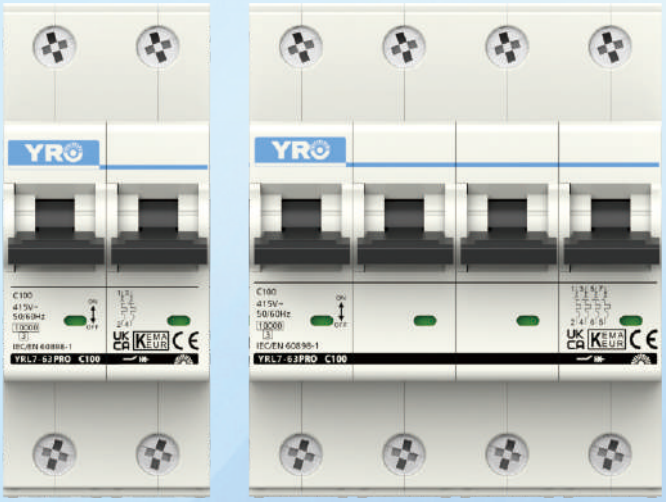
Residual Current Devices

YRL7-63 6kA SERIES
YRL7-63 PRO 10kA SERIES
AC Miniature Circuit Breaker



Application

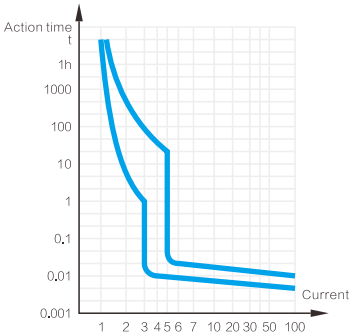
- IEC 60898 10kA
- MCB can 100% pass 10kA
- Over 20,000 cycles mechanical and electrical endurance operation

Technical Data

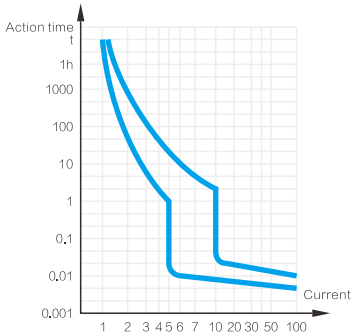
Electrical Features	
Rated current (In)	1-63A
Pole	1P 2P 3P 4P
Rated voltage (Ue)	1P: 240/415V~ 2/3/4P: 415~
Insulation voltage (Ui)	500V
Rated frequency	50/60Hz
Rated breaking capacity (Icn)	10kA
Rated operating short circuit breaking capacity (Ics)	7.5kA
Energy limiting class	3
Tripping curve	BCD
Electrical and Mechanical life	20000
Rated current	1:1A, 2:2A, 3:3A, 4:4A, 6:6A, 10:10A, 16:16A, 20:20A, 25:25A, 32:32A, 40:40A, 50:50A, 63:63A

Combination with accessories	
Auxillary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

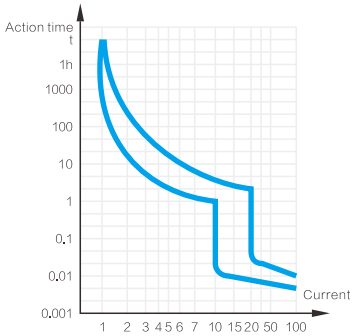
Tripping Characteristics



B curve



C curve



D curve

Overload Current Protection Characteristics						
Test Procedure	Type	Test Current	Initial State	Tripping or Non-tripping Time Limit	Expected Result	Remark
A	B C D	1.13In	Cold	t≤1h	no tripping	
B	B C D	1.45In	After test A	t≤1h	tripping	The current steadily rises to the specified value within 5s
C	B C D	2.55In	Cold	1s<t<60s(In≤32A), 1s<t<120s(In>32A)	tripping	
D	B	3In	Cold	t≤0.1s	no tripping	Turn on the auxiliary switch to close the current
	C	5In				
	D	10In				
E	B	5In	Cold	t≤0.1s	tripping	Turn on the auxiliary switch to close the current
	C	10In				
	D	20In				

Package Information					Storage
Current	Pole	Box	Carton		Products should be stored in the warehouse where there is ventilation. The relative humidity there should not exceed 80%, and the ambient temperature there is between -40℃ to + 85℃. In addition, there should not be acidic, alkaline and corrosive gas in the air.
63A/32A	1P	12	120		
	2P	6	60		
	3P	4	40		
	4P	3	30		

Reduction Coefficient

Altitude reduction coefficient				
Altitude (m)	2000	3000	4000	5000
Rated Current (In)	1	0.97	0.91	0.86
Rated Insulation (Ui)	1	0.90	0.82	0.76
Power-Frequency Dielectric Strength	1	0.90	0.82	0.76
Rated Impact Tolerance Voltage (Uimp)	1	0.90	0.82	0.76
Values Of Rated Shour-Circuit Capacity (Icn)	1	0.87	0.77	0.67
Electrical Life (Cycles)	1	0.87	0.77	0.67

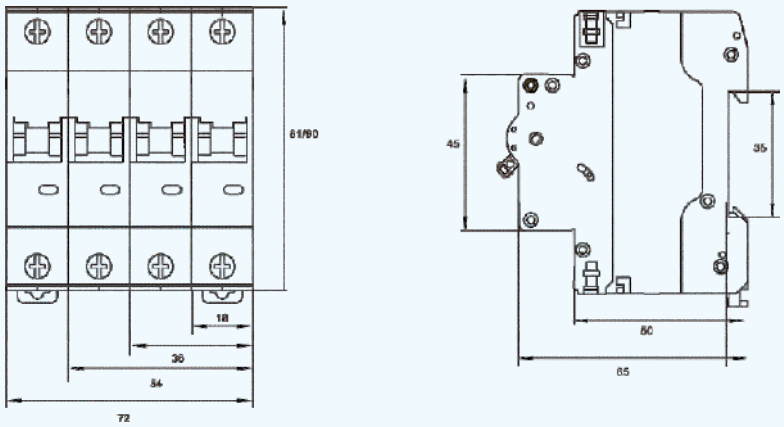
Temperature reduction coefficient																			
	-30℃	-25℃	-20℃	-15℃	-10℃	-5℃	0℃	5℃	10℃	15℃	20℃	25℃	30℃	35℃	40℃	45℃	50℃	55℃	60℃
16A	1.24	1.22	1.20	1.18	1.16	1.14	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.90	0 87	0.84	0.81
20A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.90	0.87	0.84	0.81
25A	1.24	1.22	1.20	1.18	1.16	1.14	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.90	0.87	0.85	0.82
32A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.04	1.02	1.00	1.00	1.00	1.00	0.91	0.88	0.85	0.78
40A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.91	0.88	0.85	0.82
50A	1.23	1.21	1.19	1.17	1.15	1.13	1.11	1.09	1.07	1.05	1.02	1.00	1.00	1.00	1.00	0.91	0.88	0.85	0.82
63A	1.27	1.25	1.22	1.20	1.18	1.15	1.13	1.11	1.08	1.05	0.87	1.00	1.00	1.00	1.00	0.88	0.85	0.82	0.78
80A	1.27	1.25	1.22	1.20	1.18	1.15	1.13	1.11	1.08	1.05	0.87	1.00	1.00	1.00	1.00	0.88	0.85	0.82	0.78

Installation

Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-5~+40℃ and its average over a period of 24h does not exceed +35℃
Storage temperature	-25~+ 70℃
Terminal connection type	Cable/U-type busbar/Pin -type busbar
Terminal size top/bottom for cable	25mm^2
Tightening torque	2.5N.m
Mounting	On DIN rail FN 60715 (35mm) by means of fast clip device
Connection	Top and bottom

Dimensions

Unit: mm



YRCB-63 SERIES
Miniature Circuit Breaker

CE

Technical Data

MCB	
Tripping Curve	B,C,D
Number of Poles	1234
Rated Current	6/10/16/20/25/32/40/50/63A
Rated Operation Voltage Ue	230AC for 1P;400AC for 2,3,4P
Rated Insulation Voltage Ui	415V
Rated Frequency	50/60Hz
Rated Impulse withstand Voltage Uimp	4kV

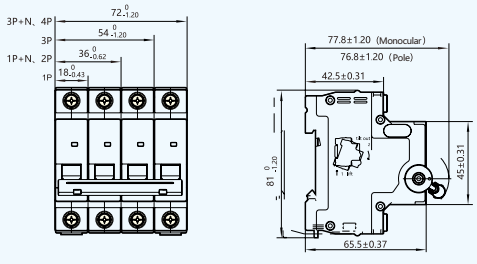
Technical Data	
Standard	IEC60898-1
Rated ultimate short-circuit breaking capacity	Icu(kA):6kA
Rated service short-circuit breaking capacity	Ics(kA):6kA
Type of release	Thermo-magnetic
Protection Index	IP20
Ambient Temperature	at 30℃

Rated Current In (A)	Each pole maximum power consumption (W)
In≤10	3
10<In≤16	3.5
16<In≤25	4.5
25<In≤32	6

Rated Current In (A)	Each pole maximum power consumption (W)
32<In≤40	7.5
40<In≤50	9
50<In≤63	13

Dimensions

Unit: mm



YRL7-63 WIFI SERIES
Circuit Breaker

CE

Overview

YRL7-63 WIFI series circuit breaker is an electrical terminal distribution device developed for smart and secure power consumption and energy management systems in buildings.

This product is an IoT circuit breaker that uses electronic technology to control the normal operation of traditional circuit breakers. It has functions such as remote opening and closing control, local mode selection, timed opening and closing settings, and energy metering.

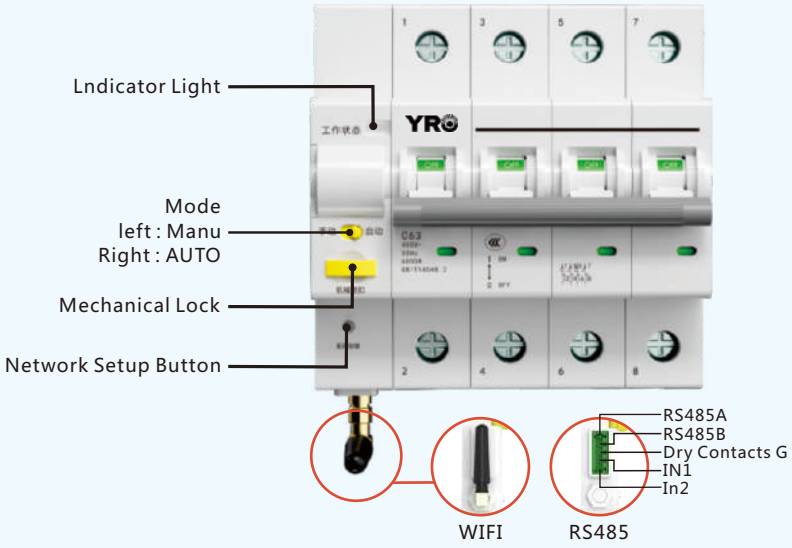
Functional Features

- Supports multiple control platforms such as YRO APP, Cloud Intelligent APP, RS485, WeChat Mini Program.
- Supports local or remote operation for turning on and off
- Supports DIN-rail mounting.
- Remote control without distance limitations.
- Supports customization of protection thresholds.
- Supports over/undervoltage, overcurrent, and overload protection.
- Supports automatic reclosing and customizable reclosing time configuration.

Technical Data

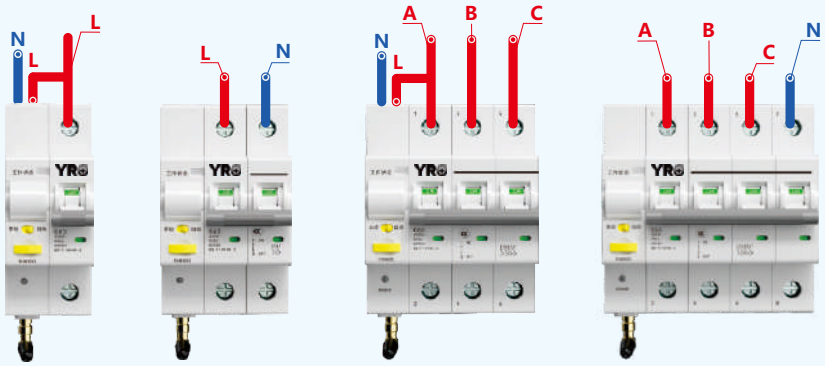
Poles	1P
Mounting poles	2P
Rated current	10A、16A、25A、32A、40A、50A、63A、80A 、100A
Rated corking voltage and frequency	220/230VAC 50Hz
Breaking capacity	6KA
Type	Type C. Type D
Standby power consumption	<3W
Communication	YRO WIFI / RS485
Tripping time	≤0.1
Short circuit time	≤0.048
International Standard	EN/IEC60898-1
Control mode	Integrated manualand automatic control
Installation requirements	The installation location's altitude shouldnot exceed 3000m
Temperature requirements	The lower limit of ambient air temperature should not be lower than-20℃, and the upper limit should not exceed +70℃
IP rating	IP20
Product size	98.5mm*36mm*50mm
Configurable parameters	Power statistics、Over-voltage protection、Over-current protection、Overload protection

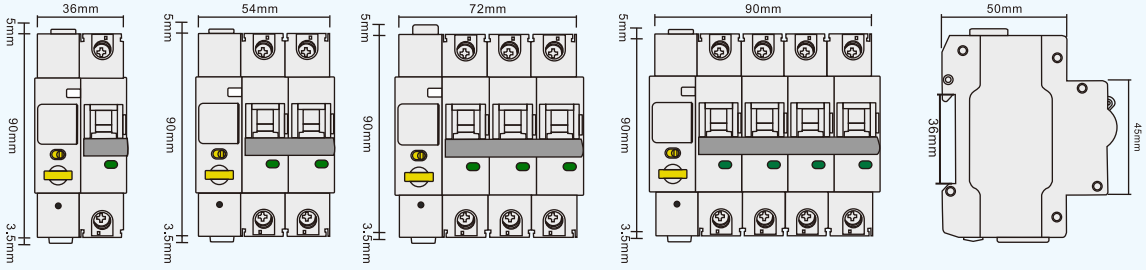
Panel Diagram



Wiring & Dimensional Diagram

Unit: mm





YRCB-40 WIFI SERIES
Intelligent Relay Switch

Overview

YRCB-40 WIFI series single-phase rail-mounted intelligent relay switch is a product that meetsusers' needs for circuit protection and control.

The product features functions such as metering, timing, fault protection, remote control, and local control.

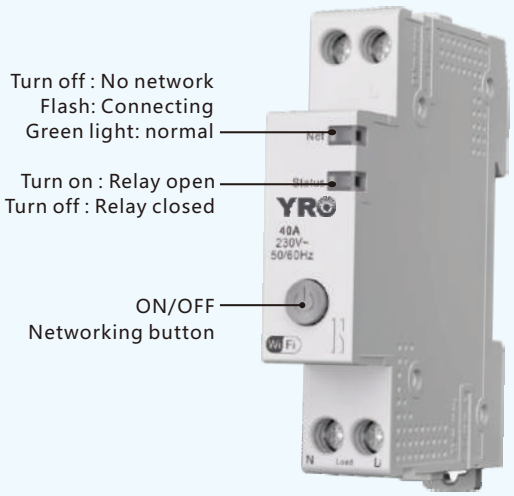
Functional Features

- Supports multiple control platforms such as YRO APP.
- Supports local or remote operation for turning on and off.
- Supports DIN-rail mounting.
- Remote control without distance limitations.
- Supports customization of protection thresholds.

Technical Data

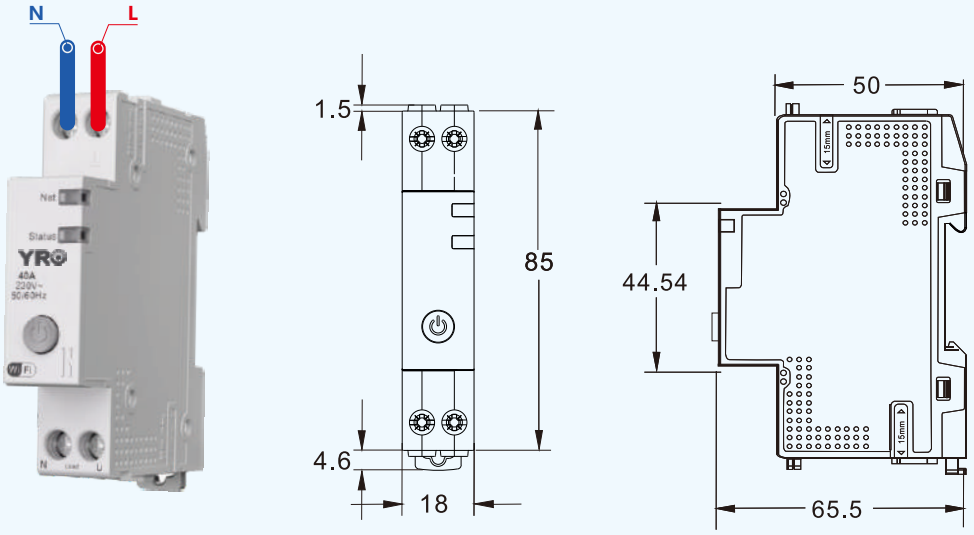
Reference voltage	220V、230V
Specified operating voltage	90% Un~110% Un
Extended operating voltage	80%Un~ Un~115% Un
Current specification	6-63A
Frequency range	(50-60) Hz
Power consumption	Voltage circuit:≤1.5W
Communication	YROW IFI
Operating temperature	-20℃ ~70℃
Operating humidity	≤95%
Dustproof and waterproof	I P 20
Product size	91.3mm*18mm*66.5mm
Measurement Accuracy	Voltage and current accuracy: 1%
	Energy accuracy: 2%
Overvoltage protection	Protection switch: overvoltage value; recovery value; judgment and recovery time.
Undervoltage protection	Protection switch: undervoltage value; recovery value; judgment and recovery time.
Overcurrent protection	Protection switch: overcurrent value; judgment time.
Overpower protection	Protection switch: over power value; judgment time.

Panel Diagram



Wiring & Dimensional Diagram

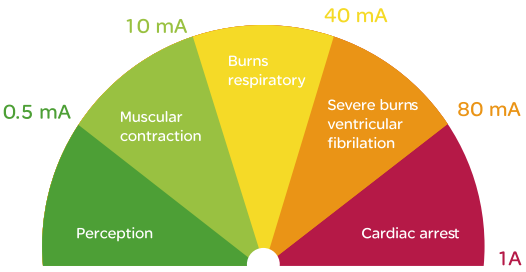
Unit: mm



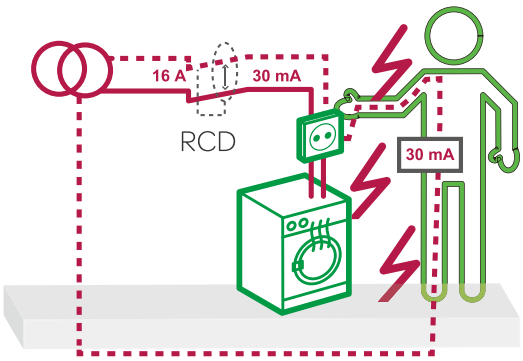
RCCB / RCBO SERIES
Residual Current Devices

Operating Principle

- Protection from electric shocks by direct contact:
- Protection of persons against electric shock by direct contact(30 mA).
- Protection of installations against the risk of fire (300 mA).
- Protection of persons against electric shock by indirect contact(100 mA to 300 mA).



Research worldwide shows that the intensity of current flowing through the body determines the extent and severity of an electric shock.

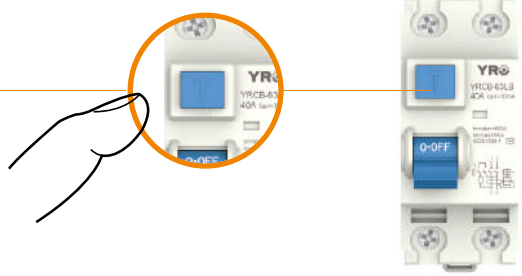


By measuring the intensity difference between live and neutral conductors, RCDs actually detect the current fowing through the human body. If this current reaches the 30 mA limit, the RCD trips within a few milliseconds, so preventing injury or worse.

- Injuries become serious when currents exceed 40mA to 50mA during one second.
- Theoretically, a 150 mA current fows through the body when a person touches a 230 V energised conductor under dry conditions.

Check RCDs regularly

Testing the RCD every 3 months enables detection of any event that may have impaired its operation



Selection

Residual current sensitivity

Protection from	Residential	Non-residential	Sensitivity
Electric shocks by direct contact			
	Mandatory protection for all socket outlets Mandatory protection for all electrical equipment in bathroom Recommended for lighting circuits	Mandatory protection for all socket outlets Mandatory protection for all equipement located Close to water points	30 mA 10 mA for all applications where required by the standard (e.g.: jacuzzi, swimming pools, etc.)
Fire ignited by leakage current			
	Recommended in old buildings (presence of dust or moisture)	Mandatory in all locations under risk of fire or explosion Recommended in all premises under presence of dust, moisture, chemical agents.	300 mA
Electric shock by indirect contact			
	All circuits in case of "TT" earthing system	All circuits in case of "TT" earthing system	100 mA or 300 mA

YRCB-63LB RCD SERIES
Residual Current Device

CE

Advantages

- The YRCB-63LB residual current device provide:
- Protection of persons against electric shock by direct contact (y 30mA)
- Protection of persons against electric shock by indirect contact (u 100mA)
- Protection of installations against the risk of fire (300mA or 500mA)

Technical Data

Main-Single phase	
Product or component type	Residual current
Device application	Distribution
Poles description	1P+N / 2P
Number of protected poles	2
Network type	AC,A
Rated residual operating current In(mA)	10,30,100,300,500
Rated frequency	50/60Hz
Rated aimpulse voithstand voltage (uimp)	6kV
Retad conditional residual short-circuit current I△C	6kA
Main-Triple phase	
Product or component type	Residual current
Device application	Distribution
Poles description	3P+N /4P
Number of protected poles	4
Network type	AC,A
Rated residual operating current In(mA)	10,30,100, 300,500
Rated frequency	50/60Hz
Rated aimpulse voithstand voltage (uimp)	6kV
Retad conditional residual short-circuit current I△C	6kA

Complementary	
Rated operational voltage Ue	110V/230V/240V AC Single Phase; 385V/400V AC Triple Phase
Control type	Toggle
Local signalling	ON/OFF indication
Mounting mode	Clip-on
Mounting support	DIN rail 35mm
Colour	Grey
Electro-mechanical endurance	≥20,000 cycles

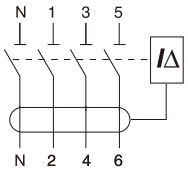
Environment	
Standards	IEC 61009-1, EC 61008-1, AS/NZS 61008-1
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-5°C to +60°°C
Ambient air temperature for storage	-40°°C to +85°°C

Connection			
Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule

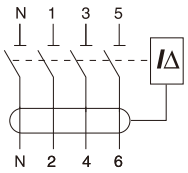
Catalogue numbers								
YRCB-63LB RCCB								Wiring diagram
TypeProduct	AC ~					Width in 9 mm module: 4		
Auxiliaries								
2P	Sensitivity	10mA	30mA	100mA	300mA	500mA		
	Rating	16A	25A	40A	63A	80A	10 0 A	
Voltage rating (Ue)	2P	110-240V						
Operating frequency		50/60Hz						

Catalogue numbers								
YRCB-63LB RCCB								Wiring diagram
TypeProduct	A ~					Width in 9 mm module: 4		
Auxiliaries								
2P	Sensitivity	10mA	30mA	100mA	300mA	500mA		
	Rating	16A	25A	40A	63A	80A	10 0 A	
Voltage rating (Ue)	2P	110-240V						
Operating frequency		50/60Hz						

Catalogue numbers							
YRCB-63LB RCCB							Wiring diagram
TypeProduct	AC				Width in 9 mm module: 8		
Auxiliaries							
4P	Sensitivity	10mA	30mA	100mA	300mA	500mA	
	Rating	25A	40A	63A	80A	100A	
Voltage rating (Ue)	4P	400-415V					
Operating frequency		50/60Hz					

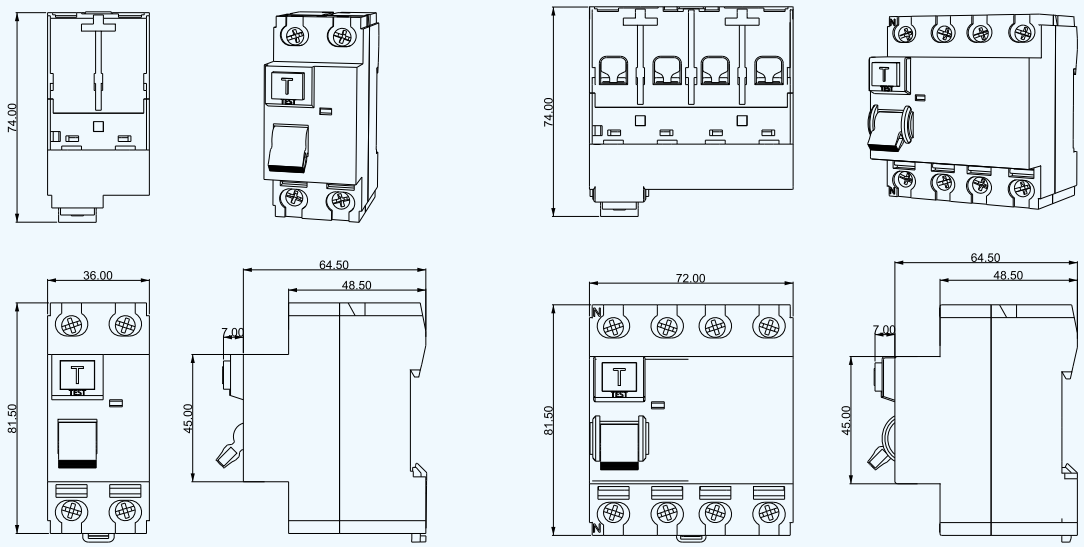


Catalogue numbers							
YRCB-63LB RCCB							Wiring diagram
TypeProduct	A				Width in 9 mm module: 8		
Auxiliaries							
4P	Sensitivity	10mA	30mA	100mA	300mA	500mA	
	Rating	25A	40A	63A	80A	100A	
Voltage rating (Ue)	4P	400-415V					
Operating frequency		50/60Hz					



Dimensions

Unit: mm



YRCB-63LB RCD SERIES
Residual Current Device (Type B)

CE

Advantages

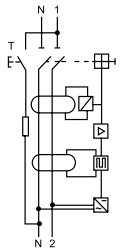
- Protection in the event of a continuous earth fault current on networks generated by:
- Controllers and variable speed drives
- Battery chargers and inverters, such as used in photovoltaic application
- Backed-up power supplies

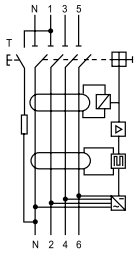
Technical Data

Main	
Product or component type	Residual current circuit breaker(RCCB)
Device application	Electrical vehicle charger, Solar energy system
Poles description	2P/4P
Network type	AC, Pulsting DC, Smooth DC
Earth-leakage sensitivity	30mA, 100mA-300mA
Earth-leakage protection class	Type B
Device location in system	Group incomer
Network frequency	50/60Hz
Rated breaking and making capacity	Im 630A Idm630A
Rated conditional short-circuit current	6kA
Rated insulation voltage Ui	2P 250V/4P 400V
Rated impulse withstand voltage Uimp	6kA
Contact position indicator	Yes
Control type	Toggle
Mounting mode	Clip-on
Mounting support	DIN rail
Colour	White
Mechanical durability	20000 cycles
Electrical durability	15000 cycles
Tightening torque	3.5N.m (top or bottom)

Environment	
Standards	EN 61008-1, IEC 61008-1, IEC/EN 62423
IP degree of protection	IP40 for modular enclosure conforming to IEC 60529 IP20 conforming to IEC 60529
Operating altitude	2000 m
Ambient air temperature for operation	-5°C to +60°°C
Ambient air temperature for storage	-40°°C to +85°°C

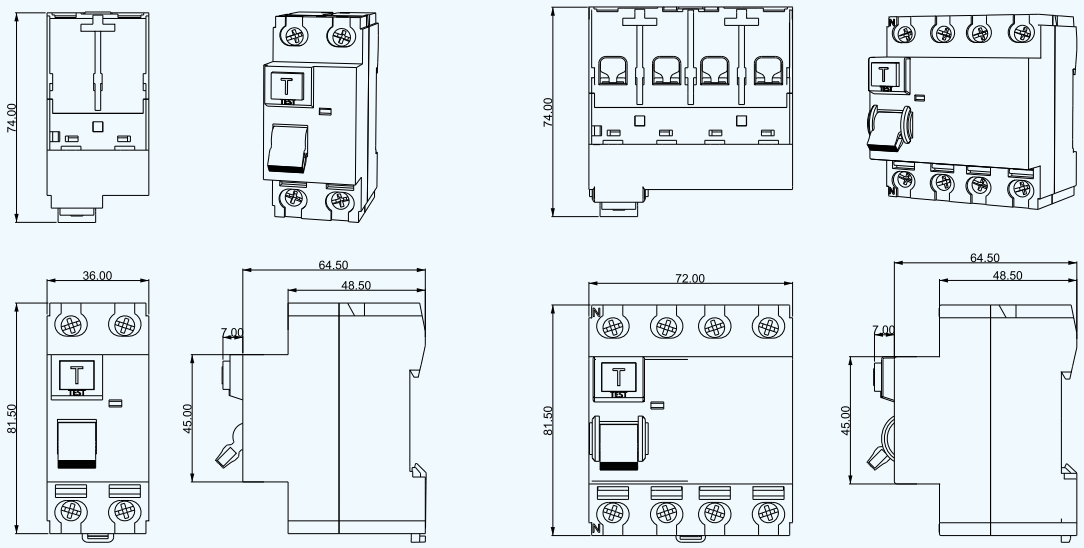
Connection			
Rating	Tightening torque	Copper cables	
		Rigid	Flexible or ferrule

Catalogue numbers						
YRCB-63LB RCCB						Wiring diagram
TypeProduct	B				Width in 9 mm module：4	
2P	Sensitivity	30mA	100mA	300mA	500mA	
	Rating	25A	40A	63A		
Voltage rating (Ue)	2P	230-240V				
Operating frequency		50Hz				

Catalogue numbers						
YRCB-63LB RCCB						Wiring diagram
TypeProduct	B				Width in 9 mm module：8	
4P	Sensitivity	30mA	100mA	300mA	500mA	
	Rating	25A	40A	63A		
Voltage rating (Ue)	4P	380-415V				
Operating frequency		50Hz				

Dimensions

Unit: mm



YRL7-63LE 6kA RCBO SERIES
YRL7-63LE RCBO SERIES

Residual Current Circuit Breaker With Overcurrent Protection

CE

Application

RCBO is mainly used in AC 50Hz(60Hz), rated voltage 230/400V, rated current 6A to 63A low voltage terminal distribution system. RCBO is equal with MCB+RCD function; It is used for electric shock protection and human indirect contact protection, electric equipment protection when human body touching electricity or electric network leak current exceeds stipulated value, and over load and short circuit protection; It can also be a non-frequency operator in the circuit, wildly used in the residential and commercial district. It complies with standard of IEC61009-1.

Technical Data

Electrical Features	
Mode	Electronic/ Electromagnetic
Type	A/AC/B
Tripping curve	BCD
Pole No.	2P/4P 1P+N 3P+N
Rated current	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A
Rated voltage	230/400V~
Rated frequency	50/60Hz
Rated residual operating current(I▵n)	30mA, 100mA, 300mA
Residual operating current range	0.5 I▵n~I▵n
Rated conditional short-circuit current(Inc)	6000A / 10000A
Energy limiting	class 3
Electrical and Mechanical life	20000

Installation	
Fault current indicator window	Yes
Protection degree	IP20
Ambient temperature	-5~+40°C and its average over aperiod of 24h does not exceed +35°C
Storage temperature	-25~+70°C

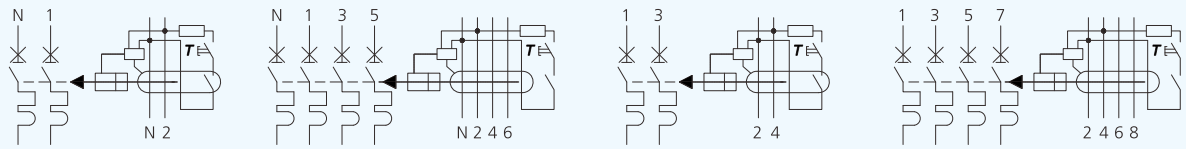
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top for cable	25mm^2
Tightening torque	2.5N.m
Mounting	On DIN rail FN 60715 (35mm)
Connection	Top and bottom

Overload Current Protection Characteristics						
Test Procedure	Type	Test Current	Initial State	Tripping or Non-tripping Time Limit	Expected Result	Remark
A	B C D	1.13In	Cold	t≤1h	no tripping	
B	B C D	1.45In	After test A	t≤1h	tripping	The current steadily rises to the specified value within 5s
C	B C D	2.55In	Cold	1s<t<60s	tripping	
D	B	3In	Cold	t≤0.1s	no tripping	Turn on the auxiliary switch to close the current
	C	5In				
	D	10In				
E	B	5In	Cold	t≤0.1s	tripping	Turn on the auxiliary switch to close the current
	C	10In				
	D	20In				

Residual Current Operating Breaking Time							
Type	In/A	I△n/A	Residual Current(I△)Is Corresponding To The Following Breaking Time(S)				
AC Type	Any value	Any value	In	2In	5In	5A, 10A, 20A, 50A, 100A, 200A, 500A	
AC Type		>0.01	1.4In	2.8In	7In		
			0.3	0.15	0.04	0.04	Max breaking time

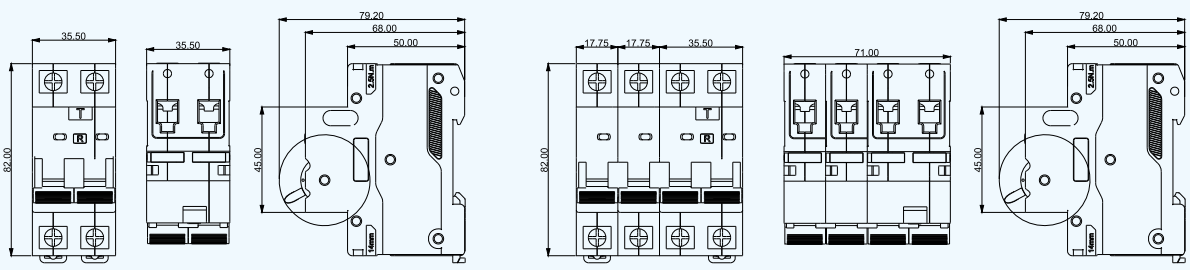
The general type RCBO whose current I△n is 0.03mA or less can use 0.25A instead of 5I△n.

Wiring diagram



Dimensions

Unit: mm



2P 4P

YRL7-63LE 10kA RCBO SERIES

Residual Current Circuit Breaker With Overcurrent Protection

CE

Application

The YRL7-63LE series small leakage circuit breaker is suitable for distribution lines with a rated frequency of 50Hz, a rated working voltage of AC240/AC400V, and a rated working current of 63A and below. When a person is electrocuted or the leakage current of the power grid exceeds the specified value, the leakage circuit breaker can quickly cut off the faulty power supply in a very short time, protecting the safety of person and electrical equipment.
Compliance standards: GB/T16917.1, IEC61009-1.

YRL7-63LE series small residual current circuit breaker is advanced in structure, reliable in performance and compact in size. Its shell is made of impact resistant and high flame retardant materials. The YRL7-63LE series small leakage circuit breaker has overload, short circuit, and leakage protection functions, mainly used for overload, short circuit, and leakage protection of lighting, distribution lines, and equipment in office buildings, residential buildings, and similar buildings. It can also be used for infrequent switching and starting of lines under normal circumstances.

Technical Data

Electrical Features	
Rated frame current	63A
Compliant with standards	GB/T16917.1，IEC 61009-1
Rated current A	1A，2A，3A，4A，6A，10A，16A，20A，25A，32A，40A，50A，63A
Rated voltage	AC240/AC400V（1P+N），AC400V（3P+N）
Tripping curve	B（3-5In），C（5-10In），D（10-20In）
Number of poles	1P+N，3P+N
Unipolar width	18mm
Rated residual operating current	10，30，100，300mA
Ui/Rated insulation voltage Ui	500V
Rated impulse withstand voltage Uimp	4kV
Rated breaking capacity	10kA
Mechanical life	20000
Electrical life	4000

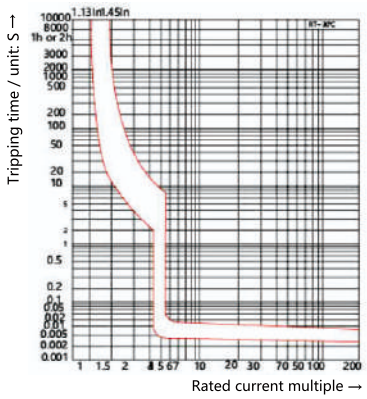
Working and installation conditions

- Environmental temperature (daily average temperature < 35℃): -5℃ ~ +40℃
- Storage temperature:-25℃ ~ +70℃
- Protection level: IP20
- Wiring capacity: 25mm^2
- Wiring torque: 2.5N.m
- Installation method: DIN rail installation EN60715 (35mm)
- Wiring method: both upper and lower incoming lines are acceptable
- Pollution level: 2

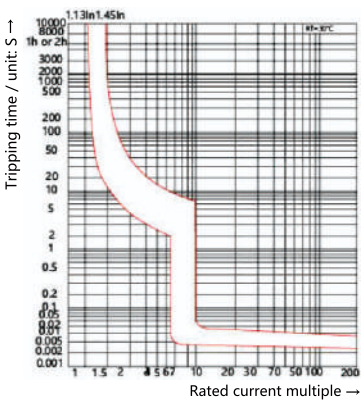
Product tripping characteristics

Rated current(A)	Overload tripping characteristics		Instantaneous tripping characteristics(A)	Rated residual Action currenttime H (hot state)
	1.13In agreed non tripping time H (cold state)	1.45In agreed tripping time H (hot state)		
In ⩽ 63	1	1	B(3-5In),C(5-10In) D(10-20In)	10,30,100,300mA
In > 63	2	2		

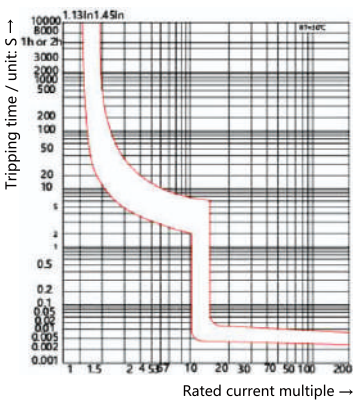
Release curve diagram



B Curve 3.5In-4.5In



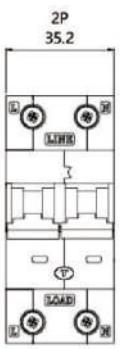
C Curve 5.5In-9.5In

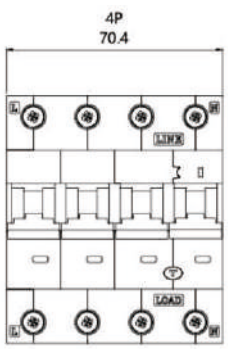


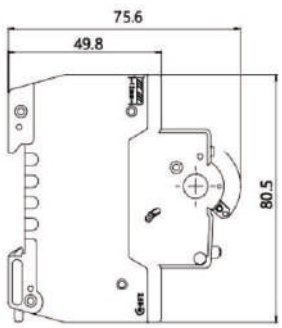
D Curve10.5In-14.5In

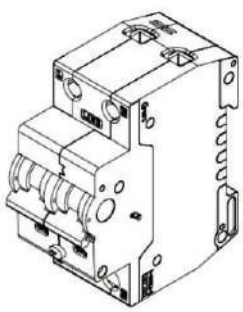
Dimensions

Unit: mm









YRL7-125LE 6kA RCBO SERIES

Residual Current Circuit Breaker
With Overcurrent Protection

Application

The YRL7-125LE series small leakage circuit breaker is suitable for distribution lines with a rated frequency of 50Hz, a rated working voltage of AC240/AC400V, and a rated working current of 125A and below. When a person is electrocuted or the leakage current of the power grid exceeds the specified value, the leakage circuit breaker can quickly cut off the faulty power supply in a very short time, protecting the safety of person and electrical equipment.
Compliance standards: GB/T16917.1, IEC61009-1.

YRL7-125LE series small residual current circuit breaker is advanced in structure, reliable in performance and compact in size. Its shell is made of impact resistant and high flame retardant materials. The YRL7-125LE series small leakage circuit breaker has overload, short circuit, and leakage protection functions, mainly used for overload, short circuit, and leakage protection of lighting, distribution lines, and equipment in office buildings, residential buildings, and similar buildings. It can also be used for infrequent switching and starting of lines under normal circumstances.

Technical Data

Electrical Features	
Rated frame current	125A
Compliant with standards	GB/T16917.1，IEC 61009-1
Rated current A	63A-125A
Rated voltage	AC240/AC400V（1P+N），AC400V（3P+N）
Tripping curve	B（3-5In），C（5-10In），D（10-20In）
Number of poles	1P+N，3P+N
Unipolar width	18mm
Rated residual operating current	10，30，100，300mA
Ui/Rated insulation voltage Ui	500V
Rated impulse withstand voltage Uimp	4kV
Rated breaking capacity	6kA
Mechanical life	20000
Electrical life	4000

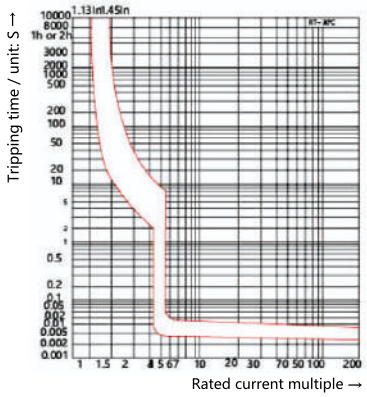
Working and installation conditions

- Environmental temperature (daily average temperature < 35℃): -5℃ ~ +40℃
- Storage temperature:-25℃ ~ +70℃
- Protection level: IP20
- Wiring capacity: 25mm²
- Wiring torque: 2.5N.m
- Installation method: DIN rail installation EN60715 (35mm)
- Wiring method: both upper and lower incoming lines are acceptable
- Pollution level: 2

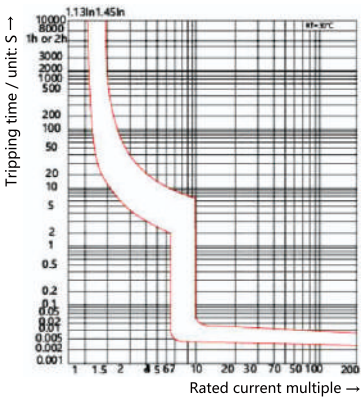
Product tripping characteristics

Rated current(A)	Overload tripping characteristics		Instantaneous tripping characteristics(A)	Rated residual Action currenttime H (hot state)
	1.13In agreed non tripping time H (cold state)	1.45In agreed tripping time H (hot state)		
In ⩽ 125	1	1	B(3-5In),C(5-10In) D(10-20In)	10,30,100,300mA
In > 125	2	2		

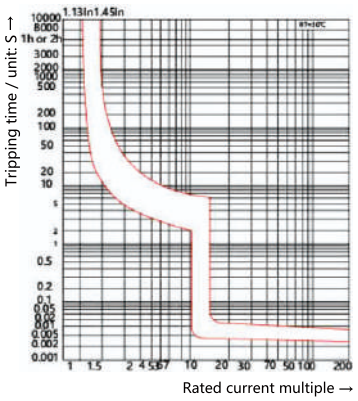
Release curve diagram



B Curve 3.5In-4.5In



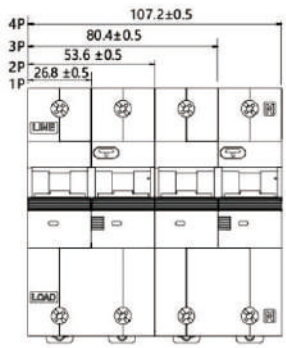
C Curve 5.5In-9.5In

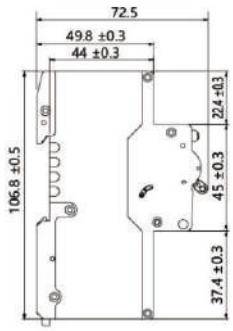


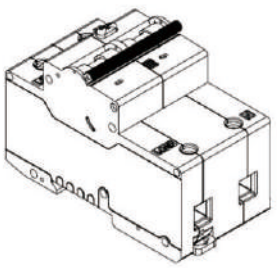
D Curve10.5In-14.5In

Dimensions

Unit: mm

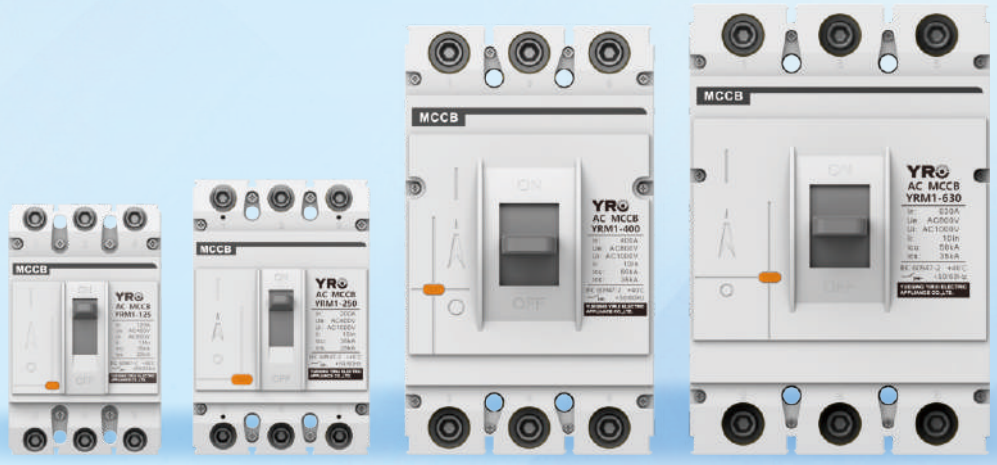






AC Mold Case Circuit Breaker

YRM1 SERIES
AC Mold Case Circuit Breaker



Application

The YRM1 series plastic shell-type circuit breaker (hereinafter referred to as a circuit breaker) is one of the new type of circuit breakers used in international advanced design, manufacturing technology development and development. Its rated insulation voltage is 1000V (YRM1-63 is 800V). AC 50/60Hz, the rated operating voltage of 400/800V and below, and the rated working current to 1250A is used to make non -frequent conversion and the motor does not frequently start. The circuit breaker has the function of overloading, short circuit and voltage protection, and can protect the lines and power equipment from being damaged.

The circuit breaker is divided into S -shaped (standard type) and H (high division) according to the height of its rated limit short -circuit capacity (ICU). This broken circuit has the characteristics of small volume, high separation capacity, short arc distance, short vibration resistance and other characteristics. It is an ideal product used in land and ships.

- This broken circuit can be installed vertically (ie, vertical), or can be installed horizontally (ie, horizontal installation).
- This broken circuit can not be poured into the wire, that is, only 1, 3, and 5 can be connected to the source line, and the negative carrier of 2, 4, and 6 can be connected.
- This broken circuit has an isolation function. The symbol is marked:
- This product meets IEC60947-2, GB14048.2 standards.

Normal use environment

- The altitude is 2000m and below;
- The temperature of the surrounding medium is not higher than +40℃ (the ship's product is +45℃) and not less than -5℃;
- Pollution level 3;
- Can tolerate the effects of humid air;
- Can tolerate the effects of salt fog and oily mist;
- Can tolerate the impact of mold;
- The maximum tilt is ± 22.5 °;
- It can work reliably when the ship is vibrated normally;
- In the case of earthquake (4G), it can work reliably;
- In a medium without explosive hazards, the medium is not enough to corrode the metal and the excessive gas and conductive dust;
- There is no place for rain and snow.

Deep deduction method and accessories code

□ Alarm ■ Auxiliary ● Split deck
○ Walled voltage offerler → Direction

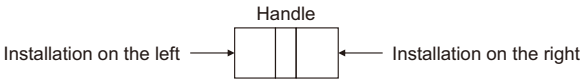


Table 1: Dispayer method and attachment code

Attachment number	Annex / Model / Poles	YRM1-63 YRM1-125		YRM1-250 YRM1-400		YRM1-630 YRM1-800		YRM1-1250	
		3	4	3	4	3	4	3	4
208,308	Alarm								
210,310	Split deck								
220,320	Auxiliary								
230,330	Walled voltage offerler								
240,340	Divide deedr, auxiliary contact								
250,350	Dividection device, owed voltage offerler								
260,360	The second group auxiliary contact								
270,370	Auxiliary contact, owed voltage offerler								
218,318	Divide deedr and alarm contact								
228,328	Auxiliary contact, alarm contact								
238,338	Owatr voltage offerrier, alarm contact								
248,348	Dividection deserter, auxiliary contact, alarm contact								
268,368	The second group auxiliary contact, alarm contact								
278,378	Auxiliary contact, owed voltage offerrs, alarm contact								

Note:
1. 200: It means the circuit breaker body with only an electromagnetic deedr, 300: It means the circuit breaker body with a thermal electromagnetic deedr; 000: the circuit breaker body of the deduction and the attachment in the table without the deduction device and the attachment in the table.
2. There are 210, 310, 220, 320, 230, 330, and 330 diodes for YRM1-125, 225 and 250. 248, 348, N extremely A and D types are 240, 340, 260, 360, 268, 368.
3. For YRM1-400, 630, and YRM1-800, the auxiliary contacts in 220, 230, 240, 340, 270, and 370 can be used for two pairs (both two times and two times). The circuit breaker thermal electromagnetic deedr has a reverse time limit; the electromagnetic deedr is instantaneous movement. The characteristics are shown in Table II (distribution) and Table III (for protection motor)

Table 2: Router disconnect movement characteristics (for power distribution protection)

Rated current of the deduction (A)	Environmental temperature of thermagnetic deduction (land for land +40 ℃/ship +45℃)		Electromagnetic deedr action current (A)
	1.05In (Cold State) No action time (h)	1.30in (Hot State) Action Time (H)	
In≤ 63	≥1	<1	10In±20%
In > 63	≥2	<2	
630 < In≤ 1250	≥2	<2	10In±20% 5In±20%

Table 3: Riter action characteristics (for electric motor protection)

Rated current of the deduction (A)	Environmental temperature of thermagnetic deduction (land for land +40 ℃/ship +45℃)				Electromagnetic deedr action current (A)
	1.0In (Cold State) No action time (h)	1.20In (hot) action time (H)	1.50In (hot) action time (H)	7.2In (Cold) No action time (h)	
In≤ 225	≥2	≥2	< 4min	4s<Tp≤10s	12In±20%
225 < In≤ 630			< 8min	6s<Tp≤20s	

Note: 100A in YRM1-225, no 5LN electromagnetic deduction in 125A specifications.

Technical Data

Model	Rated current of the shell rack (A)	Rated current (A)	Rated voltage (V)	Rated limit short -circuit division capacity Icu (KA)		Rated running short -circuit division capacity ICS (KA)		Flying arc distance (mm)
				400/415V	690/800V	400/415V	690/800V	
YRM1-63L	63	(6)、10、16 20、25、32 40、50、63	800	35	/	25	/	≤50
YRM1-63M				50	/	35	/	
YRM1-63H				85	/	65	/	
YRM1-125L	125	10、16、20 25、32、40 50、63、80 100	800	35	/	25	/	
YRM1-125M				50	25	35	15	
YRM1-125H				85	/	65	/	
YRM1-250L	250	100、125 140、160 180、200 225、250	1000	35	/25	25	/	
YRM1-250M				65	/	50	15	
YRM1-250H				100	/	65	/	
YRM1-400L	400	225、250 315、350 400	1000	50	35	35	/	≤100
YRM1-400M				65	/	50	20	
YRM1-400H				100	/	65	/	
YRM1-630L	630	400、500 630	1000	50	35	35	/	
YRM1-630M				65	/	50	20	
YRM1-630H				/	/	/	/	
YRM1-800L	800	630、700 800	1000	50	35	35	/	
YRM1-800M				75	/	50	20	
YRM1-800H				100	/	65	/	
YRM1-1250L	1250	800、1000 1250	1000	50	35	35	/	
YRM1-1250M				85	/	65	25	
YRM1-1250H				100	/	75	/	

Note: 6A in YRM1-63 has no overload protection.
1. According to the product, it is divided into two poles (100A, 225A), three poles and four poles.
Four types of the neutral (N pole) of the four poles products are divided into four types:
Type A: N pole does not install the current off -current, and the N pole is always connected, and it is not combined with other tritinals;
Type B: N pole is not installed with current off -current, and n poles are divided with other tritinal (N pole first combined and then divided);
Type C: N pole installed overclapseter Division (n pole first combination and then division);
Type D: N pole installation over current The deduction, and the N pole is always connected, and it is not integrated with other tritinals.
2. Press the rated current division:
YRM1-63 is (6), 10, 16, 20, 25, 32, 40, 50, 63A level 9 (6A specifications without overload protection);
YRM1-125 is (10), 16, 20, 25, 32, 40 , 50, 63, 80, 125A level 10;
YRM1-225 is 100, 125, 140, 160, 180, 200, 225A level 7;
YRM1-250 is 250 level 1;
YRM1-400 is 225, 250, 315, 350 , 400A level 5;
YRM1-630 is 400, 500, 630A level 3;
YRM1-800 is 630, 700, 800A level 3; [belt () is not recommended specifications]
YRM1-1250 is 800, 1000, and 1250A level 3.
The wiring method is divided into three types: front wiring, panel rear wiring, and inserted wiring.
Press the current off-current deprivor type division of heat-electromagnetic (duplex) type and electromagnetic (instantaneous) type.
There are two types of accessories and accessories with an attachment and no attachment.

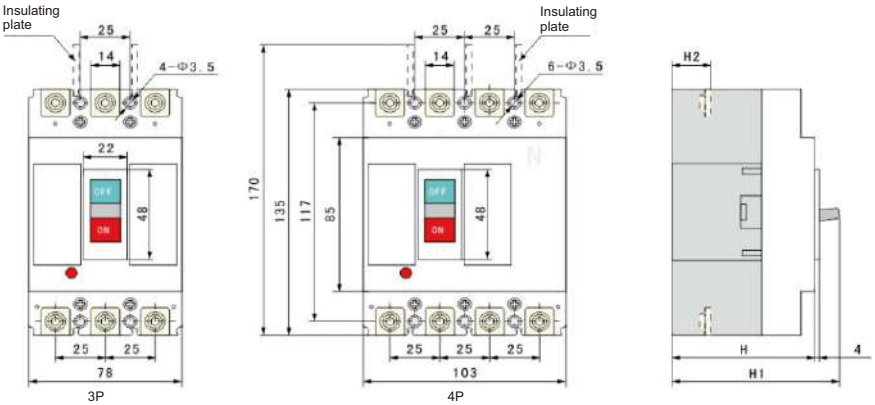
Decline coefficient of ambient temperature changes

Temperature / Coefficient / Model	+40℃ (ship for ship+45℃)	+45℃ (ship for ship+50℃)	+50℃ (ship for ship+55℃)	+55℃ (ship for ship+60℃)	+60℃ (ship for ship+65℃)
	Reducing coefficient	Reducing coefficient	Reducing coefficient	Reducing coefficient	Reducing coefficient
YRM1-63(L、M、H)	1In	0.94In	0.88In	0.80In	0.72In
YRM1-100(L、M、H)	1In	0.94In	0.89In	0.84In	0.76In
YRM1-225(L、M、H)	1In	0.94In	0.93In	0.90In	0.86In
YRM1-250(L、M、H)	1In	0.94In	0.91In	0.87In	0.82In
YRM1-400(L、M、H)	1In	0.94In	0.87In	0.81In	0.73In
YRM1-630(L、M、H)	1In	0.94In	0.88In	0.83In	0.76In
YRM1-800(L、M、H)	1In	0.94In	0.83In	0.79In	0.76In
YRM1-1250(L、M、H)	1In	0.94In	0.8In	0.7In	0.7In

Outline and installation dimensions

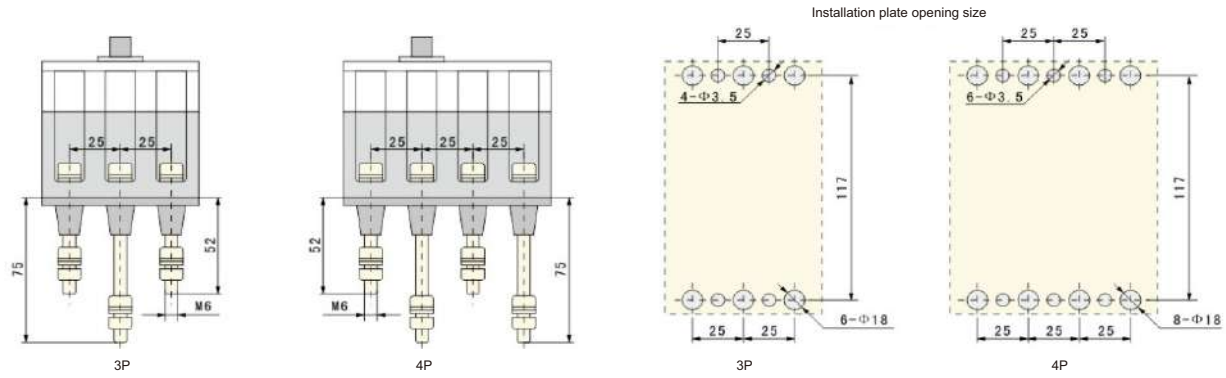
YRM1-63 Unit: mm

Front wiring

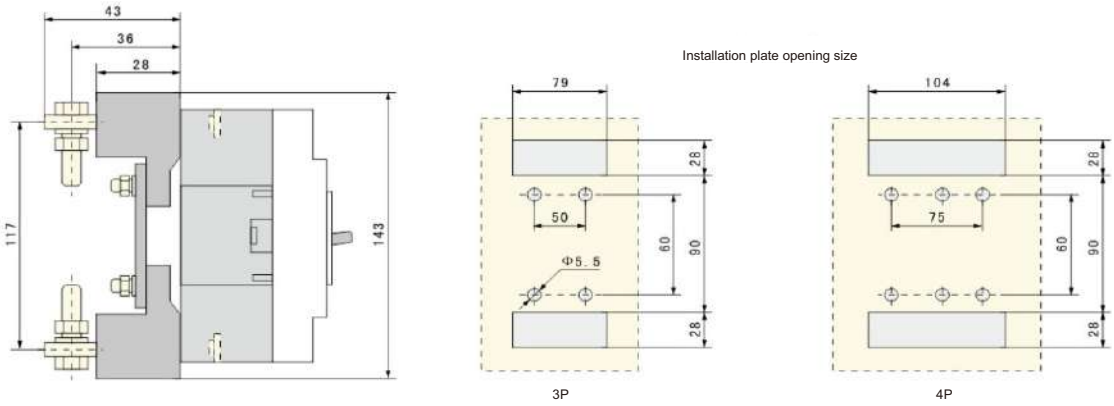


Model	H	H1	H2
YRM1-63L/3P	74	90.5	20.5
YRM1-63M/H/3P	82	98.5	28.5
YRM1-63M/H/4P	82	98.5	28.5

Back wiring



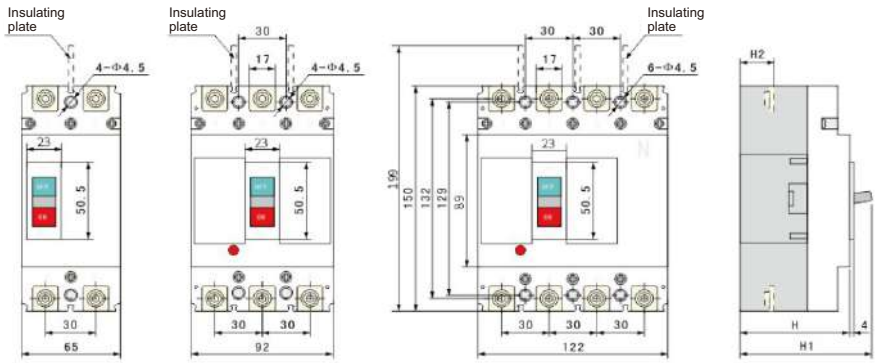
Insertion wiring



Outline and installation dimensions

YRM1-125 Unit: mm

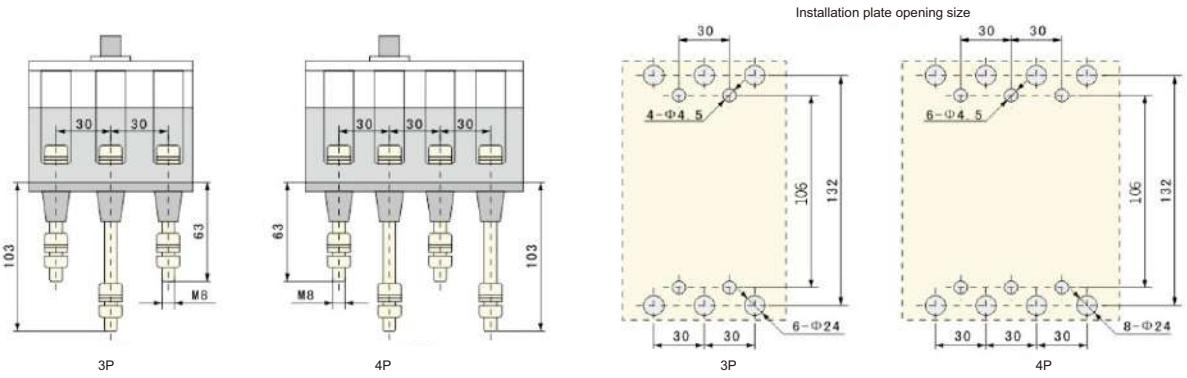
Front wiring



2P 3P 4P

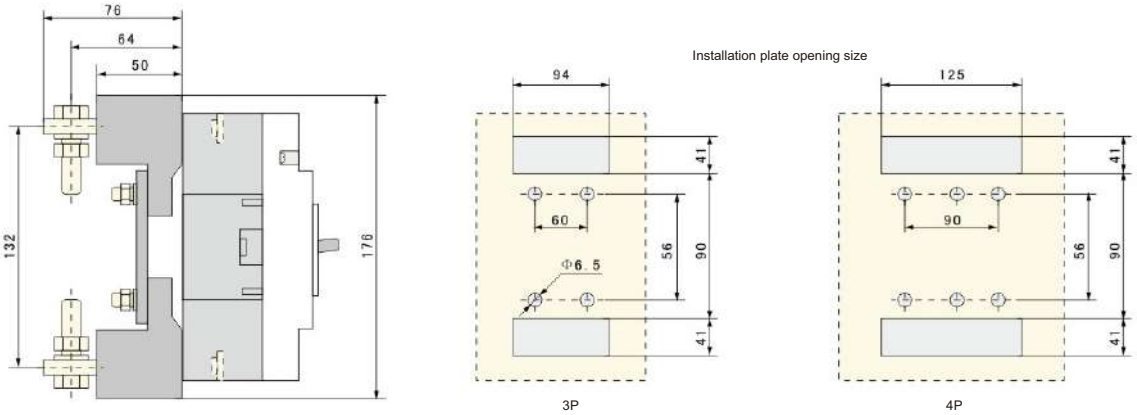
Model	H	H1	H2
YRM1-125L/2P	68	86	24
YRM1-125M/H/2P	86	104	24
YRM1-125L/3P	68	86	24
YRM1-125M/H/3P	86	104	24
YRM1-125M/H/4P	86	104	24

Back wiring



3P 4P 3P 4P

Insertion wiring

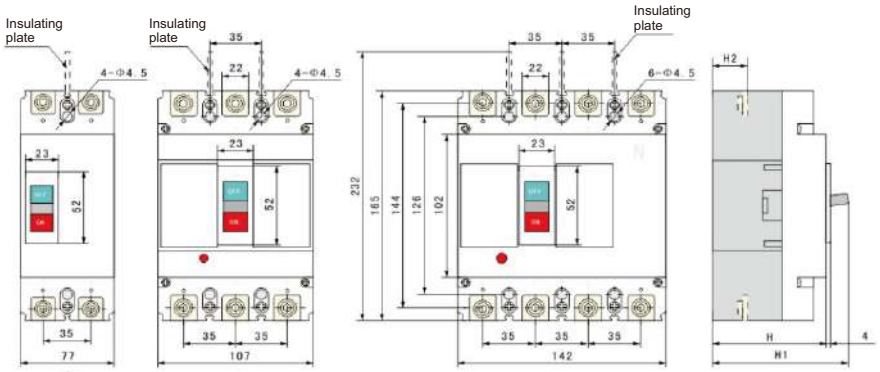


3P 4P

Outline and installation dimensions

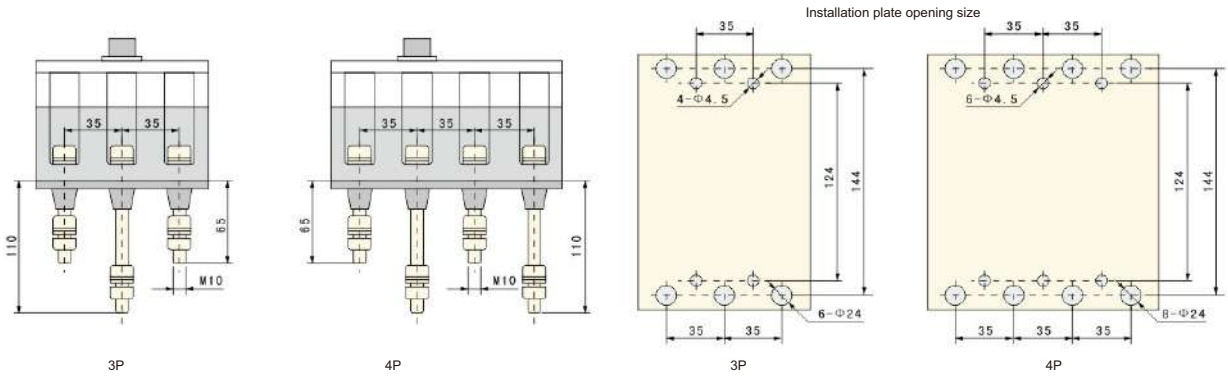
YRM1-250 Unit: mm

Front wiring

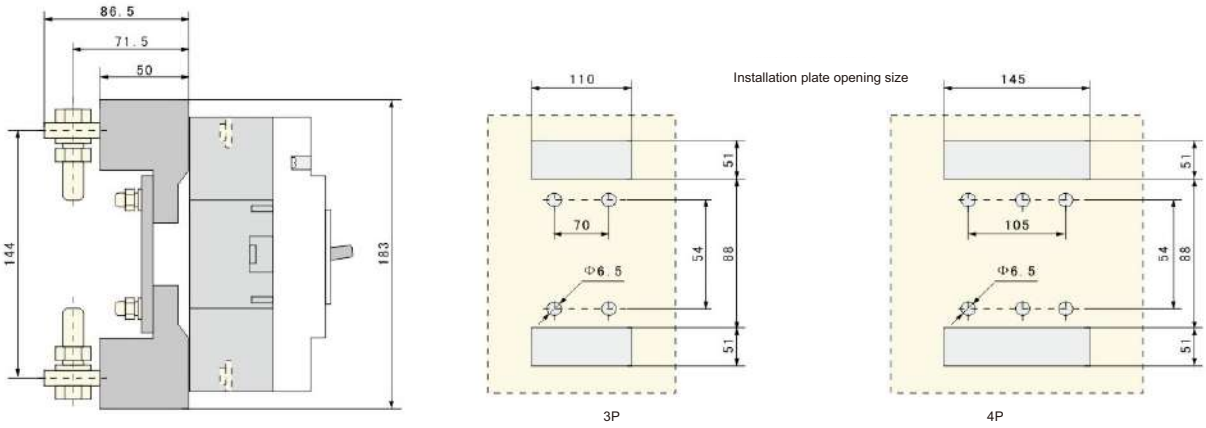


Model	H	H1	H2
YRM1-250L/2P	87	110	23
YRM1-250M/H/2P	104	127	23
YRM1-250L/3P	87	110	23
YRM1-250M/H/3P	104	127	23
YRM1-250M/H/4P	104	127	23

Back wiring



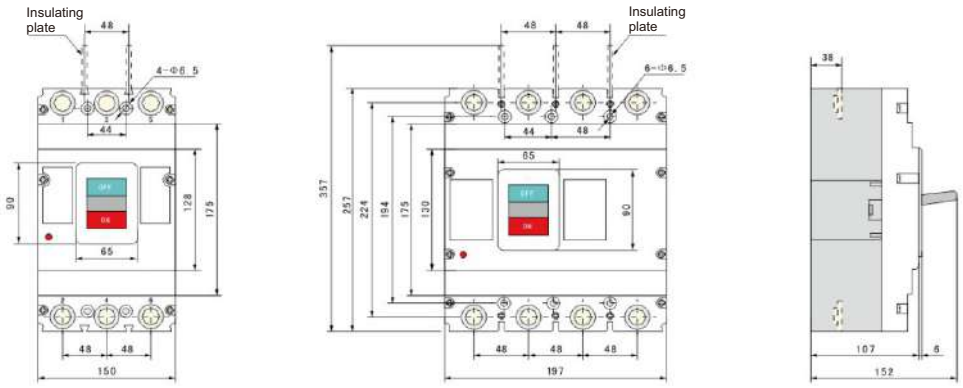
Insertion wiring



Outline and installation dimensions

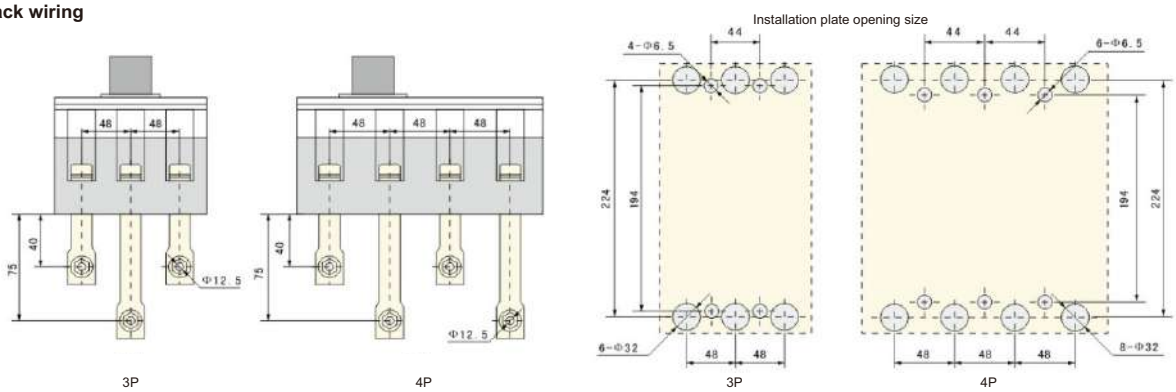
YRM1-400 Unit: mm

Front wiring



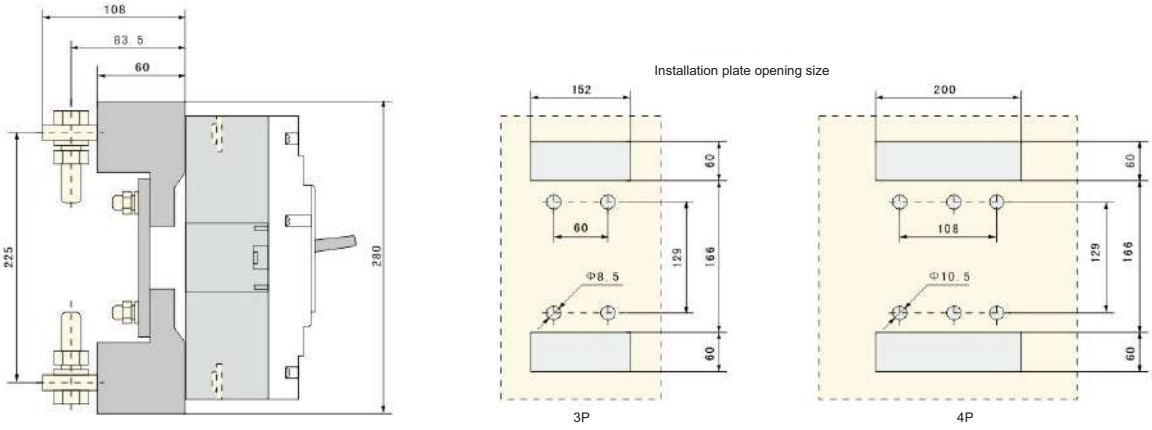
3P 4P

Back wiring



3P 4P 3P 4P

Insertion wiring

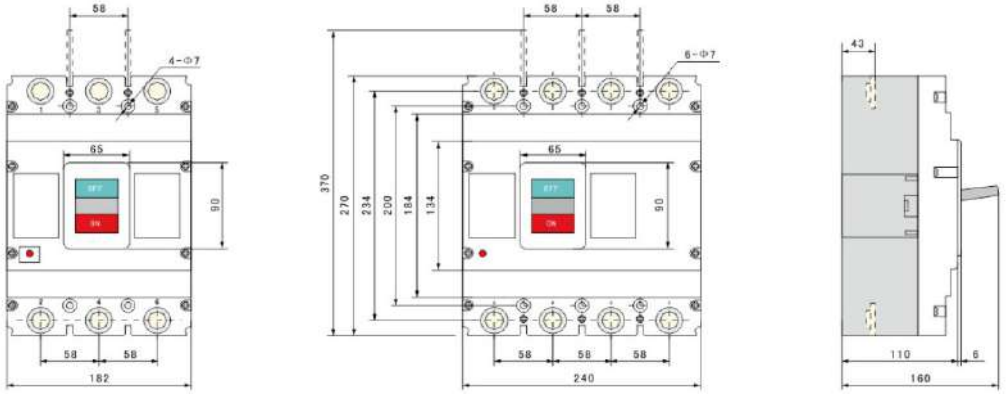


3P 4P

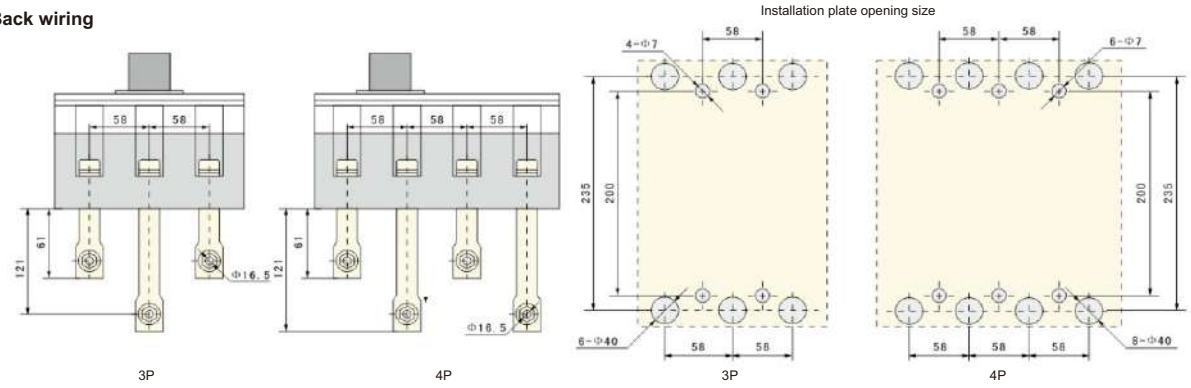
Outline and installation dimensions

YRM1-630 Unit: mm

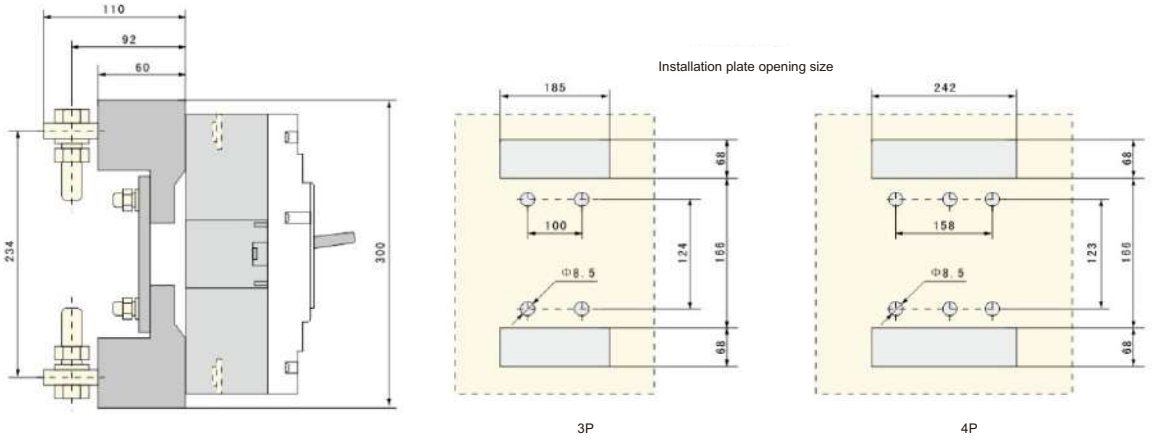
Front wiring



Back wiring



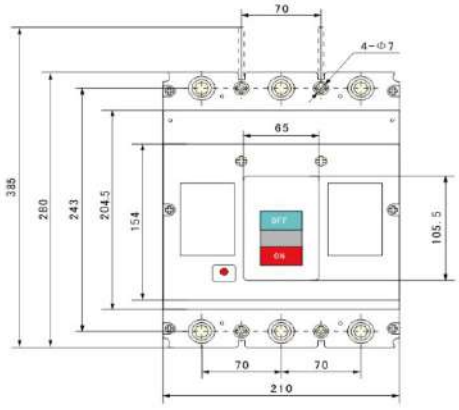
Insertion wiring

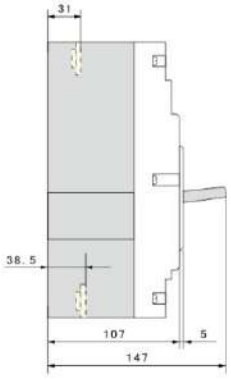


Outline and installation dimensions

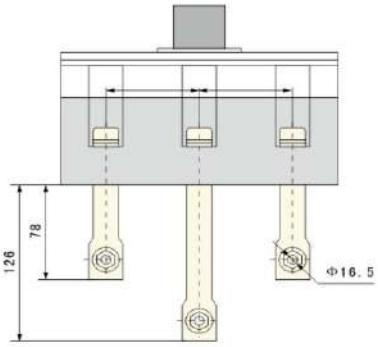
YRM1-800 Unit: mm

Front wiring

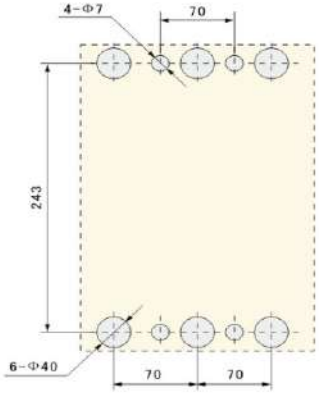




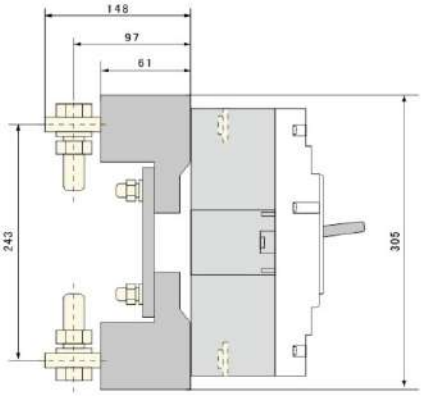
Back wiring



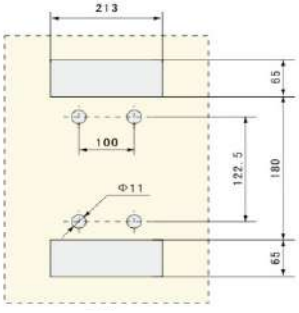
Installation plate opening size



Insertion wiring



Installation plate opening size

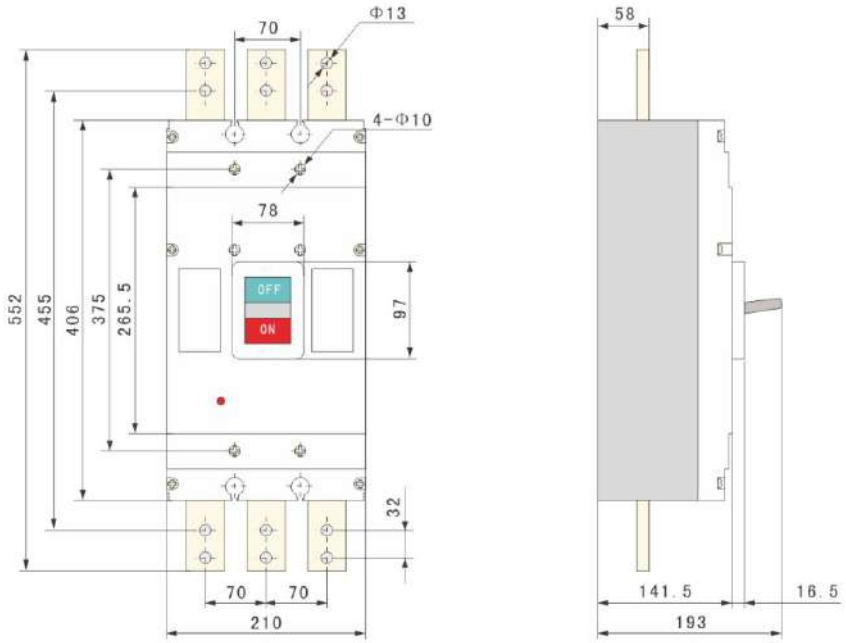


3P

Outline and installation dimensions

YRM1-1250 Unit: mm

Front wiring



Surge Protective Device

YRSP-A1 SERIES

Type 1 Lightning Surge Protective Device

CE

Overview

YRSP-A1 series is the most robust range of Type 1/Class I lightning current arresters, able to discharge energy (current) from a direct lightning strike (10/350) on an external lightning protection system (LPS) or overhead supplies, in accordance with EN/IEC 61643-11. DIN rail monobloc format.

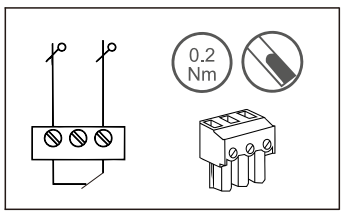
- Suitable as a first step of protection in incoming power supply panels and in areas of high atmospheric exposure.
- Discharges impulse currents with a 10/350 us waveform: 50 kA per phase.
- Exclusive devices for TNS earthing systems.
- Exclusive devices which are compatible with Power Line Communication networks.
- Biconnect -two types of terminal: for rigid or flexible cable and for fork type comb busbar.
- Available with optional remote signalling.

Application

- AC/DC distribution
- Power supplies
- Industrial automation
- Telecommunications
- Motor controls systems
- PLC applications
- Power transfer equipment
- HVAC applications
- AC drives
- UPS systems
- Security systems
- IT/ Data centers
- Medical equipment

Features/Benefits

- Easy installation or retrofit
- Din-rail mountable
- Fail-safe /self-protected design
- Remote indicator (optional) with 2 pin C/NC contact
- Degree of Protection IP20

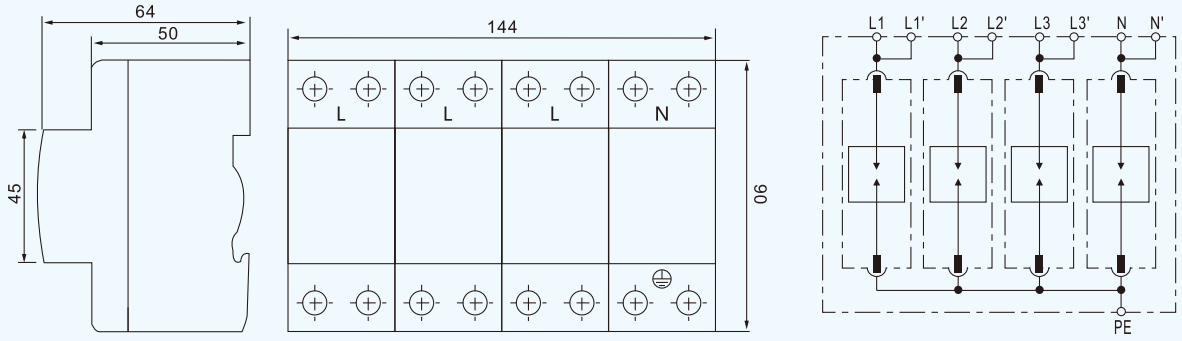


Technical Parameters

Technical Data \ Type	YRSP-A1
Power supply system	TNS
Nominal line voltage (Un)	230/400 V (50/60Hz)
Maximum continuous voltage (Uc) (L-N)	255V
SPD to EN 61643-11	Type 1
SPD to IEC 61643-11	class I
Lightning impulse current (10/350μs) (limp)	25kA
Nominal discharge current (8/20μs) (In)	25kA
Voltage protection level (Up)	≤2.0kV
Response time (tA)	<100ns
Operating State/Fault Indication	no
Degree of protection	IP 20
Insulating material / flammability class	PA66, UL94 V-0
Temperature range	-40°C~+80°C
Altitude	13123 ft [4000m]
Conductor Cross Section (max)	35mm² (Solid)/25mm² (Flexible)
Remote Contacts (RC)	Optional
Format	Monobloc
Maximun back-up fuse	315A gL
For mounting on	DIN rail 35mm
Place of installation	Indoor installation

Dimensions & Internal Configuration

Unit: mm



YRSP-A2 SERIES

Type 2 Surge Protective Device

CE

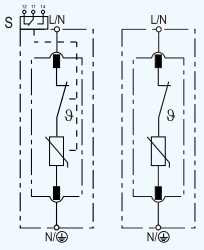
Technical Parameters

Technical Data	
Location of Use	Sub-Distribution Boards
Network Systems	TN-S, TN-C, TT (only L-N)
Mode of Protection	L-PE, N-PE (only TN-S), L-PEN, L-N
Surge Ratings	I_n = 20kA (8/20 μs)
IEC/EN Category	Class II / Type 2 / Type 1CA
Protective Elements	High Energy MOV
Housing	Pluggable Design
Compliance	IEC 61643-11:2011 EN 61643-11:2012

IEC ELECTRICAL							
YRSP-A2		75	150	275	385	420	480
Nominal AC Voltage (50/60Hz)	U_o/U_n	60V	120V	230 V	230 V	400 V	480 V
Maximum Continuous Operating Voltage (AC)	U_c	75V	150V	275 V	385 V	420 V	480 V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	40 kA	40 kA	40 kA	40 kA	40 kA	40 kA
Voltage Protection Level	U_p	700 V	1000 V	1500 V	1800 V	1800 V	2200 V
Residual Current at Uc	I_{PE}	< 0,5 mA					
Response Time	t_A	< 25 ns					
Back-Up Fuse (max)		125 A gL / gG					
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA					
TOV Withstand 5s	U_T	90V	180V	335V	335V	580V	
TOV 120min	U_T	115V	230V	440V	440V	765V	
	mode	Withstand	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1					

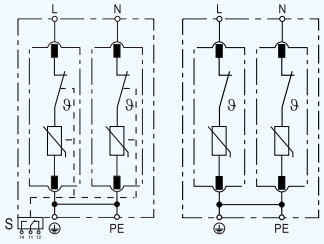
Mechanical & Environmental		
Operating Temperature Range	T_a	-40 °F to +158 °F [-40 °C to +70 °C]
Permissible Operating Humidity	RH	5%...95%
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500 m ... 2000 m
Terminal Screw Torque	M_{max}	39.9 lbf·in [4.5 Nm]
Conductor Cross Section (max)		5 AWG (Solid, Stranded) / 5 AWG (Flexible)
		16 mm² (Solid, Stranded) / 16 mm² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State/Fault Indication		Green ok / Red defect
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; DC: 250V/0.1A;125V/0.2A;75V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm²(Solid)

Internal Configuration



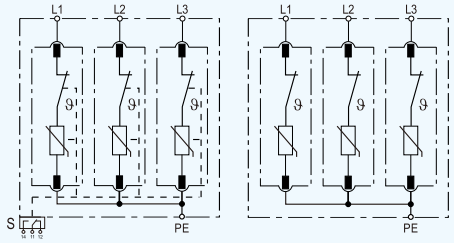
YRSP-A2 1P

Legend
L Line
N Neutral
⏚ Protective Earth
S Signalling Contacts Optional



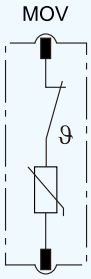
YRSP-A2 2P

Legend
L Line
N Neutral
⏚/PE Protective Earth
S Signalling Contacts Optional

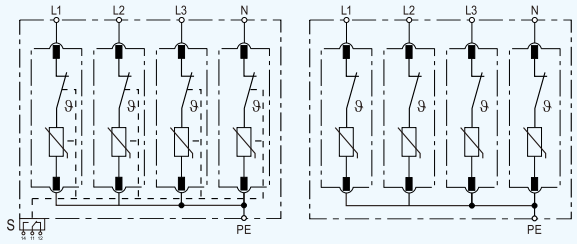


YRSP-A2 3P

Legend
L Line
N Neutral
⏚/PE Protective Earth
S Signalling Contacts Optional



Plug Internal Configuration

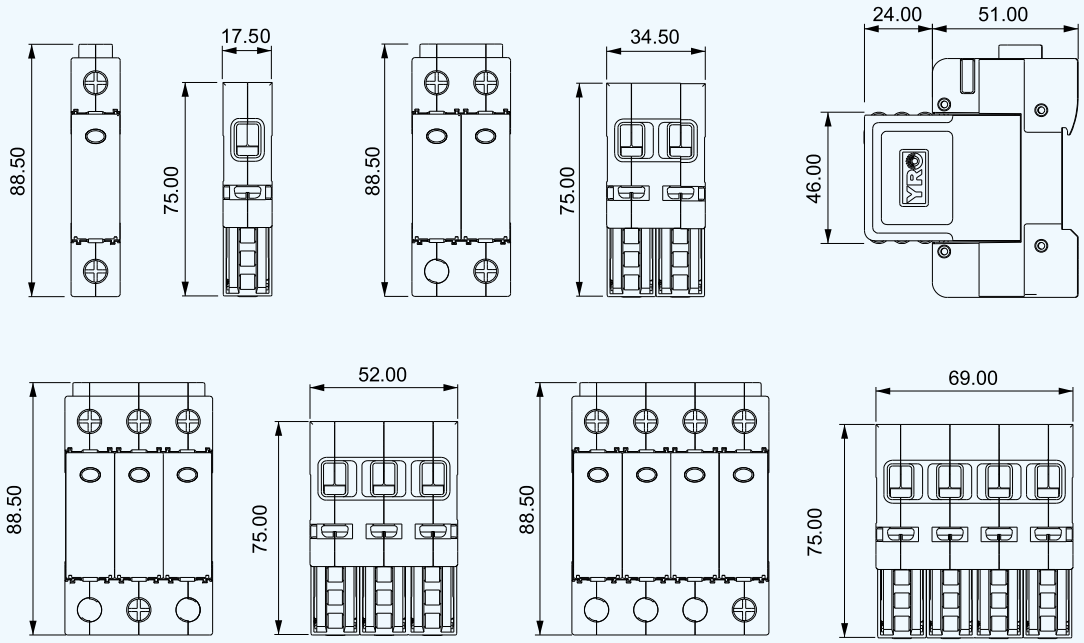


YRSP-A2 4P

Legend
L Line
N Neutral
⏚/PE Protective Earth
S Signalling Contacts Optional

Dimensions & Packaging

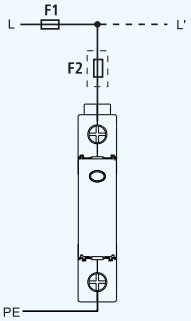
Unit: mm



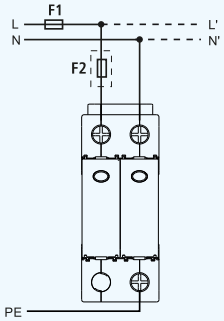
YRSP-A2	275	385	420	480
Single Unit DIN 43880 Dimension	1 CTN			
Packaging Dimensions (Hx WxL)	[520 × 220 × 300 mm]			
Pole	1 Pole	2 Pole	3 Pole	4 Pole
Minimum Order Quantity	144 Units	72Units	48 Units	36 Units

Connection Diagram

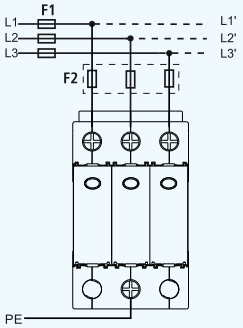
TN-S, TN-C, TT (Single-phase, 1+0)



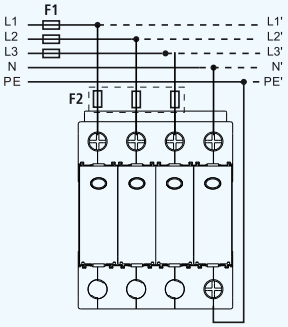
TN-S (Single-phase, 2+0)



TN-C (Three-phase, 3+0)



TN-S (Three-phase, 4+0)



YRSP-A2 1P+N SERIES

Type 2 Surge Protective Device

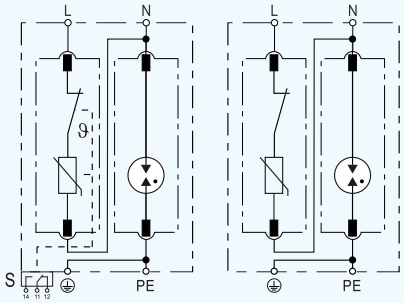
Technical Parameters

Technical Data	
Location of Use	Sub-Distribution Boards
Network Systems	TT, TN-S
Mode of Protection	L-N, N-PE
Surge Ratings	I_n= 20kA (8/20 μs)
IEC/EN Category	Class II / Type 2 / Type 1CA
Protective Elements	High Energy MOV and GDT
Housing	Pluggable Design
Compliance	IEC 61643-11:2011 EN 61643-11:2012

IEC ELECTRICAL								
YRSP-A2 1P+N			75	150	275	320	385	440
Nominal AC Voltage (50/60Hz)			60V	120V	230V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	(L-N)	U_c	75V	150V	275V	320V	385V	440V
	(N -PE)	U_c	255V					
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE)	I_n	20kA / 20 kA					
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE)	I_{max}	40kA / 40kA					
Voltage Protection Level	(L - N)/ (N -PE)	U_p	0.4kV/1.5kV	1.0kV/1.5kV	1.5kV/1.5kV	1.6kV/1.5kV	1.8kV/1.5kV	2.0kV/1.5kV
Follow Current Interrupt Rating	(N-PE)	I_{fi}	100A_{RMS}					
Residual Current at Uc		I_{PE}	none					
Response Time	(L-N)/(N-PE)	t_A	< 25 ns / < 100 ns					
Back-Up Fuse (max)			125 A gL / gG					
Short-Circuit Current Rating (AC)	(L-N)	I_{SCCR}	25 kA					
TOV Withstand 5s	(L-N)	U_T	90V	180V	335V	335V	335V	580V
TOV 120min	(L-N)	U_T	115V	230V	440V	440V	440V	765V
		mode	Withstand	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
TOV Withstand 200ms	(N-PE)	U_T	1200V					
Number of Ports			1					

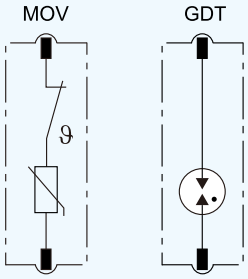
Mechanical & Environmental		
Operating Temperature Range	T_a	-40 °F to +158 °F [-40 °C to +70 °C]
Permissible Operating Humidity	RH	5%...95%
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500 m ... 2000 m
Terminal Screw Torque	M_{max}	39.9 lbf·in [4.5 Nm]
Conductor Cross Section (max)		5 AWG (Solid, Stranded) / 5 AWG (Flexible)
		16 mm² (Solid, Stranded) / 16 mm² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State/Fault Indication		Green ok / Red defect
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm²(Solid)

Internal Configuration



Legend

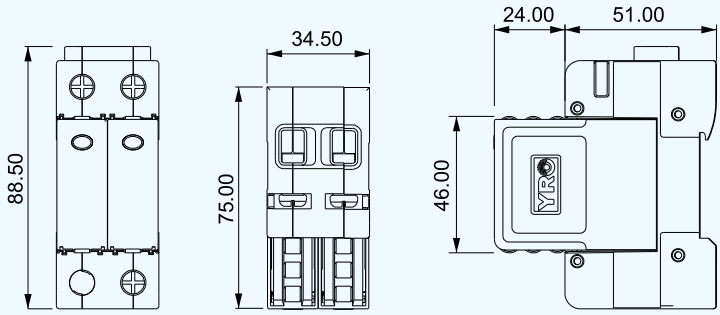
L Line
N Neutral
⏚/PE Protective Earth
S Signalling Contacts Optional



Plug Internal Configuration

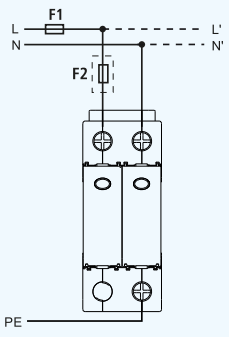
Dimensions & Packaging

Unit: mm



Connection Diagram

TN-S,TT (Single-phase, 1+1)



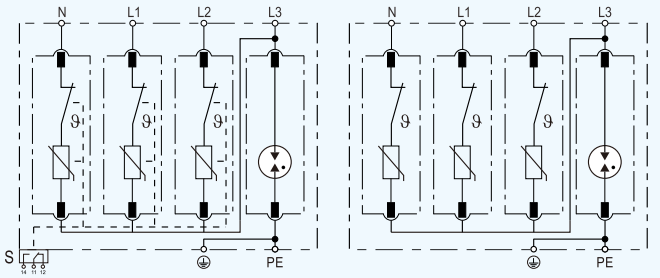
Technical Parameters

Technical Data	
Location of Use	Sub-Distribution Boards
Network Systems	TT, TN-S
Mode of Protection	L-N, N-PE
Surge Ratings	I_n= 20kA (8/20 μs)
IEC/EN Category	Class II / Type 2 / Type 1CA
Protective Elements	High Energy MOV and GDT
Housing	Pluggable Design
Compliance	IEC 61643-11:2011 EN 61643-11:2012

IEC ELECTRICAL							
YRSP-A2 3P+N			150	275	320	385	440
Nominal AC Voltage (50/60Hz)			120V	230V	230V	230V	400V
Maximum Continuous Operating Voltage (AC)	(L-N)	U_c	150V	275V	320V	385V	440V
	(N -PE)	U_c	255V				
Nominal Discharge Current (8/20 μs)	(L-N)/(N-PE)	I_n	20kA / 20 kA				
Maximum Discharge Current (8/20 μs)	(L-N)/(N-PE)	I_{max}	40kA / 40kA				
Voltage Protection Level	(L - N)/ (N -PE)	U_p	1.0kV/1.5kV	1.5kV/1.5kV	1.6kV/1.5kV	1.8kV/1.5kV	2.0kV/1.5kV
Follow Current Interrupt Rating	(N-PE)	I_{fi}	100A_{RMS}				
Residual Current at Uc		I_{PE}	none				
Response Time	(L-N)/(N-PE)	t_A	< 25 ns / < 100 ns				
Back-Up Fuse (max)			125 A gL / gG				
Short-Circuit Current Rating (AC)	(L-N)	I_{SCCR}	25 kA				
TOV Withstand 5s	(L-N)	U_T	180V	335V	335V	335V	580V
TOV 120min	(L-N)	U_T	230V	440V	440V	440V	765V
		mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail
TOV Withstand 200ms	(N-PE)	U_T	1200V				
Number of Ports			1				

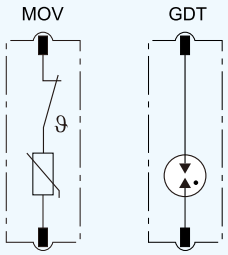
Mechanical & Environmental		
Operating Temperature Range	T_a	-40 °F to +158 °F [-40 °C to +70 °C]
Permissible Operating Humidity	RH	5%...95%
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500 m ... 2000 m
Terminal Screw Torque	M_{max}	39.9 lbf·in [4.5 Nm]
Conductor Cross Section (max)		5 AWG (Solid, Stranded) / 5 AWG (Flexible)
		16 mm² (Solid, Stranded) / 16 mm² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State/Fault Indication		Green ok / Red defect
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; DC: 250V/0.1A; 125V/0.2A; 75V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm²(Solid)

Internal Configuration



Legend

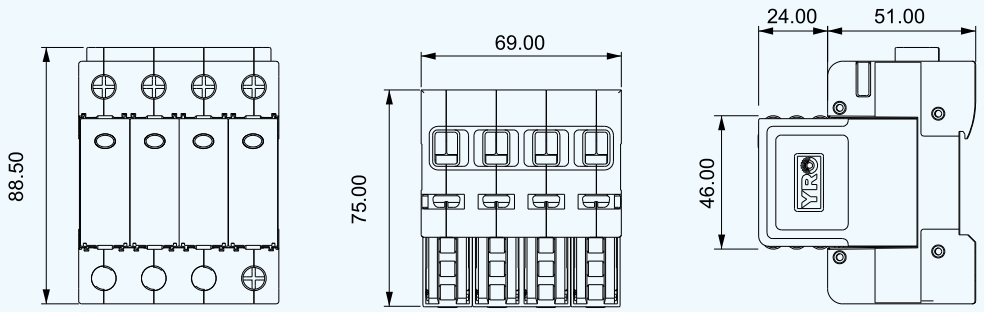
L Line
N Neutral
⏚/PE Protective Earth
S Signalling Contacts Optional



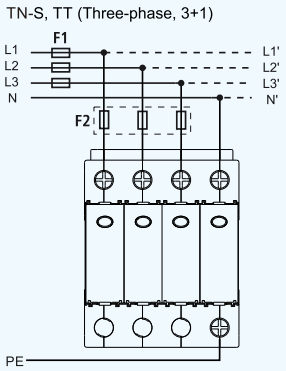
Plug Internal Configuration

Dimensions & Packaging

Unit: mm



Connection Diagram



YRSP-A12 SERIES

Type 1+2 Surge Protective Device

CE

Technical Parameters

Technical Data	
Location of Use	Main Distribution Boards
Network Systems	TN-S, TN-C, TT (only L-N)
Mode of Protection	L-PE, N-PE (only TN-S), L-PEN, L-N
Surge Ratings	Iimp= up to 12.5 kA (10/350 μs)
	In= up to 20kA (8/20 μs)
IEC/EN Category	Class I+II / Type 1+2
Protective Elements	High Energy MOV
Housing	Pluggable Design
Compliance	IEC 61643-11:2011、EN 61643-11:2012

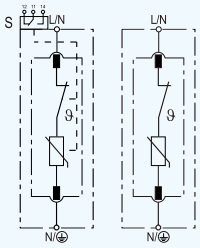
limp: 7kA

limp: 12.5kA

IEC ELECTRICAL							
YRSP-A12		75	150	275	320	385	440
Nominal AC Voltage (50/60Hz)	U_o/U_n	60 V	120 V	230 V	230 V	230 V	400 V
Maximum Continuous Operating Voltage (AC)	U_c	75 V	150 V	275 V	320 V	385 V	440 V
Nominal Discharge Current (8/20 μs)	I_n	20 kA	20 kA	20 kA	20 kA	20 kA	20 kA
Maximum Discharge Current (8/20 μs)	I_{max}	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
Impulse Discharge Current (10/350 μs)	I_{imp}	7 kA	7 kA	7 kA	7 kA	7 kA	7 kA
	I_{imp}	12.5 kA	12.5 kA	12.5 kA	12.5 kA	12.5 kA	12.5 kA
Specific Energy	W/R	39 kJ/Ω	39 kJ/Ω	39 kJ/Ω	39 kJ/Ω	25 kJ/Ω	25 kJ/Ω
Charge	Q	6.25 As	6.25 As	6.25 As	6.25 As	5 As	5 As
Voltage Protection Level	U_p	700 V	1000 V	1500 V	1600 V	1800 V	2000 V
Residual Current at UC	I_{PE}	< 0,5 mA					
Response Time	t_A	< 25 ns					
Back-Up Fuse (max)		160 A gL / gG					
Short-Circuit Current Rating (AC)	I_{SCCR}	25 kA					
TOV Withstand 5s	U_T	114V	180V	335V	335V	335V	580V
TOV 120min	U_T	114V	230V	440V	440V	440V	765V
	mode	Withstand	Safe Fail	Safe Fail	Safe Fail	Safe Fail	Safe Fail
Number of Ports		1					

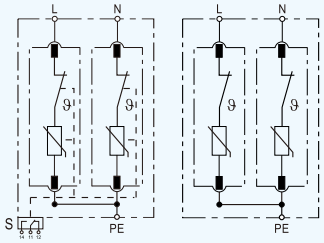
Mechanical & Environmental		
Operating Temperature Range	T_a	-40 °F to +158 °F [-40 °C to +70 °C]
Permissible Operating Humidity	RH	5%...95%
Atmospheric pressure and altitude		80k Pa ... 106k Pa / -500 m ... 2000 m
Terminal Screw Torque	M_{max}	39.9 lbf·in [4.5 Nm]
Conductor Cross Section (max)		5 AWG (Solid, Stranded) / 5 AWG (Flexible)
		16 mm² (Solid, Stranded) / 16 mm² (Flexible)
Mounting		35 mm DIN Rail, EN 60715
Degree of Protection		IP 20 (built-in)
Housing Material		Thermoplastic: Extinguishing Degree UL 94 V-0
Thermal Protection		Yes
Operating State/Fault Indication		Green ok / Red defect
Remote Contacts (RC)		Optional
RC Switching Capacity		AC: 250V/0.5A; DC: 250V/0.1A;125V/0.2A;75V/0.5A
RC Conductor Cross Section (max)		16 AWG (Solid) / 1.5 mm²(Solid)

Internal Configuration



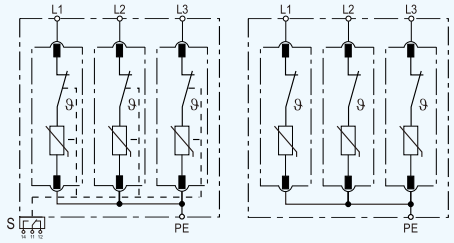
YRSP-A12 1P

Legend
L Line
N Neutral
⏚ Protective Earth
S Signalling Contacts Optional



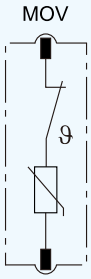
YRSP-A12 2P

Legend
L Line
N Neutral
⏚/PE Protective Earth
S Signalling Contacts Optional

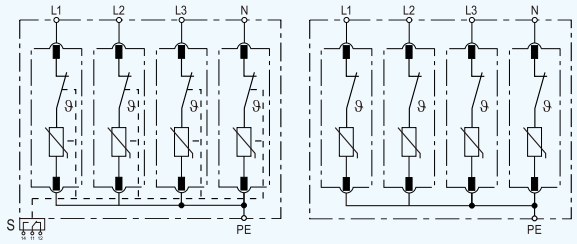


YRSP-A12 3P

Legend
L Line
N Neutral
⏚/PE Protective Earth
S Signalling Contacts Optional



Plug Internal Configuration

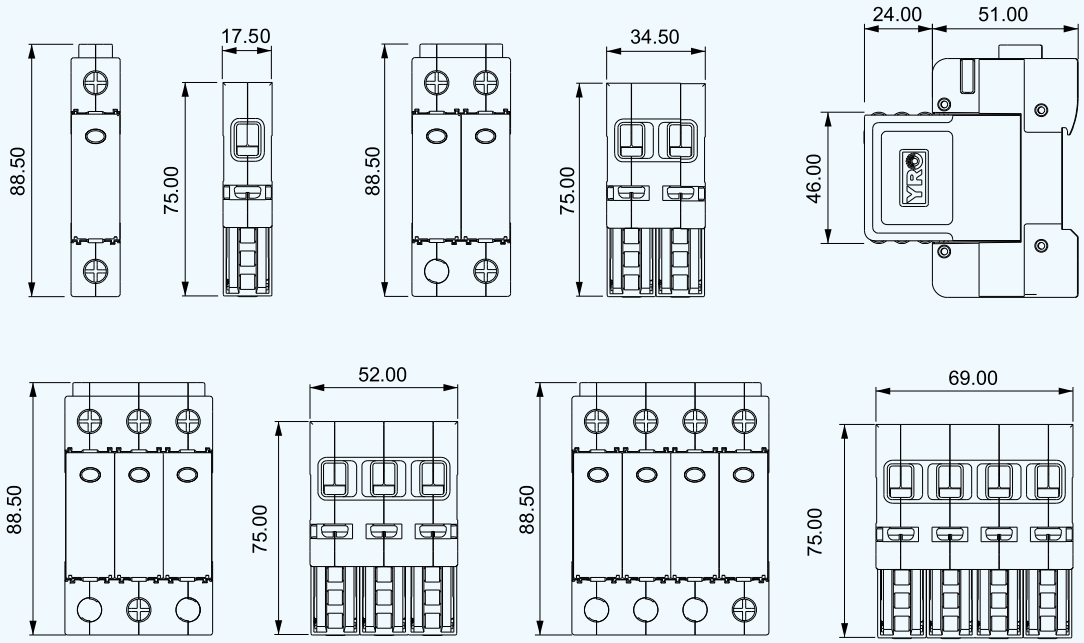


YRSP-A12 4P

Legend
L Line
N Neutral
⏚/PE Protective Earth
S Signalling Contacts Optional

Dimensions & Packaging

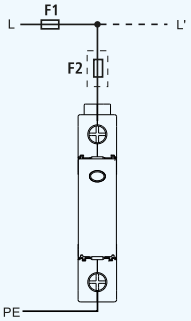
Unit: mm



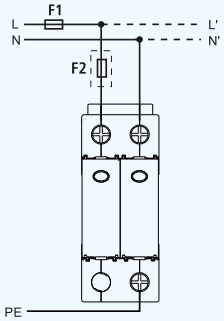
YRSP-A2	150	275	320	385	440
Single Unit DIN 43880 Dimension	1 CTN				
Packaging Dimensions (Hx WxL)	[520 × 220 × 300 mm]				
Pole	1 Pole	2 Pole	3 Pole	4 Pole	
Minimum Order Quantity	144 Units	72Units	48 Units	36 Units	

Connection Diagram

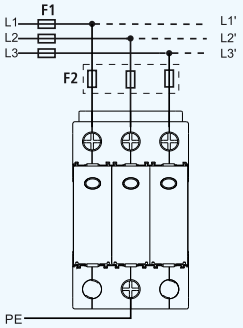
TN-S, TN-C, TT (Single-phase, 1+0)



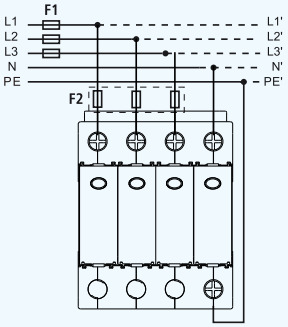
TN-S (Single-phase, 2+0)



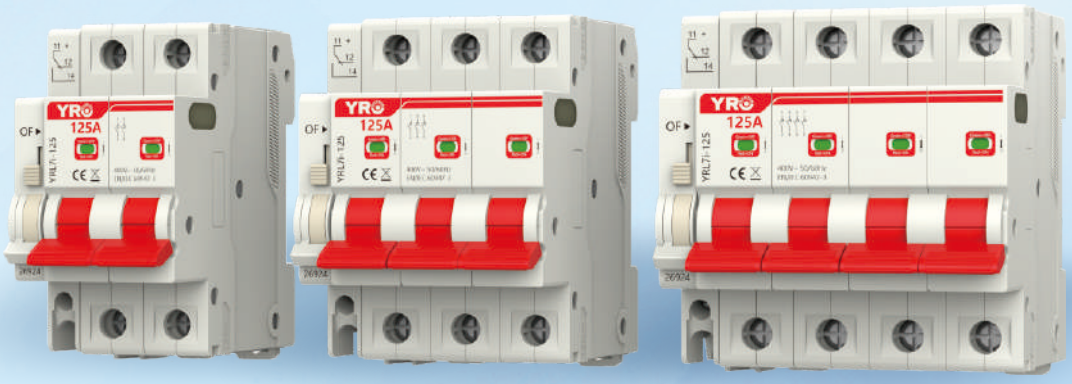
TN-C (Three-phase, 3+0)



TN-S (Three-phase, 4+0)



YRL7i-125 SERIES
AC Isolator Switch



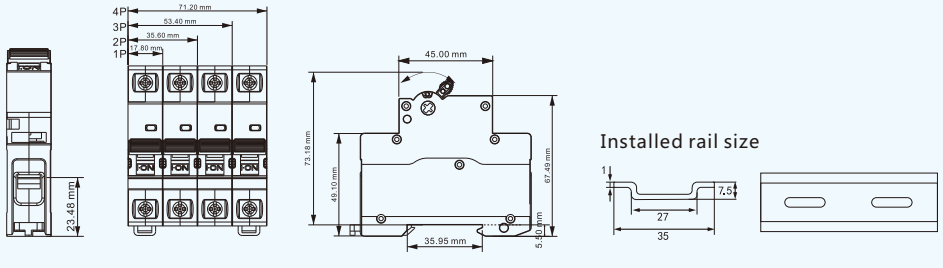
CE

Technical Data

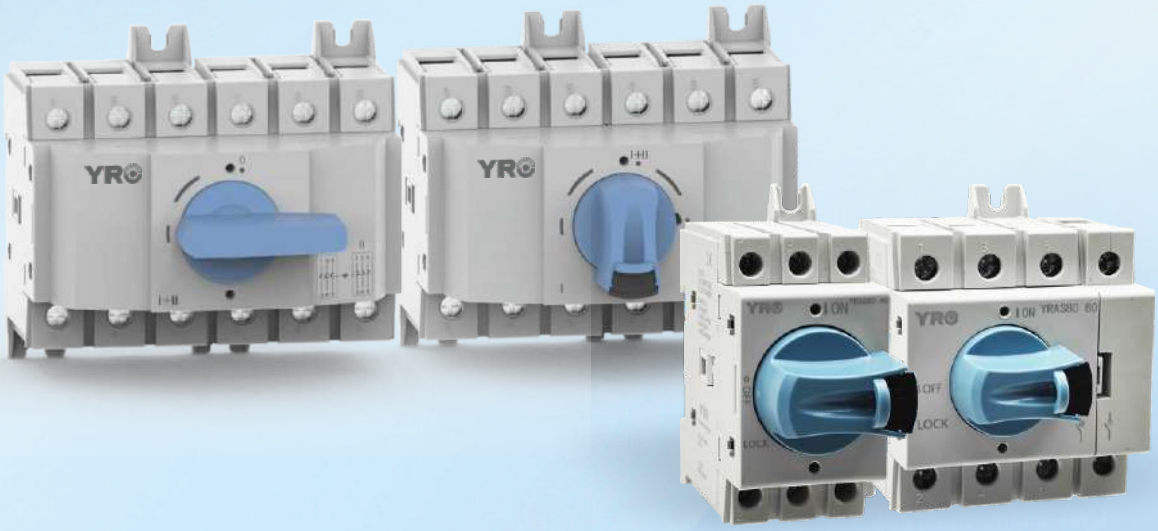
Electrical Features	
Rated current (In)	32A, 40A, 50A, 63A, 100A, 125A
Pole	1P, 2P, 3P, 4P
Rated voltage (Ue)	1P: 240V~ 2/3/4P: 415V-
Insulation voltage (Ui)	500V
Rated frequency	50/60Hz
Rated short-time withstand current (Icw)	12le 1s
Rated making and breaking capacity	3le, 1.05Ue, cos(p=0.65
Rated short circuit making capacity	20le, t=0.1s
Using the categories	AC-22A
Mechanical life	10000
Electrical life	4000
Terminal size top/bottom for cable	25mm^2
Tightening torque	2.5Nm
Switching Frequency	In 25A 240times/hour In 25A 120times/hour

Dimensions

Unit: mm



YRAS80 SERIES
AC Rotary Isolation Switch



Overview

Add-on Auxiliary Contacts

The isolating switch adopts the same auxiliary contact, and the auxiliary contact and the main pole of the switch act at the same time. A normally open contact with pre-disconnect function can be provided as required. The isolation switch can be installed with up to fourauxiliary accessories (2 on the right, 2 on the left)

Terminal Shrouds

The isolation switch terminal shroud has a simple appearance design, high-quality transparent PC material, flame-retardant, high strength, no color change after long-term use, high-quality waterproof and easy to install.

Rotating Handle Parts

Rotating handle, with anti-misoperation padlock design to prevent misoperation, safe and reliable; using high-quality flame-retardant materials, insulation and impact resistance; elegant and stylish design, beautiful and durable.

Side Mount Add-on Fourth Pole

Simultaneous or early contact operation of the fourth pole with respect to the switch disconnector poles.

Rod Extension

High-carbon steel material, beautiful and corrosion-resistant; coupled with hightemperature treatment, even if sufficient pressure is applied, it can maintain good smoothness; the products are standardized, easy to assemble, low cost, corrosion resistant, and cost-effective.

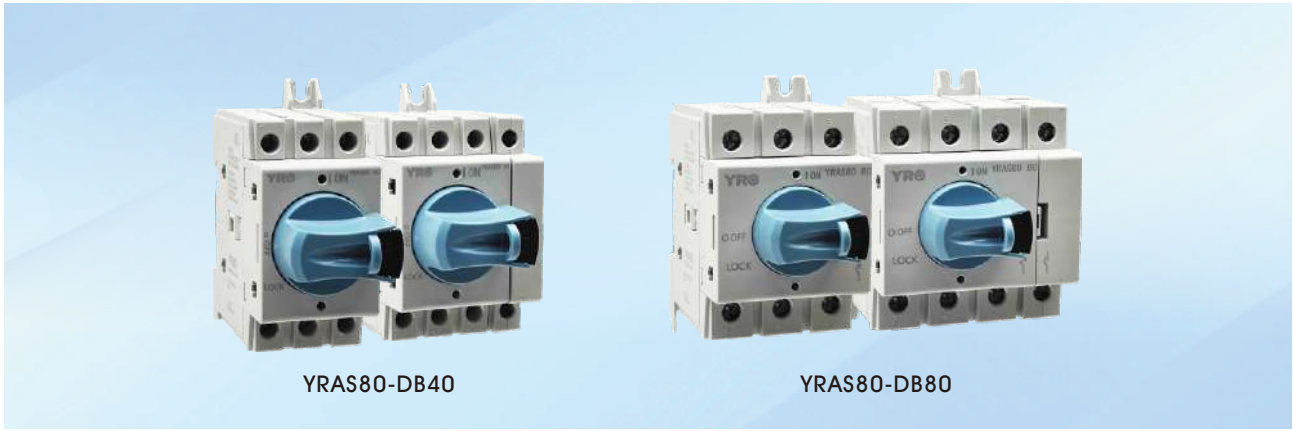
Switch Body

Adopts compression contact opening and closing technology, and has the function of complete disconnection indication. It is an isolator、a breaker or a switch, and with inlerlock mechanism, it can be to an exchage switch.

Mechanical Interlocking Mechanism

The interior is made of high-conductivity nickel-phosphorus copper, which has good conductivity and longer service life. The shell is made of high-strength flameretardant PC material, which is fireresistant and flame-retardant, in one step!

YRAS80-DB SERIES
AC Rotary Isolation Switch



YRAS80-DB40　　YRAS80-DB80

Technical Data

Current(≤40°C) Agreed heating current		16A	20A	25A	32A	40A	63A	80A	100A	100A	125A
IEC rated operational current Ie AC-21A/B(≤690V)		16A/16A	20A/20A	25A/25A	32A/32A	40A/40A	63A/63A	80A/80A	100A/100A	100A/100A	125A/125A
IEC rated operational current Ie AC-22A/B	415V	16A/16A	20A/20A	25A/25A	32A/32A	40A/40A	63A/63A	80A/80A	100A/100A	100A/100A	125A/125A
	500V					32A/40A	40A/63A	63A/80A	63A/80A	80A/100A	100A/125A
	690V										
IEC rated operational current Ie AC-23A/B	415V	16A/16A	20A/20A	25A/25A	32A/32A	40A/40A	63A/63A	80A/80A	100A/100A	100A/100A	125A/125A
	500V				25A/25A		63A/63A			80A/80A	100A/100A
	690V						40A/40A			63/63A	63A/63A
IEC rated operational current Ie DC-21B	110VDC	16A①	20A①	25A①	32A①	40A①	63A①	80A①	100A①	100A①	125A①
	250VDC	16A②	20A②	25A②	32A②	40A②	63A②	80A②	100A②	100A②	125A②
	400VDC	16A③	20A③	25A③	25A③		40A③			63A③	
IEC rated operational power (3 phase) AC-23A/B	415V	7.5KW	9KW	11KW	15KW	18.5KW	30KW	37KW	45KW		55KW
	500V										
	690V		11KW	15KW							
Short circuit withstand current of fuse protection (kA rms expected value)											
Fuse class	415V	16A	20A	25A	32A	40A	63A	80A	100A		125A
Rated conditional short-circuit current	415V	10kA					15kA			20kA	
Short circuit withstand current of circuit breaker for protection, any circuit breaker that can trip within 0.3s											
Rated short-time withstand current	0.3S	2.5kA					3kA			5kA	
Short circuit performance (unprotected)											
Rated short-time withstand current	1S	1.26kA					1.5kA			2.75kA	
Rated short circuit making capacity		1.8kA					2.1kA			3.9kA	
Cable cross section		1.5~10mm²					2.5~35mm²			10~70mm²	
Rated insulation voltage Ui		800V									
Rated impulse withstand voltage Uimp		8kV									
Mechanical Endurance		100000									
Ambient Temperature		Operating -25~+55°C　　Storage -40~+70°C									

① Each pole is used as positive and negative ② Three poles in series , two poles in series for positive , one pole for negative ③ Four poles in series , two poles in series for positive , other two poles in series for negative

YRAS80-DB SERIES
AC Rotary Isolation Switch

Technical Data

Current(≤40°C) Agreed heating current		63A	80A	100A	63A	80A	100A	63A	80A	100A
IEC rated operational current Ie AC-21A/B(≤690V)		63A/63A	80A/80A	100A/100A	63A/63A	80A/80A	100A/100A	63A/63A	80A/80A	100A/100A
IEC rated operational current Ie AC-22A/B	415V	63A/63A	80A/80A	100A/100A	63A/63A	80A/80A	100A/100A	63A/63A	80A/80A	100A/100A
	500V									
	690V	40A/63A	63A/80A	63A/80A	40A/63A	63A/80A	63A/80A	40A/63A	63A/80A	63A/80A
IEC rated operational current Ie AC-23A/B	415V	63A/63A	80A/80A	100A/100A	63A/63A	80A/80A	100A/100A	63A/63A	80A/80A	100A/100A
	500V	63A/63A			63A/63A			63A/63A		
	690V	40A/40A			40A/40A			40A/40A		
IEC rated operational current Ie DC-21B	110VDC	63A①	80A①	100A①	63A①	80A①	100A①	63A①	80A①	100A①
	250VDC	63A②	80A②	100A②	63A②	80A②	100A②	63A②	80A②	100A②
	400VDC	40A③			40A③			40A③		
IEC rated operational power (3 phase) AC-23A/B	415V	30KW	37KW	45KW	30KW	37KW	45KW	30KW	37KW	45KW
	500V									
	690V									
Short circuit withstand current of fuse protection (kA rms expected value)										
Fuse class	415V	63A	80A	100A	63A	80A	100A	63A	80A	100A
Rated conditional short-circuit current	415V	15kA								
Short circuit withstand current of circuit breaker for protection, any circuit breaker that can trip within 0.3s										
Rated short-time withstand current	0.3S	3kA								
Short circuit performance (unprotected)										
Rated short-time withstand current	1S	1.5kA								
Rated short circuit making capacity		1.4kA								
Cable cross section		2.5~35mm²								
Rated insulation voltage Ui		800V								
Rated impulse withstand voltage Uimp		8kV								
Mechanical Endurance		100000								
Ambient Temperature		Operating -25~+55°C Storage -40~+70°C								

① Each pole is used as positive and negative ② Three poles in series , two poles in series for positive , one pole for negative
③ Four poles in series , two poles in series for positive , other two poles in series for negative

YRAS80 AC Isolator Add on

Fourth pole, simultaneous closing operation as switch poles						
Type	YRAS80–PS40	YRAS80–PSR40	YRAS80–PS80	YRAS80–PSR80	YRAS80–PS125	YRAS80–PSR125
Ith	40A	40A	80A	80A	125A	125A
Width	11mm	11mm	16mm	16mm	21.3mm	21.3mm
Applied to	YRAS80–16~ YRAS80–40	YRAS80–PM16~ YRAS80–PM40	YRAS80–63~ YRAS80–80	YRAS80–PM63~ YRAS80–PM80	YRAS80–100~ YRAS80–125	YRAS80–PM100~ YRAS80–PM125
Function						

Fourth pole, early-make closing operation with respect to switch poles						
Type	YRAS80–PD40	YRAS80–PDR40	YRAS80–PD80	YRAS80–PDR80	YRAS80–PD125	YRAS80–PDR125
Ith	40A	40A	80A	80A	125A	125A
Width	11mm	11mm	16mm	16mm	21.3mm	21.3mm
Applied to	YRAS80–16~ YRAS80–40	YRAS80–PM16~ YRAS80–PM40	YRAS80–63~ YRAS80–80	YRAS80–PM63~ YRAS80–PM80	YRAS80–100~ YRAS80–125	YRAS80–PM100~ YRAS80–PM125
Function						

YRAS80 AC Isolator Add on

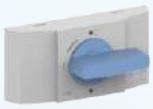
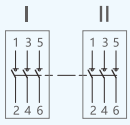
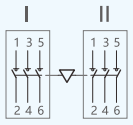
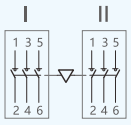
Neutral plate terminal						
Type	YRAS80–PN40	YRAS80–PNR40	YRAS80–PN80	YRAS80–PNR80	YRAS80–PN125	YRAS80–PNR125
Ith	40A	40A	80A	80A	125A	125A
Width	11mm	11mm	16mm	16mm	21.3mm	21.3mm
Applied to	YRAS80–16~ YRAS80–40	YRAS80–PM16~ YRAS80–PM40	YRAS80–63~ YRAS80–80	YRAS80–PM63~ YRAS80–PM80	YRAS80–100~ YRAS80–125	YRAS80–PM100~ YRAS80–PM125
Function						

Earth/Ground Plate terminal						
Type	YRAS80–PE40	YRAS80–PER40	YRAS80–PE80	YRAS80–PER80	YRAS80–PE125	YRAS80–PER125
Ith	40A	40A	80A	80A	125A	125A
Width	11mm	11mm	16mm	16mm	21.3mm	21.3mm
Applied to	YRAS80–16~ YRAS80–40	YRAS80–PM16~ YRAS80–PM40	YRAS80–63~ YRAS80–80	YRAS80–PM63~ YRAS80–PM80	YRAS80–100~ YRAS80–125	YRAS80–PM100~ YRAS80–PM125
Function						

YRAS80 AC Isolator Add on

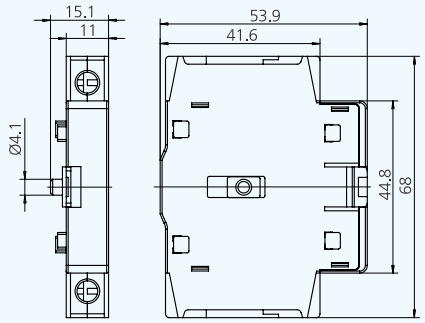
Add-on Auxiliary Contacts				
One only add–on block suitable for all the EAS80 switch disconnectors, haveing simultaneous operation with the switch poles.				
Type	YRAS80–P1	YRAS80–P2	YRAS80–P1R	YRAS80–P2R
Contacts	1NO+1NC	2NO	1NO+1NC	2NO
Width	9mm	9mm	9mm	9mm
Parameter	AC-13: 10A, 230V~ AC-15: 6A,230V~		AC-13: 10A, 230V~ AC-15: 6A,230V~	
Function	1NO+1NC 13 21 14 22	2NO 13 23 14 24	1NO+1NC 13 21 14 22	2NO 13 23 14 24
Description	For DB , DC , EL ,ELA		For PM	

Mechanical Combination System

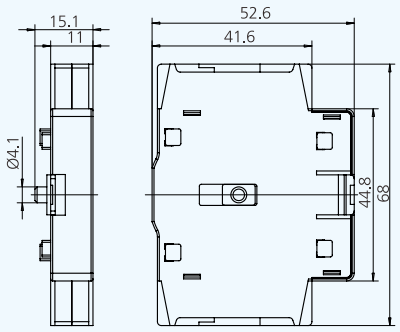
Mechanical interlock mechanism				
				
Type	YRAS80–80–IM2	YRAS80–80–IM31	YRAS80–80–IM32	
Applied to	For the main body switch of 63A to 80A	For the main body switch of 63A to 80A	For the main body switch of 63A to 80A	
Description	Mechanical combination system: for 6/8	Mechanical interlock mechanism: for 3/4 pole I-I+II-II conversion	Mechanical interlock mechanism: for 3/4 pole I-O-II conversion	
				

Overall and Installation Dimension

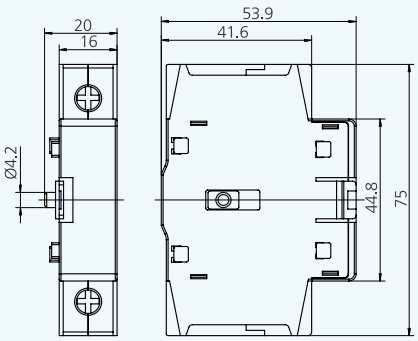
Add on pole Unit: mm



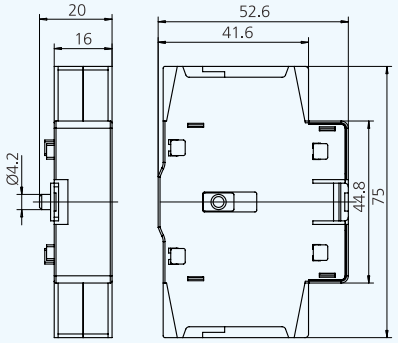
YRAS80-PS40 YRAS80-PN40
YRAS80-PD40 YRAS80-PE40



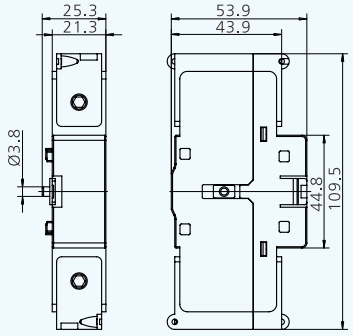
YRAS80-PS40R YRAS80-PN40R
YRAS80-PD40R YRAS80-PE40R



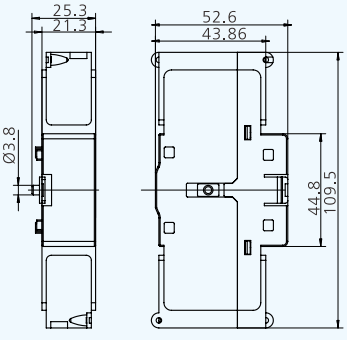
YRAS80-PS80 YRAS80-PN80
YRAS80-PD80 YRAS80-PE80



YRAS80-PS80R YRAS80-PN80R
YRAS80-PD80R YRAS80-PE80R



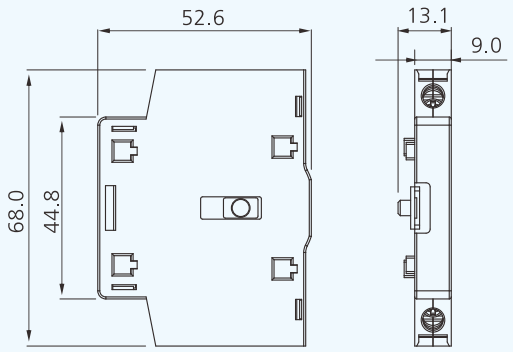
YRAS80-PS125 YRAS80-PN125
YRAS80-PD125 YRAS80-PE125



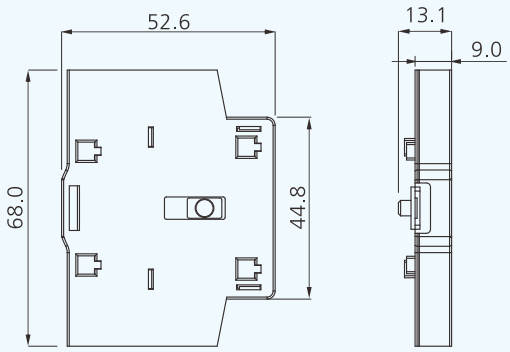
YRAS80-PS125R YRAS80-PN125R
YRAS80-PD125R YRAS80-PE125R

Overall and Installation Dimension

Auxiliary contact — Unit: mm

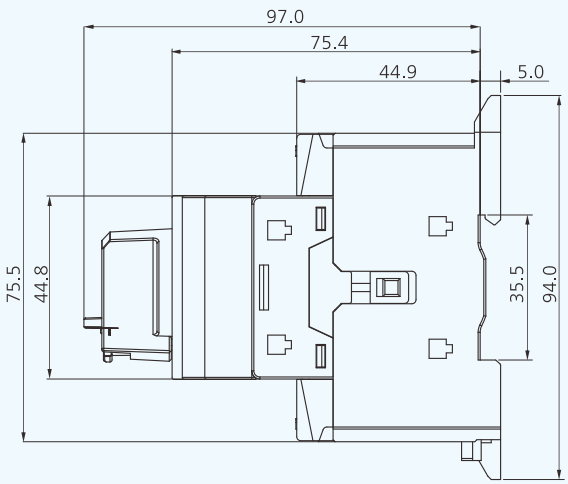


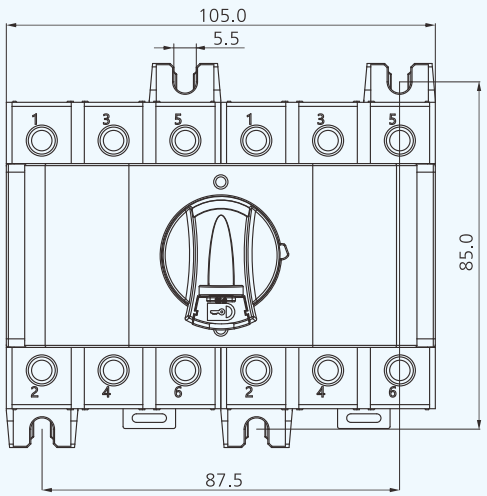
YRAS80-P1 YRAS80-P2



YRAS80-P1R YRAS80-P2R

Mechanical combination system — Unit: mm





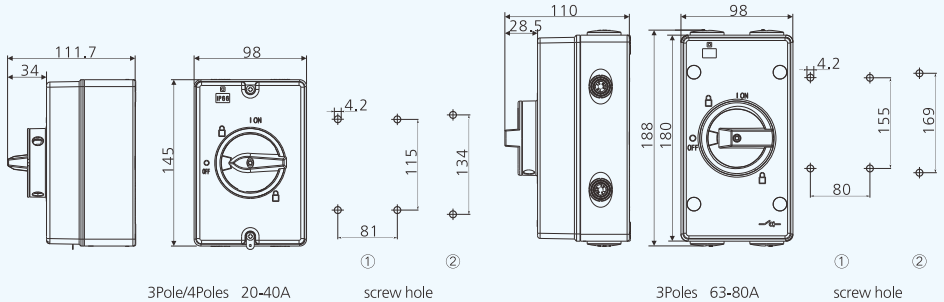
YRAS69 SERIES
AC Rotary Isolation Switch

Technical Data

Type		YRAS69EL/20/4R	YRAS69EL/32/4R	YRAS69EL/40/4R	YRAS69EL/63/3R	YRAS69EL/80/3R
Rated carry current		20A	32A	40A	63A	80A
Rated operating current AC-23A		16A	25A	32A	45A	45A
Rated operating current AC-3		12A	23A	30A	37A	37A
Rated power control AC-23A	240V	4KW	7.5KW	9KW	15KW	15KW
	440V	7.5KW	12.5KW	16KW	22KW	22KW
Rated power control AC-3	240V	3KW	5.5KW	7.5KW	11KW	11KW
	440V	5.5KW	11KW	15KW	18.5KW	18.5KW
UL-CSA Motor load	240V	3KW	5KW	5KW	10KW	10KW
	440V	7.5KW	10KW	10KW	20KW	20KW
Rated short-time withstand current		250A	400A	500A	600A	850A
Cable		0.5-10MM^2			1-16MM^2	
Screw torque		0.8-1.7N • m			1.5-2N • m	
Rated insulation voltage		690V				

Overall and Installation Dimension

Unit: mm



YRAS69 SERIES
Manual Transfer Switch

Overview

YRAS69-XX/X3 series manual transfer switch is mainly used for 50/60Hz, AC rated voltage below 440V or below DC 240V and rated current below 160A electrical circuit. This is used as a manual circuit for infrequent connection or disconnection, for control or switching purposes, and can also be used to directly control three-phase asynchronous motors and as a main signal control and circuit measurement.

Working conditions

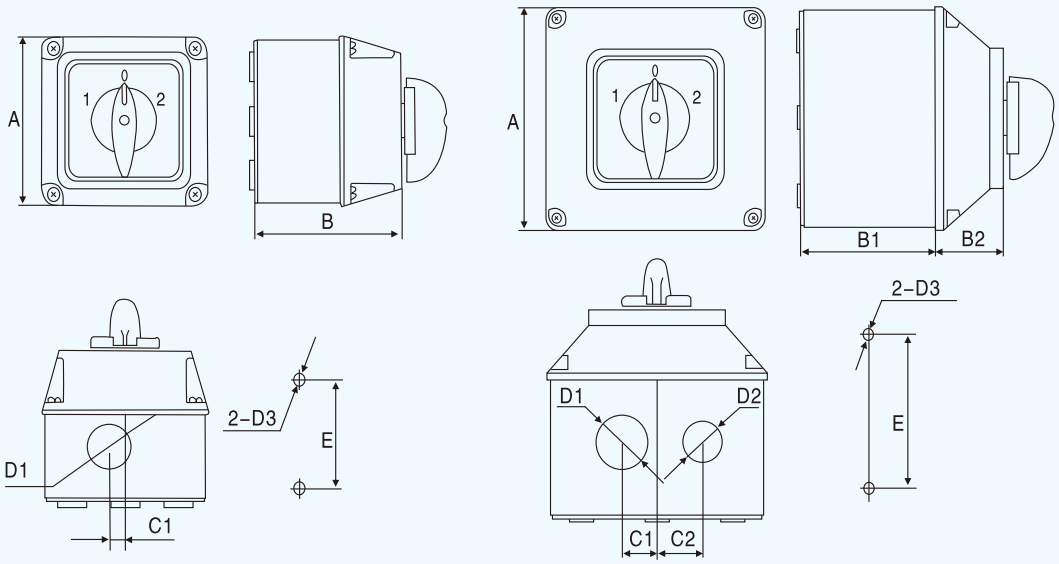
- The altitude must not exceed 2000m.
- The ambient air temperature should not exceed +40℃ and the average temperature within 24 hours should not exceed +35℃, the lowest temperature should not be lower than -25℃.
- When the maximum temperature is +40℃, the relative humidity of the air should not exceed 50%. At lower temperatures, higher relative humidity can be allowed, for example, up to 90%. Special measures should be taken to prevent condensation that may occur due to temperature changes.

Technical Data

Type Code		YRAS69-20	YRAS69-32	YRAS69-63	YRAS69-125	YRAS69-160
	Ui V	660	660	660	660	660
	Ith A	20	32	63	125	160
	Ue V	24, 110, 240, 440	240, 440	240, 440	240, 440	240, 440
AC-21A AC-22A	A	10, 10	32, 32	63, 63	100, 100	150, 150
AC-23A	A	7.5, 7.5	30, 30	57, 57	90, 90	135, 135
AC-2	A	7.5, 7.5	30, 30	57, 57	90, 90	135, 135
AC-3	A	5.5, 5.5	22, 22	36, 36	75, 75	95, 95
AC-4	A	1.75 , 1.75	11, 11	15, 15	30, 30	55, 55
AC-15	A	2.5, 1.5	14, 6			
DC-13	A	12 0.4, 0.4				
AC-23A	KW	1.8, 3	7.5/4, 15/7.5	15/10, 30/18.5	30/15, 45/22	37/22, 75/37
AC-2	KW	2.5, 3.7	7.5, 15	18.5, 30	30, 45	37, 55
AC-3	KW	1.5, 2.2	5.5, 11/5.5	11/6, 18.5/11	15/7.5, 30/13	22/11, 37/18.5
AC-4	KW	0.37, 0.55	2.7/1.5, 5.5/3	5.5/2.4, 7.5/4	6/3, 12/5.5	10/4, 15/7.5

Note 1: Grounding of neutral wire.
Note 2: The rated power denominator of AC-23A, AC-3, and AC-4 indicates single-phase 2-pole, while the numerator indicates three-phase 3-pole. AC-2 indicates three-phase 3-pole as well.
Mechanical life and electrical life: Mechanical life is 0.1 × 106 cycles, with an operating frequency of 120 times/hour. Electrical life is 0.03 × 105 cycles, with an operating frequency of 120 times/hour.

Dimension and Installation Size



Type Code	Auxiliary Contact								Pole
	A	B	C1	C2	D1	D2	D3	E	
YRAS69EL-20/23	68.5	70.5	6.5	-	Φ18	-	Φ5	44	1-2
YRAS69EL-20/43	68.5	122.5	6.5	-	Φ18	-	Φ5	44	1-7
YRAS69EL-63/23	113	107.5	18	23.5	Φ27	Φ21	Φ5	78	1-3
YRAS69EL-63/43	113	158.5	18	23.5	Φ27	Φ21	Φ5	78	1-6
YRAS69EL-125/43	137	206.5	18	23.5	Φ27	Φ21	Φ5	78	1-4
YRAS69EL-160/43	137	206.5	18	23.5	Φ27	Φ21	Φ5	78	1-4

YRQ2CB-63/125 SERIES

Dual Power Transfer Switch
For AC Power System

Class A

Class B

Application

YRQ2CB-63/125 series micro-breaking dual power transfer switch is suitable for AC 50/60Hz dual power supoly system with rated operating voltage of 400V amd rated operating current form 16~125A. Optional transfer of dual power can be made according to requirement.

Advantages

- Complete protective fun ctions,including short circuit, overload,open phase and loss-of-voltage protection.
- Reliable remote double-break with EPs fire protectin powersupply interface DC12-24V
- Noiseless, energy saving,simple installation,easy operation,raliable and stable performance

Product Performance

Main Parameters	
Rated short circuit breaking capacity	3/6kA
Rated short circuit making capacity	3/6kA
Transfer time	3S
Control voltage of transfer switch	AC230V
Mechanical life of transfer switch (transfer of normal and reserve power)	Mechanical life: 3000 times
	Electric life: 1500 times
Rated insulation voltage	U=500V
Rated working current	10A, 16A, 20A, 32A, 40A, 50A, 63A, 80A, 100A, 125A

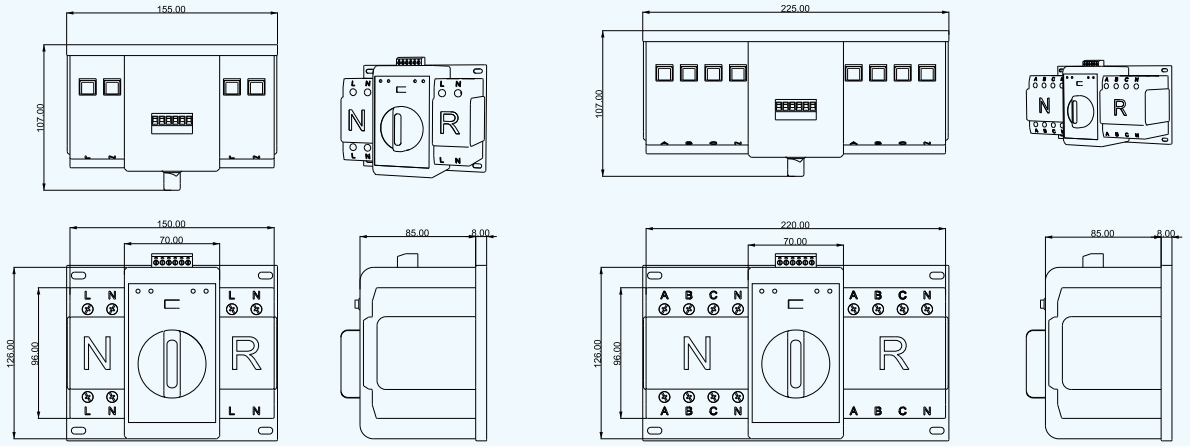
Making and Breaking Capacuy						
Utilization Category	Making and Breaking Test Condition					
	I/Ie	U/Ue	CosΦ	Electrical time(s)	Duration of cycle(min)	Number of operating cycles
AC-B33	6.0	1.05	0.5	0.05	≤5	12
Note: AC-B33 motor load or combined load inccluding motor and resistance load under infrequent operation condition						

Differences between Class A and Class B

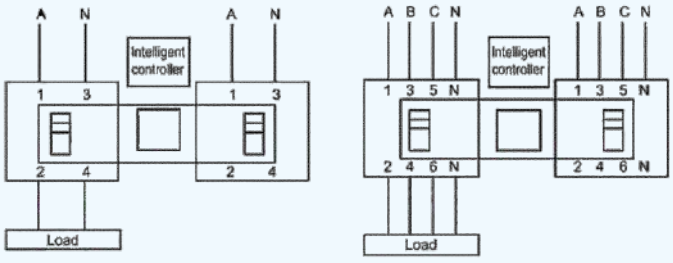
- Class A contains Circuit Breaker inside with overload and short-circuit protection.
- Class B contains disconnector switch inside without overload and short-circuit.

Dimensions

Unit: mm



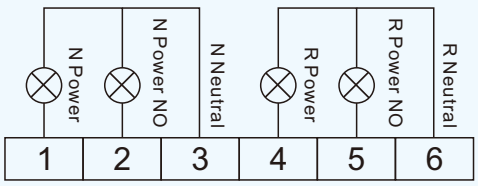
Installation



2-poles wiring diagram

4-poles wiring diagram

Note: When you install the 4P ATS as 3P, terminal No.3 and No.6 must connect the neutral line. The terminals to indicator is 220V, do not connect the power supply to the terminals!



YRQ4CB MCCB SERIES
Automatic Transfer Switch

CE

Application

YRQ4 series automatic transfer switch (hereinafter referred to as ATS switch, also known as home transfer switch) for dual power supply system of AC 50Hz, rated voltage of 380V, rated current of 63A~630A, use automatic or manual operation modes to switch between the common power supply and standby power supply. The home transfer switch is mainly used for hospitals, shops, banks, chemical industry, metallurgy, high-rise buildings, military facilities and other important occasions.

This home transfer switch meets GB / T14048.11-2005 "low-voltage switchgear and controlgear - automatic transfer switching equipment" standard. This product electrical level is CB-class.

Normal working conditions

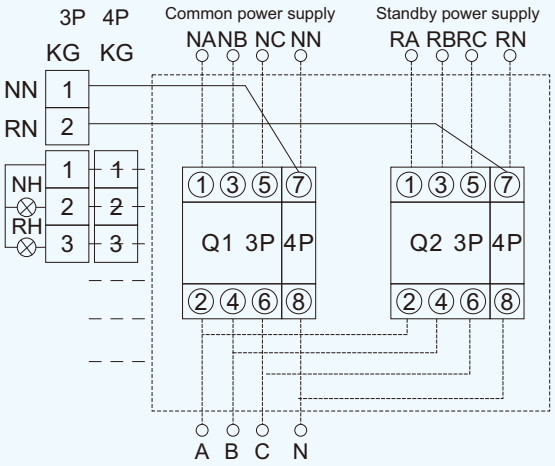
- Ambient air temperature: -5℃~+40℃, and average temperature in 24h is less than +35℃;
- Atmospheric relative humidity is not more than 50% at ambient air temperature of +40℃, there is higher relative humidity in the low temperature. The average maximum relative humidity wettest month of the wettest month is 90%, while the average minimum temperature of this month is +25℃. Taking into account the condensation on the surface of the product due to temperature changes;
- Altitude of installation site is not more than 2000m;
- Installation category: IV;
- This ATS switch should be installed in the place without severe vibration, shock and corrosion;
- Use category: A;
- When the above conditions can not be met, should be resolved by user and manufacturer through consultation.

Basic structure

YRQ4 series ATS switch is mainly composed of power conversion circuit breaker, switch work has three status positions for the user to choose: common power (N) closing, double-opening, standby power (R) closing, the home transfer switch has small size, light weight , stable operation, easy to use and so on.

Installation and use

When wiring, the common power supply N should be connected to the common power supply circuit breaker QN, and the standby power supply R should be connected to the standby power supply circuit breaker QR. When QN and QR are four-wire circuit breakers, the connection mode is according to the wiring diagram, the 1, 3, 5 of QN and QR are three-phase (A, B, C) inlet terminals, 7 is the zero line (N) inlet terminal, 8 is the zero line outlet terminal. If the circuit breaker is a three-pole circuit breaker, it is necessary that the zero line NN of the common power supply (N) and the zero line NR of the standby power supply (R) must be connected to the three-pole special zero line terminal KG. Specific operation see wiring diagram. The power supply Dual power switch automatic controller take inlet line A-phase and zero line N of circuit breaker QN and QR, if use the three-pole circuit breaker, must be connected to the zero line NN and NR, the three-pole dedicated zero terminal is between two circuit breakers, in the installation and wiring of automatic power switch, do not make the local controller line connected to inlet terminal of the circuit breaker forgotten, break or have short circuit.



1. Commonly used zero line
2. Spare zero line
3. The indicator light utility
4. Commonly used lights
5. Standby indicator light

Use operation

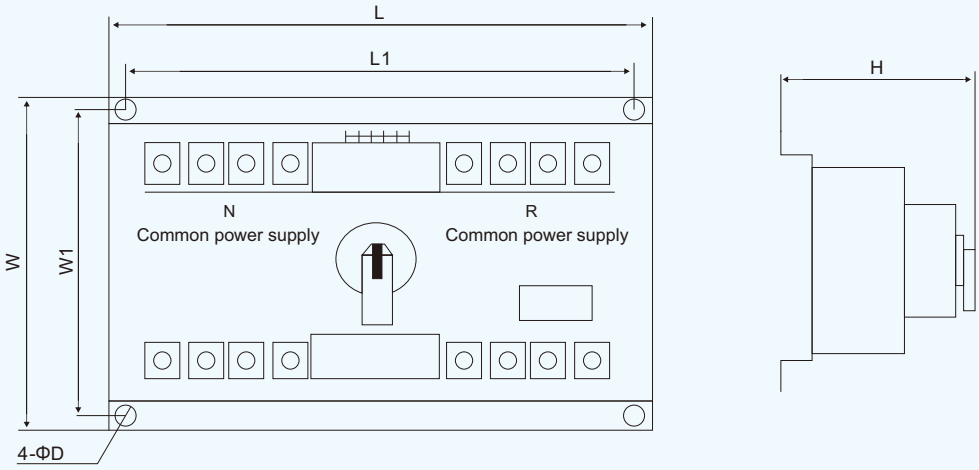
Whether the common power supply and standby power supply voltage, both can use manual operation. When the manual operation, the manual-automatic button should be placed in the manual operation position, when pushing handle clockwise to the terminal, the standby power supply circuit breaker QR is opening, the common power circuit breaker QN is closing; when pushing handle counterclockwise to the terminal, the standby power supply circuit breaker QR is closing, common power supply circuit breaker QN is opening.

On the panel, the power indicator (red), if the light is not on, indicating that the automatic control box power supply has failure, can not operate the ATS switch. After repaired to normal, manual-automatic button is on the automatic position, if the common power supply is normal, the switch will automatically input common power supply circuit breaker QN in closing state, N indicator (yellow) is on on the panel; if the common power supply is not normal, then ATS switch will automatically switch to the standby power supply QR for power supply, standby power supply R indicator light (green) is on.

Note: The actual size shall prevail, the above data is for reference only.

Dimensions

Unit: mm



Specification	L	L1	W	W1	H	D
63/3	290	255	220	200	135	11
63/4	290	255	220	200	135	11
100/3	320	285	240	225	140	11
100/4	320	285	240	225	140	11
225/3	370	335	240	225	160	11
225/4	370	335	240	225	160	11
400/3	525	465	330	300	190	13
400/4	525	465	330	300	190	13
630/3	650	585	330	300	190	13
630/4	650	585	330	300	190	13

YRQ4PC-63N SERIES

Uninterrupted Dual Power Automatic Transfer Switch

CE

Application

YRQ4PC-63N series uninterrupted dual power automatic transfer switch is a PC class infrequent change-over switch, with two-station design (commonly used for A and standby for B), suitable for AC systems with AC 50-60Hz and rated current 6-63A.

The main function of the automatic transfer switch is when the main power (common power supply A) fails, the ATS will automatically switch to the backup power (Backup power supply B) to continue working (switching speed <30 millisoconds), which can effectively solve the troubles caused by power outages.

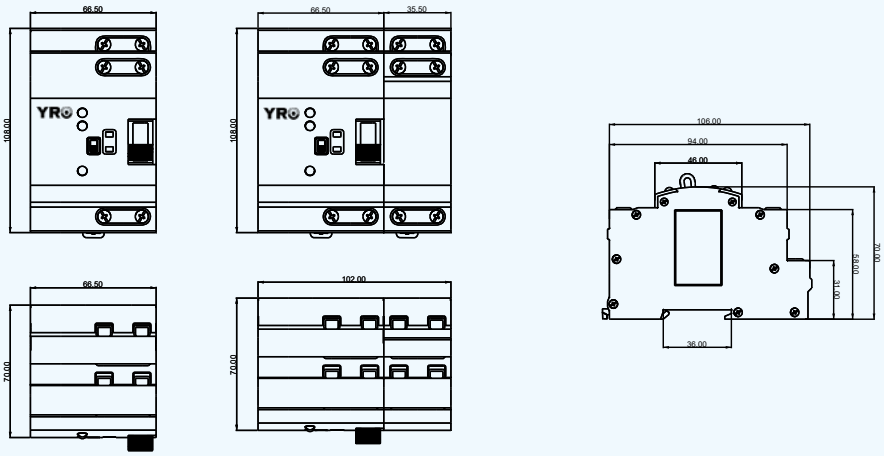
Product Performance

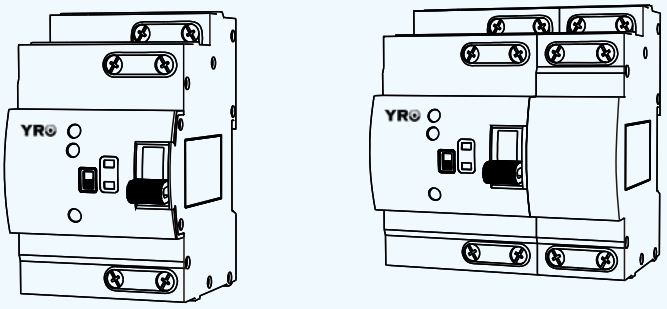
Main Parameters	
Case grade	63A
Rated operating current Ie(A)	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
Rated insulation voltage Ui	690V
Rderd impulse withstand voltage Uimp	8kV
Rated working voltage Ue	AC220/AC110V
Rated frequency	50/60Hz
Class	PC class: can be switched on an loaded without generating short-circuit current
Pole number	2P, 4P
Rated short-circuit current Iq	50kA
Short circuit protection device (fuse)	RT16-00-63A
Rated impulse withstand voltage	8kV
Control circuit	Rated control voltage Us: AC220V.50Hz Normal working conditions: 85% Us-110% Us
Auxiliary circuit	AC220V/110V 50Hz Ie=5A
Contactor change-over time	30ms
Operation change-over time	30ms
Return change-over time	30ms

Main Parameters	
Power off time	30ms
Change-over operation time	30ms
Mechanical life	5000 Times
Electrical life	1500 Times
Usage category	AC-31B

Dimensions

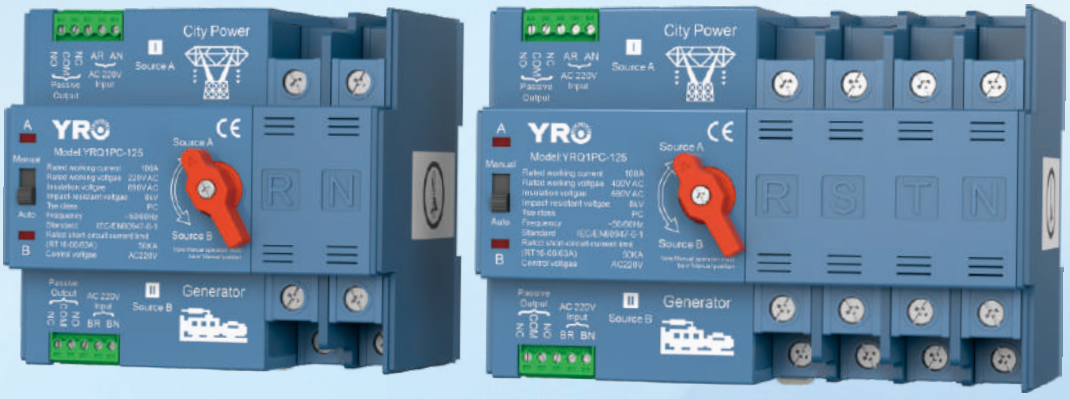
Unit: mm





YRQ2PC-125 SERIES

Uninterrupted Dual Power Automatic Transfer Switch



CE

For on-grid power and generator
Note: Mustn't connect to PV inverter

Application

YRQ2PC-125 series uninterrupted dual power automatic transfer switch is designed for household application. It is mainly used for single-phase household. It can realize millisecond continuous power switching, and can be used as automatic switching equipment for conventional lines and standby circuits to realize millisecond switching of uninterruptible power supply.

The YRQ2PC-125 is designed for city power and generator with less than 50ms transfer time. Either on-grid city power or generator can be the main power or backup power.

The working voltage of the ATS is 85%Us to 110%Us. So you must make sure the operation voltage will not lower than 180V, otherwise the ATS will be damaged.

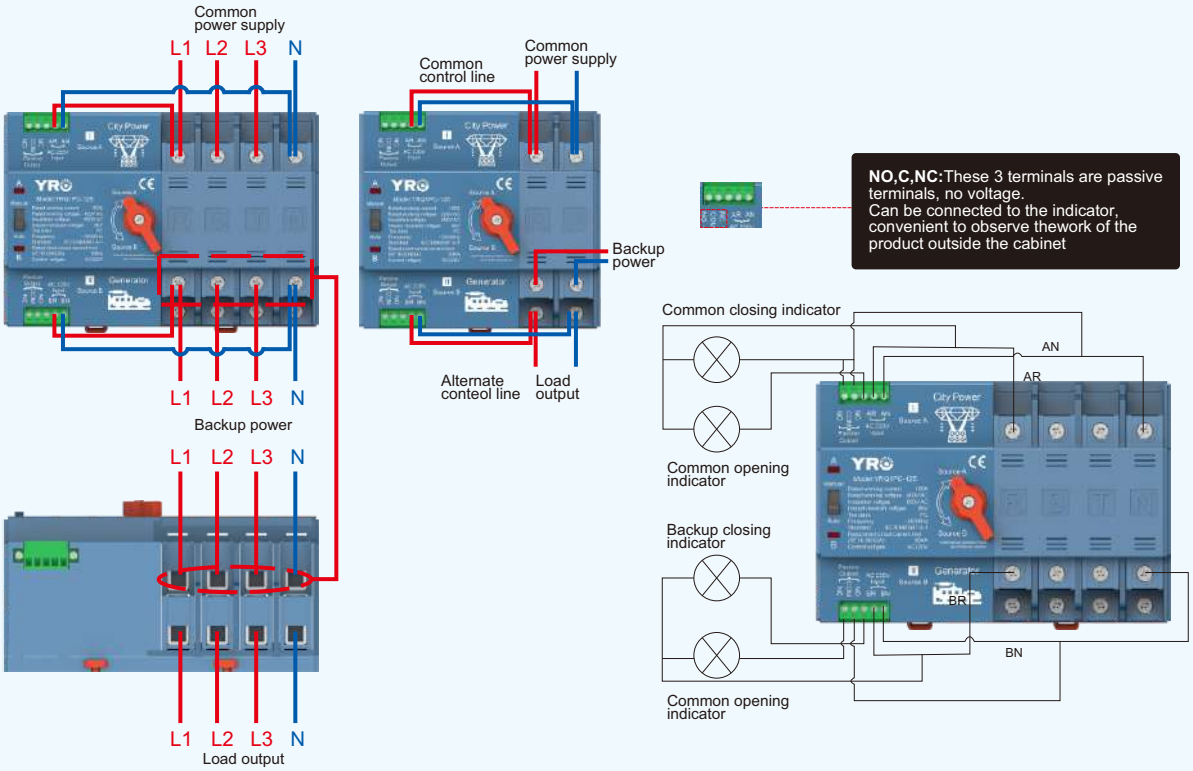
Product Performance

Main Parameters	
Rated Working Current	32 63 100 125A
Insulation Voltage	690V AC
Frequency	50/60Hz
Rated Working Voltage	110V/230V AC
Rated Short Circuit Current Iq	50kA
Impact-resistant Voltage	8kV
Conversion Time of Contactor	< 50ms
Life	Electrical life: 2000 times
	Manual operation: 5000times

Dimensions

Unit: mm

Wiring Instructions



YRQ2PC-125PV SERIES

Dual Power Transfer Switch
(For PV Inverter and on–grid Power)

CE

Application

YRQ2PV-125PV ATS is designed for solar inverter and on-grid city power, with under voltage detector of the inverter AC output voltage. For this model, the main power must be solar inverter and the backup power must be on-grid city power. The backup power should always be powered on, otherwise the YRQ2PV-125PV ATS can't work. The transfer time from main power to backup power is about 40ms and the transfer time from backup power to main power will take about 2 seconds, that's because the ATS has to detecte if the voltage of the inverter output is above 180V.

The working voltage of the ATS is 85%Us to 110%Us. So you must make sure the operation voltage will not lower than 180V, otherwise the ATS will be damaged.

Product Performance

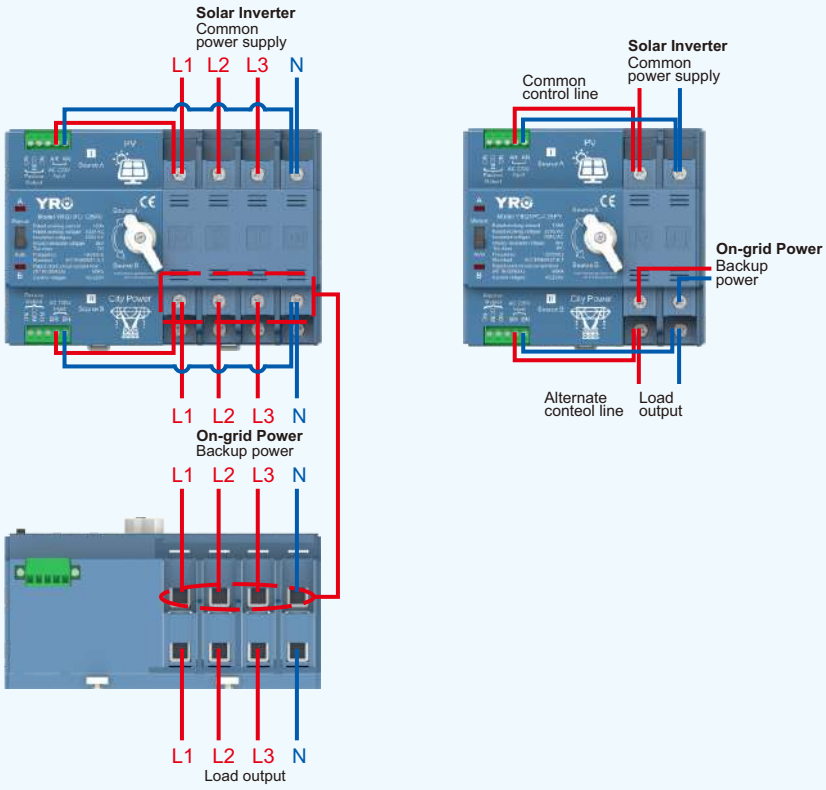
Main Parameters	
Rated Working Current	32 63 100 125A
Insulation Voltage	690V AC
Frequency	50/60Hz
Rated Working Voltage	110V/230V AC
Rated Short Circuit Current Iq	50kA
Impact-resistant Voltage	8kV
Conversion Time of Contactor	< 50ms
Life	Electrical life: 2000 times
	Manual operation: 5000times

Note: The voltage ofthe common and backup powersupply must be 85%-110% of the rated voltage,and the current cannot be less than 5A,otherwise the coil will heat up or even spontaneously combust.
The backup power of the product must be a stable city power,otherwise the product will not switch automatically

Dimensions

Unit: mm

Wiring Instructions



YRQ4PC-250 SERIES
Automatic Transfer Switch

CE

Application

- YRQ4PC-250 series automatic transfer switch, TSE-type PC-class; for power supply system of AC 50Hz, AC rated voltage of 380V, rated current of 3150A, three-phase four-wire.
- To achieve automatic and manual switching between common and standby power supply, in the process of switching power supply, to cut off the power supply to the load.
- Used for the occasion with requirements of two-way power supply and high power quality. There are 16A~200amp automatic transfer switch and 250A~3150A switches produced.
- YRQ4PC-250 series automatic transfer switch complies with GB 14048.3 and GB 14048.11, IEC 60947-3 and IEC 60947-6-1 standards.

Normal working conditions

- The ambient air temperature is not higher than +40 ℃, not lower than -5 ℃.
- The altitude of the installation site shall not exceed 2000m.
- Humidity: the maximum temperature of +40 ℃, the relative humidity of air does not exceed 50%, at a lower temperature can allow a higher.
- Relative humidity, for example 90% at 20 & lt; 0 & gt; C. Special precautions should be taken for condensation that may occur occasionally as a result of temperature changes.
- The pollution level of the surrounding environment is Grade 3.
- Transfer Switch should be installed in the absence of significant shaking, shock and no rain and snow invasion of the place, while the installation site should be no explosion hazard medium, and the media is not enough to corrode the metal and damage the insulation of gases and dust.

Product Performance

Conventionel hesting current (A)		16, 20, 25, 32 40, 63, 80, 100	125 160	200 250	315, 400 630	800	1000, 1250 1600	2000, 2500 3150
Rated insulation voltage (V)		660				800		
Rated impulse withstend voltage (V)		8				12		
Rated voltege (V)		Rated operating voltage: 380V; Control power supply voltage: 220V						
Reted operating current (A)		16, 20, 25, 32 40, 63, 80, 100	125 160	200 250	315, 400 630	800, 1000 1250, 1600		2000, 2500 3150
Reted making end breoking capacity		6Ie						
Rsted short-time withstand current (kA)		5	10		12.6	26	32	55
Conversion time I-II or II-I		⩽3s				⩽4s		
Rated control power(W)	Start	300	325		355	400	400	600
	Normal	55	62		74	90	98	120
Operating force(N)		30~50	40 ~ 60	65 ~ 100	75~120	200~300		250~400

Control characteristics

The switch has three-pole, four-pole (three-pole + neutral pole can be on or off) product.

Four types of control (common type, Ⅰ, Ⅱ, Ⅲ), commonly used is "common type".

Operation mode of the automatic conversion operating mechanism is selected by the key switch, and the position can be maintained by the padlock.

Control characteristic of common-type switch:

Switch is used for the automatic change and automatic recovery of main power supply - standby power supply system.

Control characteristic of Ⅰ-type switch:

Switch is used for the automatic change and non-automatic recovery, mutual standby of electric supply - electric supply main-standby power supply system. The main power to the standby power (Continuous adjustable delay 1~999s),standby power to the main power supply (Continuous adjustable delay 1~999s). There is phase loss detection and over-under voltage protection function.

Control characteristic of Ⅱ-type switch:

Switch is used for the automatic change and automatic recovery of electric supply - electric supply main-standby power supply system. The main power to the standby power (Continuous adjustable delay 1~999s),standby power to the main power supply (Continuous adjustable delay 1~999s). There is phase loss detection and over-under voltage protection function.

Control characteristic of Ⅲ-type switch:

Switch is used for the automatic change and automatic recovery of electric supply - oil machine (have automatic starting and receiving signal function, ordinary oil generators are not available) power supply system.

When the common power supply is applied to the oil machine power supply system, the switch will transmit signal of starting oil machine at first, the oil machine starts after chip warming up (Continuous adjustable delay 0~999s)

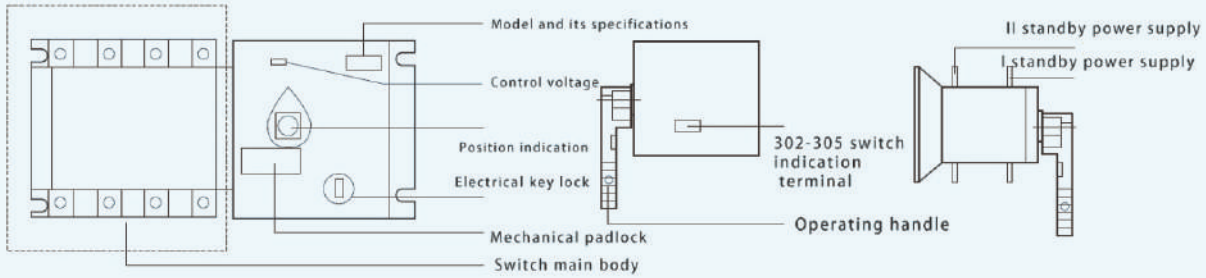
Oil machine back to electric supply, the oil machine is closed after cooling machines (Continuous adjustable delay 0 ~ 999s). There is phase loss detection and over-under voltage protection function.

Above three kinds switches of Ⅰ, Ⅱ, Ⅲ have:

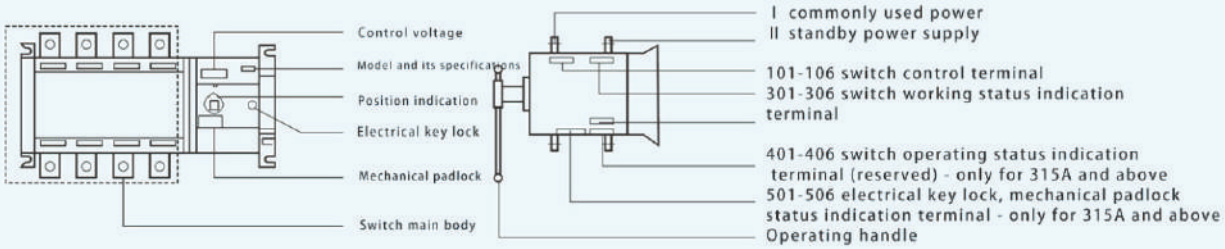
- Automatic, remote control, manual control
- Delay 0.5s to detect signal, to prevent malfunction.
- The automatic status has the remote control "0" position.
- Key switch selects the operating mode.

Product structure

16A-100A /4 common type



100A/3 ordinary type; 100A /3 and 100A /4 of the Ⅰ, Ⅱ, Ⅲ type; 125A~ 3150A of the common type and Ⅰ, Ⅱ, Ⅲ type



a. Electric key lock: internal control line power of control switch, the electrical lock is in the "automatic position", the switch achieves automatic, remote control operation, electrical lock is in the "manual" position, the switch can only be manually operated;

b. Operating handle: when using the operating handle to operate the switch, you must close the electrical lock;

c. Mechanical padlock: when maintenance, firstly, use the operating handle to make switch in the 0 position, pull up the padlock structure and padlock, then can be checked: (pulling the mechanical padlock will cut off the internal control power of switch, the switch can not be electric, and can not be manual);

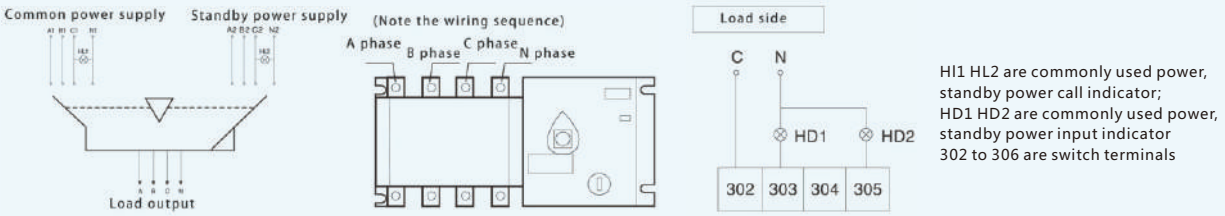
d. Position indication: Indicates the position of the switch operating status (Ⅰ; 0; Ⅱ);

e. Control voltage: switch control voltage level 220VAC;

f. Switch body: the front part is Ⅰ-way, connect to "common power"; the latter part is Ⅱ-way, connect to "standby power."

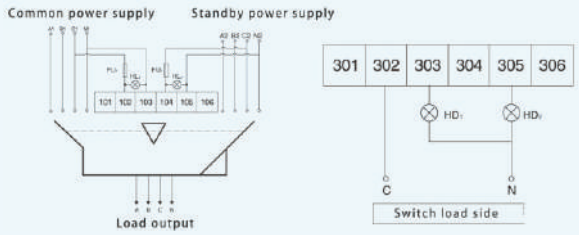
Product structure

Wiring diagram of 16A~100A 4-pole common type main switch



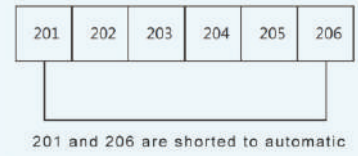
HI1 HL2 are commonly used power, standby power call indicator;
HD1 HD2 are commonly used power, standby power input indicator
302 to 306 are switch terminals

Wiring diagram of 125A~3150A common type main switch

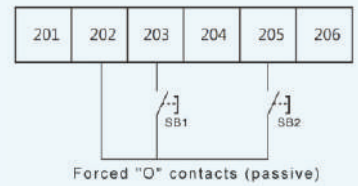


HI1 HL2 are commonly used power, standby power call indicator;
HD1 HD2 are commonly used power, standby power input indicator
FU1 FU2 is a 5A fuse

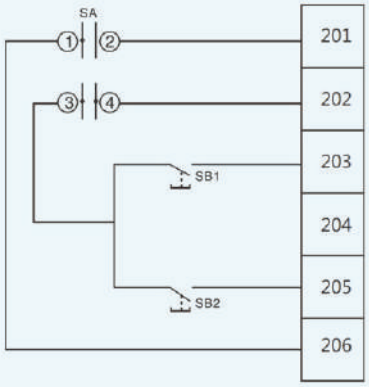
Wiring method of No.2 terminal according to different ways is as follows



Automatic wiring mode



Wiring mode of remote control and position "0"
(double power supply are cut off)



automatic

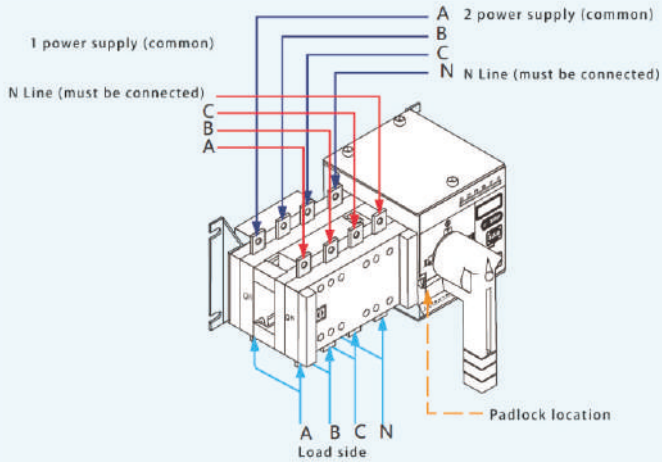
remote control

Note: Select the SA switch in the automatic position ①and ②must be connected. Select the remote control position ③and ④turn on, but must first disconnect the SA switch.

Wiring mode of automatic + remote control
(Note: SB1, SB2 are the external button switch)

Wiring Instructions

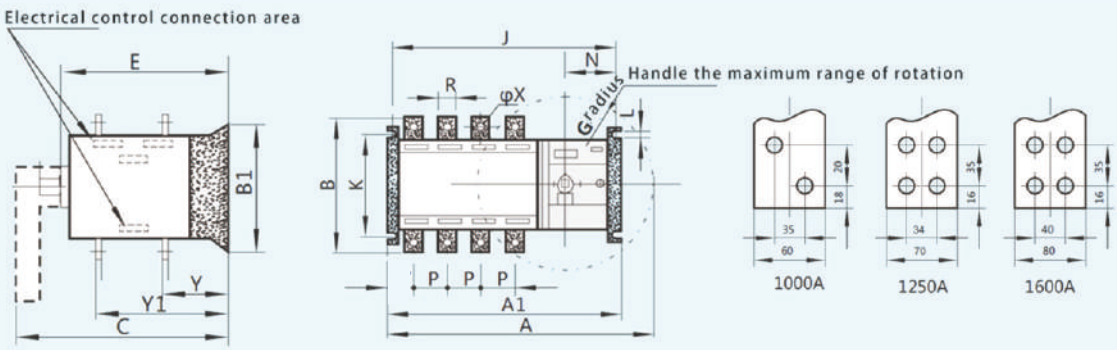
16~100A 4 main switch wiring diagram



Main structure and the correct installation method of switch:
(1) The front part is Ⅰ-way, connect to "common power"; the latter part is Ⅱ-way, connect to "standby power".
(2) Operation mode of the automatic conversion operating mechanism is selected by the key switch, and the position can be maintained by the padlock.
(3) The line bank of switch body from left to right is A, B, C, N phase.
(4) The upper end of the main switch is inlet line of Ⅰ-way, Ⅱ-way, the lower end is outlet line of Ⅰ-way, Ⅱ-way with connection of copper busbar or wire connection for the outlet.

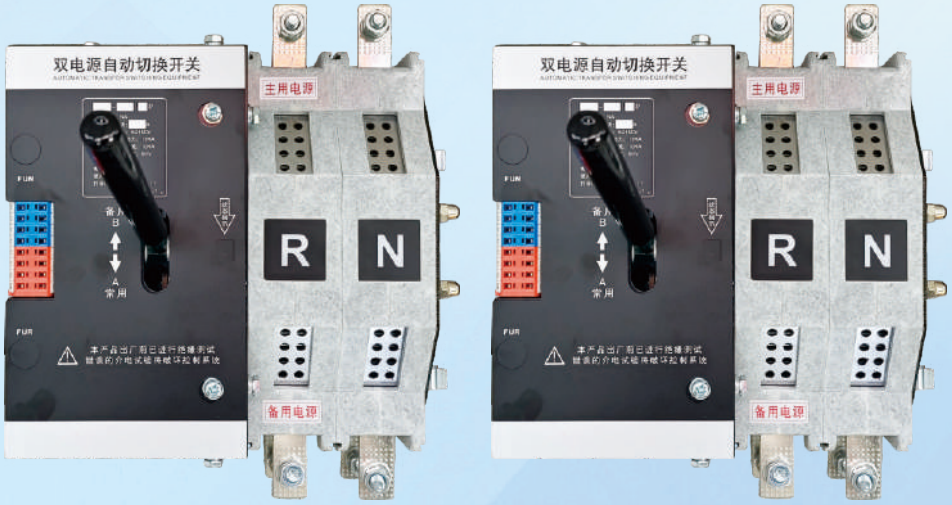
Outline and installation dimensions

1600A and the installation of the size of the map



Main Parameters	Installation dimensions													(mm)
Current	A	A1	B	C	E	J	K	L	N	P	R	ΦX	Y	Y1
16A/3,4	305	245	106	170	133	234	84	7	75	30	14	6	36	86
32A/3, 4	305	245	106	170	133	234	84	7	75	30	14	6	36	86
40A/3.4	305	245	106	170	133	234	84	7	75	30	14	6	36	86
63A/3, 4	305	245	106	170	133	234	84	7	75	30	14	6	36	86
80A/3,4	305	245	106	170	133	234	84	7	75	30	14	6	36	86
100A/3,4	305	245	106	170	133	234	84	7	75	30	14	6	36	86
125A/3	380	282	135	240	208	275	78/108	7	87	36	20	9	58	135
160A/3	380	282	135	240	208	275	78/108	7	87	36	20	9	58	135
125A/4	410	320	135	240	208	312	78/108	7	87	36	20	9	58	135
160A/4	410	320	135	240	208	312	78/108	7	87	36	20	9	58	135
200A/3	420	330	170	240	208	312	78/108	7	87	50	25	11	60	140
250A/3	420	330	170	240	208	312	78/108	7	87	50	25	11	60	140
200A/4	470	380	170	240	208	358	78/108	7	87	50	25	11	60	140
250A/4	470	380	170	240	208	358	78/108	7	87	50	25	11	60	140
315A/3	455	382	240	315	270	365	180	11	95	65	32	11	84	195
400A/3	455	382	240	315	270	365	180	11	95	65	40	13	84	195
630A/3	455	382	260	315	270	165	180	11	95	65	40	13	84	195
315A/4	515	450	240	315	270	430	180	11	95	65	32	11	84	195
400A/4	515	450	240	315	270	430	180	11	95	65	32	11	84	195
630A/4	515	450	260	315	270	430	180	11	95	65	40	13	84	195
800A/3	900	520	310	368	320	500	220	11	85	120	60	13	108	252
1000A/3	900	520	310	368	320	500	220	11	85	120	60	13	108	252
1250A/3	900	520	360	368	320	500	220	11	85	120	70	13	108	252
1600A/3	900	520	360	368	320	500	220	11	85	120	80	13	108	252
800A/4	1010	635	310	368	320	610	220	11	85	120	60	13	108	252
1000A/4	1010	635	310	368	320	610	220	11	85	120	60	13	108	252
1250A/4	1010	635	360	368	320	610	220	11	85	120	70	13	108	252
1600A/4	1010	635	360	368	320	310	220	11	85	120	80	13	108	252
2000A/3	900	520	455	565	495	500	220	11	85	137	80	13	226	457
2000A/4	1010	635	455	565	495	610	220	11	85	137	80	13	226	457
2500A/3	900	520	455	565	495	500	200	11	85	137	80	13	226	457
2500A4	1010	635	455	565	495	610	220	11	85	137	80	13	226	457
3150A/3	900	520	505	565	495	610	220	11	85	142	120	13	230	462
3150A/4	1010	635	505	565	495	610	220	11	85	142	120	13	230	462

YRQ5PC SERIES
Automatic Transfer Switch



Application

This series of dual power automatic switch is a high-tech product developed by our company using the latest technology. It complies with the GB14048.1 and GB/T14048.11 standards, and also meets the "High-rise civil building fire code", "Code for Fire Protection of Building Design", "Guide to Design of Emergency Lighting","Electrical Design of Civil Buildings Specification"etc.

The components of the product undergo strict aging screening, and the finished product is powered on for 72 hours. After passing the inspection, It can be packaged. Thereby ensuring the reliability and safety of the product.

This product is mainly used for the primary and secondary loads specified by the state, and is widely used in an important place to supply power continuously. Such as fire protection, post and telecommunications, Communication, hospitals, hotels, urban rail transit, high-rise buildings, industrial assembly lines, television stations, etc.

The main and backup power sources can be the power grid, the self-starting generator set, the battery group and so on.

Normal working conditions

- Ambient air temperature: ambient air temperature-5℃ to +40℃, and the 24-hour average temperature value does not exceed +35℃. withambient air temperatures above +40℃ or below-5℃, Users should consult with the manufacturer.
- Air humidity: when the maximum temperature is +40℃, the relative humidity is not more than 50%. Monthly maximum relative humidity90%. It can tolerate the influence of humid air at sea and allow at lower temperatures. With higher relative humidity, special measures should be taken for the occasional condensation produced by temperature changes.
- Installation height: the installation site is not more than 2000 meters above sea level. For higher height , considering the decrease in dielectric strength and cooling effect of air at higher altitudes. Users should consult with the manufacturer.
- Pollution level: the environmental pollution level of the installation site is level 3.
- Installation Category: Installation Category is IV.
- Mounting inclination: The product is fixedly installed in the cabinet with a maximum inclination of ± 22.5°
- Arcing distance: The arcing distance is 80mm when AC is 400V. The arcing distance can be ignored when using below 125A.
- Use category: AC-33B

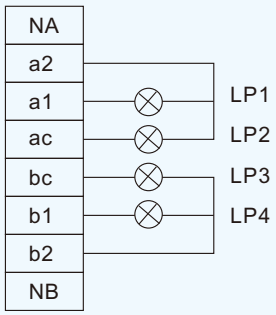
Product structure

- The product consists of two parts: switch body and intelligent ATS controller.
- The switch body with an electrical and mechanical interlock.
- The closing indication is used as an indicator of the isolation function.
- The productused solenoid actuate, double wire loop DC pulse operation,
- The operation power of the conversion controller adopts the line voltage 220V of main power and standby power supply.
- No need to additional control power.

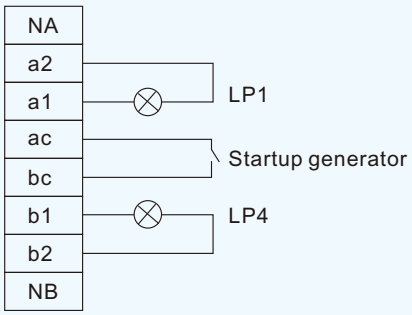
Product Performance

Specification (A)		16/20 25/32	32/40/50/63 80/100/125	160/180 200/250	250/315 350/400	500/630
Rated control power supply voltage (V)		AC 220	AC 220	AC 220	AC 220	AC 220
Rated control supply current (A)		3.5	3.5	7	7	7
Rated short-time withstand current (KA)		10	10	10	10	10
Service life	Mechanical	20000	20000	17000	17000	17000
	Electricat	6000	6000	600	600	600
Operating cycle (1 minute /times)		10	10	12	15	15

Terminal wiring instructions



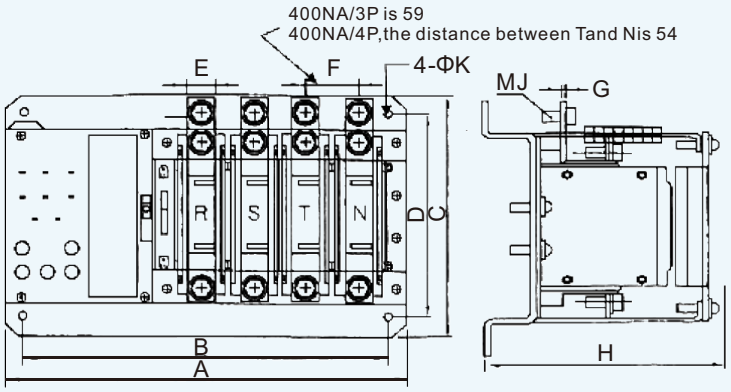
a:Power grids to Power grids



b :Power grids to generator

① NA:It is neutral terminal of normal power for 3poles ATS;
② LP1:Normal Power supply indicator light;
③ LP2:Normal Power indicator light;
④ LP3:Standby Power indicator light;
⑤ LP4:Standby Power supply indicator light;
⑥ NB:It is neutral terminal of standby power for 3 poles ATS;

Outline and installation dimensions



Dimension / Type	A			B			C	D	E	F	G	H	J	K
	2P	3P	4P	2P	3P	4P								
32A	216	243	270	196	223	250	184	167	12	27	3	110	5	9
125A	237	274	311	217	254	291	184	167	20	37	3	110	8	9
250A	/	322	372	/	302	352	290	200	20	49	5	146	8	10
400A	/	352	402	/	332	382	294	200	30	59	6	146	10	10
630A	/	352	412	/	332	392	294	200	35	59	6	146	12	10

YMTS-63 SERIES
Manual Transfer Switch

40A

63A

CE

Application

The purpose of the Manual Transfer Switch is to manually transfer power to an alternate source. The most common application is transferring power from a backup power source to the load during utility failures.

When installed properly, the Manual Transfer Switch provides an easy means fortransferring loads to an alternate source in the event of another power source failure.

Features

- Manual Transfer Switch has a high voltage range of 1 -600VAC.
- Adequate durability has been ensured by testing against the IEC 60947-3 standard in the specification of endurance requirements.
- The manual transfer switch is operated via a handle fixed directly on the switch.
- The 16 to 63 Ampere sizes can be snapped-on to a DIN rail and the front fits in the 45 mm consumer unit cut-out.
- Clearly marked power postions with Indicator lights to easily understand which power source is being utilized.
- Label window for easy and clear labeling of power sources.

Model and meaning

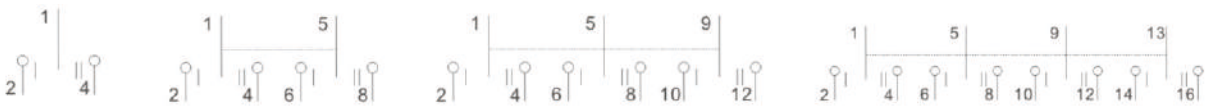
Y	MTS	—	63	2P	63A
Corporate code	Manual transfer switch		Frame grade (A)	Number of Poles	Rated current (A)

Technical Parameters

Technical Data	
Rated Voltage	230 / 400V~
Rated Current	63A
Rated Frequency	50 /60Hz
Number of Poles	1P, 2P, 3P, 4P
Indicator	1-0-2 (1=Main Power ON, 0=OFF, 2=Standby Power ON)
	Indicator Window 1=Red, 0=Green, 2=Yellow (Customizable)

Electrical Features	
Short Circuit Current	1200A
Mechanical Life	10000 Cycles
IP Rating	IP20
Operating Temperature	-5°C ~ 50°C
Cable Size	Max 10mm^2
Mounting	DIN 35mm Rail

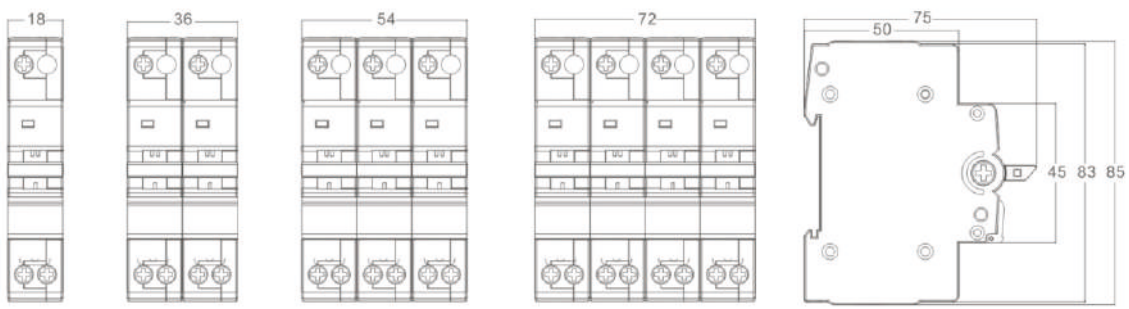
Circuit Diagram



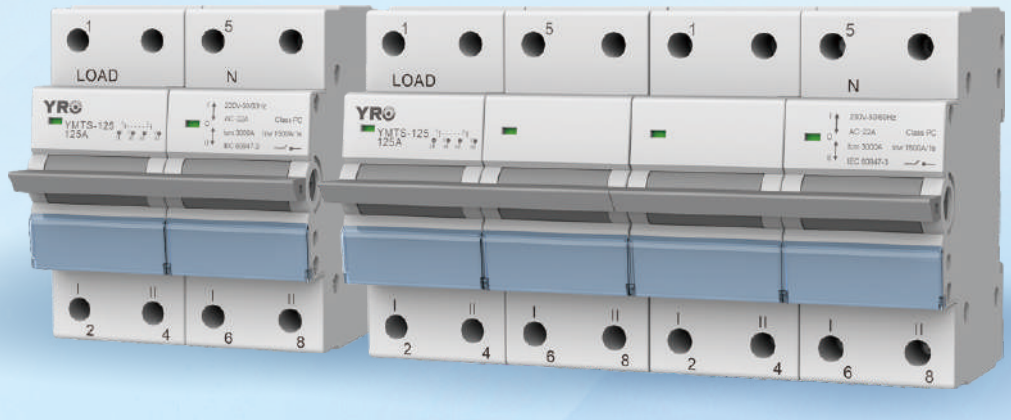
1P 2P 3P 4P

Dimensions

Unit: mm



YMTS-125 SERIES
Manual Transfer Switch



CE

Application

The purpose of the Manual Transfer Switch is to manually transfer power to an alternate source. The most common application is transferring power from a backup power source to the load during utility failures.

When installed properly, the Manual Transfer Switch provides an easy means fortransferring loads to an alternate source in the event of another power source failure.

Features

- Manual Transfer Switch has a high voltage range of 1 -600VAC.
- Adequate durability has been ensured by testing against the IEC 60947-3 standard in the specification of endurance requirements.
- The manual transfer switch is operated via a handle fixed directly on the switch.
- The 16 to 63 Ampere sizes can be snapped-on to a DIN rail and the front fits in the 45 mm consumer unit cut-out.
- Clearly marked power postions with Indicator lights to easily understand which power source is being utilized.
- Label window for easy and clear labeling of power sources.

Model and meaning

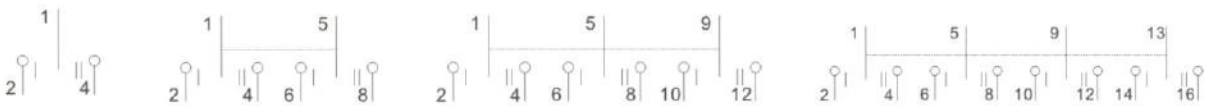
Y	MTS	—	125	2P	125A
Corporate code	Manual transfer switch		Frame grade (A)	Number of Poles	Rated current (A)

Technical Parameters

Technical Data	
Rated Voltage	230 / 400V~
Rated Current	125A
Rated Frequency	50 /60Hz
Number of Poles	1P, 2P, 3P, 4P
Indicator	1-0-2 (1=Main Power ON, 0=OFF, 2=Standby Power ON)
	Indicator Window 1=Red, 0=Green, 2=Yellow (Customizable)

Electrical Features	
Short Circuit Current	3000A
Mechanical Life	10000 Cycles
IP Rating	IP20
Operating Temperature	-5°C ~ 50°C
Cable Size	Max 50mm^2
Mounting	DIN 35mm Rail

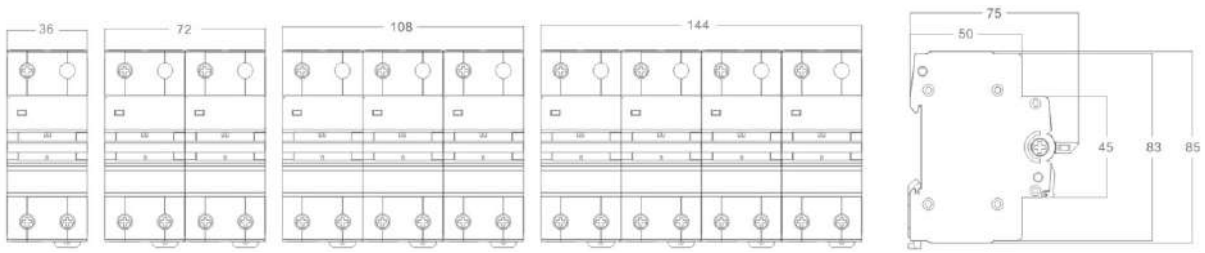
Circuit Diagram



1P 2P 3P 4P

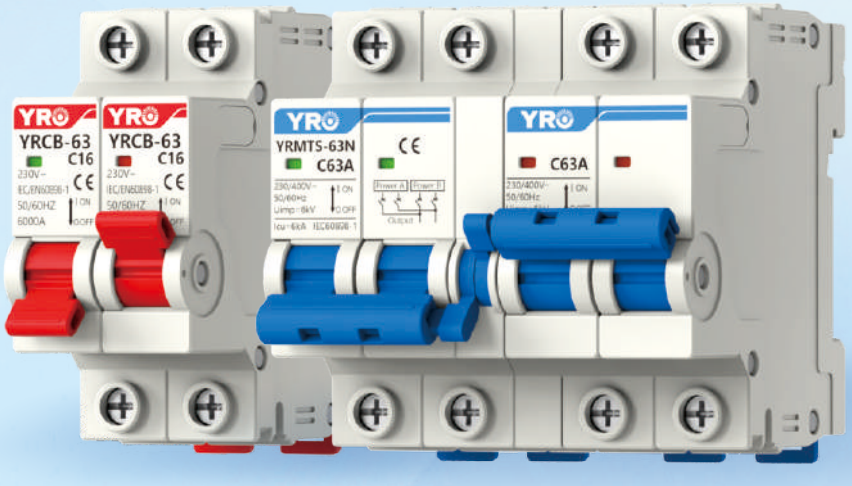
Dimensions

Unit: mm



YRMTS-63 SERIES

Manual Transfer Switch
(Inter–lock Circuit Breaker)



CE

Application

YRMTS-63 series manual transfer switch (solar transfer switch) is a new circuit breaker with interlocking mechanism developed by our company, the solar transfer switch adds in interlocking function based on original YRCB-63 miniature circuit breakers, that is, the other side of the circuit breaker can only keep opening state when the side of the circuit breaker closing, to achieve line switching and other protection.The solar transfer switch developed by our company has the functions of overload, short circuit protection and circuit conversion. The solar transfer switch has reasonable and reliable design, beautiful appearance and light weight. It is mainly used for switching and overload and short circuit protection of other control circuit.

YRMTS-63 series manual transfer switches comply with GB10963 and IEC60898 standards.
There are 6A/10A/16A/20A/25A/32A/40A/50/63A/80A/100A/125A amp transfer switches

Technical Parameters

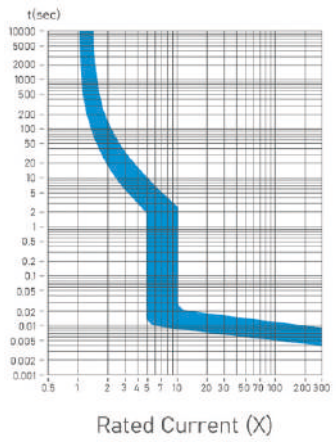
- Rated short-circuit breaking capacity: 4000A ; cosΦ 0.45~0.50.
- Instruction window.
  Mechanical Contact Indication Window, Definite disconnection instructions.
  The window is green, the contacts are open; The window is red, the contacts are closed.
- Tripping characteristics.
  C-curve: protect conventional loads and distribution cables, the magnetic trip unit is set to operate within the range of 8.5In±20%.
  D-curve: to protect shock loads with large starting current (such as transformers, etc.), the magnetic trip unit is set to operate in the range of 12In±20% V.
- Humidity and heat resistance: Class 2 (temperature 55°C, relative humidity 95%).
- Wiring: Use terminal blocks with clips, and the cross-sectional area of the fixed cable can be less than 50mm².
- Mounting rail: TH35-7.5 standard steel mounting.

Technical Data	
Rated Current	10A, 16A, 32A, 40A, 63A
Poles	1P, 1P+1P, 2P, 2P+2P, 3P, 3P+3P, 4P, 4P+4P
Rated Voltage Ue	AC230V/AC400V
Rated Insulation Voltage	660V
Indication Window	Green Window(Disconnected), Red Window(Closed)
Rated Breaking Capacity	4500A/6KA
Protection Class	IP20
Thermo - Magnetic Release Characteristic	C-Curve (5-10In), D-Curve (10-14lIn)
Electrical Life	4000
Mechanical Life	20000
Reference Temperature For Setting Of Thermal Element	30℃
Ambient Temperature	-5~+40℃
Terminal Connection Type	Phillips Screws
Adapter Cable	80-125A 8-35mm² 16-2AWG
Tightening Torque	3.0 N.m

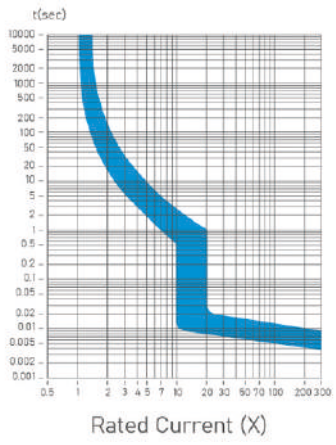
Combination With Accessories Auxillary Contact	
Auxillary Contact	Yes
Alarm Contact	Yes
Shunt Release	Yes
Under Voltage Release	Yes

Tripping Characteristic Curve -- C D Type

Curve C

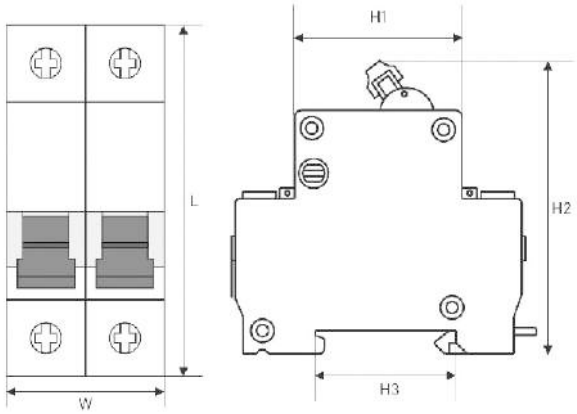


Curve D



Outline and installation dimensions

Unit: mm

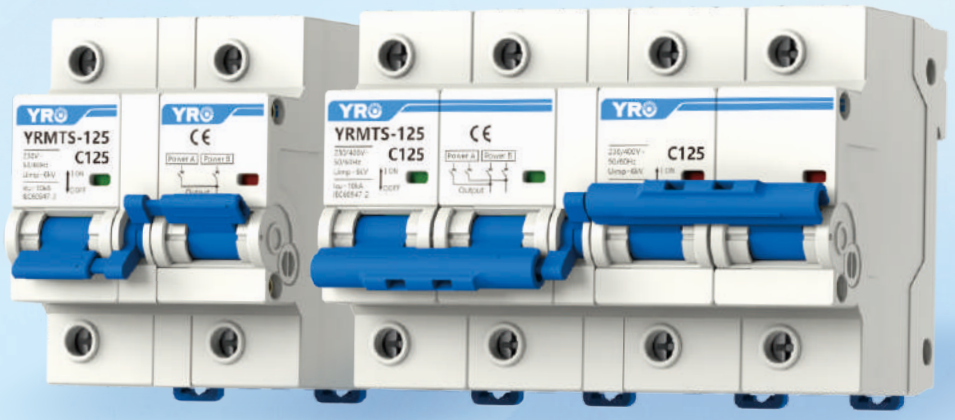


YRMTS-63					
Poles	H1(mm)	H2(mm)	H3(mm)	W(mm)	L (mm)
1P+1P	45	72	35.5	36	80
2P+2P	45	75	35.5	72	80
3P+3P	45	75	35.5	108	80
4P+4P	45	75	35.5	144	80

YRMTS-63N					
Poles	H1(mm)	H2(mm)	H3(mm)	W(mm)	L (mm)
1P+1P	45	72	35.5	45	80
2P+2P	45	75	35.5	81	80
3P+3P	45	75	35.5	117	80
4P+4P	45	75	35.5	153	80

YRMTS-125 SERIES

Manual Transfer Switch
(Inter–lock Circuit Breaker)



CE

Application

YRMTS-125 series manual transfer switch (interlocking conversion series high breaking miniature circuit breaker). It is a new type product with three function of overload, short circuit protection and power line conversion. It can be used as hand-operated miniature dual-power switch. The circuit breaker on the other side can only be kept off when the side of circuit breaker is closed, to achieve protection functions of switching between normal and standby power line, feel comfortable when operating, power is up-in and down-out, in line with the power line characteristics. There are 100 amp transfer switch, 125 amp and others.

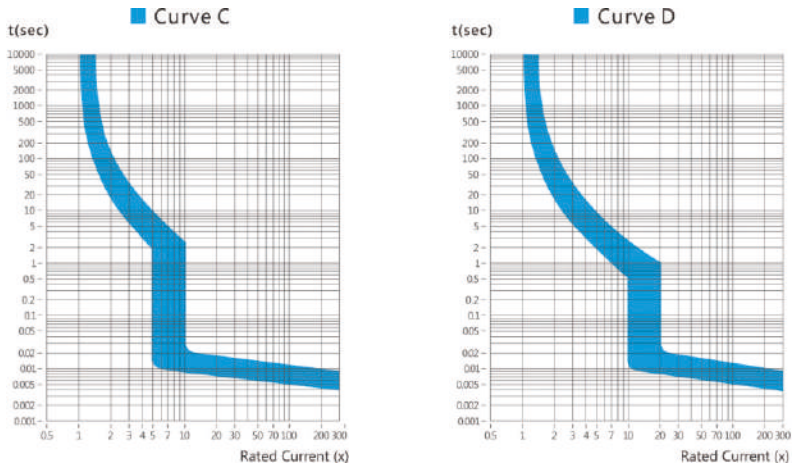
YRMTS-125 series manual transfer switches are compact, have rational and reliable design, beautiful appearance, light weight, fast operation, easy installation, affordable!
YRMTS-125 series manual transfer switches comply with standards of GB10963 and IEC60898.

Technical Parameters

Technical Data	
Rated Current	80A, 100A, 125A
Poles	1P+1P, 2P+2P, 3P+3P, 4P+4P
Rated Voltage Ue	AC230V/AC400V
Rated Insulation Voltage	660V
Indication Window	Green Window(Disconnected), Red Window(Closed)
Rated Breaking Capacity	7.5kA/10kA
Protection Class	IP20
Thermo - Magnetic Release Characteristic	C-Curve (5-10In), D-Curve (10-14In)
Electrical Life	4000
Mechanical Life	20000
Reference Temperature For Setting Of Thermal Element	30℃
Ambient Temperature	-5~+40℃
Terminal Connection Type	Phillips Screws
Adapter Cable	80-125A 8-35mm^2 16-2AWG
Tightening Torque	3.0 N.m

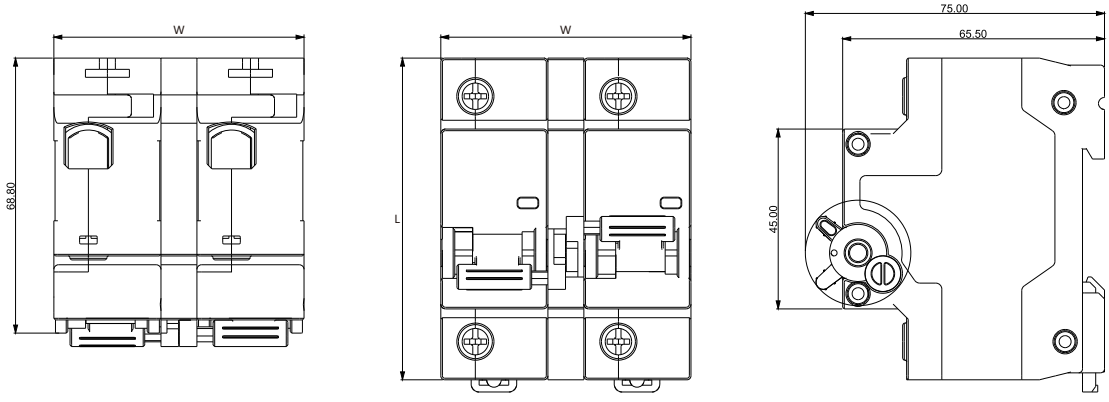
Combination With Accessories Auxillary Contact	
Auxillary Contact	Yes
Alarm Contact	Yes
Shunt Release	Yes
Under Voltage Release	Yes

Tripping Characteristic Curve -- C D Type



Outline and installation dimensions

Unit: mm



Poles	H1(mm)	H2(mm)	H3(mm)	W(mm)	L (mm)
1P+1P	45	76	35.5	63	80
2P+2P	45	76	35.5	117	80
3P+3P	45	76	35.5	171	80
4P+4P	45	76	35.5	225	80

YRVP-3 SERIES
Intelligent Protection Switch

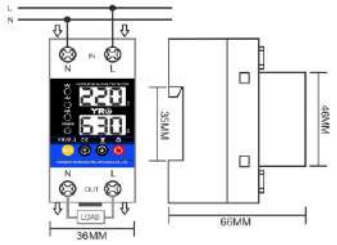
CE

Technical Data

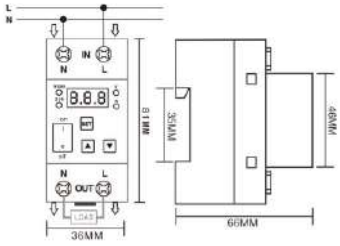
Data	
Supply terminals	N,L
Rated supply voltage	AC 220V
Rated frequency	50/60Hz
>V setting range	AC130-300V
<V setting range	AC80-210V
Voltage hysteresis	5V
Overvoltage trip delay	0.5s
Voltage accuracy	<1%
Max. operating phase voltage	350V
Max. operating current	40A/63A/80A/100A
Altitude	≤2000m
Delay time	1-999s
Permissable relative humidity	≤50% at 40℃ (without condensation)
Ambient temperature	-25℃~+55℃

Wiring& Dimensional Diagram

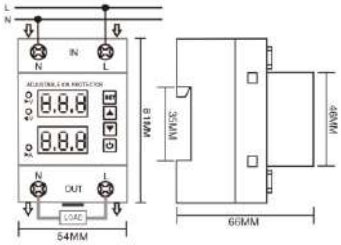
Unit: mm



YRVP-3



YRVP-3/1



YRVP-3/2

YRVP-3/3 SERIES

Intelligent Protection Switch (Three Phase)

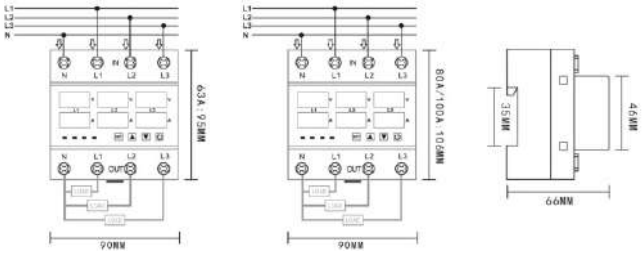
CE

Technical Data

Data	
Supply terminals	N,L
Rated supply voltage	AC 220V
Rated frequency	50/60Hz
>V setting range	AC230-300V
<V setting range	AC120-210V
Voltage hysteresis	5V
Overvoltage trip delay	0.5s
Voltage accuracy	<1%
Max. operating phase voltage	350V
Max. operating current	63A/80A/100A
Altitude	≤2000m
Delay time	1-600s
Permissable relative humidity	≤50% at 40℃ (without condensation)
Ambient temperature	-25℃~+55℃

Wiring& Dimensional Diagram

Unit: mm



YRVP-3/3

YRVP-4 SERIES
Reclosing Relay

CE

Overview

YRVP-4 series reclosing relay contains the functions of overvoltage, under voltage, over current and earth leakage protection. It can adjust the protection voltage and current as end users like.

Functional Features

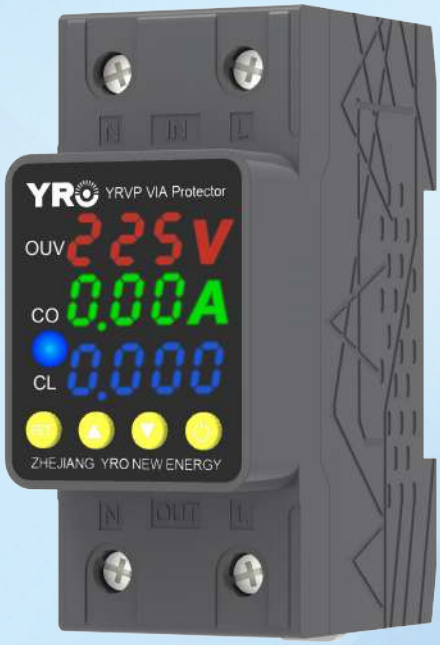
- Earth Leakage protection:
  When the earth leakage accurs, the reclosing relay will shutdown within 0.1 second.You can set the leakage current between 10-99mA and you can also turn off the leakage protection.
- Overcurrent/overload protection:
  The reclosing relay will shutdown within 2 seconds when the working current exceed 1.15 times of the overcurrent;
  The reclosing relay will shutdown immdiently if the overcurrent over 3 times of the rated current.
  You can set the overcurrent from 1A to 63A.
- Overvoltage protection:
  The reclosing relay will shutdown when the working voltage exceed 250V. It will turn on the relay when the voltage under 250V.
  You can set the overvoltage from 250V to 300V and the overvoltage protection function can be turned off.
- Undervoltage protection:
  The reclosing relay will shutdown when the working voltage under 150V. It will turn on the relay when the voltage exceed 150V.
  You can set the undervoltage from 150V to 190V and the undervoltage protection function can be turned off.

Technical Data

Data	
Max Power	13kW(Resistive Load)
Over Voltage Range	250-300V
Under Voltage Range	150-190V
Over Current Range	1-63A
Leakage Range	30-99mA
Overload Time delay	01d-030d
Recover Time	30s-90s

YRVP-6 SERIES

Intelligent Protection Switch



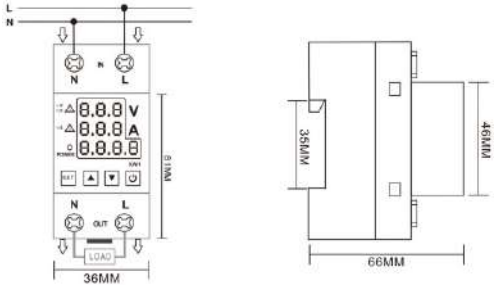
CE

Technical Data

Data	
Supply terminals	N,L
Rated supply voltage	AC 220V
Rated frequency	50/60Hz
>V setting range	AC240-300V
<V setting range	AC140-210V
Voltage hysteresis	5V
Overvoltage trip delay	0.5s
Voltage accuracy	<1%
Max. operating phase voltage	350V
Max. operating current	63A
Altitude	≤2000m
Delay time	1-300s
Permissable relative humidity	≤50% at 40℃ (without condensation)
Ambient temperature	-25℃~+55℃

Wiring& Dimensional Diagram

Unit: mm



YRVP-6 WIFI SERIES
Intelligent Protection Switch

Overview

YRVP-6 WIFI series single-phase rail-mounted intelligent protection switch is a product that meets users' needs for circuit protection and control.

The product features functions such as metering, timing, fault protection, remote control, and local control.

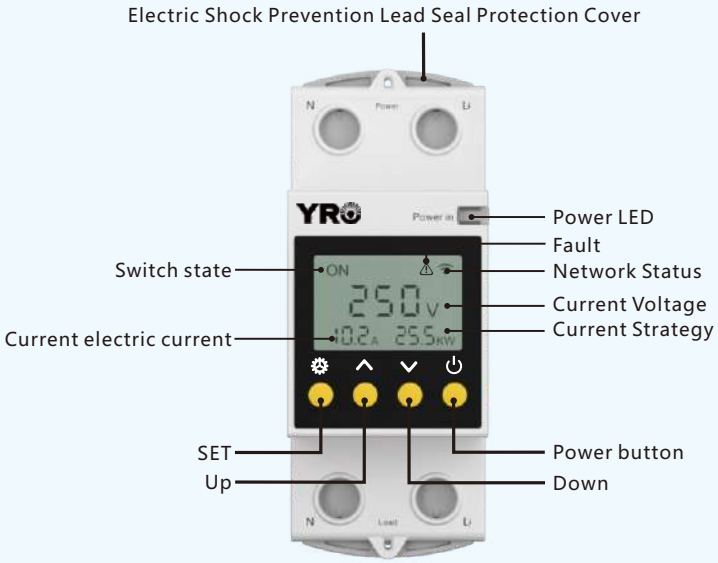
Functional Features

- Supports multiple control platforms such as YRO APP.
- Supports local or remote operation for turning on and off.
- Supports DIN-rail mounting.
- Remote control without distance limitations.
- Supports customization of protection thresholds.

Technical Data

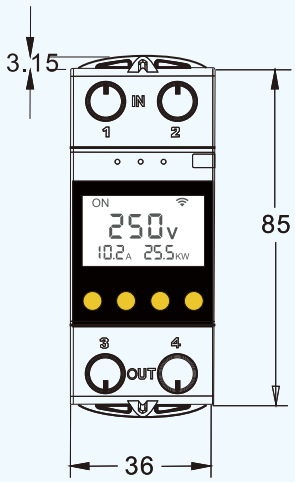
Reference voltage	220V、230V
Specified operating voltage	90% Un~110% Un
Extended operating voltage	80%Un~ Un~115% Un
Current specification	6-63A
Frequency range	(50-60) Hz
Power consumption	Voltage circuit:≤1.5W
Communication	YROW IFI
Operating temperature	-20℃ ~70℃
Operating humidity	≤95%
Dustproof and waterproof	I P 20
Product size	91.3mm*36mm*66.5mm
Measurement Accuracy	Voltage and current accuracy: 1%
	Energy accuracy: 2%
Display	LCD
Voltage accuracy	Class 2.0(with energy metering function Class 1.0)
Current accuracy	Class 2.0(with energy metering function Class 1.0)
Active power accuracy	Class 2.0
Overvoltage protection	Protection switch: overvoltage value; recovery value; judgment and recovery time.
Undervoltage protection	Protection switch: undervoltage value; recovery value; judgment and recovery time.
Overcurrent protection	Protection switch: overcurrent value; judgment time.
Overpower protection	Protection switch: over power value; judgment time.

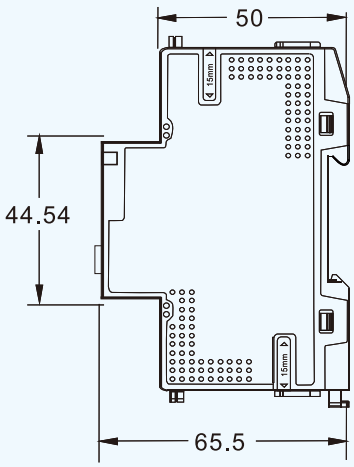
Panel Diagram



Wiring & Dimensional Diagram

Unit: mm





YRVP-ATS SERIES

Automatic Changerover Switch

CE

Functional Features

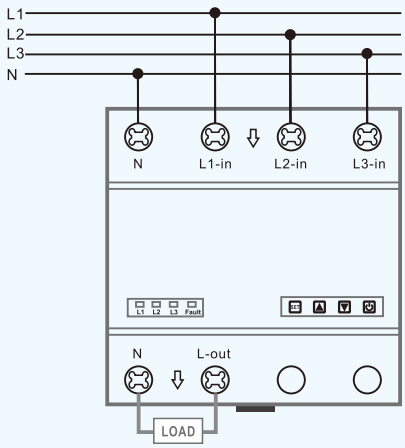
- Automatic Transfer Switch: with "Priority"phase
- Microcontroller based
- Parameter setting by knobs
- Overvoltage and undervoltage protection
- Overcurrent protection
- LED indication for operating voltage
- Din-rail mounting
- Size:63A/80A/100A:90*106*66mm(W*L*H)

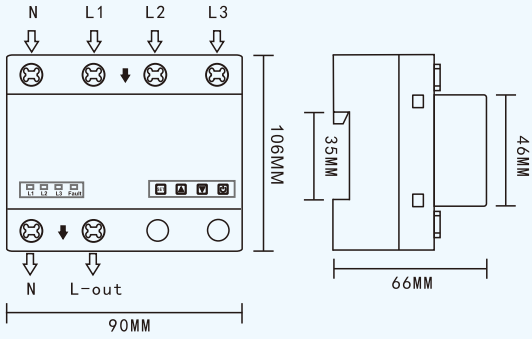
Technical Data

Data	
Supply terminals	N,L1,L2,L3
Rated supply voltage	AC 3*220V(N-L1/L2/L3)
Rated frequency	50/60 Hz
Umax setting range	230-300V
Umin setting range	140-210V
Auto-reclosing delay(Ton)	1-600s
Return delay to priority phase	1-600s
Switch delay to reserve phases	<0.2s
Voltage hysteresis	5V
Overvoltage trip delay	0.1s; ≥350V: 0.02s
Undervoltage trip delay	0.1s; ≥350V: 0.02s
Voltage accuracy	<1%
Max. operating phase voltage	350V
Rated operating current	63A/80A/100A
Max. operating current	80A/90A/100A
Storage temperature	-25℃~+55℃
Conductor size	0.5mm²~1mm²

Wiring & Dimensional Diagram

Unit: mm





YCH8 SERIES
Modular Contactor

Application

YCH8 series household AC contactor (hereinafter referred to as" contactor") Is a controller used for connecting and breaking non-inductive or low inductive load, resistance furnace, household appliances, low-inductive load with similar use and household

The contactor is mainly used under the power system with AC 50/60Hz, rated operational voltage of 400V and rated operational current of 63A, and also can be used as remote switch and control circuit under the circumstance of AC-1, AC-7a and AC-7b. As the contactor is not used for breaking short-circuit current,a proper short-circuit protective device is required at the same time.

Normal working conditions

- The ambient temperature ranges between -5℃ and +60℃. If the contactor is Installed in a distribution box,distance pieces are required to be assembled onboth sides, so as to help thermal dissipation;
- Altitude: 2000m;
- The atmospheric relative humidity does not exceed 50% when the maximum ambient temperature is +60℃. It is allowed to have relative higher humidity under lower temperature, e.g.up to 90% for +20℃. For the occasional condensation due to changes of the temperature, preventive measures shall be taken;
- The installation siteshall be vertical with inclination at all direcions not exceeding +5 ;
- It shall be installed in a place without shock and vibration;
- Pollution class: 2;
- Installation category: use of steel DIN Rail 35-7.5 for installation.

Technical Parameters

Common use category and relevant code

Use category	Typical use
AC-7a	Household appliances and other low-inductive loads with similar use.
AC-7b	Household motor load.

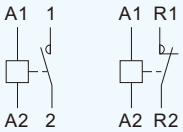
Note: AC-7b category can be applied for accidental dense breaking (jog) or reversed braking in a limited time, during which operations shall not beconducted for more than 5 times per minute or 10 times in 10 minutes.

Basic parameters of a contactor

Parameter		Parameter					
		16A	20A	25A	32A	40A	63A
Rated current In(A)	AC-7a	16	20	25	32	40	63
	AC-7b	6	7	9	12	15	20
Conventional free air thermal current(A)		25	25	25	63	63	63
Rated insulation voltage Ui(V)		500					
Rated voltage Ue(V)		250V(2P) 400V(4P)					
Ambient temperature		-5℃~+60℃					
Making and breaking capacity(AC-7a)		1.5Ie					
Main Contacts	1P	1NO, 1NC					
	2P	1NO+1NC, 2NO, 2NC					
	3P	3NO, 3NC					
	4P	2NO+2NC, 4NO, 4NC, 3NO+1NC					
Controlled power (KW)	AC-7a	3.5	4.5	5.5	7.2	9	14
		6.3	10	16	21	26	40
	AC-7b	1.4	1.5	2	2.8	3.7	5
		2.4	2.8	4	8.5	11	15
Electrical durability(times)		10×10^4					
Mechanical durability(times)		100×10^4					
Operation frequency/1h		30					
Coil Voltage Us(V)		AC 24V 50/60Hz, AC 48V 50/60Hz, AC 110V 50/60Hz, AC 230V50/60Hz					
Fastening torque (N.m)	Main circuit terminal	0.8			3.5		
	Control circuit terminal	0.8					

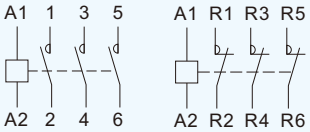
Type

1P



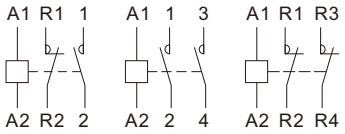
Contact: 1NO, 1NC

3P



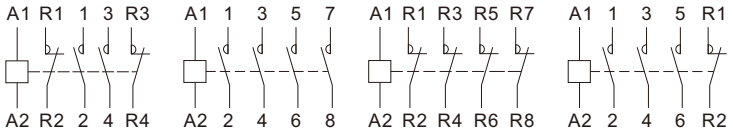
Contact: 3NO, 3NC

2P



Contact: 1NO+1NC, 2NO, 2NC

4P



Contact: 2NO+2NC, 4NO, 4NC, 3NO+1NC

Rated duty

a) Eight-hour duty

The conventional free air thermal current Ith of a contactor is determined by this basic duty

b) Intermittent periodic duty

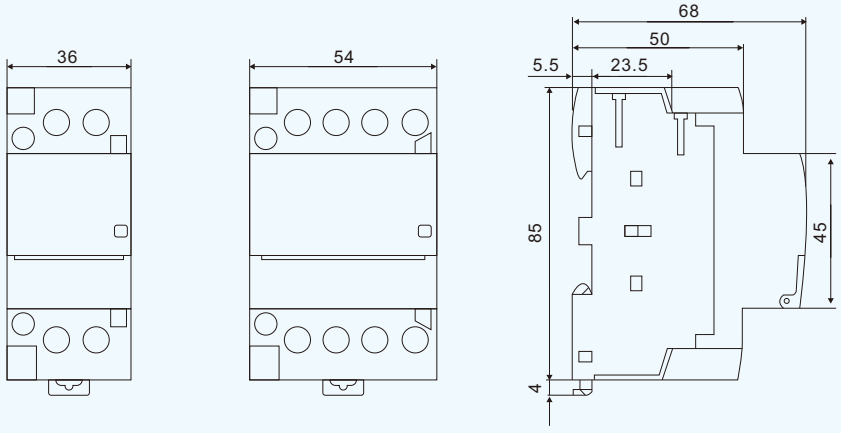
Under this duty the rated operation frequency shall be 30 times/h and load factor shall be 40% for a contactor

Action(operation) conditions

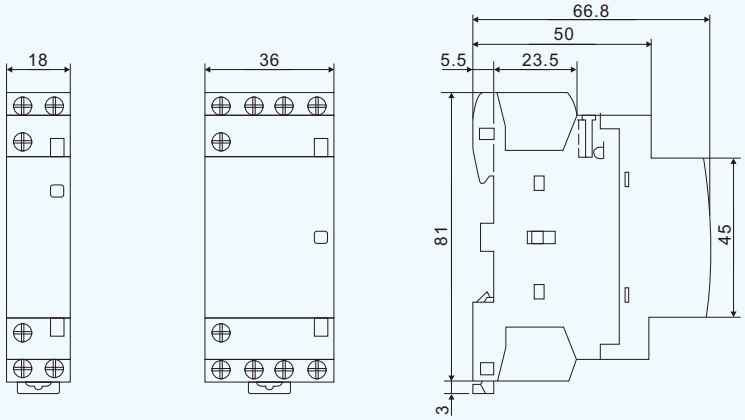
As the ambient temperature ranges between-5 °C and+60 °C, apply rated control power voltage Us to the magnetic coil of a contactor until it reaches a stable heat condition, when the contactor can be closed up under any voltage within 85%-110% Us with a release voltage of(20%-75%) Us.

Outline and installation dimensions

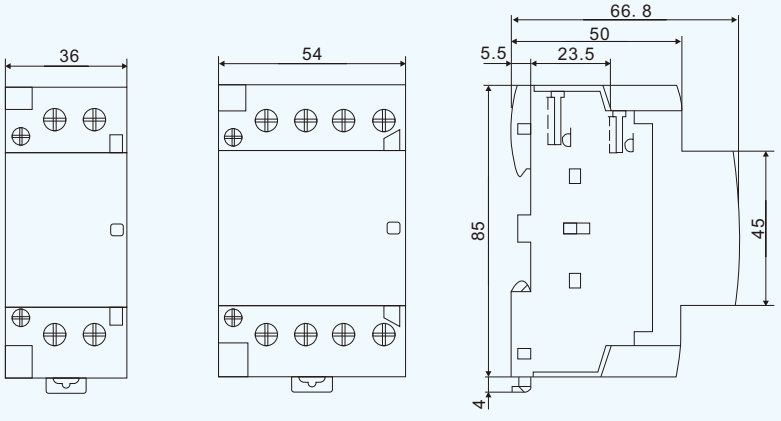
Unit: mm



YCH8-32/40/63



YCH8-25



YCH8-63

CJX2 SERIES
AC Contactor

Technical Data

Power Consumption	
CJX2 AC Contactor	9~95A, totally 10 current specifications
Accessories	Fg1 dust cover, F1 top auxiliary contact, FC1 side auxiliary contact, FJ1 mechanical interlock, FY1 air delayed head, FR1 surge suppressor
Certification	CCC/CE
Standards	IEC 60947-1 general provisions and IEC 60947-4-1 contactors

Normal working conditions	
Installation position	The installation site shall be vertical，and inclination at all directions shall not exceed ±22.5°；installation class III.
Pollution class	Class 3
Ambient temperature	In normal operation，the ambient temperature range is between-5℃ and+40℃，but average value in 24th is no more than +35℃；Storage temperature:-25℃~ +55℃，a short time（24h）is allowed with maximum +70℃.
Altitude	Altitude at normal installation position does not exceed 2000m.
Humidity	The atmospheric relative humidity does not exceed 50%when the highest ambient temperature is +40℃. It is allowed to have a relative higher humidity under lower temperature e.g.up to 90%at +20℃. For occasional dew due to the temperature change, preventive measures shall be taken.
Protection grade	IP20

Contactor model	CJX2-09 (09Z)	CJX2-12 (12Z)	CJX2-18 (18Z)	CJX2-25 (25Z)	CJX2-32 (32Z)	CJX2-40 (40Z)	CJX2-50 (50Z)	CJX2-65 (65Z)	CJX2-80 (80Z)	CJX2-95 (95Z)
Main circuit characteristics										
Rated insulation voltage(Ui) V	690									
Conventional thermal current(Ith) A	20	20	32	40	50	60	80	80	100	100

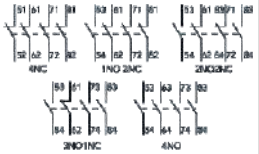
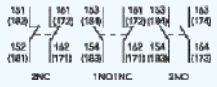
Contactor model			CJX2-09 (09Z)	CJX2-12 (12Z)	CJX2-18 (18Z)	CJX2-25 (25Z)	CJX2-32 (32Z)	CJX2-40 (40Z)	CJX2-50 (50Z)	CJX2-65 (65Z)	CJX2-80 (80Z)	CJX2-95 (95Z)
Rated operating current(Ie) A		380V,AC-3	9	12	18	25	32	40	50	65	80	95
		380V,AC-4	3.5	5	7.7	8.5	12	18.5	24	28	37	44
		660V,AC-3	6.6	8.9	10.6	18	21	34	39	42	49	49
		660V,AC-4	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3
Rated operating power(Pe) kW		380V,AC-3	4	5.5	7.5	11	15	18.5	22	30	37	45
		380V,AC-4	1.5	2.2	3	4	5	7.5	11	15	18.5	22
		660V,AC-3	5.5	7.5	9	15	18.5	30	33	37	45	45
		660V,AC-4	1.1	1.5	1.7	4	5.5	7.5	11	11	15	18.5
Mechanical durability	10000 times		1200			1000		900			650	
Electrical durability	10000 times	AC-3	110				90				65	
		AC-4	22					17			11	
Operation frequency	Time/hour	AC-3	1200				600					
		AC-4	300				300					
Main circuit terminal wiring capability (mm^2)												
Soft wire		1 wire	1...4		1...6	1.5...10		2.5...10	2.5...25		4...50	
Without terminal		2 wire	1...4		1...6	1.5...6		2.5...10	2.5...16		2.5...35	
Soft wire		1 wire	1...2.5		1...4	1...4		2.5...16	2.5...16		4...50	
With terminal		2 wire	1...2.5		1...4	1...4		2.5...10	2.5...16		2.5...25	
Hard wire		1 wire	1...4		1...6	1.5...6		2.5...10	2.5...25		4...50	
Without terminal		2 wire	1...4		1...6	1.5...6		2.5...10	--		--	
Coil												
Rated control circuit voltage (Us)		AC 50/60Hz V	24V/36V/110V/220V/380V									
		DC V	24V/110V/220V									
Allowable control circuit voltage (Us)		Operation V	85%~110%Us									
		Drop-out V	AC20%~70%Us/DC 10%~70%Us									
Coil power		Actuation VA	70									
		Holding VA	< 9		< 9.5		< 15		< 36.6			
		Heat dissipation W	1.8~2.7				3~4		6~10			
Auxiliary contact												
Contact specification			10/01					11				
Conventional thermal current (Ith) A			10									
Rated control circuit voltage (Ue)		AC V	380									
		DC V	220									
Rated control capacity		AC-15 VA	360									
		DC-13 W	33									
Certification			CCC/CE									
Coil voltage code & coil frequency code												
Coil Voltage Us (V)			24		36		110		220		380	
(50/60Hz) AC			B5		C5		F5		M5		Q5	
DC			BD		--		FD		MD		--	

Accessories

FG1 Transparent Cover

Installation Position	Reference	Contactor Type
Top	FG1-18	CJX2-09~18
	FG1-32	CJX2-25-32
	FG1-65	CJX2-40~65
	FG1-95	CJX2-80-95

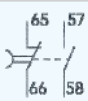
F1/FC1 Auxiliary Contact

Installation position	Pole	Auxiliary contact	Contact point layout NO	Contact point layout NC	Reference	Icontactor type
Top	2		1	1	F1-11	CJX2-09~95
			2	--	F1-20	
			--	2	F1-02	
	4		2	2	F1-22	
			4	--	F1-40	
			--	4	F1-04	
			3	1	F1-31	
			1	3	F1-13	
Side	2		0	2	FC1-02	CJX2-09~95
			1	1	FC1-11	
			2	0	FC1-20	

Fj1 Mechanical interlock module

Installation Position	Interlock method	Reference	Contactor Type
Horizontal installation	Mechanical interlock	FJ1-32E	CJX2-09~32
		FJ1-95E	CJX2-40~95

F1/FC1 Auxiliary Contact

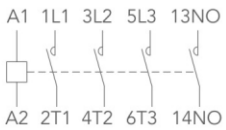
Installation position	Delay type	Wiring diagram	Contact point layout	Reference	Contactor type
Top	Making time-delay		0.1~3s	FY1-02	CJX2-09~95
			0.1~30s	FY1-22	
			10~180s	FY1-24	
	Breaking time-delay		0.1~3s	FY1-30	
			0.1~30s	FY1-32	
			10~180s	FY1-34	

Fr1 surge suppressor

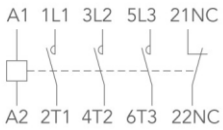
Installation position	Circuit voltage range AC symbol	Circuit voltage range DC symbol	Reference	Contactor type
Top	~	-	FR1-48	CJX2-09~95
			FR1-127	
			FR1-240	
			FR1-415	

Wiring Diagram

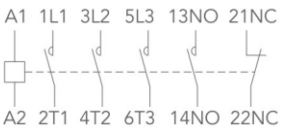
CJX2-09~32 (Z)



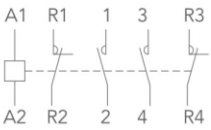
or



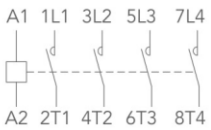
CJX2-40~95 (Z)



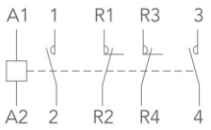
CJX2-40008-95008 (Z)



CJX2-09004-95004 (Z)



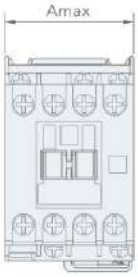
CJX2-09008-25008 (Z)

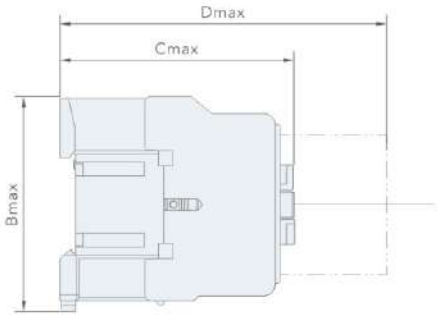


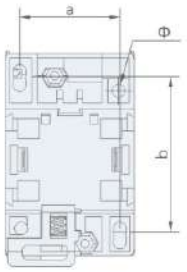
Dimensions

Unit: mm

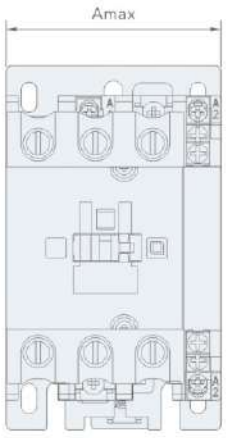
CJX2-09~32

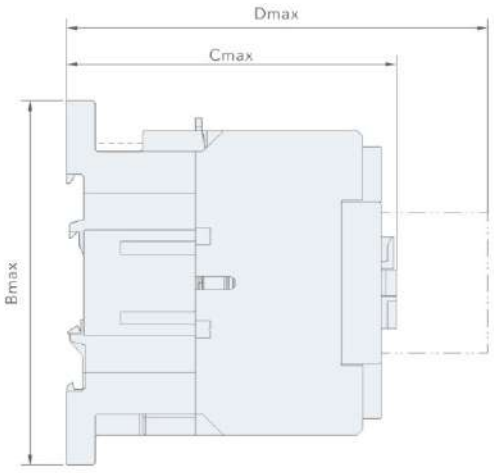


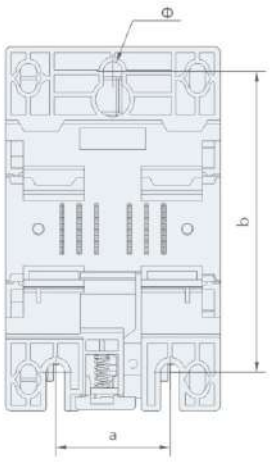




CJX2-40~32







Model (mm)	A max	B max	C max	D max	a	b	Φ
CJX2-09, 12	47	76	86	124.5	35±0.5	50±0.5/60±0.6	$4.5_{0}^{+0.48}$
CJX2-09, 12Z	47	76	116	154.5	35±0.5	50±0.5/60±0.6	$4.5_{0}^{+0.48}$
CJX2-18	47	76	91	129.5	35±0.5	50±0.5/60±0.6	$4.5_{0}^{+0.48}$
CJX2-18Z	47	76	122	160.5	35±0.5	50±0.5/60±0.6	$4.5_{0}^{+0.48}$
CJX2-25	58	86	98	136.5	40±0.5	50±0.5/60±0.6	$4.5_{0}^{+0.48}$
CJX2-25Z	58	86	131	169.5	40±0.5	50±0.5/60±0.6	$4.5_{0}^{+0.48}$
CJX2-32	58	86	102	140.5	40±0.5	50±0.5/60±0.6	$4.5_{0}^{+0.48}$
CJX2-32Z	58	86	138	176.5	40±0.5	50±0.5/60±0.6	$4.5_{0}^{+0.48}$
CJX2-40, 50, 65	79	128	119	157.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-40Z, 50Z, 65Z	79	128	172	210.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-40004, 50004, 65004	86	128	116	154.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-40004Z, 50004Z, 65004Z	86	128	172	210.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-40008, 50008, 65008	86	128	127	154.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-40008Z, 50008Z, 65008Z	86	128	183	210.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-80, 95	87	128	127	165.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-80Z, 95Z	87	128	183	221.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-80004, 95004	98	128	124	162.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-80004Z, 95004Z	98	128	180	218.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-80008, 95008	98	128	136	162.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$
CJX2-80008Z, 95008Z	98	128	192	218.5	40±0.5	100±0.7/110±0.7	$6.5_{0}^{+0.58}$

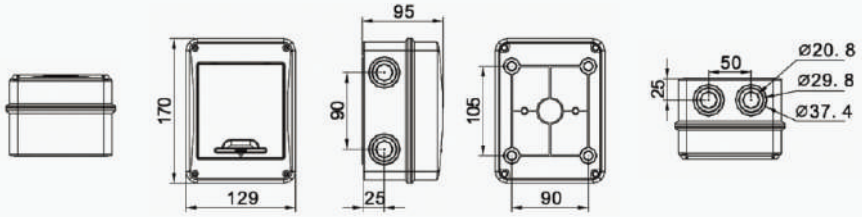
Contactor Selection Table

Product name	Current Specification	Auxiliary Contact	Coil frequency
CJX2	09A	10	M
	09: 09A 12: 12A 18: 18A 25: 25A 32: 32A 40: 40A 50: 50A 65: 65A 80: 80A 95: 95A	10:1NO 01:1NC 11:1NO1NC	See coil voltage code

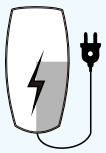
Motor power Pe (KW AC-3, 380V)	Rated current Ie (A)	Auxiliary Contact		Reference
		NO	NC	
4	9	1	-	CJX2 0910*
		-	1	CJX2 0901*
		4	-	CJX2 09004*
		2	2	CJX2 09008*
5.5	12	1	-	CJX2 1210*
		-	1	CJX2 1201*
		4	-	CJX2 12004*
		2	2	CJX2 12008*
7.5	18	1	-	CJX2 1810*
		-	1	CJX2 1801*
11	25	1	-	CJX2 2510*
		-	1	CJX2 2501*
		4	-	CJX2 25004*
		2	2	CJX2 25008*
15	32	1	-	CJX2 3210*
		-	1	CJX2 3201*
18.5	40	1	1	CJX2 4011*
		4	-	CJX2 40004*
		2	2	CJX2 40008*
22	50	1	1	CJX2 5011*
		4	-	CJX2 50004*
		2	2	CJX2 50008*
30	65	1	1	CJX2 6511*
		4	-	CJX2 65004*
		2	2	CJX2 65008*
37	80	1	1	CJX2 8011*
		4	-	CJX2 80004*
		2	2	CJX2 80008*
45	95	1	1	CJX2 9511*
		4	-	CJX2 95004*
		2	2	CJX2 95008*

Note: The number of poles is not reflected in the model,3-polo contactor represents the auxiliary contacts of 10, 01, 11,4-polo contactor represents 004 or 008. Only * means coil voltage code +frequency code. If the contactor of DC control circuit voltage needs to be purchased, order code increases Z, such as KC10910Z*.I

YHT-5WAYS

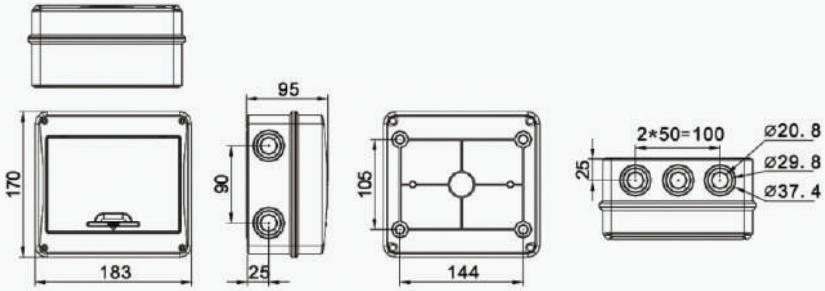


Protection class	IP65
Insulation	Class II
Materlal	polycarbonate/ABS
Shock resistance	IK10
Protection against chemicals and weather conditions	Water.saline solutions.acids.basics.mineral oils.UV rays
Operating temperature	-25℃~+100℃
Nominal insulation voltage	1000V AC-1500V DC
Flexibility WxHxD.external dimensions	118.5x159x88.6mm

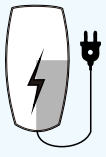


Charging pile
can be equipped

YHT-8WAYS

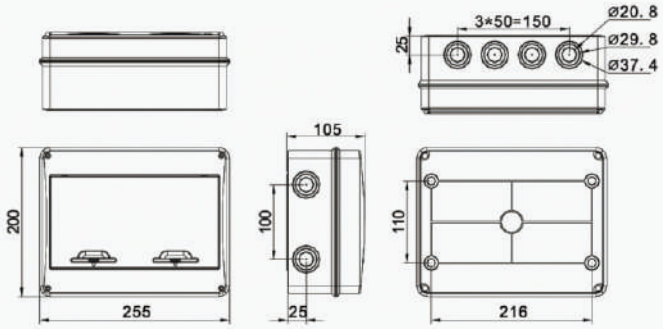


Protection class	IP65
Insulation	Class II
Materlal	polycarbonate/ABS
Shock resistance	IK10
Protection against chemicals and weather conditions	Water.saline solutions.acids.basics.mineral oils.UV rays
Operating temperature	-25℃~+100℃
Nominal insulation voltage	1000V AC-1500V DC
Flexibility WxHxD.external dimensions	200.5x154.5x88.9mm

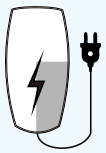


Charging pile
can be equipped

YHT-12WAYS

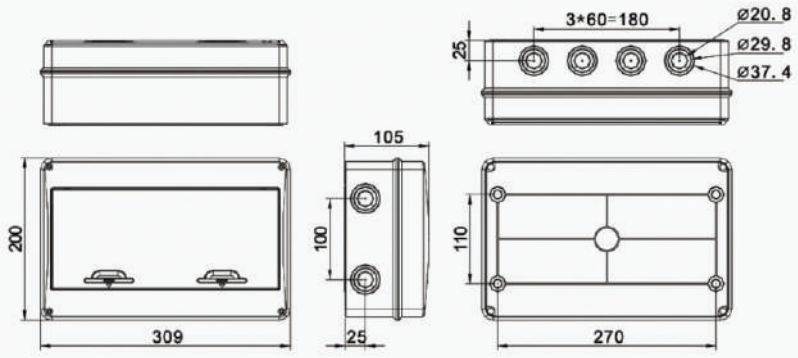


Protection class	IP65
Insulation	Class II
Materlal	polycarbonate/ABS
Shock resistance	IK10
Protection against chemicals and weather conditions	Water.saline solutions.acids.basics.mineral oils.UV rays
Operating temperature	-25℃~+100℃
Nominal insulation voltage	1000V AC-1500V DC
Flexibility WxHxD.external dimensions	255x200x106mm

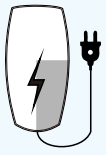


Charging pile
can be equipped

YHT-15WAYS

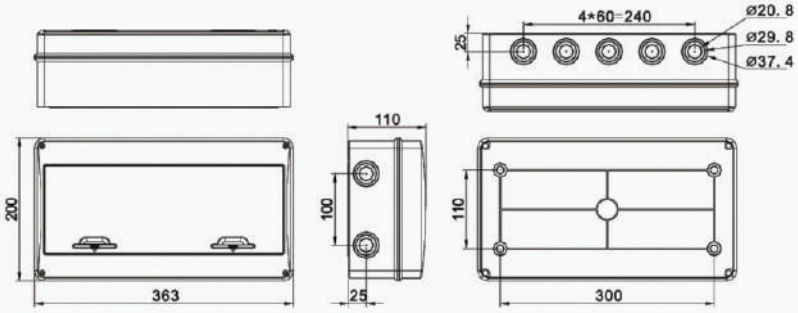


Protection class	IP65
Insulation	Class II
Materlal	polycarbonate/ABS
Shock resistance	IK10
Protection against chemicals and weather conditions	Water.saline solutions.acids.basics.mineral oils.UV rays
Operating temperature	-25℃~+100℃
Nominal insulation voltage	1000V AC-1500V DC
Flexibility WxHxD.external dimensions	310x197.5x106mm

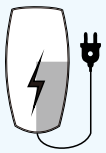


Charging pile
can be equipped

YHT-18WAYS

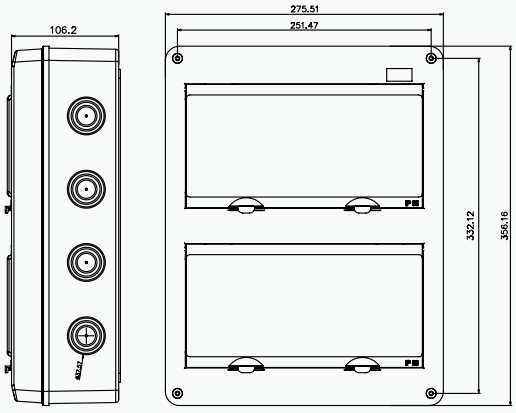


Protection class	IP65
Insulation	Class II
Materlal	polycarbonate/ABS
Shock resistance	IK10
Protection against chemicals and weather conditions	Water.saline solutions.acids.basics.mineral oils.UV rays
Operating temperature	-25℃~+100℃
Nominal insulation voltage	1000V AC-1500V DC
Flexibility WxHxD.external dimensions	364x197.5x106mm

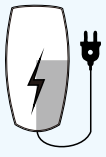


Charging pile
can be equipped

YHT-24WAYS



Protection class	IP65
Insulation	Class II
Materlal	polycarbonate/ABS
Shock resistance	IK10
Protection against chemicals and weather conditions	Water.saline solutions.acids.basics.mineral oils.UV rays
Operating temperature	-25℃~+100℃
Nominal insulation voltage	1000V AC-1500V DC
Flexibility WxHxD.external dimensions	275.51x356.16x106.2mm



Charging pile
can be equipped

YRDB SERIES
Waterproof Distribution Box

Advantages

- The bottom shell and facial frame are made of new PC materials. The transparent surface cover is made of new PC.
- It has the characteristics of good toughness, high strength, good impact resistance, and long service life.
- Suitable for various indoor and outdoor places such as waterproof, dustproof, anti -corrosion, etc.
- Execution standards: GB/T 17466.1; GB/T 17466.24; IEC 60529; IP65

IP65 protection level

The surface cover and the bottom shell are wrapped in waterproof seals, and the waterproof performance is better.
The fixed screw is inside the waterproof strip to improve the waterproof performance.

Reserved functional position

Facial frame reservation function sticker position. After the function is posted, check the component control area clearly.

Circuit baffle structure

The noodle frame is carried on the left and right sides. It has partial filling function and is easy to disassemble.

Can be open arbitrarily

You can open the hole according to the actual application needs.

Buckle structure

The facial frame and the surface cover enhance the deduction, and the structure is more reliable.

Lock function

Reserve installation of anti-theft locks, the equipment is safer.

Facial frames are not deserted in structure

The fixed facial frame is loosely without taking off the screws. After loosening the box, the screws will not be missed.

Copper -ended sub -component

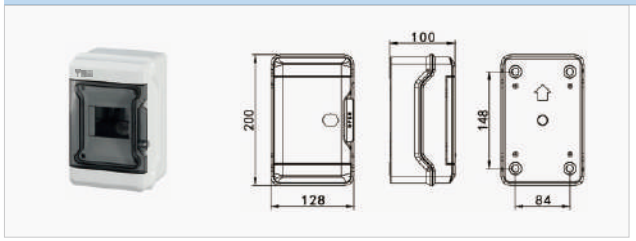
The terminal can pass the 960 ° C hot wire test, and the safety performance is guaranteed

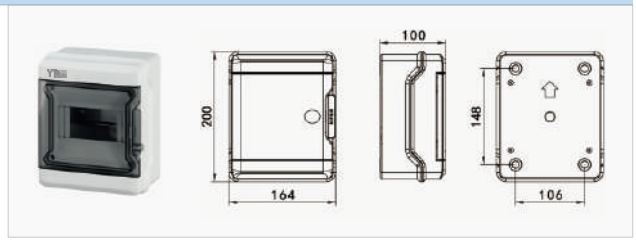
Technical Data

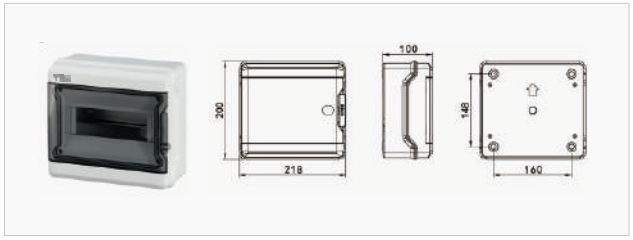
Open installation waterproof distribution box							
Model	Number of circuits	Row	Dimensions (mm) (L*W*H)	Zero, ground row configuration	Carton size (mm) (L*W*H)	Gross weight (kg)	Packing (pieces)
YRDB-4	4 circuit	1	128*200*100	Zero, ground row: 3 holes	545*425*555	21.5	40
YRDB-6	6 circuit		164*200*100	Zero, ground row: 5 holes	545*425*530	17.8	30
YRDB-9	9 circuit		218*200*100	Zero, ground row: 5 holes	545*425*465	16.2	20
YRDB-13	13 circuit		296*230*120	Zero, ground row: 8 holes	622*520*490	19	16
YRDB-15	15 circuit		332*230*120	Zero, ground row: 8 holes	645*357*490	13.8	10
YRDB-18	18 circuit		386*230*120	Zero, ground row: 8 holes	645*405*490	15.5	10
YRDB-26	26 circuit	2	296*390*130	Zero, ground row: two 8 holes	642*425*415	19.2	6
YRDB-39	39 circuit	3	296*550*130	Zero, ground row: two 8 holes	565*315*146	2.7	1

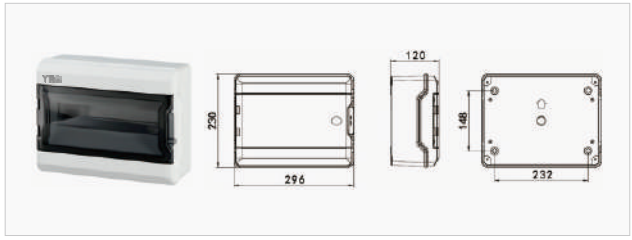
Dimensions

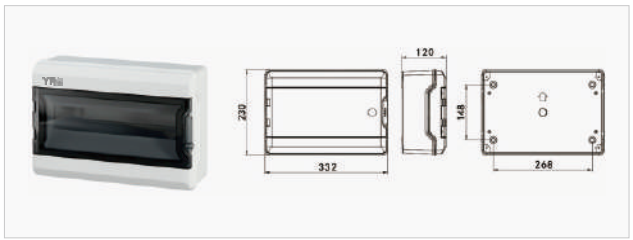
Unit: mm

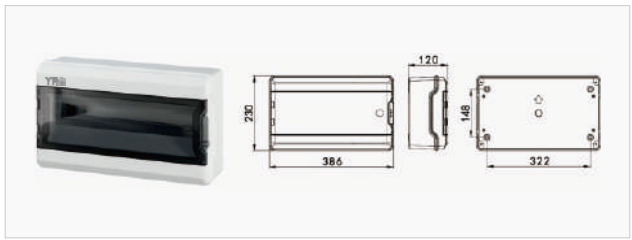


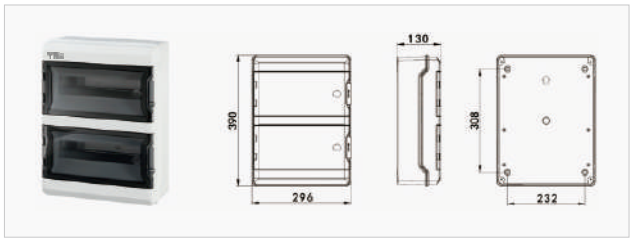


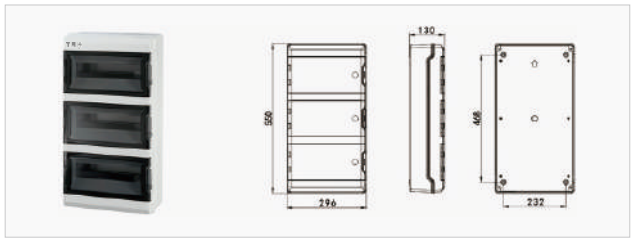












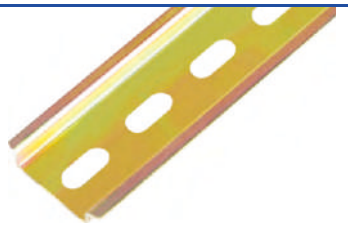
NS 15-S (Steel)

Ordering data		
Part No.	Order No.	Pcs/Pkt.
NS 15-S-1.0(1M)	100224041	100

NS 35-AL(Aluminum)

Ordering data		
Part No.	Order No.	Pcs/Pkt.
NS35-AL-1.1(1M)	100224035	100
NS35-AL-1.1(2M)	100224036	50
NS35-AL-1.3(1M)	100224001	100
NS35-AL-1.3(2M)	100224002	50
NS35-AL-1.5(1M)	100224003	100
NS35-AL-1.5(2M)	100224004	50

NS 35-S(Steel)



Ordering data		
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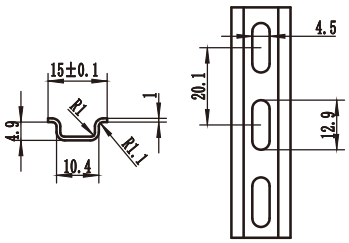
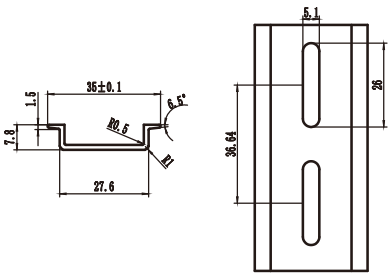
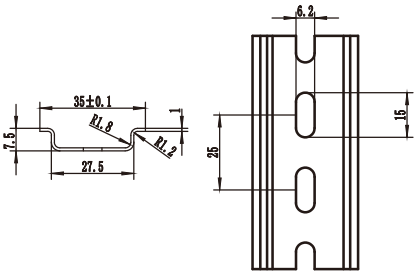
NS35-S-0.9(1M)	100224038	100
NS35-S-0.9(2M)	100224039	60
NS35-S-1.0(0·5M)	100224030	100
NS35-S-1.0(1M)	100224005	100
NS35-S-1.0(2M)	100224006	60
NS35-S-1.2(1M)	100224007	100
NS35-S-1.2(2m)	100224008	60

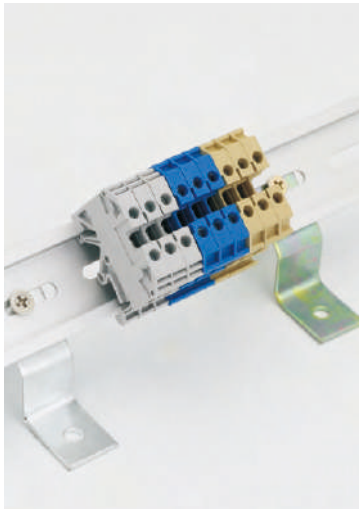


NS35-AL-1.5 Drawing
Contact us for other drawings



NS35-S-1.0 Drawing
Contact us for other drawings





TSTW DIN Rail Holder

Ordering data		
Part No.	Order No.	Pcs/Pkt.
TSTW	100224010	50

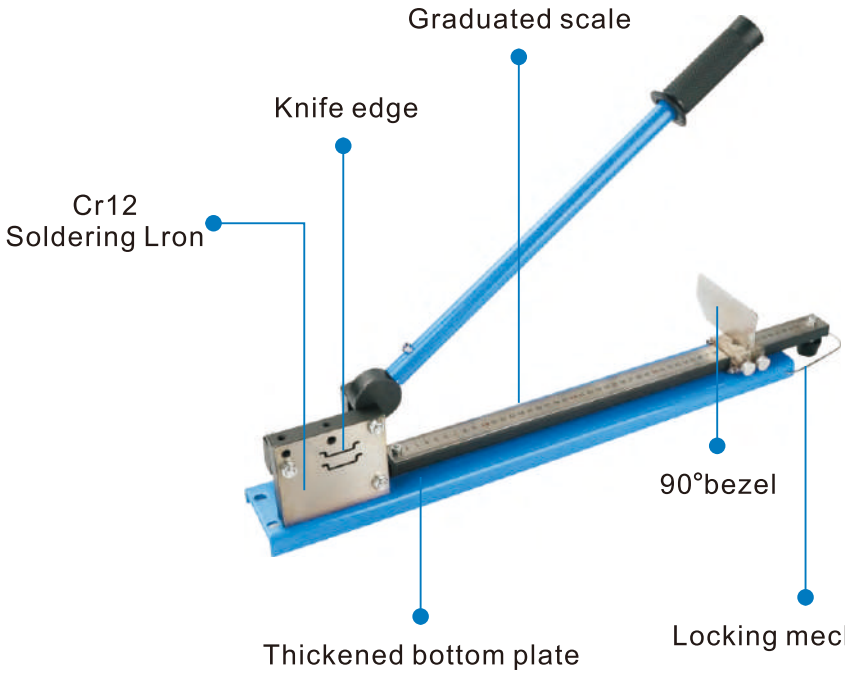
NS35HT

Ordering data		
Part No.	Order No.	Pcs/Pkt.
NS35HT-B Black	100224009	100
NS35HT-T Transparent	100224009T	100

Din Rail Cutter Machine

Cr12 Soldering iron, high strength and wear resistance. the cut surface of DIN rail is smooth and free of burrs. With 50cm length graduated scale, cutting accurate. The bezel can be rotated at 90°, making cutting more convenient. Locking mechanism, humanized design, convenient for storage and transportation.

NS 02 Order No.:100224011
Width×Length×Heigt:642×145×165mm
Hole dimension of bottom plate：8.2mm



Applicable rails:
NS 35-S-1.0
NS 35-AL-1.5
Other specifications can be customized