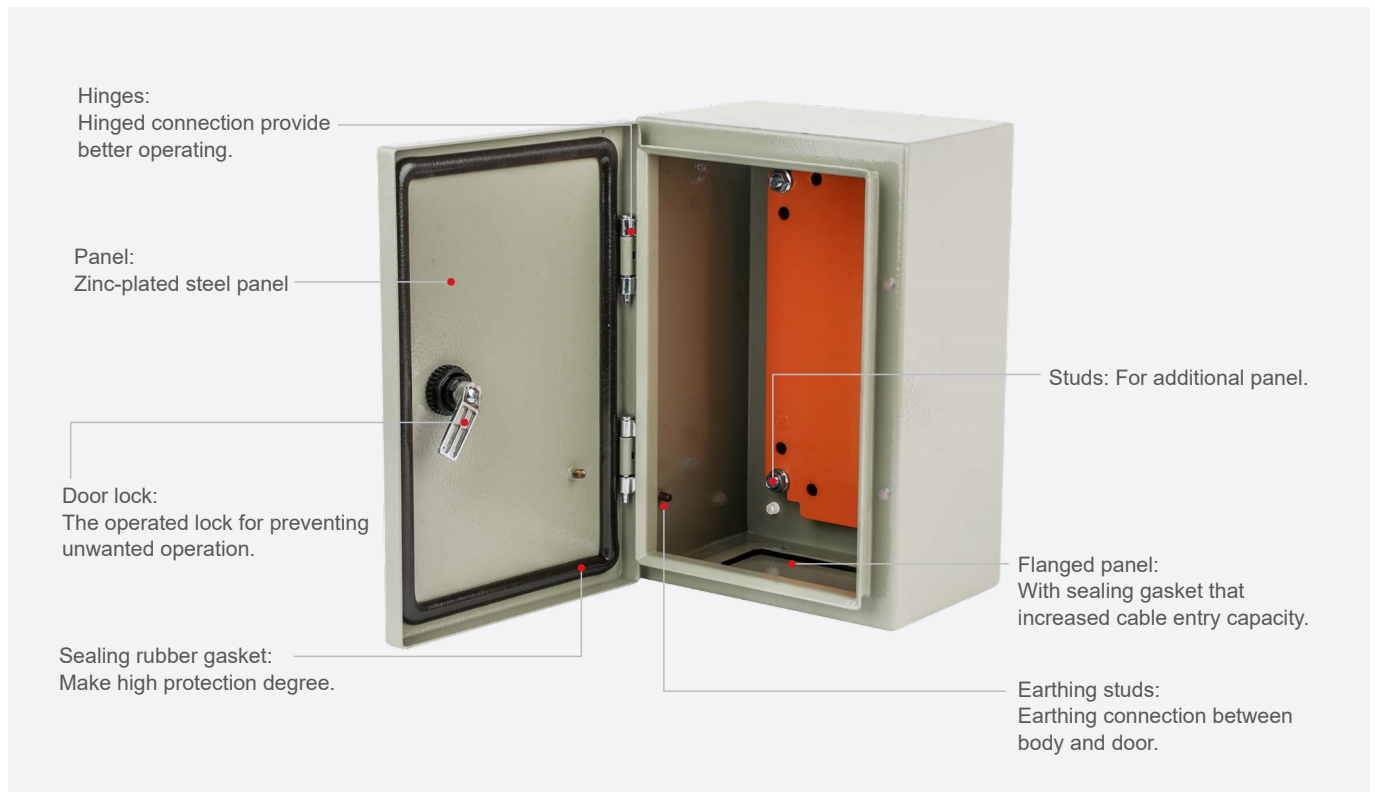


Model	Dimension(mm)		
	L(mm)	W(mm)	H(mm)
SH-Q3-801	50	/	30
SH-Q3-802	50	/	50
SH-Q3-803	80	/	50
SH-Q3-804	80	80	50
SH-Q3-805	85	85	50
SH-Q3-806	100	100	70
SH-Q3-807	150	110	70
SH-Q3-808	150	150	70
SH-Q3-809	200	100	110
SH-Q3-8010	200	155	80
SH-Q3-8011	200	100	70
SH-Q3-8012	200	200	80
SH-Q3-8013	255	200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

Final Distribution

YCS1 Enclosure

A



General

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

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

Features

Material:

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

Process:

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

Protection:

Zinc alloy waterproof door lock; the door lock is a zinc alloy inner core waterproof lock; sealed rubber pad, double insulation, excellent outdoor performance.

Surface: The shell is sprayed in two colors of 7035/7032, the bottom plate is 5060 orange, eye-catching international standards, and the spraying standard reaches 60-80μ.

Design: Corner-molded lids ensure better rain protection and great looks, and the 3-point cam lock for larger size can ensure uniform locking on the whole length.

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

Conforms to IEC standard.

Final Distribution

YCS1 Enclosure

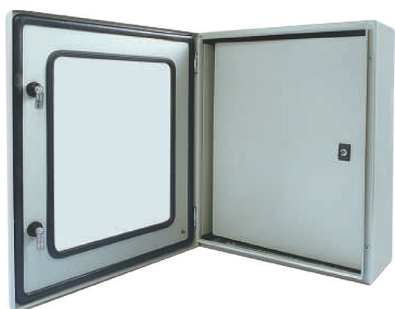
A



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

Final Distribution

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

A

Electronic phase switch

A



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

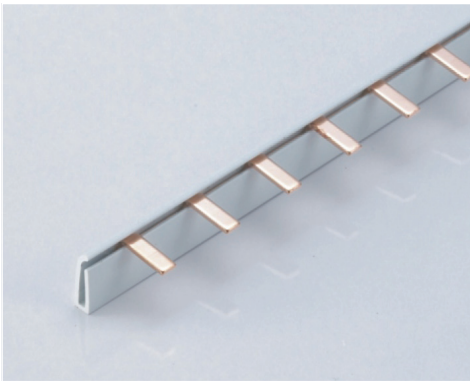
Model	YC6VAZs		
Rated Supply voltage	AC 220V		
Operation voltage	AC 80V-400V(single phase)		
Rated frequency	50/60Hz		
Electric current(>A)setting range	63A/80A/100A		
Overvoltage(>U)setting range	230-300V		
Undervoltage(<U) setting range	110-210V		
Reset/start delay	1-30S		
Voltage measurement accuracy	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		
Operating 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 I _{max} (A,within 10min)	80A	100A	100A
Max power of load (KW)	13.9KW	17.6KW	22KW

Final Distribution

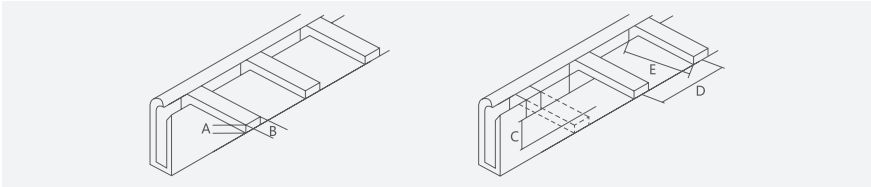
Busbar

Busbar Pin

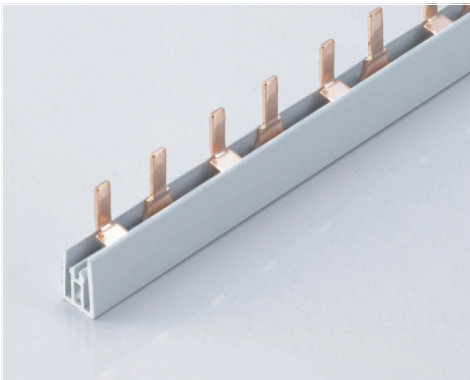
Material: Copper
Features: good conductivity, low contact resistance, safe and reliable performance.



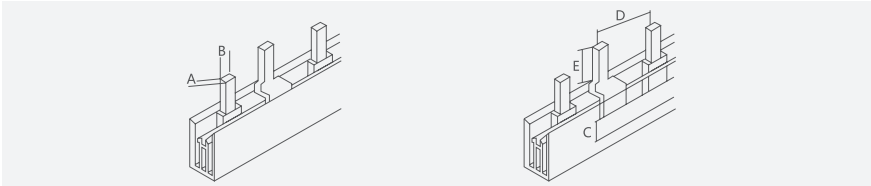
PIN 1P



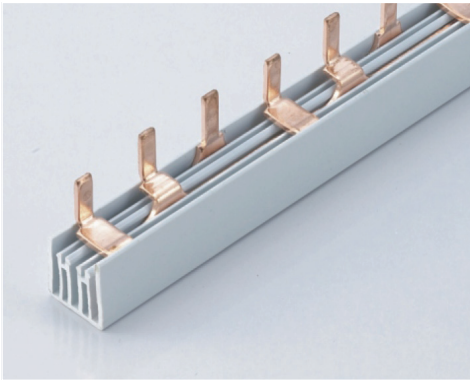
Specification	Model	A	B	C	D	E	Reference current
PIN	1P-63	1.4	4	7	17.8	11.5	63A
PIN	1P-80	1.5	4	9	17.8	11.5	80A
PIN	1P-100	1.7	4	9	17.8	11.5	100A



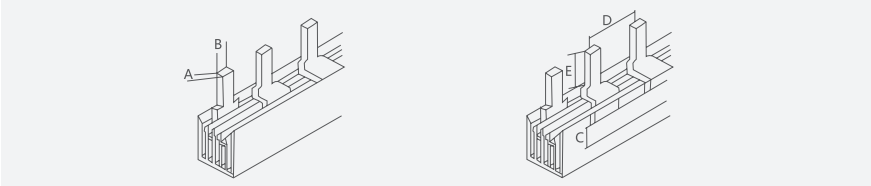
PIN 2P



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



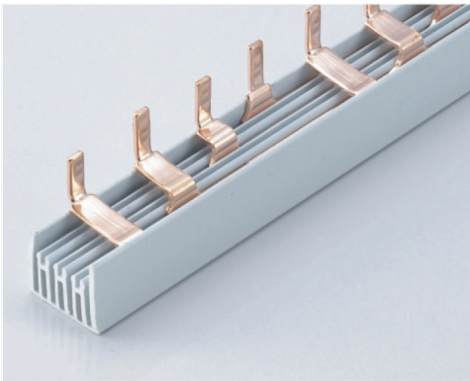
Specification	Model	A	B	C	D	E	Reference current
PIN	3P-63	1.4	4	7	17.8	11.5	63A
PIN	3P-80	1.5	4	9	17.8	11.5	80A
PIN	3P-100	1.8	4	9	17.8	11.5	100A

Final Distribution

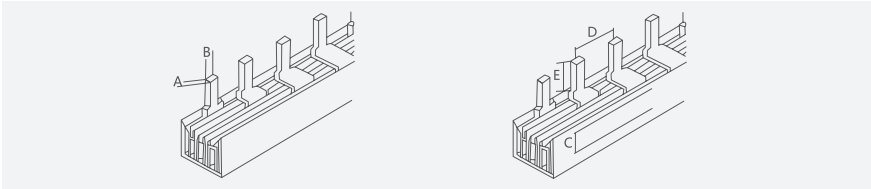
Busbar

Busbar Pin

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



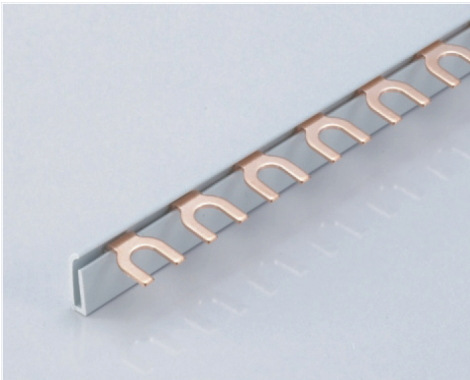
PIN 4P



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

Busbar Fork

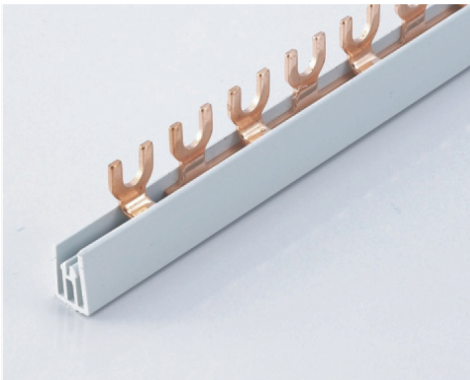
Material: Copper
Features: good conductivity, low contact resistance, safe and reliable performance.



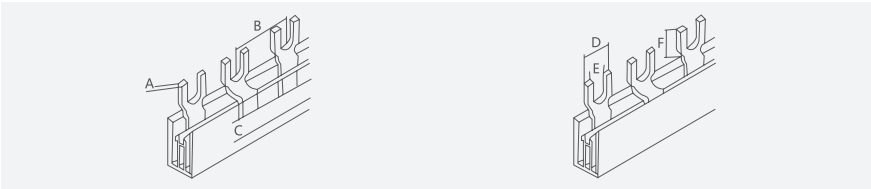
FORK 1P



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



FORK 2P



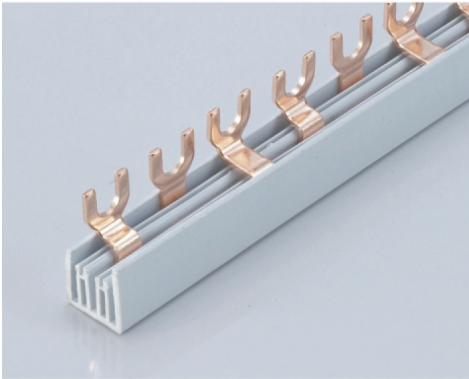
Specification	Model	A	B	C	D	E	F	Reference current
FORK	2P-63	1.4	17.8	7	12	6	12	63A
FORK	2P-80	1.5	17.8	9	12	6	12	80A
FORK	2P-100	1.8	17.8	9	12	6	12	100A

Final Distribution

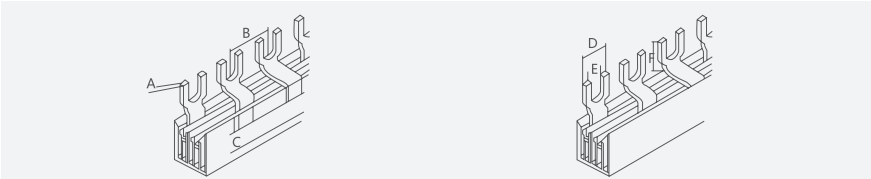
Busbar

Busbar Fork

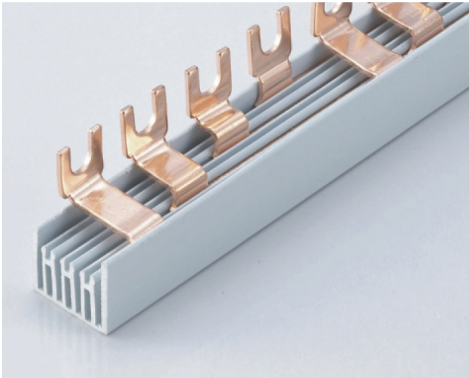
Material: Copper
Features: good conductivity, low contact resistance, safe and reliable performance.



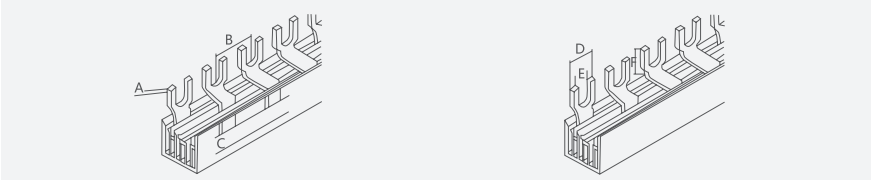
FORK 3P



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

Final Distribution

RT18L Low Voltage Fuse

A



RT18-32X



RT18-32

General

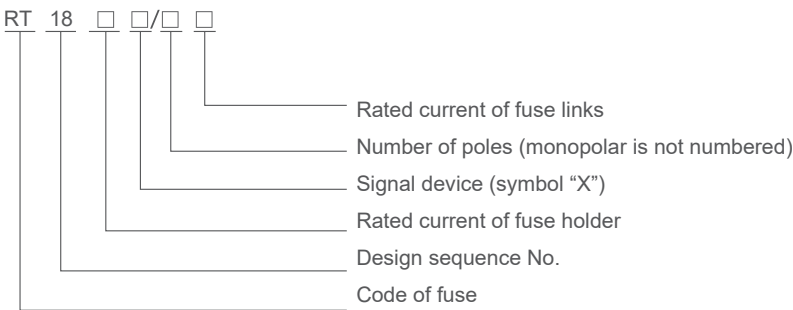
RT18 Cylindrical contact caps fuse protector is applicable to the distribution equipment with AC 50Hz, rated voltage of 690V and rated current not more than 125A for circuit overload and short-circuit protection (NT fuse protector is recommended to be used in capacitor box instead of this kind of fuse 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



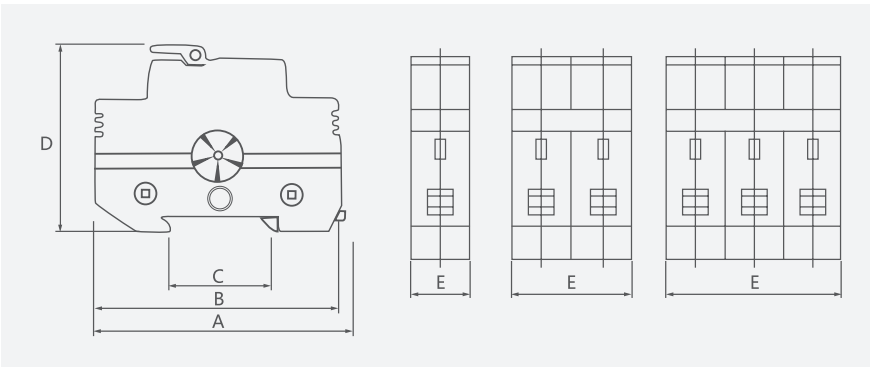
Technical data

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)



Final Distribution

RT18L Low Voltage Fuse

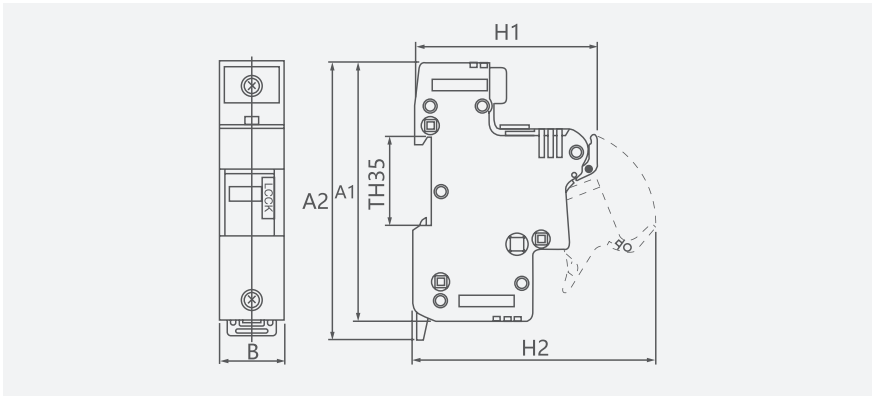


RT18L-125

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

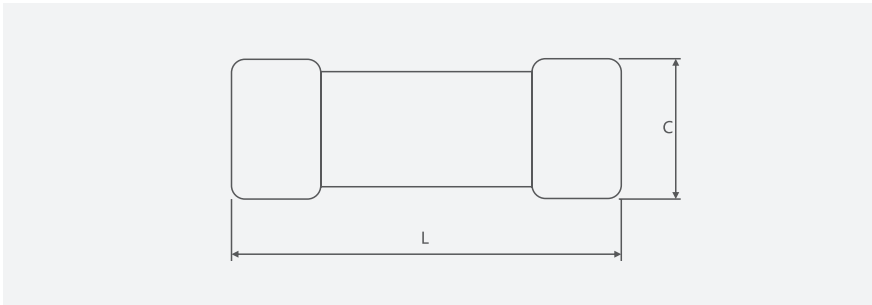
Fuse Link



Fuse Link

Dimension(mm)	Rated current (A)	Breaking capacity(kA)	L	ΦC
8.5x31.5	2,4,6,10,16	100	31.5 ^{±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 ^{±0.6} _{±10}	14.3±0.1
22x58	10,16,20,25,32,40,50,63,80,100		58 ^{±10} _{±20}	22.2±0.1
30x58	63,80,100,125		58 ^{±10} _{±20}	30±0.1

Overall and mounting dimensions(mm)



YCLP Plug-in Circuit Breaker

A



General

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

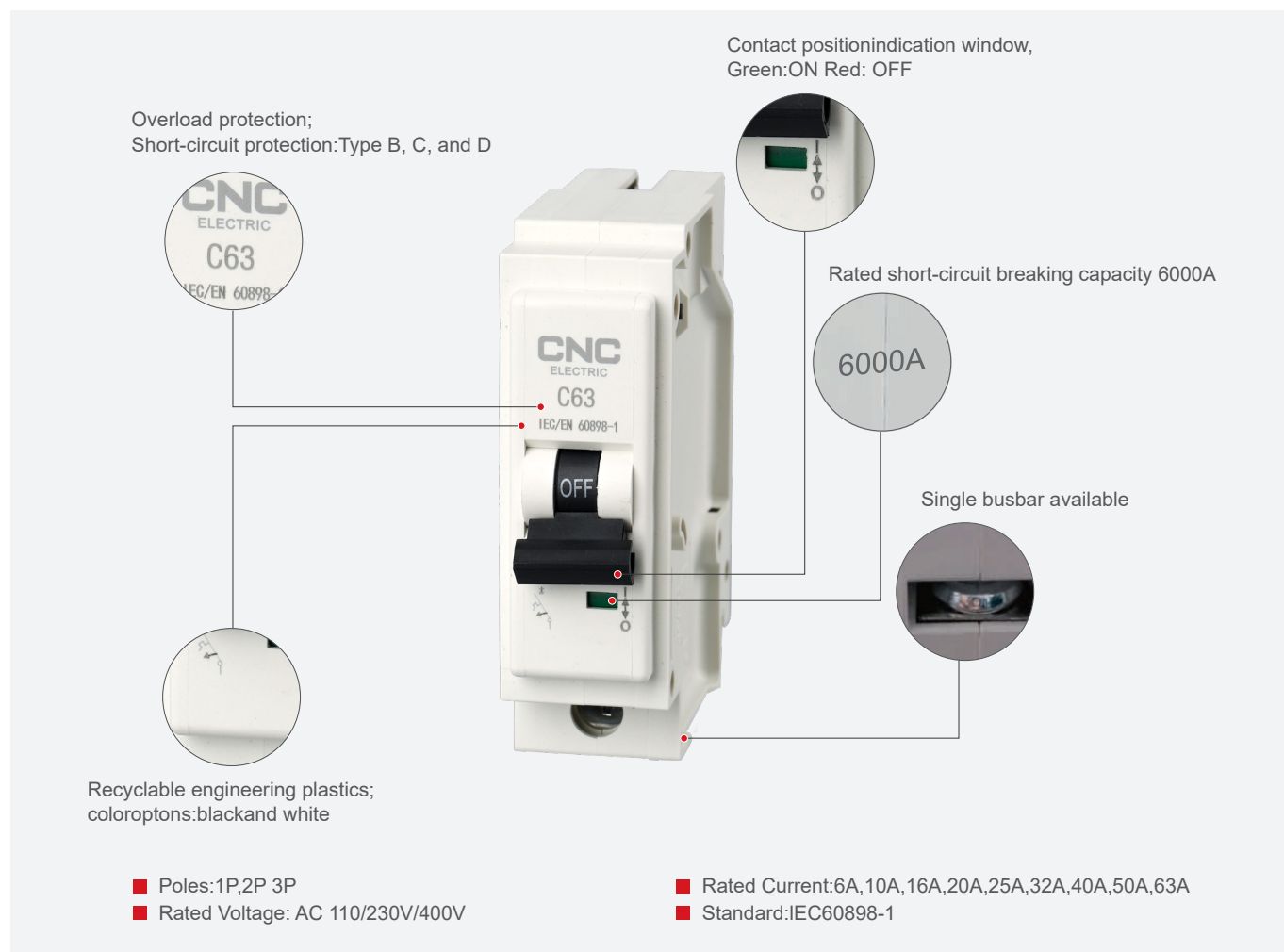
Standard: IEC60898-1

Technical data

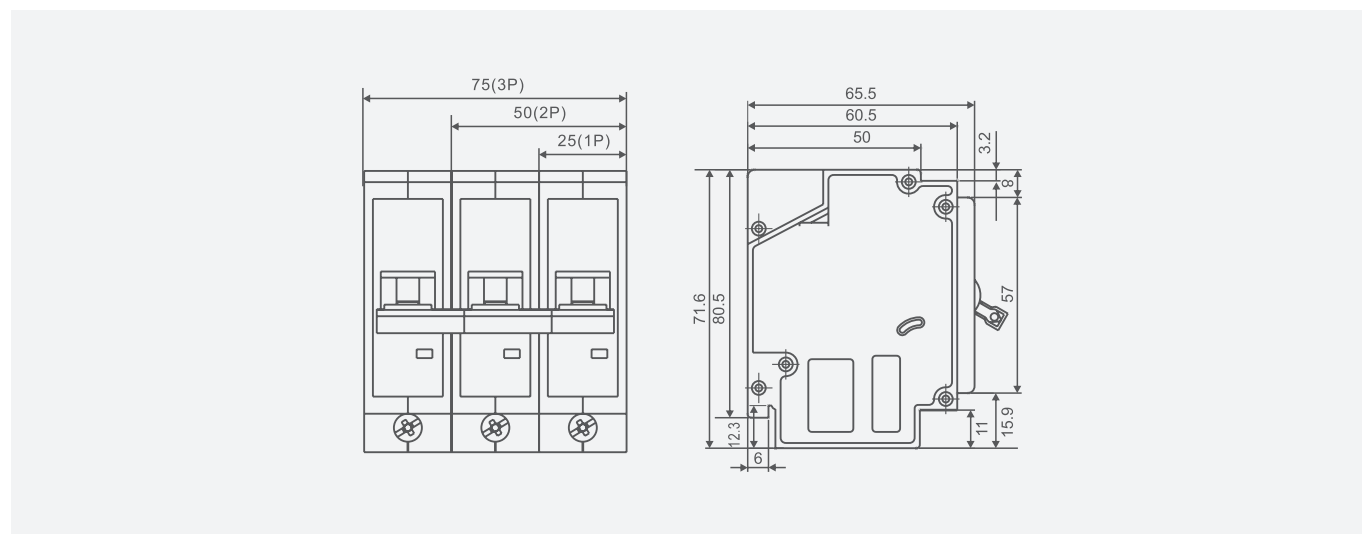
Type		YCLP		
Rated current I_n (A)		6, 10, 15, 20, 25, 30, 35, 40, 50, 63		
Poles		1	2	3
Rated insulation voltage U_i (AC V)		400		
Rated impulse-stand voltage U_{imp} (V)		4000		
Rated working voltage U_e (AC V)		230/400		
Frequency f (Hz)		50/60		
Rated limited short-circuit breaking capacity I_{cu}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

YCLP Plug-in Circuit Breaker

A



Overall and mounting dimensions(mm)



YCX4 Box Terminal Network

A



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.

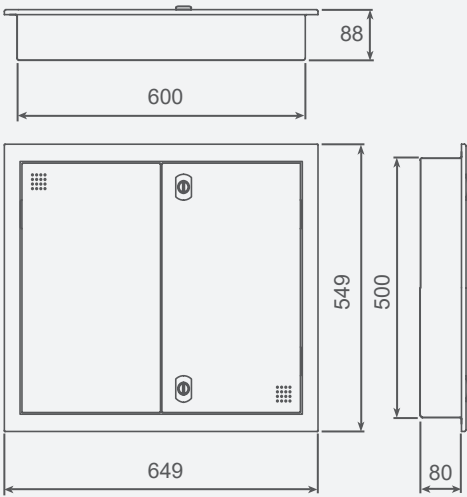
Features

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.

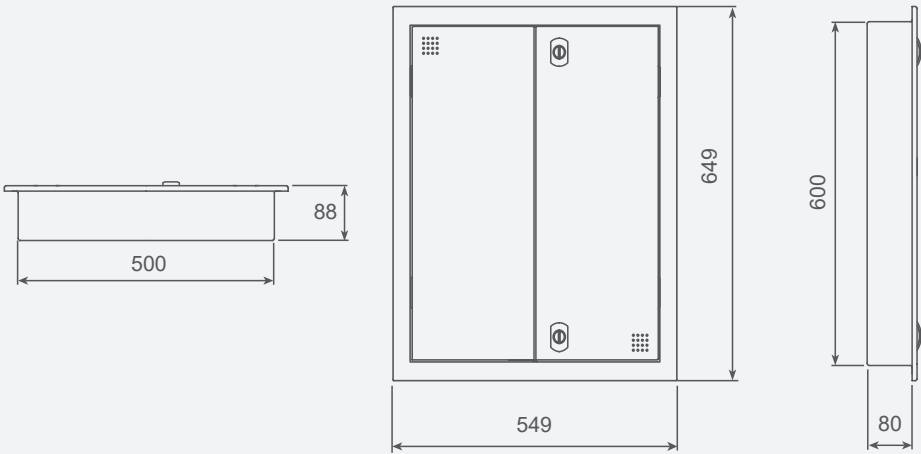
Final Distribution

YCX4 Box Terminal Network

Overall and mounting dimensions(mm)



YCX4-01

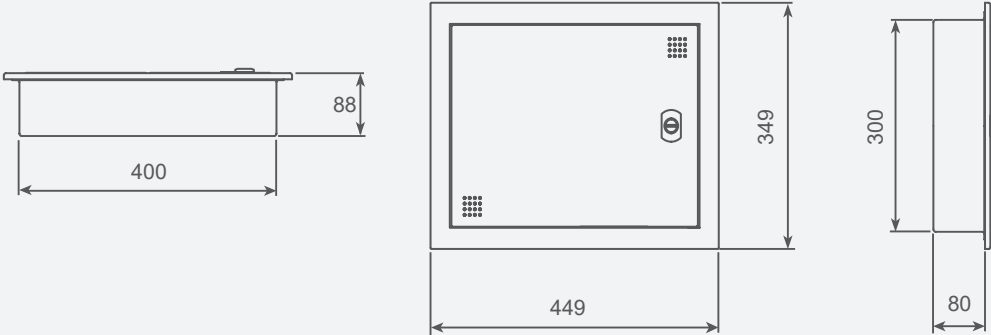


YCX4-02

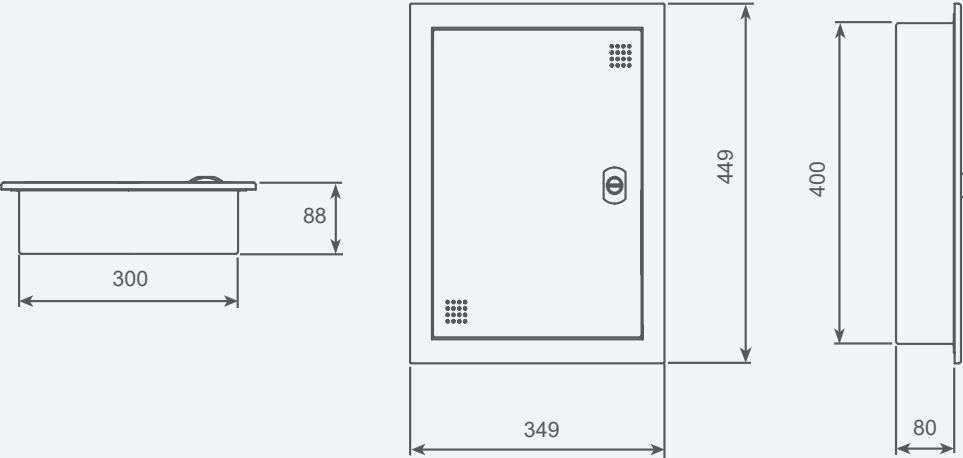
Final Distribution

YCX4 Box Terminal Network

A



YCX4-03



YCX4-04

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

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		
Frequency 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 shor circuit breaking capacity Ics=50%Icu

2.Standard: GB14048-2, IEC60947-2

A

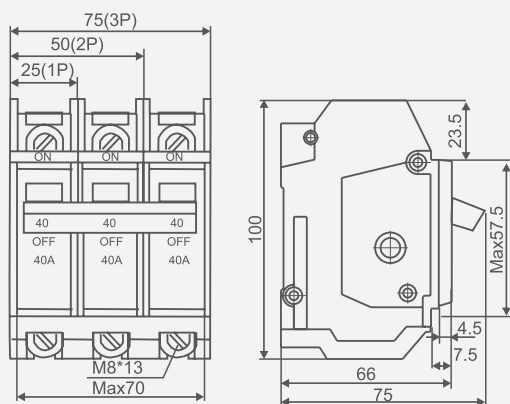
Final Distribution

THQC, THQL, TQL, THQP, THQD

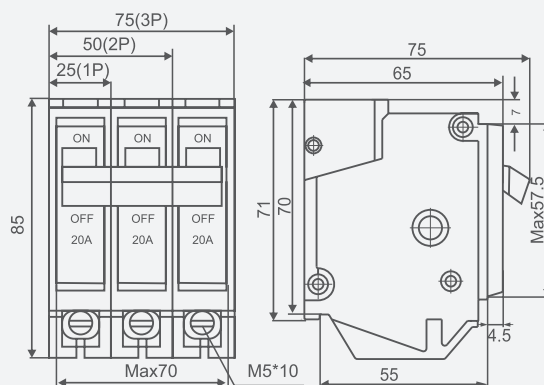
Overall and mounting dimensions(mm)

A

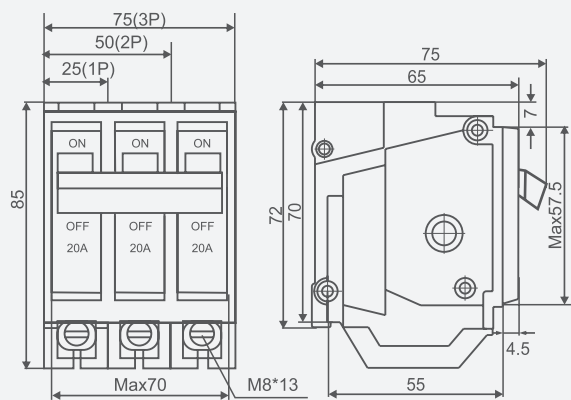
THQC



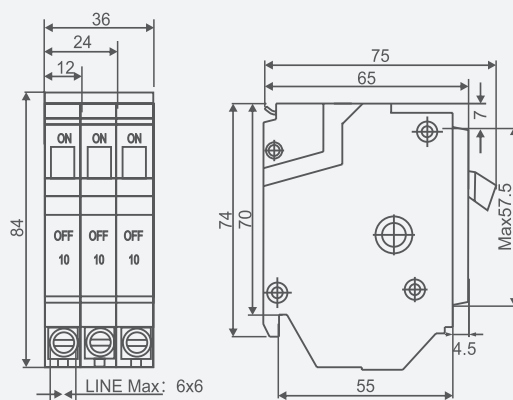
THQL



TQL



THQP



THQD

