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for life*

GEYA
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GEYA[®]
GEYA ELECTRICAL

MCB RCCB RCBO

LOW VOLTAGE ELECTRICAL COMPREHENSIVE CATALOG



01

COMPANY PROFILE

ZHEJIANG GEYA ELECTRICAL CO.,LTD

Zhejiang Geya Electrical Co., Ltd. [hereinafter referred to as: Geya Electrical GEYA]. GEYA Electrical was established in February 2007 and is located in Wenzhou City, China. It is a scientific and technological private enterprise integrating R&D, production, sales and service, focusing on the independent research and development of low-voltage electrical appliances and automation control products. After years of operation, the company's annual turnover has exceeded CNY 200 million.

The company's product series involve a variety of low-voltage electrical appliances and automation control products, including miniature circuit breakers, molded case circuit breakers, leakage circuit breakers, isolating switches, contactors, relays, timers, distribution boxes and other products and related accessories. With a wide range of products and a wide range of applications, it is widely recognized and praised by customers at home and abroad. The company currently has a comprehensive and mature online sales platform system. The four major sales regions of the products cover six continents in the world. More than 40 foreign companies choose and trust GEYA Electrical products.

Since the establishment of the company, GEYA Electrical has always adhered to the corporate motto of "Getting what you need, knowing what you are doing", adhering to the development concept of quality first and continuous innovation, and adhering to the product concept of high standards and high quality. Since then, a number of national patents have been obtained, and the GEYA brand has been deployed in most countries around the world. In addition, according to industry standards and certification requirements, the company has obtained authoritative EU certifications including CCC, CE, SAA, SEMKO, TUV, etc., and its products fully comply with European and American product quality standards. In addition to providing OEM and ODM services to global customers, GEYA Electrical has established cooperative relationships with many internationally renowned brand companies. At the same time, the company's experienced sales team is gradually promoting GEYA Electric's products to larger domestic and overseas markets, making more contributions to the world's low-voltage electrical appliances and automation control product industries and customers.



GEYA Electrical sincerely welcomes customers to act as agents to promote the GEYA brand in domestic and overseas markets. We will provide our customers with better products, better services and more competitive sales policies.

GEYA Electrical looks forward to creating a better future with you!



Founded in **2007** Year



Sales Revenue **200** million RMB



Employees **300** +



Product Catalog Index



MCB

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3/4.5/6KA
Breaking capacity

Miniature Circuit Breaker
IEC/EN 60898-1, GB/T 10963.1.



GYM10



GYM10 miniature circuit breaker is suitable for AC 50/60Hz rated voltage 240/415V, rated current to 63A line, for overload and short circuit protection, can also be used as the line infrequent operation conversion. Circuit breakers are suitable for industrial, commercial, high-rise and residential and other places.

- ✔ Standard: RoHS 2.0
- ✔ Double busbar, Single Busbar Wiring Function Is Optional
- ✔ With Transparent Identification Function
- ✔ Contact Position Indication Function
- ✔ Wiring Capacity 0.5-25mm²



Product Model And Implication

GYM10	□
Product model	
MCB	T: Single busbar H: Double flow discharge

Technical Specification

- ✔ Rated current (In): 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
- ✔ Rated voltage (Ue): 240/415V~;230/400V~
- ✔ Working Frequency: 50/60Hz
- ✔ Tripping Curves: B, C, D
- ✔ Breaking Capacity: 3000A;4500A;6000A
- ✔ Poles: 1P, 2P, 3P, 4P
- ✔ Rated insulation voltage (Ui): 500V
- ✔ Rated impulse withstand voltage (Uimp): 4kV
- ✔ Mechanical life: 20000次
- ✔ Electrical life: 10000次
- ✔ Tightening moment: 2.0N.m
- ✔ Class of protection: Ip20

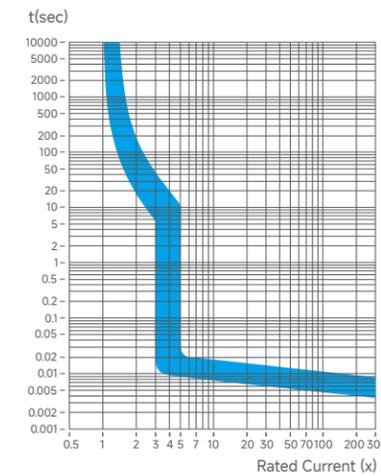
Temperature Compensation

When the ambient temperature is not the baseline temperature of 30°C, the reference Correction coefficient is as follows:

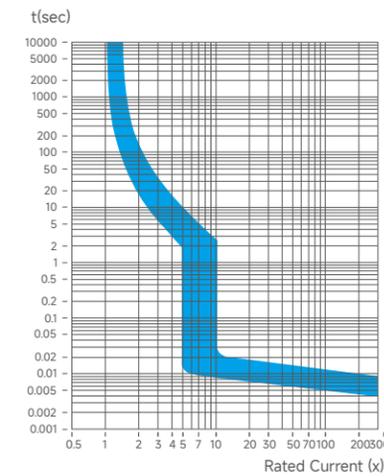
Ambient Temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Factor	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

Tripping Curves

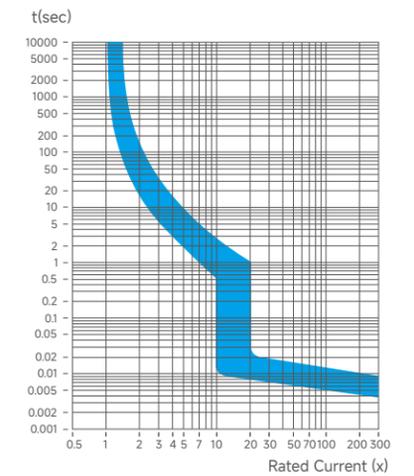
Curve B



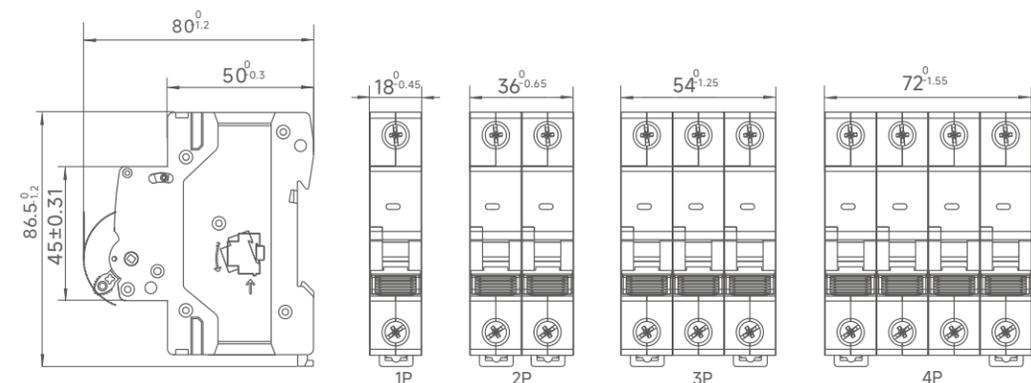
Curve C



Curve D



Outline Overall And Installing Dimensions





4.5KA
Breaking capacity

Miniature Circuit Breaker
IEC/EN 60947-2, GB/T 14048.2

GYM10H-DC



The GYM10H DC circuit breaker is designed for DC circuits with rated voltage up to 1000V and rated current up to 63A, providing overload and short-circuit protection, and can also be used for infrequent circuit switching operations. This breaker is suitable for DC system applications such as telecommunications and photovoltaic (PV) systems.

- ✔ Compliant with environmental RoHS 2.0
- ✔ Dual flow discharge wiring function
- ✔ Contact position indication function
- ✔ Wiring capacity: (0.5-25) mm²



Product Model And Implication

GYM10H	-	DC
Product model		
MCB		Direct-Current

Technical Specification

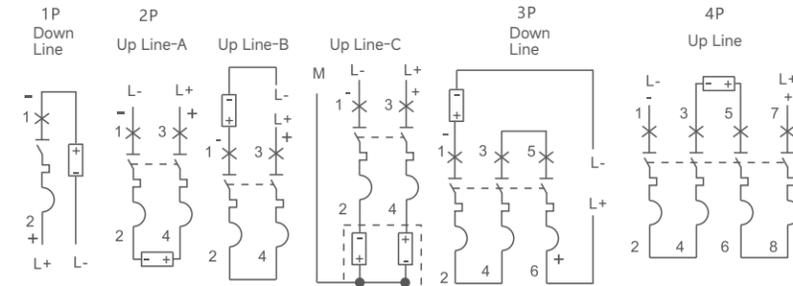
- | | | | |
|--|--|------------------------|--|
| ✔ Rated Current(I _n): | 6、10、16、20、25、32、40、50、63A | ✔ Tripping Curves: | B:(6±20%)I _n 、C:(8.5±20%)I _n 、D:(12±20%)I _n |
| ✔ Rated Voltage(U _e): | 1P:250VDC;2P:500VDC;3P:750VDC;4P:1000VDC | ✔ Breaking Capacity: | 4.5kA |
| ✔ Rated insulation voltage: | 500V | ✔ Poles: | 1P、2P、3P、4P |
| ✔ Rated impulse withstand voltage (U _{imp}): | 4KV | ✔ Mechanical life: | 20000 times |
| | | ✔ Electrical life: | 4000 times |
| | | ✔ Tightening moment: | 2.0N.m |
| | | ✔ Class of protection: | IP20 |

Temperature Compensation

When the ambient temperature is not the baseline temperature of 30°C, the reference Correction coefficient is as follows:

Ambient Temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Factor	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

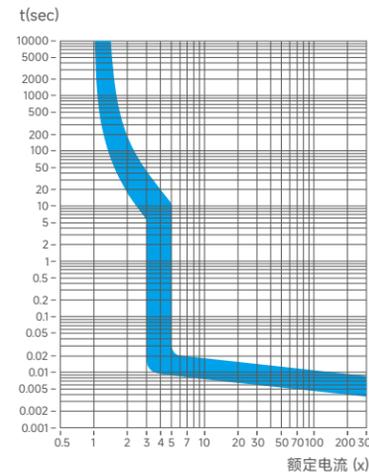
Wiring diagram



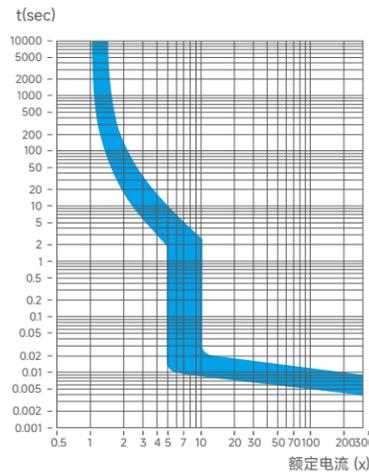
Remark:
1 L+:Positive Pole, L-:Negative Pole;
2 +: MCB of positive pole, -: MCB of negative pole;
3 : Load;
4 DC power supply usually "L-" ground lead, Neutral pole of positive and negative power supply system "M" ground lead;

Tripping Curves

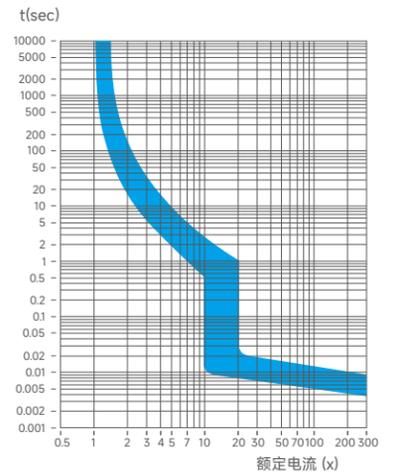
B Type



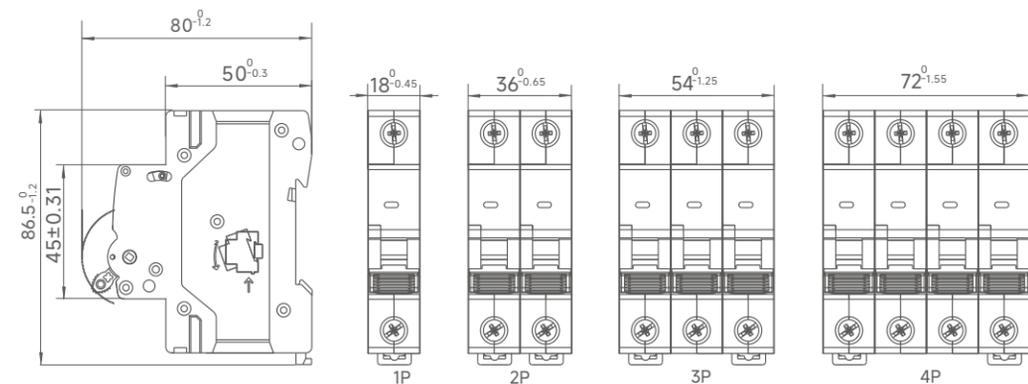
C Type



D Type



Outline Overall And Installing Dimensions



6/10kA
Breaking capacity

Miniature Circuit Breaker
IEC/EN 60898-1, GB/T 10963.1

CECB NF SAA

GYM9 (H)



The GYM9H miniature circuit breaker (MCB) is designed for AC 50/60Hz circuits with rated voltage 240/415V and rated current up to 63A, providing reliable overload and short-circuit protection. It also serves for infrequent circuit switching operations.

This breaker is suitable for various installations including industrial facilities, commercial buildings, high-rise structures, and residential applications.

- ✔ RoHS 2.0 compliant
- ✔ Dual busbar connection
- ✔ Transparent ID window
- ✔ Contact position indicator
- ✔ Wire size: (0.5-25) mm²
- ✔ TH35-7.5din-rail-mounting



Product Model And Implication

GYM9	H
Product model	
MCB	H: 10000 None: 6000

Technical Specification

- ✔ Rated current (I_n): 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
- ✔ Rated voltage (U_e): 240/415V~; 230/400V~
- ✔ Rated insulation voltage (U_i): 500V
- ✔ Rated impulse withstand voltage (U_{imp}): 4kA
- ✔ Number of poles: 1P, 2P, 3P, 4P
- ✔ Tripping curve: B, C, D
- ✔ Operating frequency: 50/60Hz
- ✔ Breaking capacity: 6kA, 10kA
- ✔ Mechanical life: 20000 times
- ✔ Electrical life: 10000 times
- ✔ Tightening moment: 2.0N.m
- ✔ Class of protection: IP20

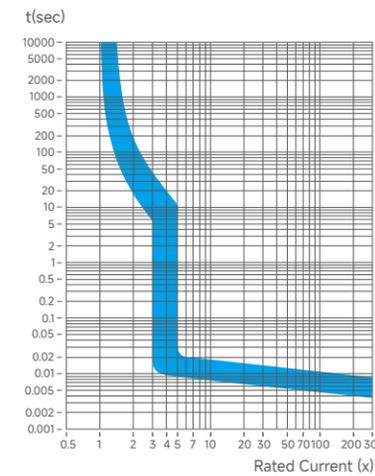
Temperature Compensation

When the ambient temperature is not the baseline temperature of 30°C, the reference Correction coefficient is as follows:

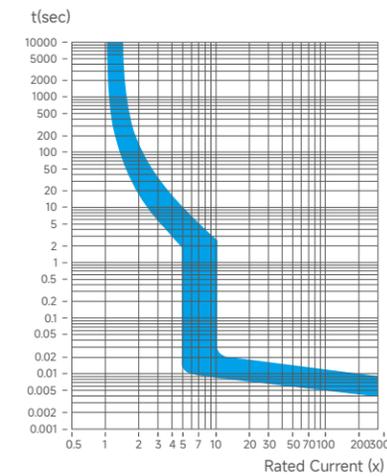
Ambient Temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Factor	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

Tripping Curves

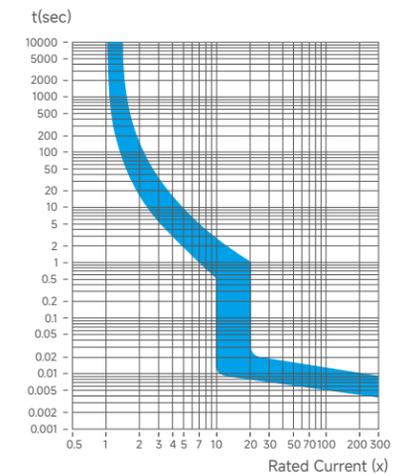
Curve B



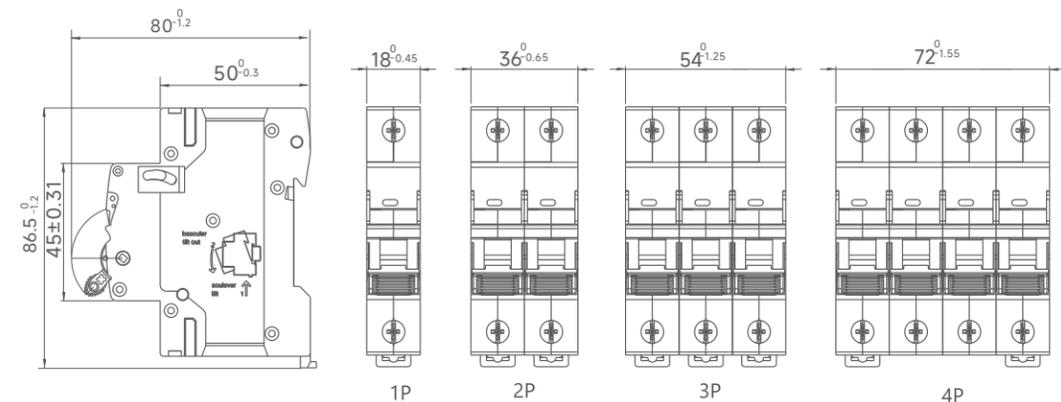
Curve C



Curve D



Outline Overall And Installing Dimensions





10KA
Breaking capacity

Miniature Circuit Breaker
IEC/EN 60947-2、GB/T 14048.2

GYM9H-125



GYM9H-125 Miniature Circuit Breaker is designed for circuits with AC 50/60Hz, rated voltage of 240/415V, and rated current up to 63A. It provides overload and short-circuit protection and is suitable for infrequent switching operations of circuits under normal conditions.

This circuit breaker is widely applicable in industrial, commercial, high-rise buildings, and residential installations.

- ✔ RoHS 2.0 compliant
- ✔ Dual busbar wiring function
- ✔ Contact position indicator
- ✔ Wiring Capacity 6-50mm²



Product Model And Implication

GYM9H	125
Product model	
MCB	125A

Technical Specification

- ✔ Rated Current(I_n): 63、80、100、125
- ✔ Rated Voltage(U_e): 240/415V~;230/400V
- ✔ Working Frequency: 50/60Hz
- ✔ Poles: 1P、2P、3P、4P
- ✔ Tripping Curves: B、C、D
- ✔ Breaking capacity: **10000A**
- ✔ Rated insulation voltage (U_i): 500V
- ✔ Rated impulse withstand voltage (U_{imp}): 4KV
- ✔ Mechanical life: 20000 times
- ✔ Electrical life: 10000 times

Performance Characteristic

Tripping Curves	Current (A)	Initial Condition	Time(30°C)	Result
B、C、D	1.13I _n	Cold state	t ₁ ≥1h(I _n ≤63),t ₂ ≥2h(63<I _n ≤125)	No tripping
	1.45I _n	Thermal state	t ₁ ≥1h(I _n ≤63),t ₂ ≥2h(63<I _n ≤125)	Tripping
	2.55I _n	Cold state	1s<t<120s	Tripping

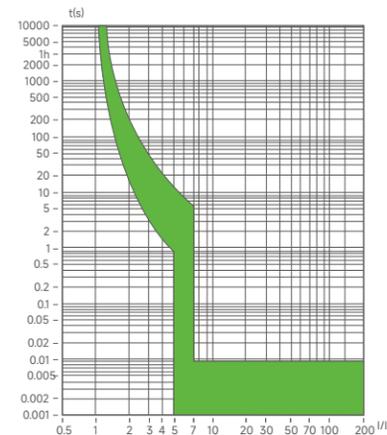
Temperature Compensation

When the ambient temperature is not the baseline temperature of 30°C, the reference Correction coefficient is as follows:

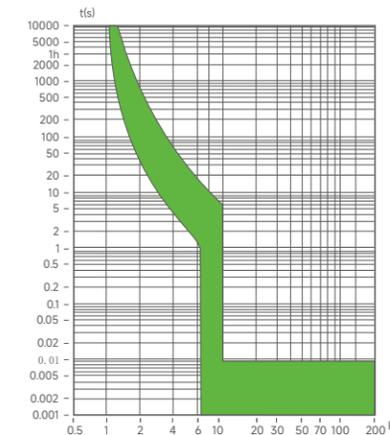
Ambient Temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Factor	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

Tripping Curves

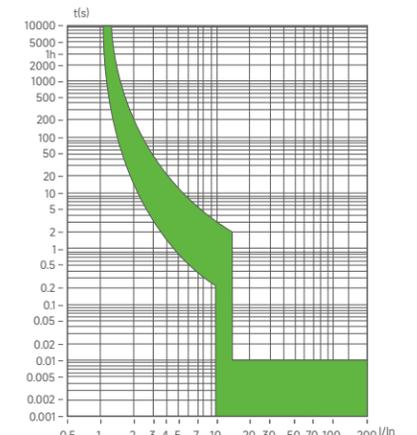
Curve B



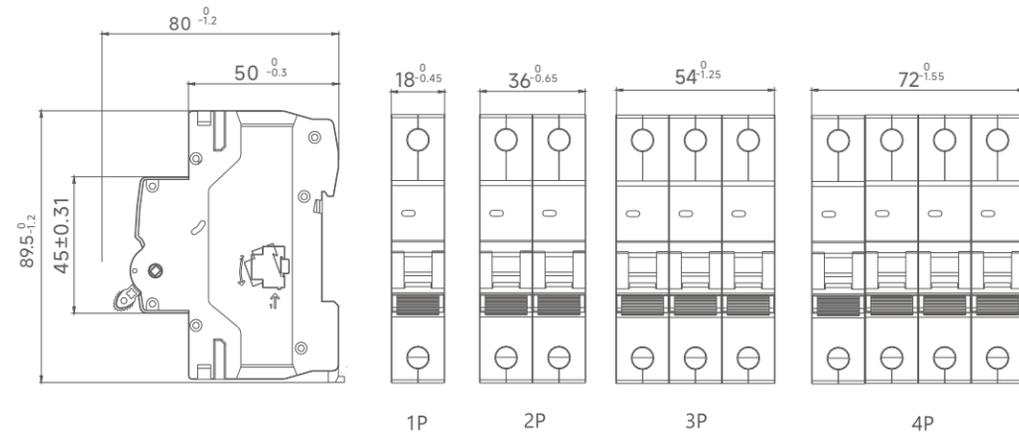
Curve C



Curve D



Outline Overall And Installing Dimensions





6kA
Breaking capacity

Miniature Circuit Breaker
IEC/EN 60947-2 GB/T 14048.2

GYM9H DC



GYM9H DC Circuit Breaker is designed for DC circuits with a rated voltage up to 1000V and a rated current up to 63A. It provides overload and short-circuit protection and can also be used for infrequent switching operations of circuits. This circuit breaker is suitable for DC system applications, such as communications and photovoltaic (PV) systems.

- ✓ RoHS 2.0 compliant
- ✓ Dual busbar wiring function
- ✓ Transparent marking feature
- ✓ Contact position indicator
- ✓ Wire capacity: 0.5-25mm²



Product Model And Implication

GYM9H	-	DC
Product model		
MCB		Direct-Current

Technical Specification

- ✓ Rated Current(I_n): 1-63A
- ✓ Rated Voltage(U_e): 1P:250VDC;2P:500VDC; 3P:750VDC;4P:1000VDC
- ✓ Tripping Curves: B、C
- ✓ Rated insulation voltage (U_i) 500V
- ✓ Breaking Capacity: **6kA**
- ✓ Poles: 1P、2P、3P、4P
- ✓ Mechanical Life: 20000 times
- ✓ Electrical Life: 4000 times
- ✓ Tightening moment: 2.0N.m
- ✓ Class of protection: IP20

Temperature Compensation

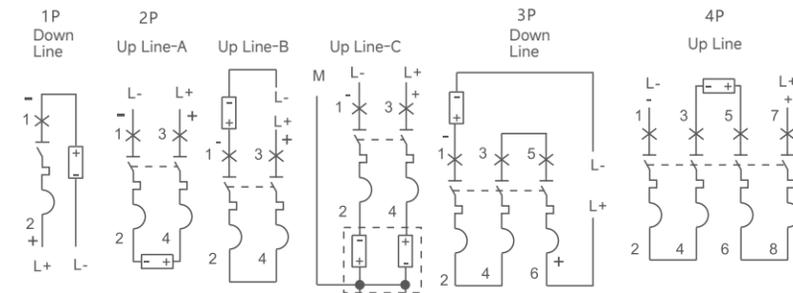
When the ambient temperature is not the baseline temperature of 30°C, the reference Correction coefficient is as follows:

Ambient Temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Factor	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

Performance Characteristic

Tripping Curves	Current (A)	Initial Condition	Time(30°C)	Result
B、C、D	1.13I _n	Cold state	t ₁ ≥1h(I _n ≤63),t ₂ ≥2h(63<I _n ≤125)	No tripping
	1.45I _n	Thermal state	t ₁ ≥1h(I _n ≤63),t ₂ ≥2h(63<I _n ≤125)	Tripping
	2.55I _n	Cold state	1s<t<120s	Tripping

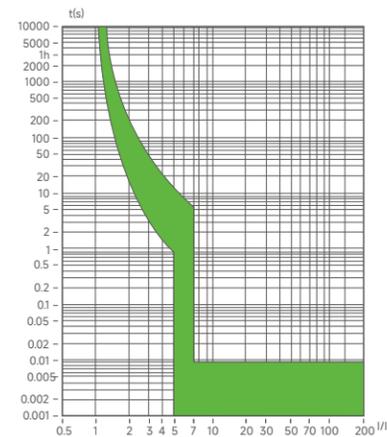
Wiring diagram



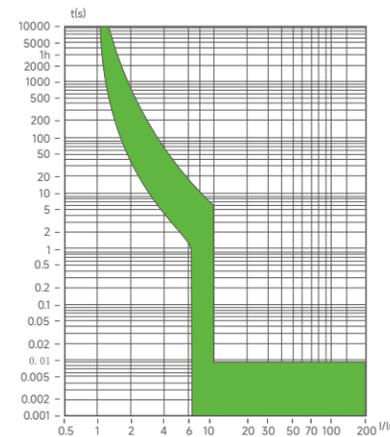
Remark:
 1 L+:Positive Pole, L-:Negative Pole;
 2 +:MCB of positive pole, -: MCB of negative pole;
 3 : Load;
 4 DC power supply usually "L-" ground lead, Neutral pole of positive and negative power supply system "M" ground lead;

Tripping Curves

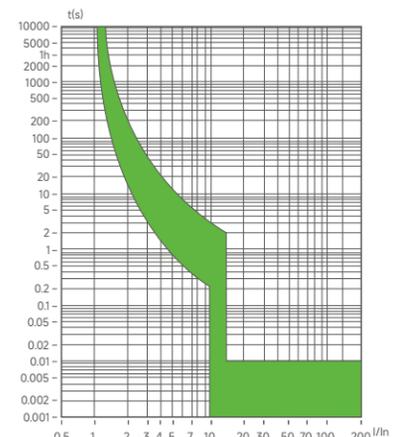
B Type: 6I_n±20%



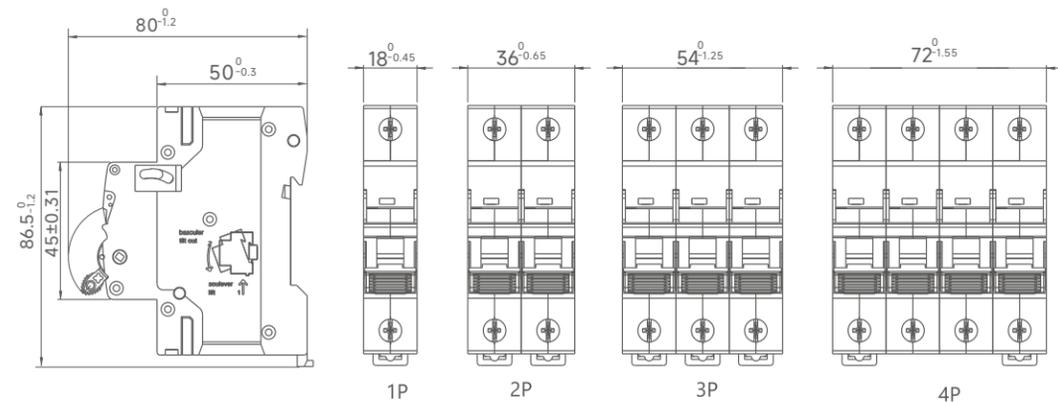
C Type: 8.5I_n±20%



D Type: 12I_n±20%



Outline Overall And Installing Dimensions





6kA
Breaking capacity

Miniature Circuit Breaker
IEC/EN 60947-2 GB/T 14048.2

GYM9H-Z AC/DC



GYM9H-Z Miniature Circuit Breaker is designed for both AC and DC circuits:
 AC applications: 50/60Hz, rated voltage 230/400V, rated current up to 63A.
 DC applications: Rated voltage 220V, rated current up to 63A.
 It provides overload and short-circuit protection and is suitable for infrequent switching operations of circuits under normal conditions.
 This circuit breaker is widely applicable in industrial, commercial, high-rise buildings, and residential installations.

- ✔ RoHS 2.0 compliant
- ✔ Double Sink Flow Bar Wiring
- ✔ With Transparent Identification Function
- ✔ Contact Position Indication Function
- ✔ Wiring Capacity 0.5-25mm²



Product Model And Implication

GYM9H	-	Z
Product model		
MCB		AC/DC

Technical Specification

- ✔ Rated Current (In): 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
- ✔ Rated Voltage (Ue): 1P:230/400VAC, 150VDC; 2P:230/400VAC, 300VDC; 3P:230/400VAC, 450VDC; 4P:230/400VAC, 600VDC.
- ✔ Tripping Curves: B:(6±20%)In, C:(8.5±20%)In, D:(12±20%)In
- ✔ Breaking Capacity: **6kA**
- ✔ Poles: 1P, 2P, 3P, 4P
- ✔ Mechanical Life: 20000 times
- ✔ Electrical Life: 10000 times
- ✔ Rated insulation voltage (Ui): 500V
- ✔ Rated impulse withstand voltage (Uimp): 4KV
- ✔ Tightening moment: 2.0N.m
- ✔ Class of protection: Ip20

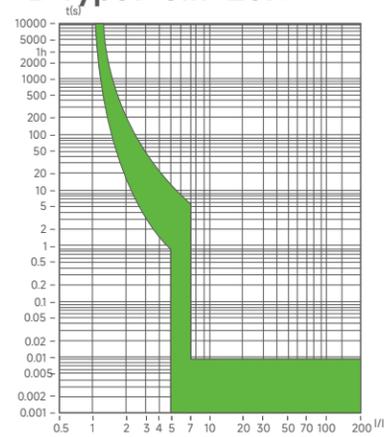
Temperature Compensation

When the ambient temperature is not the baseline temperature of 30°C, the reference Correction coefficient is as follows:

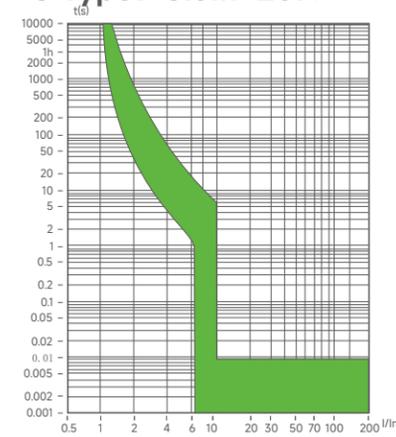
Ambient Temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Factor	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

Tripping Curves

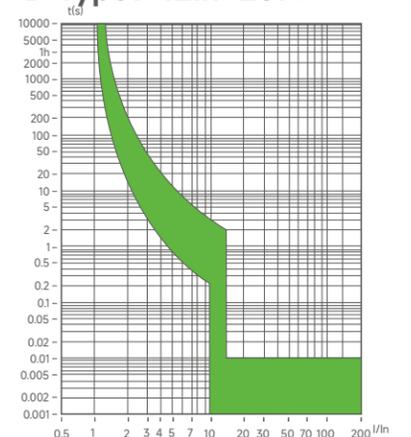
B Type: 6In±20%



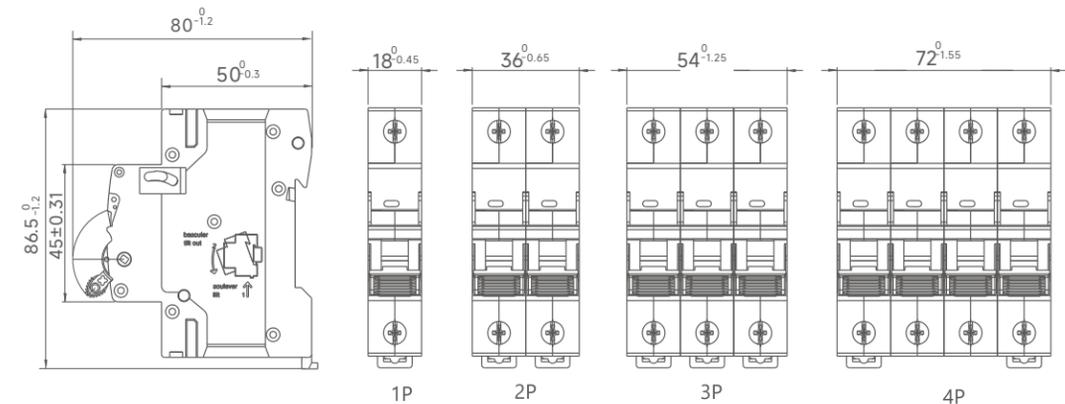
C Type: 8.5In±20%



D Type: 12In±20%



Outline Overall And Installing Dimensions





3/4.5/6kA
Breaking capacity

Miniature Circuit Breaker
IEC/EN 60898-1, GB/T 10963.1

GYM9N



GYM9N miniature circuit breaker is mainly used for overload and short circuit protection in AC 50/60Hz, rated working voltage up to 230V, and rated current up to 40A lines, and can also be used for infrequent operation and conversion of lines. Suitable for various places such as industry, commerce, high-rise buildings, and residential buildings

- ✔ RoHS 2.0 Compliant
- ✔ Connect the N line first and then disconnect it
- ✔ Contact Position Indicator
- ✔ Compact 18mm Width Design
- ✔ Wiring Capacity 0.5-10mm²



Product Model And Implication

GYM9	N
Product model	
MCB	With N Poles

Technical Specification

- ✔ Rated Current (In): 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40A
- ✔ Rated Voltage (Ue): 230V~
- ✔ Working Frequency: 50/60Hz
- ✔ Tripping Curves: B, C, D
- ✔ Breaking Capacity: 3/4.5/6kA
- ✔ Poles: 1P+N
- ✔ Mechanical Life: 20000 times
- ✔ Electrical Life: 4000 times
- ✔ Rated insulation voltage (Ui): 500V
- ✔ Rated impulse withstand voltage (Uimp): 4KV
- ✔ Tightening moment: 2.0N.m
- ✔ Class of protection: Ip20

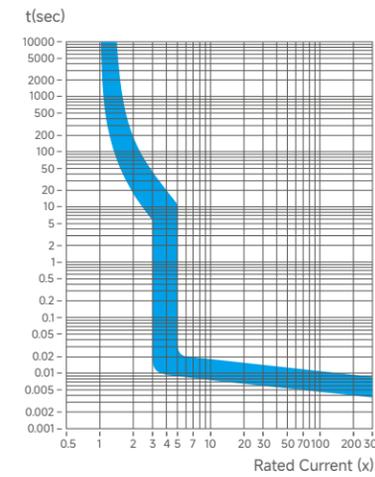
Temperature Compensation

When the ambient temperature is not the baseline temperature of 30°C, the reference Correction coefficient is as follows:

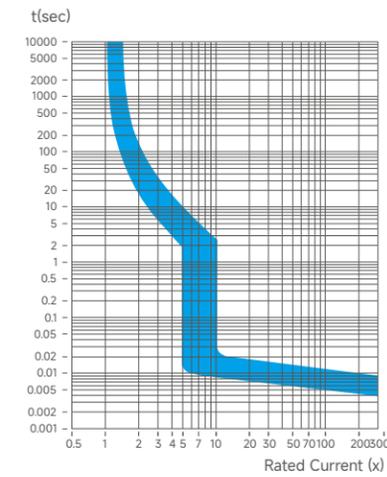
Ambient Temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Factor	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

Tripping Curves

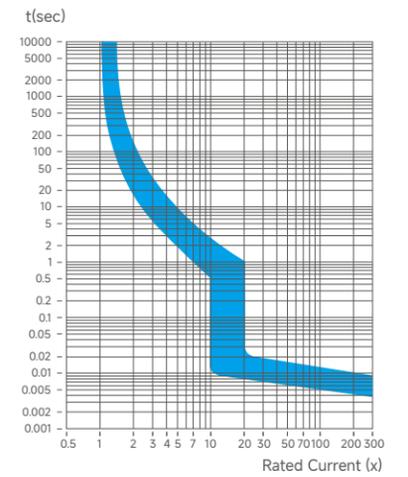
Curve B



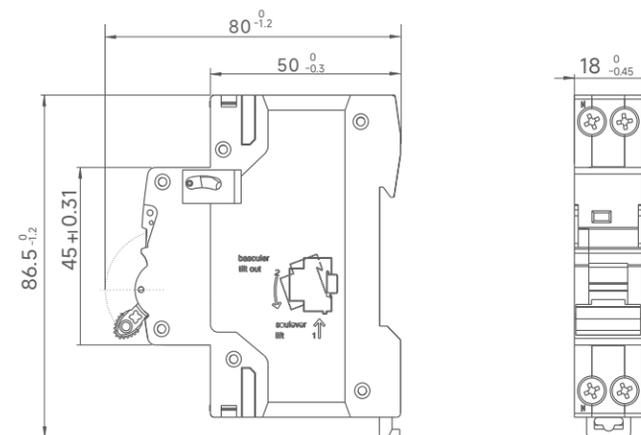
Curve C



Curve D



Outline Overall And Installing Dimensions



0.03A、0.1A、0.3A
Rated residual action current

RCCB
IEC/EN 61008-1 GB/T 16916.1

CE CB

GYL8



The GYL8 Residual Current Operated Circuit Breaker is designed for AC circuits with 50/60Hz frequency, rated voltage up to 415V, and rated current up to 63A. When electric shock to a person occurs or when grid leakage current exceeds preset values, the circuit breaker can rapidly cut off the fault power supply within an extremely short time to protect personal safety and electrical equipment. It may also serve for infrequent switching operations of circuits under normal conditions.

- ✔ RoHS 2.0 compliant
- ✔ Double busbar wiring function
- ✔ Wiring Capacity 1-35mm²



Product Model And Implication

GYL8	□
Product model	Protection type
RCCB	M (electromagnetic type) E (electronic)

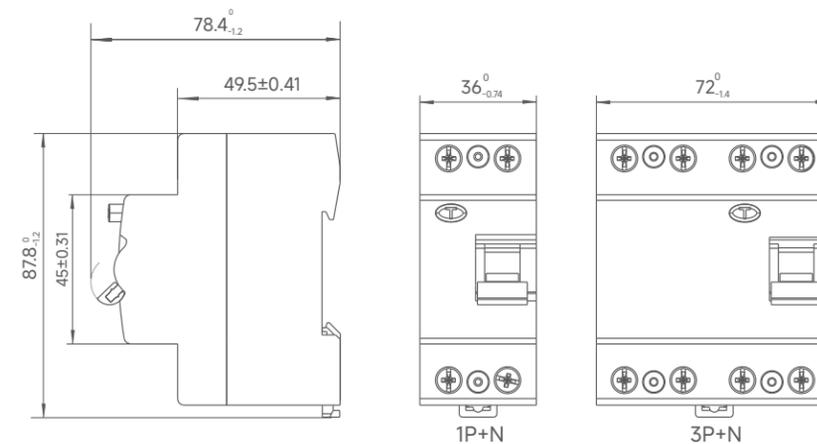
Residual leakage current breaking time

Tripping Type	Rated current I _n (A)	Rated residual action current I _{Δn} (mA)	Residual current breaking time (s)				
			I _{Δn}	2I _{Δn}	5I _{Δn}	5A~200A	500A
General Type	16~63	0.03、0.1、0.3	≤0.1	≤0.08	≤0.04	≤0.04	≤0.04
Type S			0.13~0.5	0.06~0.2	0.05~0.15	0.04~0.15	0.04~0.15
Type si			0.09~0.13	0.05~0.15	0.04~0.15	0.04~0.15	0.04~0.15

Technical Specification

- ✔ Rated Voltage (U_n) 230/240V、240/415V
- ✔ Rated Current (I_n) 16A、20A、25A、32A、40A、50A、63A
- ✔ Rated insulation voltage (U_i) 500V
- ✔ Rated impact tolerance voltage (U_{imp}) 4kV
- ✔ Rated residual action current (I_{Δn}) 0.03A、0.1A、0.3A
- ✔ Poles 1P+N、3P+N
- ✔ Residual current action type AC、A、AC-S、A-S、A-Si、AC-Si
- ✔ Working Frequency 50/60Hz
- ✔ Rated limit short circuit current (I_{nc}) 6000A、10000A
- ✔ Rated limit Remaining short circuit current (I_{Δc}) 6000A、10000A
- ✔ Rated on and off capacity (I_m) 500A(I_n≤50A),or 10I_n(I_n=63A)
- ✔ Rated residual switching and breaking capacity (I_{Δm}) 500A(I_n50A).or 10I_n(I_n=63A)
- ✔ Tightening moment: 2.5N·m
- ✔ Class of protection: IP20
- ✔ Installation : TH35-7.5 standard guide rail
- ✔ Mechanical life: 10000 times
- ✔ Electrical life: 4000 times

Outline Overall And Installing Dimensions



0.03A、0.1A、0.3A
Rated residual action current

RCCB
IEC/EN 61008-1 GB/T 16916.1

CE CB

GYL10



The GYL10 residual current operated circuit breaker is designed for AC circuits with a frequency of 50/60Hz, rated voltage up to 415V, and rated current up to 63A. In the event of electric shock or when grid leakage current exceeds the specified threshold, the breaker can rapidly disconnect the faulty circuit within an extremely short time to ensure personal safety and protect electrical equipment. It can also be used for infrequent switching operations under normal conditions. This circuit breaker is suitable for various applications, including industrial, commercial, high-rise buildings, and residential installations.

- ✔ RoHS 2.0 compliant
- ✔ Double busbar wiring function
- ✔ With Transparent Identification Function
- ✔ Wiring Capacity 1-35mm²



Product Model And Implication

GYL10	□
Product model	Protection type
RCCB	M (electromagnetic type) E (electronic)

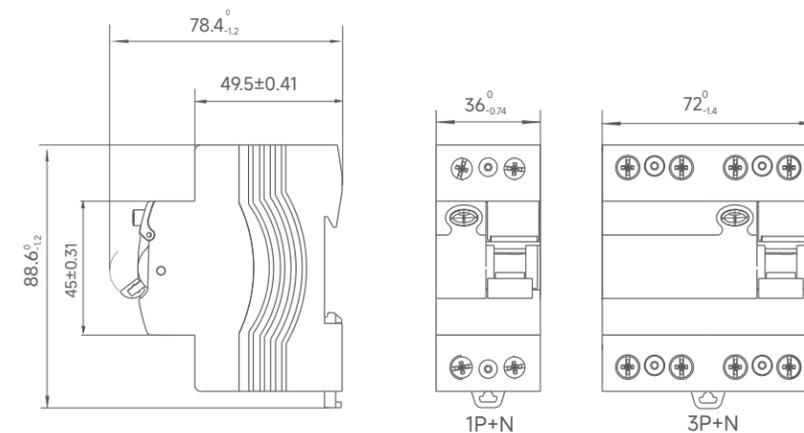
Residual leakage current breaking time

Tripping Type	Rated current In(A)	Rated residual action current I Δ n(mA)	Residual current breaking time (s)				
			I Δ n	2I Δ n	5I Δ n	5A~200A	500A
General Type	16~63	0.03、0.1、0.3	≤0.1	≤0.08	≤0.04	≤0.04	≤0.04
Type S			0.13~0.5	0.06~0.2	0.05~0.15	0.04~0.15	0.04~0.15
Type si			0.09~0.13	0.05~0.15	0.04~0.15	0.04~0.15	0.04~0.15

Technical Specification

- ✔ Rated Voltage (Un) 230/240V、240/415V
- ✔ Rated Current (In) 16A、20A、25A、32A、40A、50A、63A
- ✔ Rated insulation voltage (Ui) 500V
- ✔ Rated impact tolerance voltage (Uimp) 4kV
- ✔ Rated residual action current (I Δ n) 0.03A、0.1A、0.3A
- ✔ Poles 1P+N、3P+N
- ✔ Residual current action type AC、A、AC-S、A-S、A-Si、AC-Si
- ✔ Working Frequency 50/60Hz
- ✔ Rated limit short circuit current (Inc) 6000A、10000A
- ✔ Rated limit Remaining short circuit current (I Δ c) 6000A、10000A
- ✔ Rated on and off capacity (Im) 500A(In≤50A),or 10In(In=63A)
- ✔ Rated residual switching and breaking capacity (I Δ m) 500A(Ins50A),or 10In(In=63A)
- ✔ Tightening moment: 2.5N·m
- ✔ Class of protection: IP20
- ✔ Installation : TH35-7.5 standard guide rail
- ✔ Mechanical life: 10000 times
- ✔ Electrical life: 4000 times

Outline Overall And Installing Dimensions



0.03A、0.1A、0.3A
Rated residual action current

RCCB
IEC/EN 61008-1, IEC/EN 62955, GB/T 40820, GB/T 16916.1



GYL9-EV



GYL9-EV residual current operated circuit breaker is suitable for AC 50/60Hz, rated voltage two poles 240V, four poles 415V, and rated current up to 100A lines. Used to detect AC leakage, pulsating DC leakage, composite wave leakage, and high-frequency leakage up to 1kHz, while disconnecting or triggering the disconnection of electric vehicle charging when a smooth DC residual current greater than or equal to 6mA is detected. When a person is electrocuted or the leakage current of the power grid exceeds the specified value, the circuit breaker can quickly cut off the faulty power supply in a very short time, protecting the safety of people and electrical equipment. It can also be used for infrequent on/off operations of the line under normal conditions.

This circuit breaker is suitable for various applications, including industrial, commercial, high-rise buildings, and residential environments.

- ✔ Equipped with AC leakage, pulsating DC leakage, smooth DC leakage, composite wave leakage, and high-frequency leakage protection devices up to 1kHz - with complete protection functions
- ✔ A protective device designed specifically for electric vehicles and charging facilities that can detect smooth DC residual current greater than or equal to 6mA
- ✔ Compliant with environmental RoHS 2.0
- ✔ Double busbar wiring function
- ✔ The product has a leakage fault indicator



Product Model And Implication

GYL9	EV
Product model	Protection type
RCCB	M (electromagnetic type) E (electronic)

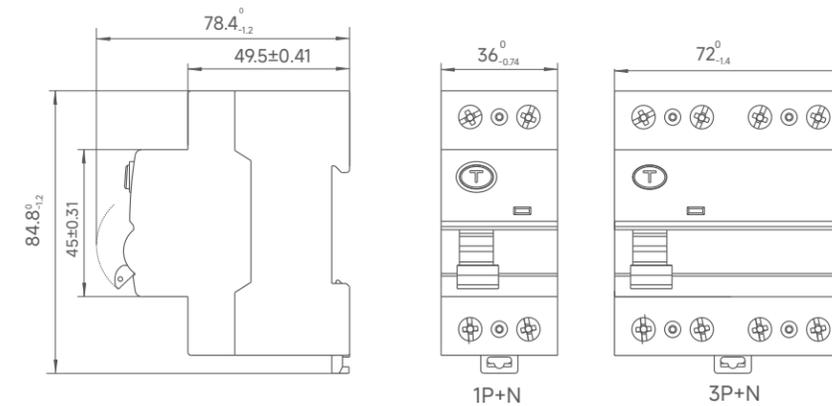
Residual leakage current breaking time

Rated current In(A)	Rated residual action current I Δ n(mA)	Residual current breaking time (s)				
		I Δ n	2I Δ n	5I Δ n	5A~200A	500A
16~100	30、100、300	≤0.1	≤0.08	≤0.04	≤0.04	≤0.04

Technical Specification

- ✔ Rated Voltage (Un) 230/240V、240/415V
- ✔ Rated Current (In) 16A、20A、25A、40A、50A、63A、80A、100A
- ✔ Rated insulation voltage (Ui) 500V
- ✔ Rated impact tolerance voltage (Uimp) 4kV
- ✔ Rated residual action current (I Δ n) 0.03A、0.1A、0.3A
- ✔ Poles 1P+N、3P+N
- ✔ Residual current action type Type EV
- ✔ Working Frequency 50/60Hz
- ✔ Rated limit short circuit current (Inc) 6000A、10000A
- ✔ Rated limit Remaining short circuit current (I Δ c) 6000A、10000A
- ✔ Rated on and off capacity (Im) 500A(In≤50A),or 10In(In=63A)
- ✔ Rated residual switching and breaking capacity (I Δ m) 500A(In≤50A),or 10In(In=63A)
- ✔ Tightening moment: 2.5N·m
- ✔ Class of protection: IP20
- ✔ Installation : TH35-7.5 standard guide rail
- ✔ Mechanical life: 10000 times
- ✔ Electrical life: 4000 times

Outline Overall And Installing Dimensions



0.03A、0.1A、0.3A
Rated residual action current

RCCB
IEC/EN 61008-1, IEC/EN 62423, GB/T 22794, GB/T 16916.1

CE CB

GYL9-F/B



GYL9-F/B residual current operated circuit breaker is suitable for AC 50/60Hz, rated voltage two poles 240V, four poles 415V, rated current up to 100A lines. Used for detecting AC leakage, pulsating DC leakage, smooth DC leakage, composite wave leakage, and high-frequency leakage up to 1kHz. When personal electric shock or circuit leakage current exceeds the specified value, the circuit breaker automatically cuts off the faulty power supply in a very short time, protecting the safety of personnel and electrical equipment. The circuit breaker can also be used for infrequent on/off operations of the line under normal circumstances.

The circuit breaker is suitable for various applications, including industrial, commercial, high-rise buildings, and residential use.

- Equipped with AC leakage, pulsating DC leakage, smooth DC leakage, composite wave leakage, and high-frequency leakage protection devices up to 1kHz - with complete protection functions
- Compliant with environmental RoHS 2.0
- Double busbar wiring function
- The product has a leakage fault indicator
- Wiring capacity: (1-35) mm²

F-type:
Type B:



Product Model And Implication

GYL9	B
Product model	Residual current action type
RCCB	F type B type

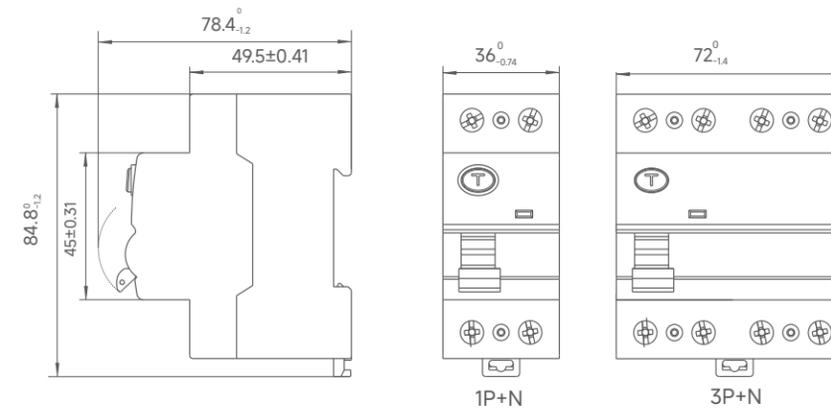
Residual leakage current breaking time

Rated current I _n (A)	Rated residual action current I _{Δn} (mA)	Residual current breaking time (s)				
		I _{Δn}	2I _{Δn}	5I _{Δn}	5A~200A	500A
16~100	30、100、300	≤0.1	≤0.08	≤0.04	≤0.04	≤0.04

Technical Specification

- Rated Voltage (U_n) 230/240V、240/415V
- Rated Current (I_n) 16A、20A、25A、32A、40A、50A、63A、80A、100A
- Rated insulation voltage (U_i) 500V
- Rated impact tolerance voltage (U_{imp}) 4kV
- Rated residual action current (I_{Δn}) 0.03A、0.1A、0.3A
- Poles 1P+N、3P+N
- Residual current action type Type B Type F
- Working Frequency 50/60Hz
- Rated limit short circuit current (I_{nc}) 6000A、10000A
- Rated limit Remaining short circuit current (I_{Δc}) 6000A、10000A
- Rated on and off capacity (I_m) 500A(I_n≤50A),or 10In(I_n=63A)
- Rated residual switching and breaking capacity (I_{Δm}) 500A(I_n≤50A),or 10In(I_n=63A)
- Tightening moment: 2.5N·m
- Class of protection: IP20
- Installation : TH35-7.5 standard guide rail
- Mechanical life: 10000 times
- Electrical life: 4000 times

Outline Overall And Installing Dimensions



0.03A、0.1A、0.3A
Rated residual action current

RCBO
IEC/EN 61009-1、GB/T 16917.1。



GYM10LE-63Y



GYM10LE-63Y residual current operated circuit breaker is suitable for AC 50/60Hz, rated voltage up to 240V, and rated current up to 63A lines. When a person is electrocuted or the power grid leaks. When the current exceeds the specified value, the circuit breaker can quickly cut off the faulty power supply in a very short time, protecting the safety of personnel and electrical equipment. It can also be used for overload and short circuit protection of the line, and for infrequent on-off operation under normal circumstances. Circuit breakers are suitable for various occasions such as industrial, commercial, high-rise, and residential use.

- ✔ Wiring capacity: (0.5-25) mm²
- ✔ Compliant with environmental RoHS 2.0
- ✔ Integrated design, small product size
- ✔ Handle with anti slip strip for comfortable operation

► Technical Specification

Rated voltage (Un)	230/240V
Rated current (In)	6A、10A、16A、20A、25A、32A、40A、50A、63A
Rated insulation voltage (Ui)	500V
Rated impulse withstand voltage (Uimp)	4KV
Rated residual operating current (I _{Δn})	0.03A、0.1A、0.3A
Polar number	1P+N
Residual current action type	A Type、AC Type
Operating frequency	50/60Hz
Rated limited short-circuit current (Inc)	6000A
Rated limit residual short-circuit current (I _{Δc})	6000A
Rated connection and disconnection capacity (Im)	500A (In≤50A)、630A(In=63A)
Rated residual connection and disconnection capacity (I _{Δm})	500A (In≤50A)、630A(In=63A)
tightening torque	2.0N·m
Protection level	IP20
Release curve	B、C、D
Mechanical life:	10000 times
Electrical life:	4000 times

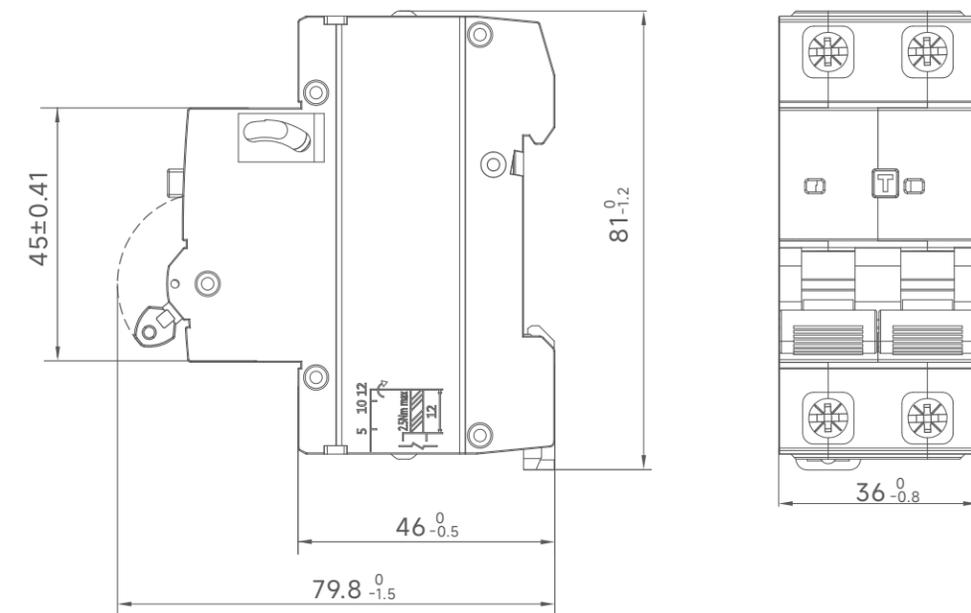
► Product Model And Implication

GYM10LE	63	Y
Product model		
RCBO	Shell current	All-in-one

► Residual leakage current breaking time

Rated current In(A)	Rated residual action current I _{Δn} (mA)	Residual current breaking time (s)				
		I _{Δn}	2I _{Δn}	5I _{Δn}	5A~200A	500A
6~63	30、100、300	≤0.1	≤0.08	≤0.04	≤0.04	≤0.04

► Outline Overall And Installing Dimensions



0.03A、0.1A、0.3A
Rated residual action current

RCBO
IEC/EN 61009-1、GB/T 16917.1.



GYM10LE-63



GYM10LE-63 residual current operated circuit breaker is suitable for AC 50/60Hz, rated voltage up to 415V, and rated current up to 63A lines. When a person is electrocuted or the leakage current of the power grid exceeds the specified value, the circuit breaker can quickly cut off the faulty power supply in a very short time, protecting the safety of people and electrical equipment. It can also be used for overload and short circuit protection of the line, and for infrequent on-off operation under normal circumstances. Circuit breakers are suitable for various occasions such as industrial, commercial, high-rise, and residential use.

- ✔ Wiring capacity: (0.5-25) mm²
- ✔ Compliant with environmental RoHS 2.0
- ✔ Change to modular design of leakage module, with smaller size
- ✔ Handle with anti slip strip for comfortable operation

► Technical Specification

Rated voltage (Un)	230/240V
Rated current (In)	6A、10A、16A、20A、25A、32A、40A、50A、63A
Rated insulation voltage (Ui)	500V
Rated impulse withstand voltage (Uimp)	4KV
Rated residual operating current (I _{Δn})	0.03A、0.1A、0.3A
Polar number	1P+N、2P、3P、3P+N、4P
Residual current action type	A Type、AC Type
Operating frequency	50/60Hz
Rated limited short-circuit current (Inc)	6000A、10000A(2P)
Rated limit residual short-circuit current (I _{Δc})	6000A、10000A(2P)
Rated connection and disconnection capacity (Im)	500A (In≤50A)、630A(In=63A)
Rated residual connection and disconnection capacity (I _{Δm})	500A (In≤50A)、630A(In=63A)
tightening torque	2.0N·m
Protection level	IP20
Release curve	B、C、D
Mechanical life:	20000 times
Electrical life:	4000 times

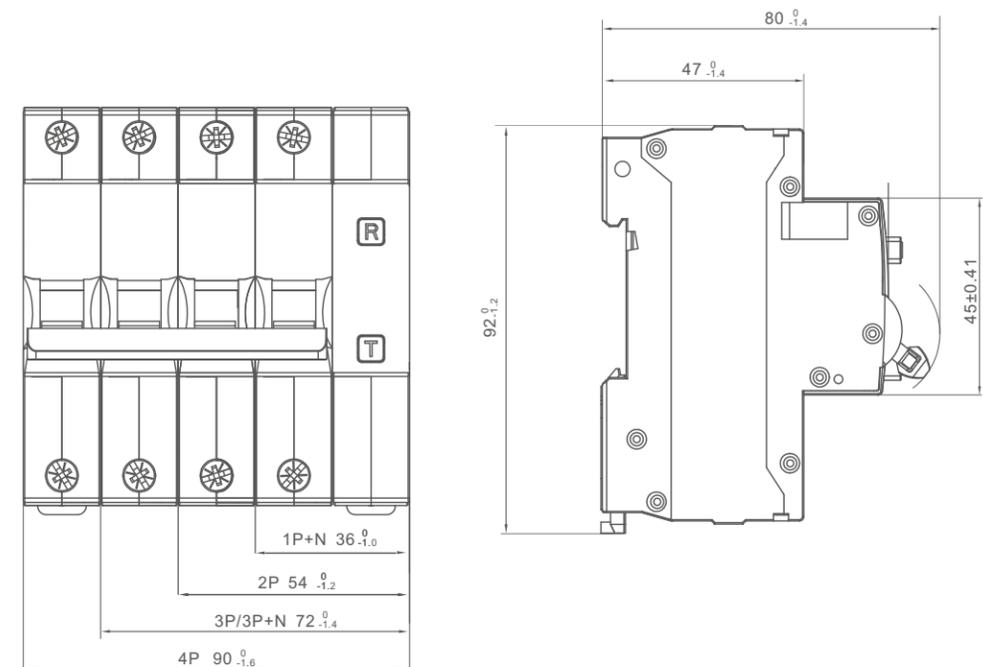
► Product Model And Implication

GYM10LE	63
Product model	
RCBO	Shell current

► Residual leakage current breaking time

Rated current In(A)	Rated residual action current I _{Δn} (mA)	Residual current breaking time (s)				
		I _{Δn}	2I _{Δn}	5I _{Δn}	5A~200A	500A
6~63	30、100、300	≤0.1	≤0.08	≤0.04	≤0.04	≤0.04

► Outline Overall And Installing Dimensions



0.03A、0.1A、0.3A
Rated residual action current

RCBO
60947-2, GB/T 14048.2



GYM10LE-125



GYM10LE-125 residual current operated circuit breaker is suitable for AC 50/60Hz, rated voltage up to 415V, and rated current up to 125A lines. When a person is electrocuted or the leakage current of the power grid exceeds the specified value, the circuit breaker can quickly cut off the faulty power supply in a very short time, protecting the safety of people and electrical equipment. It can also be used for overload and short circuit protection of the line, and for infrequent on-off operation under normal circumstances. Circuit breakers are suitable for various occasions such as industrial, commercial, high-rise, and residential use.

- Maximum wiring capacity: (6-50) mm²
- Compliant with environmental RoHS 2.0
- Change to modular design of leakage module, with smaller size

► Technical Specification

Rated voltage (Un)	230/240V、400/415V
Rated current (In)	63A、80A、100A、125A
Rated insulation voltage (Ui)	500V
Rated impulse withstand voltage (Uimp)	4KV
Rated residual operating current (I Δ n)	0.03A、0.1A、0.3A
Polar number	1P+N、2P、3P、3P+N、4P
Residual current action type	A Type、AC Type
Operating frequency	50/60Hz
Rated limited short-circuit current (Inc)	6000A、10000A
Rated limit residual short-circuit current (I Δ c)	6000A、10000A
Rated connection and disconnection capacity (Im)	500A (In \leq 50A)、630A(In = 63A)
Rated residual connection and disconnection capacity (I Δ m)	500A (In \leq 50A)、630A(In = 63A)
tightening torque	3.5N·m
Protection level	IP20
Release curve	B、C、D
Mechanical life:	20000 times
Electrical life:	4000 times

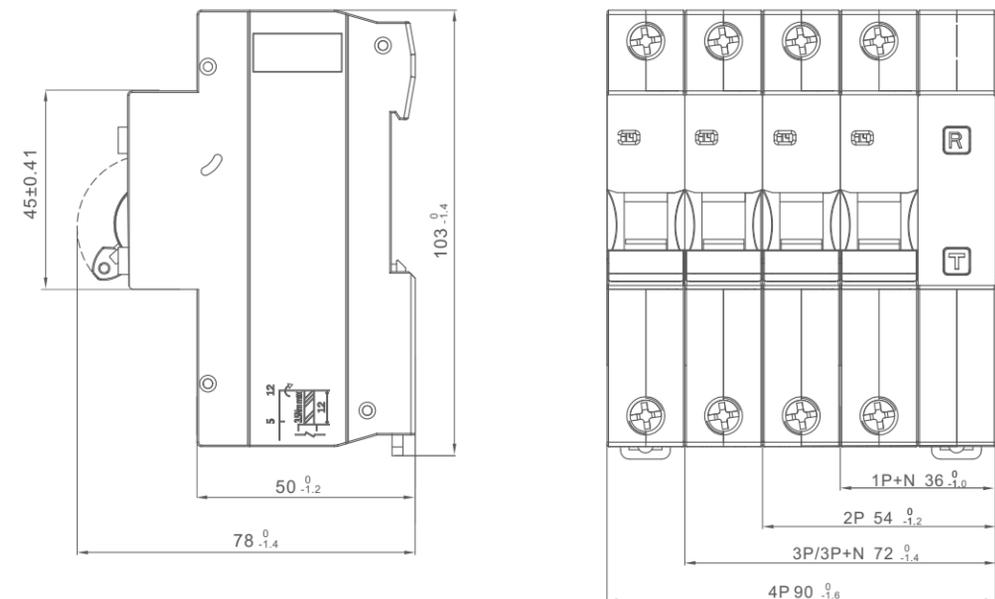
► Product Model And Implication

GYM10LE	125
Product model	
RCBO	Shell current

► Residual leakage current breaking time

Rated current In(A)	Rated residual action current I Δ n(mA)	Residual current breaking time (s)				
		I Δ n	2I Δ n	5I Δ n	5A~200A	500A
63~125	30、100、300	\leq 0.1	\leq 0.08	\leq 0.04	\leq 0.04	\leq 0.04

► Outline Overall And Installing Dimensions



0.03A、0.1A、0.3A
Rated residual action current

RCBO
IEC/EN 61009-1、GB/T 16917.1

CE CB SAA

GYR9N



GYR9N residual current operated circuit breaker is suitable for AC 50/60Hz, rated voltage up to 415V, and rated current up to 40A lines. When a person is electrocuted or the leakage current of the power grid exceeds the specified value, the circuit breaker can quickly cut off the faulty power supply in a very short time, protecting the safety of people and electrical equipment. It can also be used for overload and short circuit protection of the line, and for infrequent on-off operation under normal circumstances.

Circuit breakers are suitable for various occasions such as industrial, commercial, high-rise, and residential use.

- ✔ RoHS 2.0 compliant
- ✔ With leakage fault indication
- ✔ Wiring Capacity 1-25mm²



Product Model And Implication

GYR9	N	□
Product model		Protection type
RCBO	With N poles	M (electromagnetic type) E (electronic)

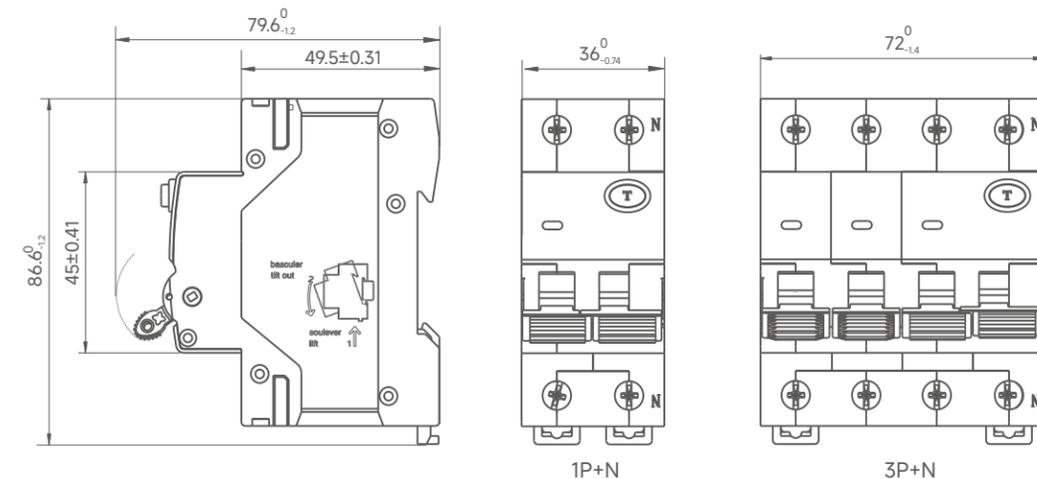
Residual leakage current breaking time

Rated current I _n (A)	Rated residual action current I _{Δn} (mA)	Residual current breaking time (s)				
		I _{Δn}	2I _{Δn}	5I _{Δn}	5A~200A	500A
6~40	30、100、300	≤0.1	≤0.08	≤0.04	≤0.04	≤0.04

Technical Specification

✔ Rated Voltage (Un)	230/240V、240/415V
✔ Rated Current (In)	6A、10A、16A、20A、25A、32A、40A
✔ Rated insulation voltage (Ui)	500V
✔ Rated impact tolerance voltage (Uimp)	4kV
✔ Rated residual action current (I _{Δn})	0.03A、0.1A、0.3A
✔ Poles	1P+N、3P+N
✔ Residual current action type	Type A、Type AC
✔ Working Frequency	50/60Hz
✔ Rated limit short circuit current (Inc)	6000A
✔ Rated limit Remaining short circuit current (I _{Δc})	6000A
✔ Rated on and off capacity (Im)	500A
✔ Rated residual switching and breaking capacity (I _{Δm})	500A
✔ Tightening moment:	2.0N·m
✔ Class of protection:	IP20
✔ Trip Curve	B、C、D
✔ Mechanical life:	20000 times
✔ Electrical life:	4000 times

Outline Overall And Installing Dimensions



0.03A、0.1A、0.3A
Rated residual action current

Type B RCBO

IEC/EN 61009-1, IEC/EN 62423, GB/T 22794, GB/T 16917.1.



GYR9NE-F/B



The GYR9NE-F/B Residual Current Operated Circuit Breaker is suitable for circuits with an AC frequency of 50/60Hz, rated voltage up to 240V, and rated current up to 40A. It is designed to detect AC leakage, pulsating DC leakage, smooth DC leakage, composite waveform leakage, and high-frequency leakage up to 1kHz.

The device can rapidly cut off faulty power within an extremely short time to protect personal safety and electrical equipment. It also serves as overload and short-circuit protection for circuits, as well as for infrequent switching operations under normal conditions.

This circuit breaker is suitable for various applications, including industrial, commercial, high-rise buildings, and residential use.

- ✔ Equipped with AC leakage, pulsating DC leakage, smooth DC leakage, composite wave leakage, and high-frequency leakage protection devices up to 1kHz - with complete protection functions
- ✔ The product has a leakage control handle opening function
- ✔ Wiring capacity: (1-25) mm²
- ✔ Compliant with environmental RoHS 2.0

F-type:
Type B:



Product Model And Implication

GYR9	N	E	-B
Product model			
AFDD	Integral type	Electronic	Residual current action type: Type B

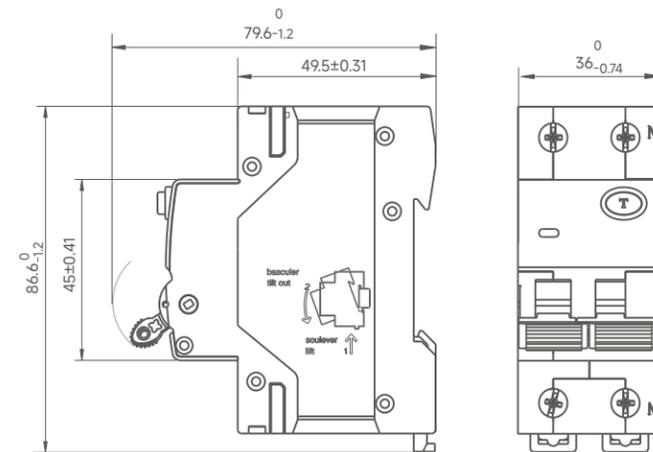
Residual leakage current breaking time

Rated current I _n (A)	Rated residual action current I _{Δn} (mA)	Residual current breaking time (s)				
		I _{Δn}	2I _{Δn}	5I _{Δn}	5A~200A	500A
6~40	30、100、300	≤0.1	≤0.08	≤0.04	≤0.04	≤0.04

Technical Specification

✔ Rated Voltage (U _n)	230/240V、240/415V
✔ Rated Current (I _n)	6A、10A、16A、20A、25A、32A、40A
✔ Rated insulation voltage (U _i)	500V
✔ Rated impact tolerance voltage (U _{imp})	4kV
✔ Rated residual action current (I _{Δn})	0.03A
✔ Poles	1P+N
✔ Residual current action type	Type F、Type B
✔ Working Frequency	50/60Hz
✔ Rated limit short circuit current (I _{nc})	6000A
✔ Rated limit Remaining short circuit current (I _{Δc})	6000A
✔ Rated on and off capacity (I _m)	500A
✔ Rated residual switching and breaking capacity (I _{Δm})	500A
✔ Tightening moment:	2.0N·m
✔ Class of protection:	IP20
✔ Trip Curve	B、C、D
✔ Installation	TH35-7.5 standard guide rail
✔ Mechanical life	20000 times
✔ Electrical life	4000 times

Outline Overall And Installing Dimensions



0.03A、0.1A、0.3A
Rated residual action current

RCBO
IEC/EN 61009-1、GB/T 16917.1



GYR10NE



GYR10N residual current operated circuit breaker is suitable for AC 50/60Hz, rated voltage up to 240V, and rated current up to 40A lines. When personal electric shock or power grid leakage current exceeds the specified value, the circuit breaker can quickly cut off the faulty power supply in a very short time, protecting the safety of personnel and electrical equipment. It can also be used for overload and short circuit protection of the line, and for infrequent on-off operation under normal circumstances.

Circuit breakers are suitable for various occasions such as industrial, commercial, high-rise, and residential use.

- ✔ Contact position indication function
- ✔ Wiring capacity: (0.5-16) mm²
- ✔ Connect the N line first and then disconnect it
- ✔ Compliant with environmental ROHS 2.0
- ✔ 18mm wide, small volume, compact structure
- ✔ Handle with anti slip strip for comfortable operation



Product Model And Implication

GYR10	N	E
Product model		
Enterprise code	With N poles	electronic type

Residual leakage current breaking time

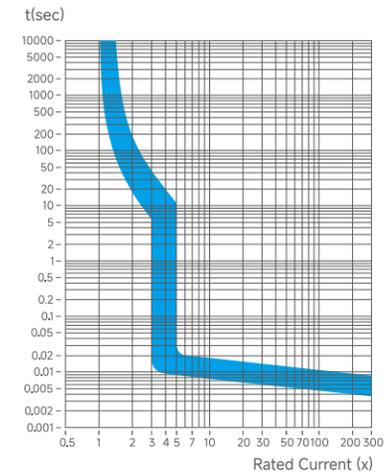
Rated current I _n (A)	Rated residual action current I _{Δn} (mA)	Residual current breaking time (s)				
		I _{Δn}	2I _{Δn}	5I _{Δn}	5A~200A	500A
6~40	30、100、300	≤0.1	≤0.08	≤0.04	≤0.04	≤0.04

Technical Specification

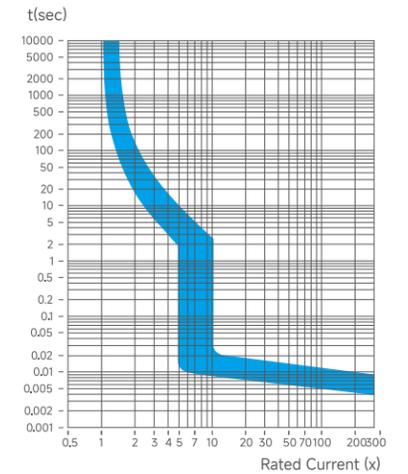
- ✔ Rated Voltage (U_n) 230/240V
- ✔ Rated Current (I_n) 6A、10A、16A、20A、25A、32A、40A
- ✔ Rated insulation voltage (U_i) 500V
- ✔ Rated impact tolerance voltage (U_{imp}) 4kV
- ✔ Rated residual action current (I_{Δn}) 0.03A、0.1A、0.3A
- ✔ Poles 1P+N
- ✔ Residual current action type Type A、Type AC
- ✔ Working Frequency 50/60Hz
- ✔ Rated limit short circuit current (I_{nc}) 4500A/6000A
- ✔ Rated limit Remaining short circuit current (I_{Δc}) 4500A/6000A
- ✔ Rated on and off capacity (I_m) 500A
- ✔ Rated residual switching and breaking capacity (I_{Δm}) 500A
- ✔ Tightening moment: 1.2N·m
- ✔ Class of protection: IP20
- ✔ Trip Curve B、C、

Tripping Curves

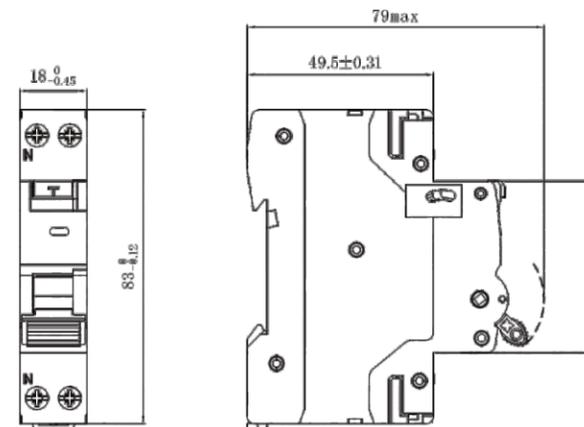
■ B



■ C



Outline Overall And Installing Dimensions



0.03A
Rated residual action current

AFDD
IEC/EN62606、IEC/EN61009-1、GB/T31143、GB16917.1



GYR9NE-ARC



GYR9NE-ARC series arc fault circuit breaker is suitable for household and similar AC circuits with AC 50/60Hz, rated voltage of 240V at both poles, and rated current of 40A and below. The product has an arc fault protection unit that can detect and identify series arc faults, parallel arc faults, and grounding arc faults in the line; For example, aging, damage, and humid air in the insulation layer of the line can easily cause arcing faults. When the arcing fault circuit breaker detects the presence of a faulty arc in the line, it will automatically trip and cut off the power supply;

- ✔ Equipped with arc fault detection and overvoltage protection functions
- ✔ Wiring capacity: (1-25) mm²
- ✔ Compliant with environmental RoHS 2.0



Product Model And Implication

GYR9	N	E	-ARC
Product model			
AFDD	Integral type	Electronic	Circuit breaker with fault arc detection function

Features

GYR9NE-ARC series arc fault circuit breaker protect from arc fault, overvoltage(275±5%), overload, short circuit, and electrical leakage.

Breaking limit value (63A and below) of rated voltage 230V GYR9NE-ARC

RMS value of test arc current	3A	6A	13A	20A	40A	63A
Max breaking time	1s	0.5s	0.25s	0.15s	0.12s	0.12s

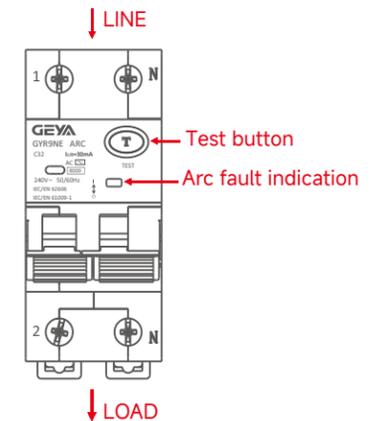
The test arc current is the expected current before burning occurs in the test circuit;

Technical Specification

✔ Rated voltage (Un)	230/240V
✔ Rated current (In)	6A、10A、16A、20A、25A、32A、40A
✔ Rated insulation voltage (Ui)	500V
✔ Rated impulse withstand voltage (Uimp)	4kV
✔ Rated residual operating current (I _{Δn})	0.03A、0.1A、0.3A
✔ Polar number	1P+N
✔ Residual current action type	AC Type、A Type
✔ Operating frequency	50/60Hz
✔ Rated limited short-circuit current (Inc)	6000A
✔ Rated limit residual short-circuit current (I _{Δc})	6000A
✔ Rated connection and disconnection capacity (Im)	500A
✔ Rated residual connection and disconnection capacity (I _{Δm})	500A
✔ Tightening torque	2.0N·m
✔ Protection level	IP20
✔ Release curve	B、C、D
✔ Installation method	TH35-7.5
✔ Mechanical life	20000 times
✔ Electrical life	4000 times

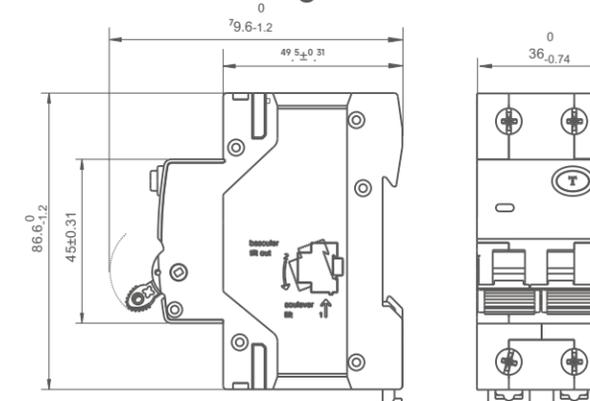
Wiring indication

Wiring indication:Instructions: After wiring according to the wiring diagram, connect the power supply at input terminal, when the device is in the trip position, the LED light is off; Switch the device on again; Switch on the device: if the green LED is always on, it means that the product can be used normally; if LED is off, it means that there is a problem with the power supply of the device, please contact us; if the red LED keeps on, it means that the self-test failed, please contact us; When the device trips when in use, how to confirm the cause of the trip: the device needs to be closed again, The load at the lower end needs to be disconnected before closing (the electrical appliance is turned off), and the specific operation is as follows;



- a. The green LED keeps on, and the device works normally;
- b. The red LED is always on, indicating that the self-test has failed;
- c. The red LED flashes once for 5 cycles, indicating that the last trip was caused by a fault arc;
- d. The red LED flashes twice for 5 cycles, indicating that the last trip was caused by an overvoltage fault;
- e. The red LED light flashes 3 times for 5 cycles, indicating that the last trip was caused by leakage fault;
- f. The LED light is off, indicating that there is no power supply;

Outline Overall And Installing Dimensions





16-125A
Rated current

Isolator
IEC60947-3, GB14048.3

GYH8

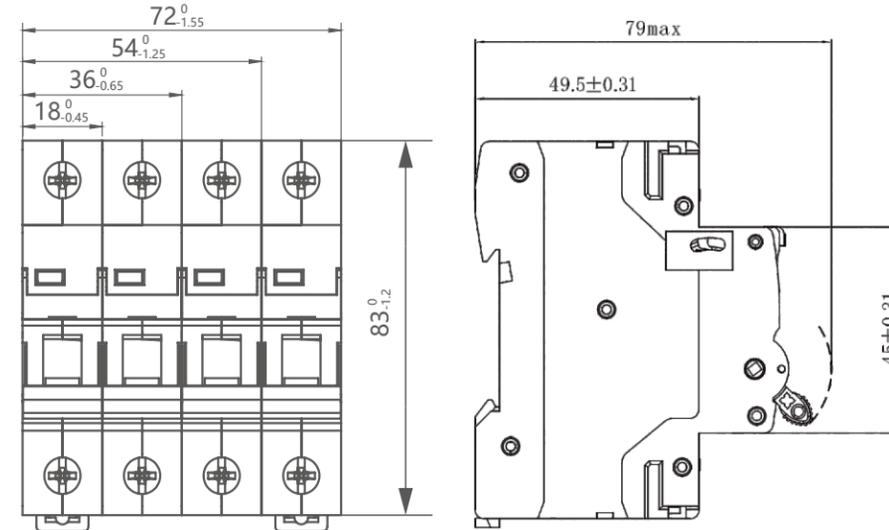


GYH8 isolation switch is mainly suitable for distribution and control circuits with AC 50Hz, rated voltage up to 400V, rated current 125A and below. It is mainly used as the main switch in terminal combination appliances and can also be used to control various low-power appliances and lighting infrequently. Widely used in industrial and mining enterprises, high-rise buildings, commercial and household places, etc

- ✔ The product has a transparent identification function
- ✔ Wiring capacity 2.5-50m²
- ✔ Contact position indication function
- ✔ Compliant with environmental ROHS 2.0



► Outline Overall And Installing Dimensions



► Product Model And Implication

GY	H8
Product Model	
GEYA Electrical	Isolator

► Technical Specification

- ✔ Rated voltage (Un) 1P:230/240 2P-4P:400/415
- ✔ Rated current (In) 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A
- ✔ Operating frequency 50/60Hz
- ✔ Rated insulation voltage (Ui) 690V
- ✔ Rated impulse withstand voltage (Uimp) 6kV
- ✔ Polar number 1P/2P/3P/4P
- ✔ Rated short-time withstand current (Icw) 12Ie, power on time 1s
- ✔ Rated short-circuit making capacity (Icm) 20Ie, power on time 0.1s
- ✔ Mechanical life 10000 times
- ✔ Electrical life 63A and below: 2,500 times; 63A and above: 1,500 times
- ✔ Installation method TH35-7.5 standard guide rail

Controlled by Switch
Control mode

**MCB/RCCB/RCBO
Controlled by Switch** 

GRD9L-C/D



Can be widely used in power grid terminal line, such as meter box, new energy circuit management, PV solar control box, smart electricity, smart home, new energy vehicle charging pile, and so on.

- It can be matched with MCB /RCCB to remotely close and open MCB/RCCB
- MCB / RCCB controlled by switch, type D has auto reclosing function.
- With manual/automatic selector switch.
- With mechanical /electronic double locking function.
- The shaft transmission mode is more stable and reliable.
- Can match other accessories.
- Work status is indicated by LED
- 1-MODULE.



Product model and definition

GRD9L	—	□	/	□
		Function		Rated control supply voltage
		C:Controlled by switch D:Controlled by switch+ Auto Reclosing		D12:DC12V A220:AC220V

Note: The matching MCB /RCCB /RCBO specification and model shall be indicated when ordering.
Example 1: GRD9L-C/D +GYM9 2P C40
Example 2:GRD9L-C/D +GYL9 2P 40A 30mA

Technical Specification

	GRD9L-C	GRD9L-D
Control mode	Controlled by switch	Controlled by switch+Auto Reclosing
Supply terminals	A1-A2	
Voltage range	DC12V,DC24V~48V	
Power input	DC max.1W(standby) max.20W(action)	
Supply voltage tolerance	-10%; +10%	
Voltage range	AC 220V(50~60Hz)	
Power input	DC max.1W(standby) max.20W(action)	
Supply voltage tolerance	-10%;+10%	
Supply indication	red LED	
Action time	≤1s	
Auto reclosing times	-	3 times
Auto reclosing time interval	-	10s-60s-300s
Reset the closing times	-	No trip or manual reset within 15 minutes after successful closing
Mechanical life	10000 times	
Electrical life(AC1)	4000 times	
Operating temperature	-20°C to +55°C	
Storage temperature	-35°C to +75°C	

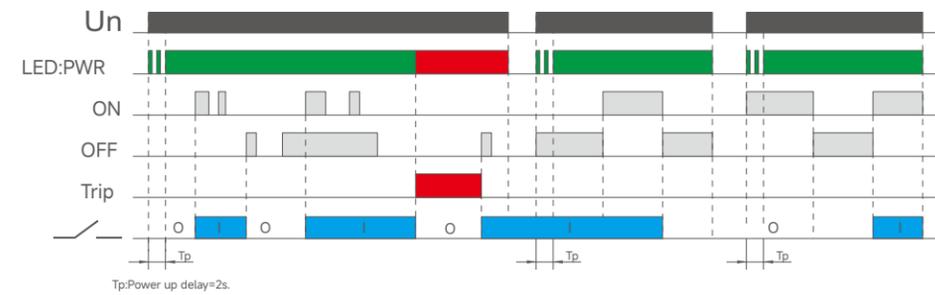
	GRD9L-C	GRD9L-D
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP20	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max. cable size(mm²)	82X18X78mm	
Dimensions	1X2.5mm² or 2X1.5mm²	
Weight	80g	

Combination with accessories

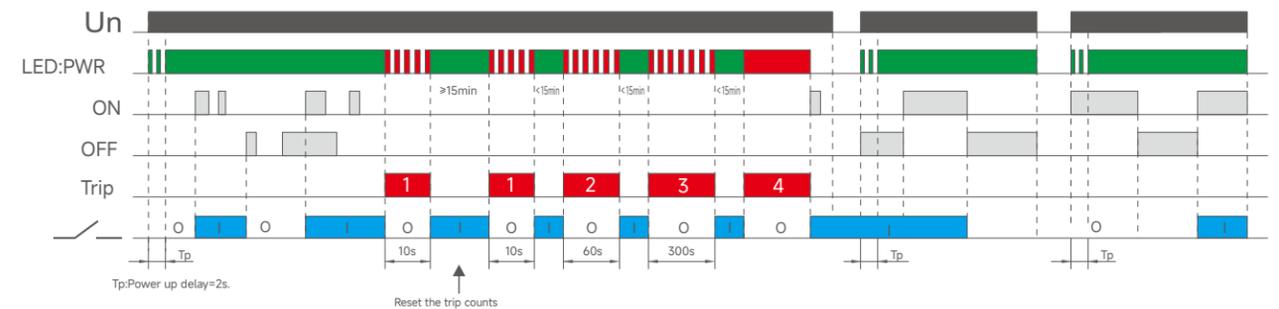
	GRD9L-C/D
Auxillary contact	Yes
Alarm contact	Yes
Shunt release	Yes
Under voltage release	Yes

Functions Diagram

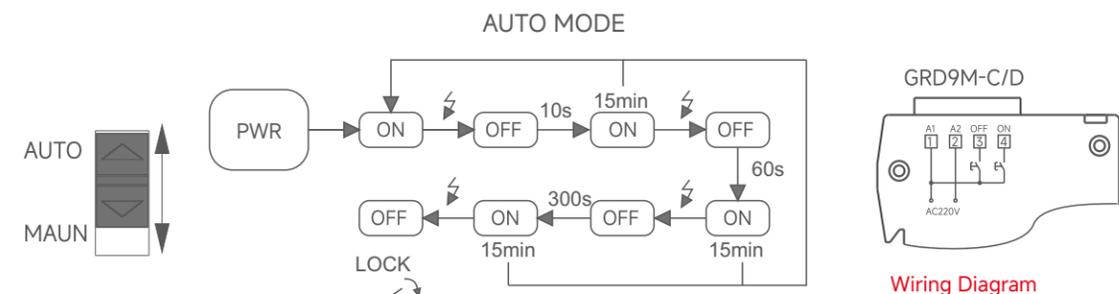
GRD9L-C(Auto Mode)



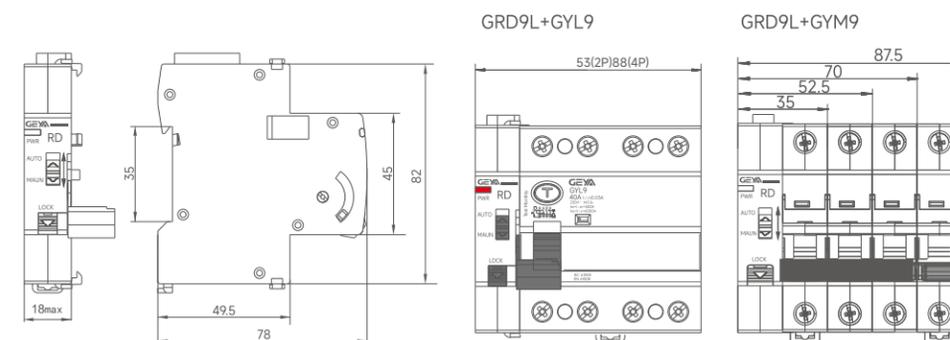
GRD9L-D(Auto Mode)



GRD9L-D has automatic closing function, The closing logic is shown in the figure below:



Outline Overall And Installing Dimensions



Auto Rexlosing
Control mode

**MCB/RCCB/RCBO
with Auto Reclosing**



GRD9L-R



Can be widely used in power grid terminal line, such as meter box, new energy circuit management, PV solar control box, smart electricity, smart home, new energy vehicle charging pile, and so on.

-It can be matched with MCB /RCD and automatically reclose when MCB /RCCB trips unexpectedly, No need for manual closing, reduce the cost of manual maintenance, and eliminate faults in time to improve efficiency.

-built in 3 reclosing times, continuous closing failure within 15 minutes can send alarm through auxiliary contact.

-With manual/automatic selector switch.

-With mechanical/electronic double locking function.

-The shaft transmission mode is more stable and reliable.

-Can match other accessories. -Work status is indicated by LED.

-1-MODULE



Product model and definition

GRD9L	—	R	/	□
		Function		Rated control supply voltage
		R: Auto Reclosing +AUX		D12:DC12V A220:AC220V

Note: The matching MCB /RCCB /RCBO specification and model shall be indicated when ordering.

Example 1: GRD9L-R +GYM9 2P C40
Example 2:GRD9L-R +GYL9 2P 40A 30mA

Technical Specification

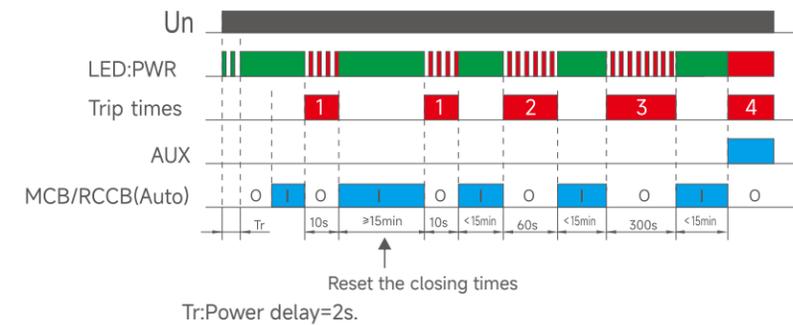
	GRD9L-R
Control mode	Auto Rexlosing
Supply terminals	A1-A2
Voltage range	DC12V,DC24V~48V
Power input	DC max.1W(standby) max.20W(action)
Supply voltage tolerance	-10%; +10%
Voltage range	AC 220V(50-60Hz)
Power input	DC max.1W(standby) max.20W(action)
Supply voltage tolerance	-10%;+10%
Supply indication	red LED
Action time	≤1s
Auto reclosing times	3 times
Auto reclosing time interval	10s-60s-300s
Reset the closing times	No trip or manual reset within 15 minutes after successful closing
Mechanical life	10000
Electrical life(AC1)	4000
Operating temperature	-20°C to +55°C
Storage temperature	-35°C to +75°C

	GRD9L-R
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP20
Operating position	any
Overtoltage cathegory	III.
Pollution degree	2
Max. cable size(mm ²)	1X2.5mm ² or 2X1.5mm ²
Dimensions	82X18X78mm
Weight	80g

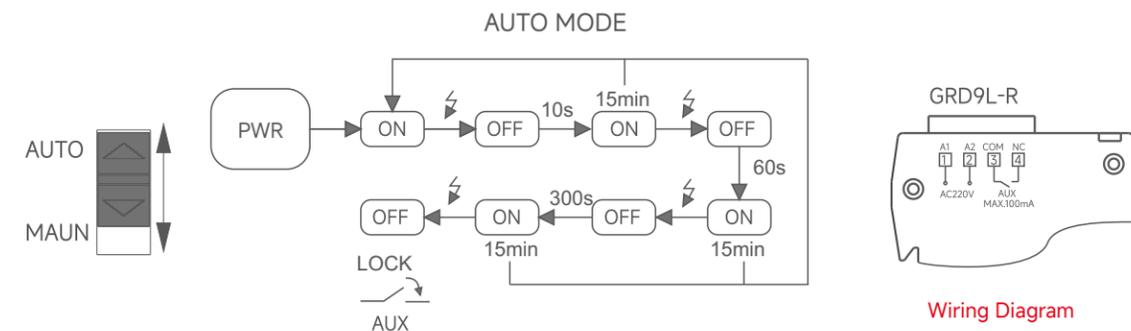
Combination with accessories

	GRD9L-R
Auxillary contact	Yes
Alarm contact	Yes
Shunt release	Yes
Under voltage release	Yes

Functions Diagram



GRD9L-D has automatic closing function,The closing logic is shown in the figure below:



Note: if the closing times and delay time need to be customized, please contact our company.

Outline Overall And Installing Dimensions



RS485
Control mode

MCB/RCCB/RCBO
with RS485 Interface



GRD9L-S



- Can be widely used in power grid terminal line, such as meter box, new energy circuit management, PV solar control box, smart electricity, smart home, new energy vehicle charging pile, and so on.
- Can be matched with MCB/RCCB,remote switching and splitting of MCB/RCCB
- Remote monitoring and control of MCB/RCCB through RS485 interface
- With manual/ automatic selector switch.
- With mechanical/electronic double locking function.
- The shaft transmission mode is more stable and reliable.
- Can match other accessories.
- Work status is indicated by LED
- 1-MODULE.



Product model and definition

GRD9L	—	S	/	□	
		Function	Rated control supply voltage		
		S: Control through RS485 interface	D12:DC12V A220:AC220V		

Note: The matching MCB /RCCB /RCBO specification and model shall be indicated when ordering.
Example 1: GRD9L-S +GYM9 2P C40
Example 2:GRD9L-S +GYL9 2P 40A 30mA

Technical Specification

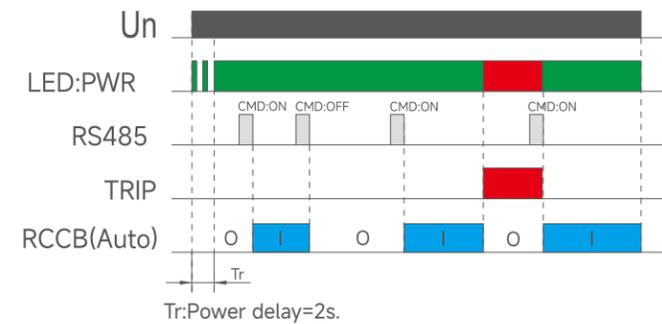
	GRD9L-S
Control mode	RS485
Supply terminals	A1-A2
Voltage range	DC12V,DC24V~48V
Power input	DC max.1W(standby) max.20W(action)
Supply voltage tolerance	-10%; +10%
Voltage range	AC 220V(50~60Hz)
Power input	DC max.1W(standby) max.20W(action)
Supply voltage tolerance	-10%;+10%
Supply indication	red LED
Action time	≤1s
Auto reclosing times	3 times
Auto reclosing time interval	10s-60s-300s
Reset the closing times	No trip or manual reset within 15 minutes after successful closing
Mechanical life	10000
Electrical life(AC1)	4000
Operating temperature	-20°C to +55°C
Storage temperature	-35°C to +75°C

	GRD9L-S
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP20
Operating position	any
Overtoltage cathegory	III.
Pollution degree	2
Max. cable size(mm ²)	1X2.5mm ² or 2X1.5mm ²
Dimensions	82X18X78mm
Weight	80g

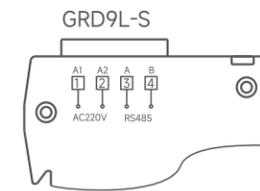
Combination with accessories

	GRD9L-S
Auxillary contact	Yes
Alarm contact	Yes
Shunt release	Yes
Under voltage release	Yes

Functions Diagram

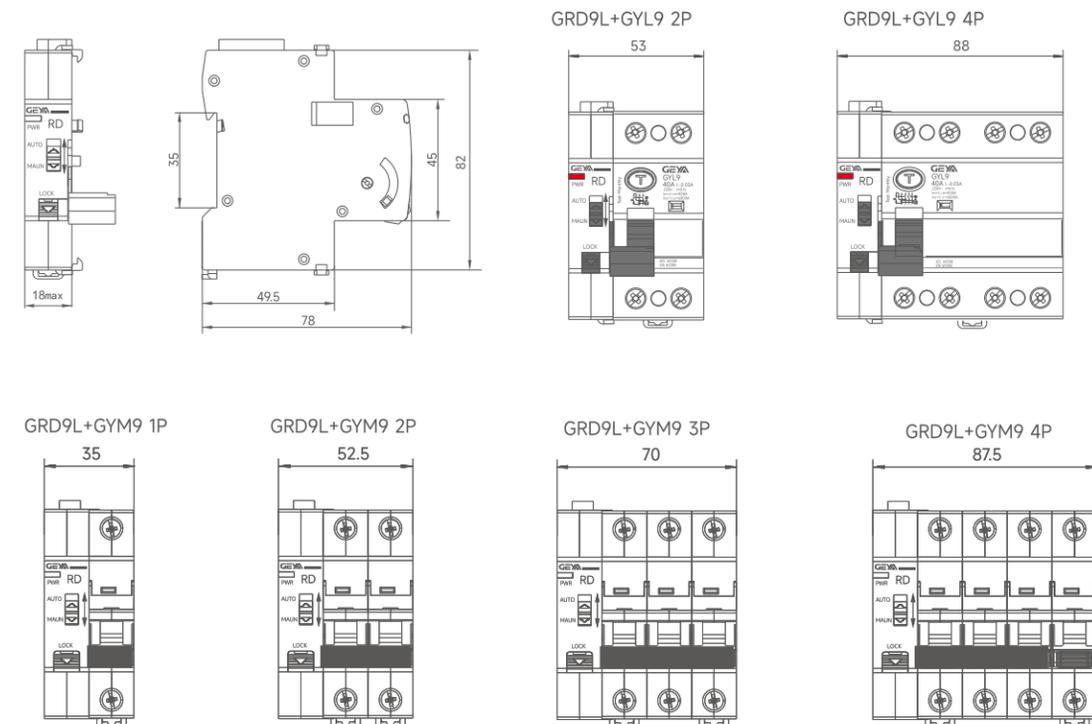


Note: If you need a communication protocol, please contact us.



Wiring Diagram

Outline Overall And Installing Dimensions





MCB/RCCB/RCBO
Controlled by WiFi



GRD9L-W



- It can be used for intelligent household electricity management and photovoltaic distribution systems.
- It can be matched with MCB/RCCB/RCBO and remotely controlled for closing and opening through the APP.
- RCCB/MCB/RCBO (timing switch function) can be set to be turned ON/OFF at any time through the APP.
- With manual / automatic selector switch.
- With mechanical / electronic double locking function.
- The shaft transmission mode is more stable and reliable.
- Can match other accessories.
- Work status is indicated by LED.
- 1-MODULE(RD).



Product model and definition

GRD9L	—	W	/	□	
		Function	Rated control supply voltage		
		Control through WiFi	A220:AC220V		

Note: The matching MCB /RCCB /RCBO specification and model shall be indicated when ordering.
Example 1: GRD9L-W +GYM9 2P C40
Example 2:GRD9L-W +GYL9 2P 40A 30mA

Technical Specification

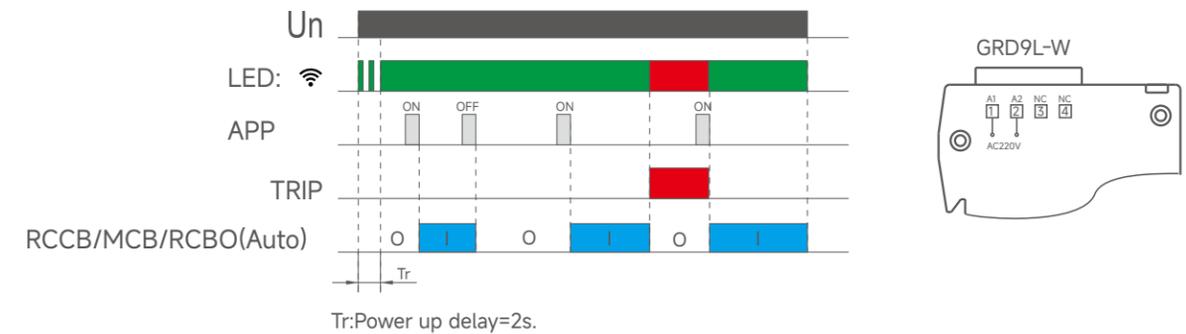
	GRD9L-W
Control mode	WiFi
Supply terminals	A1-A2
Voltage range	AC 220V(50/60Hz)
Power input	AC max.1VA(standby) max.20VA(action)
Supply voltage tolerance	-10%; +10%
Supply indication	red LED
Action time	≤1s
WiFi connectivity	802.11 b/g/n 2.4GHz
Mechanical life	10000
Electrical life(AC1)	Refer to MCB / RCCB / RCBO catalogue
Operating temperature	-20°C to +55°C
Storage temperature	-35°C to +75°C
Max.cable size(mm ²)	Solid wire max 1x2.5 or 2x1.5/ with sleeve max.1x2.5(Awg 12)

	GRD9L-W
Mounting/DIN rail	Din rail EN/IEC 60715
Protection degree	IP20
Operating position	any
Overtoltage cathegory	III.
Pollution degree	2
Dimensions	82X18X78mm
Weight	80g

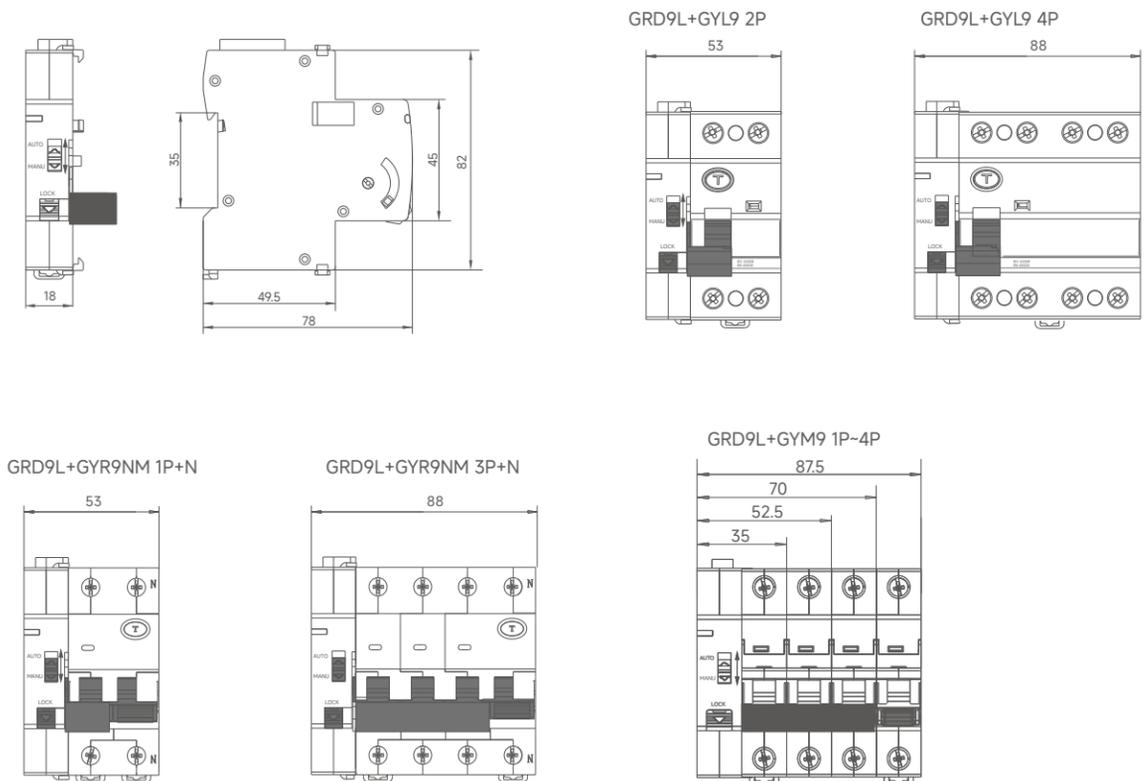
Combination with accessories

	GRD9L-W
Auxillary contact	Yes
Alarm contact	Yes
Shunt release	Yes
Under voltage release	Yes

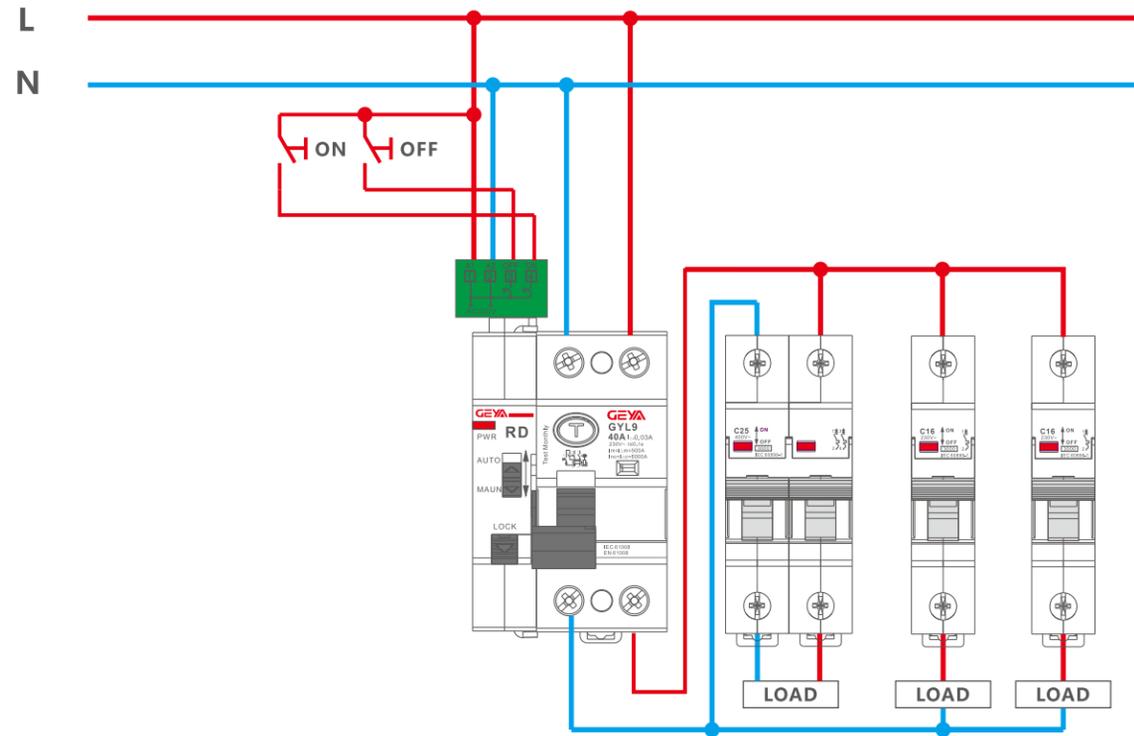
Functions Diagram



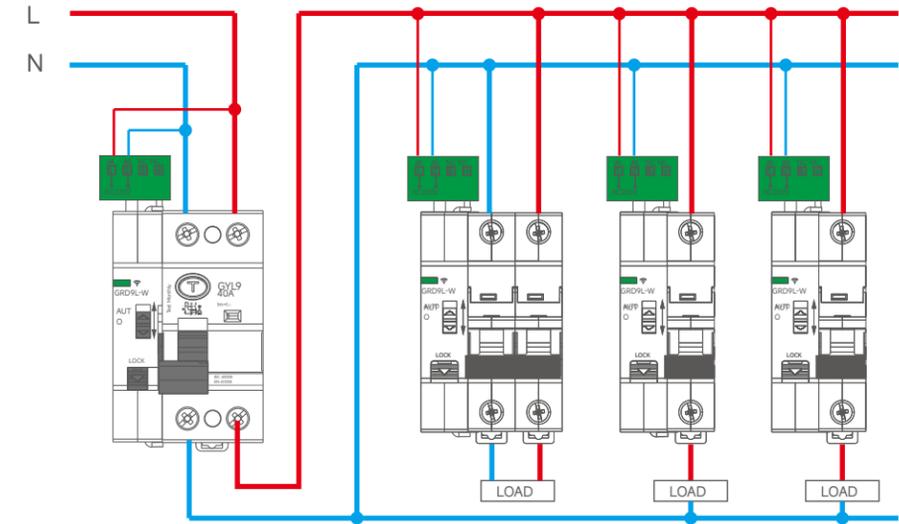
Outline Overall And Installing Dimensions



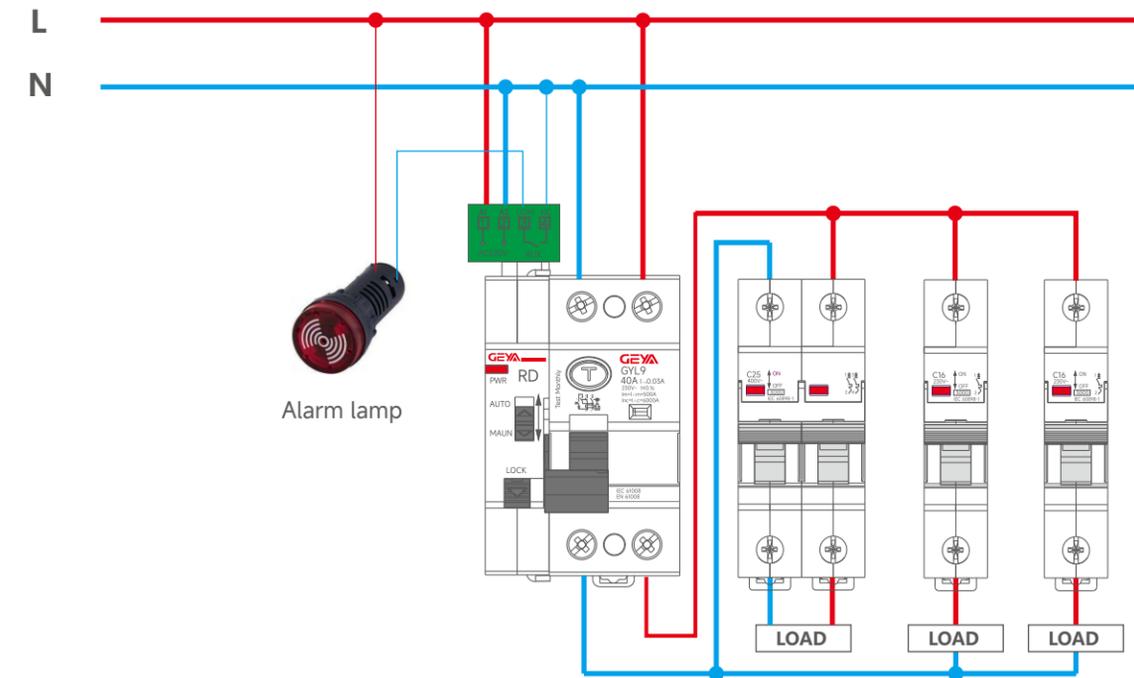
GRD9L-C



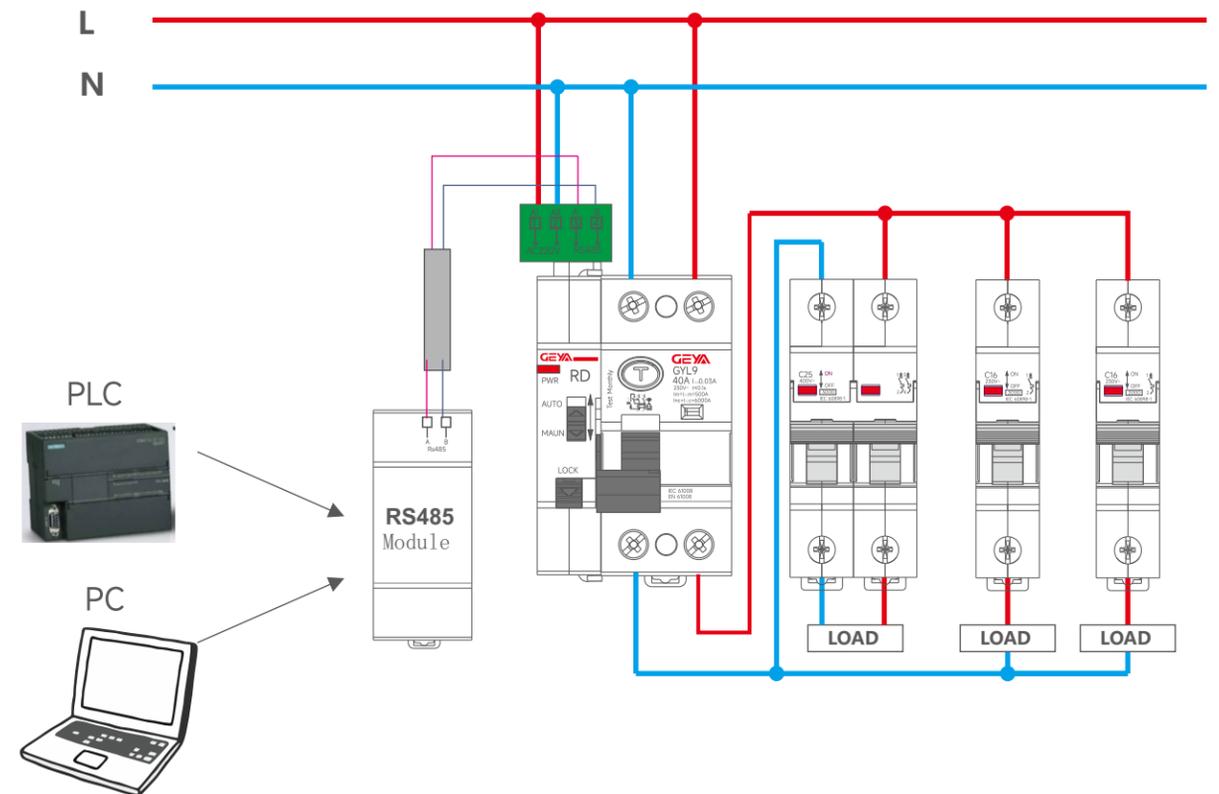
GRD9L-W



GRD9L-R



GRD9L-S





WIFI circuit breaker
IEC/EN 61009-1、GB/T 16917.1



GWS9



GWS9 intelligent WIFI circuit breaker is suitable for real-time monitoring of voltage, current, power rate, temperature, etc. in lines with a rated working voltage range of 90-240V and a rated current up to 40A. It has metering function, remote control, timing control, prepayment, as well as overvoltage, undervoltage, overload, overtemperature, and overpower protection functions. Suitable for various places such as industry, commerce, high-rise buildings, and residential buildings

- ✔ Mobile remote control Tuya APP Operation.
- ✔ High quality materials such as copper connectors, flame-retardant PA66 shells, and high-performance chip modules are durable and reliable.
- ✔ Silicone rubber button, comfortable to operate, stylish design.



► **Product Model And Implication**

GWS9	□
Product Model	Product Type
WIFI MCB	W: Button DW: LCD display

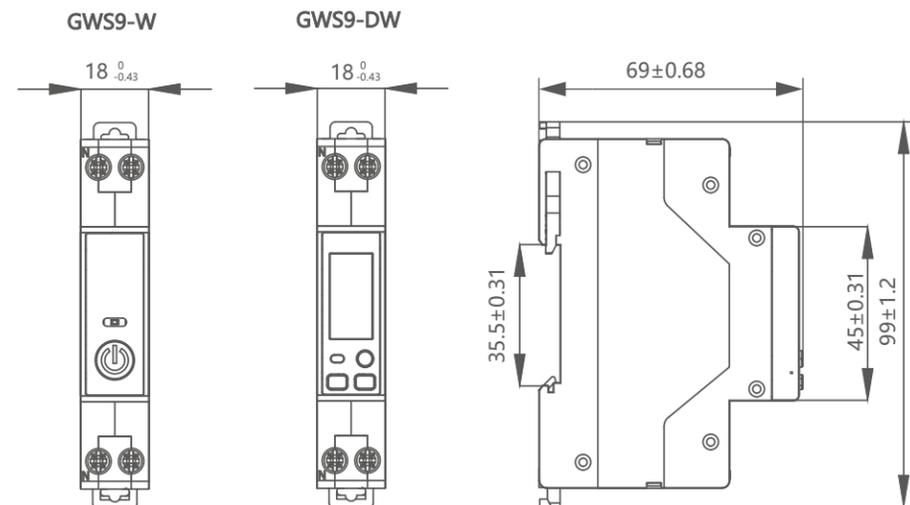
► **Technical Specification**

Project	Product model	
	GWS9-W	GWS9-DW
Rated working voltage range	90V-240V	90V-240V
Number of poles	1P+N	1P+N
Max over current	63A(3-10)s	63A(3-10)s
Rated current	1~40A current adjustable	1~40A current adjustable
Communication methods	TUYA wifi	TUYA wifi
Operating ambient temperature	-25°C~70°C	-25°C~70°C
Ultimate short-circuit capacity	500A	500A
Electrical lifespan	≥10000	≥10000
Mechanical lifespan	≥100000	≥100000
Closing time	<20ms	<20ms
Opening time	<20ms	<20ms
Display screen	/	LCD

► **Functional parameters**

No.	Protection function	trip type	Parameter settings	Settings	factory default
1	Overvoltage protection	Turn off/ Alarm/Trip	Overvoltage adjustment	250~350V	280V
			Overvoltage delay	0~10s	
2	Undervoltage protection	Turn off/ Alarm/Trip	Undervoltage adjustment	80~200V	165V
			Under voltage delay	0~10s	
3	Overload protection	Turn off/ Alarm/Trip	Overload adjustment	1~63A	50A
			Overload delay	3~10s	
4	High temperature protection	Turn off/ Alarm/Trip	high temperature adjustment	0~120°C	80°C
			High temperature delay	0~10s	
5	Over power protection	Turn off/ Alarm/Trip	Overpower value	50W-11Kw	off
			Over power delay	0~10s	

► **Outline Overall And Installing Dimensions**





WIFI circuit breaker
IEC/EN 61009-1、GB/T 16917.1



GWS9-W1

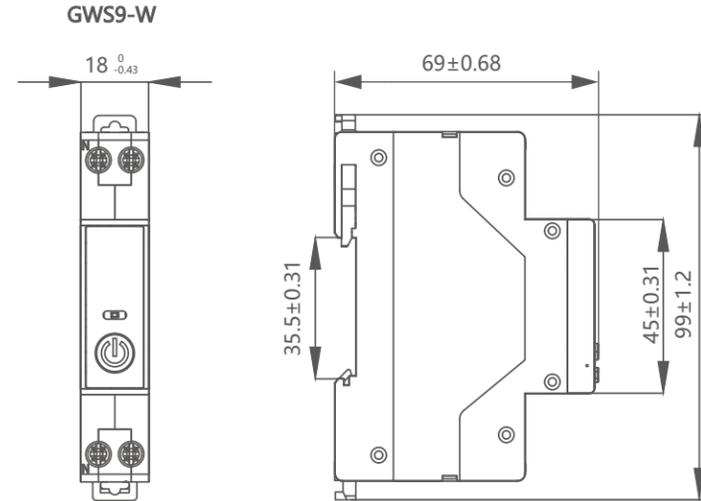


GWS9-W1 intelligent WIFI circuit breaker is suitable for circuits with a rated working voltage range of 90~240V and a rated current of 40A. It can remotely control the circuit switch and has functions such as timing control, countdown closing, cycle timing, sunrise timing, and sunset timing Suitable for various places such as industry, commerce, high-rise buildings, and residential buildings.

- ✔ Mobile remote control Tuya APP Operation.
- ✔ High quality materials such as copper connectors, flame-retardant PA66 shells, and high-performance chip modules are durable and reliable.
- ✔ Silicone rubber button, comfortable to operate, stylish design.



► **Outline Overall And Installing Dimensions**



► **Product Model And Implication**

GWS9	W1
Product Model	Product Type
WIFI MCB	Button on/off switching

► **Technical Specification**

Project	Product model
	GWS9-W1
Rated working voltage range	90V~240V
Number of poles	1P+N
Max over current	63A(3~10)s
Rated current	1~40A current adjustable
Communication methods	TUYA wifi
Operating ambient temperature	-25°C~70°C
Ultimate short-circuit capacity	500A
Electrical lifespan	≥10000
Mechanical lifespan	≥100000
Closing time	<20ms
Opening time	<20ms
Display screen	/

IoT Miniature Circuit Breaker GYCB9-100



GYCB9-100 IoT circuit breaker is mainly suitable for circuits with AC rated frequency of 50Hz, rated voltage not exceeding 440V, rated current not exceeding 100A, and short-circuit current not exceeding 10KA. It can be installed in smart meter measurement systems, photovoltaic grid connection, industrial control, equipment, homes, office buildings, street lamp control systems, nursing homes, cultural relics protection units, schools, hospitals, agriculture, gardens, gas stations, oil fields, railway stations, complete sets of equipment and other distribution circuits. It has functions such as remote control, manual opening and closing, over temperature protection, over/under voltage, over power energy measurement, overload, short circuit, ground fault protection, leakage protection etc.



Product Main Features of The Product

- Maintenance safety lock: Effectively ensures the safety of personnel during maintenance;
- Independent power supply: Prevents system crashes and operational failures;
- Modular design: Offers customizable combinations for flexible applications;
- High precision: Voltage and current detection accuracy Class 0.5; power accuracy Class 1.0.
- Retains miniature circuit breaker (MCB) characteristics in all functions;
- Flexible communication options: RS485 (default), with optional Wi-Fi, 4G, RJ45, Zigbee, etc.
- Configurable protection actions: shutdown, alarm, or trip;
- Multiple remote upgrade modes enable maintenance without inconvenience;
- Power outage protection: Data storage and upload are maintained after main circuit power-off;
- Neutral-fault protection: Triggers immediate power loss and alarms upon neutral line disconnection;
- Automatic fault analysis: Identifies causes and events, with logs displayed for troubleshooting;
- Timer switch: Controls equipment on/off schedules to reduce energy consumption;
- Protection functions (load imbalance, phase loss, phase reversal, overtemperature) extend equipment and line lifespan while ensuring electrical safety;

Product Model Explanation

GY CB 9 -100 H R / 1P 63A



Serial Number	Meaning	Serial Number	Meaning
①	Enterprise code	⑤	H: High short-circuit breaking, Icn=10kA Ics=7.5kA
②	Circuit breaker	⑥	Communication method: R-RS485;W-wifi;G-4G
③	Design serial number	⑦	Poles:1P 2P 3P 4P
④	Shell level	⑧	Rated current: Preferred 20A 32A 63A 100A

Major function

NO.	Protection function	Protection function	GYCB9-100				Parameter settings	Set value	Factory Default
			1P	2P	3P	4P			
1	Overvoltage protection	Close/Alarm/Trip	Trip	Trip	Trip	Trip	Overvoltage setting	250-300V	280V
							Overvoltage delay	0-10s	3s
2	Undervoltage protection	Close/Alarm/Trip	Alarm	Alarm	Alarm	Alarm	Undervoltage setting	110-200V	185V
							Undervoltage delay	0-10s	3s
3	Lack of phase protection	Close/Alarm/Trip	-	-	Trip	Trip	Lack of phase setting	10-100V	35V
							Lack of phase delay	0-10s	3s
4	Overload protection	Close/Alarm/Trip	Alarm	Alarm	Alarm	Alarm	Overload setting	0.5-1.0 In	In
							Overload delay	0-10s	3s
5	Underload protection	Close/Alarm/Trip	Close	Close	Close	Close	Underload ratio	1-90%	5%
							Underload delay	0-10s	5s
6	Temperature protection	Close/Alarm/Trip	Alarm	Alarm	Alarm	Alarm	Temperature setting	60-120°C	85°C
							Temperature delay	0-10s	3s
7	Over power protection	Close/Alarm/Trip	Close	Close	Close	Close	Overpower value	50-50000W	5000W
							Overpower delay	0-10s	3s
8	Under power protection	Close/Alarm/Trip	Close	Close	Close	Close	Undepower value	50-50000W	5000W
							Underpower delay	0-10s	3s
9	Power-off protection	Close/Alarm/Trip	Close	Close	Close	Close	Power-off value	0-100V	35V
							Power-off delay	0-10s	3s
10	Voltage imbalance protection	Close/Alarm/Trip	-	-	Close	Close	Voltage imbalance degree	5-30%	15%
							Voltage imbalance delay	0-10s	3s
11	Current imbalance protection	Close/Alarm/Trip	-	-	Close	Close	Current imbalance degree	5-30%	15%
							Current imbalance delay	0-10s	3s
12	Warning function	Open/Close	Close	Close	Close	Close	Warning ratio	80-100%	90%
13	N Disconnect protection	Open/Close	Open	Open	Open	Open	Power-off delay	0-3s	1s
14	Arc protection	Close/Alarm/Trip	Alarm	Alarm	-	-			
15	Wrong phase protection	Close/Alarm/Trip	Alarm	Alarm	Alarm	Alarm	Wrong phase delay	0-10s	3s
16	Timing control	Open/Close	Close	Close	Close	Close	Month/Week/Day /Hour/Minute		
17	Automatic closing	Open/Close	Close	Close	Close	Close			
18	Remote control allowed	Open/Close	Close	Close	Close	Close			
19	Power ON delay	Open/Close	Close	Close	Close	Close	Delay time	3-20s	3s
20	Harmonic detection	Close/Alarm/Trip	Close	Close	Close	Close	Harmonic quantity THD	10-50%	15%

► **Main technical parameters**

Project	GYCB9-100IoT Miniature Circuit Breaker
Compliantwith standards	GB 10963 NBT42149/IEC60898 EC63024
Number of product poles	1P 2P 3P 4P
Rated voltage	1P/2P:230V 3P/4P:400V
Release type	B C D
Short circuit breaking capacity	GYCB9-100:Icn=Ics=6KA; GYCB9-100H:Icn=10KA Ics=7.5KA
Mechanical Life	>6000 times
Electrical life	>15000 times
Close/Open time	<3.0s / <1.0s
Electricity metering accuracy	1.0
Using the working environment temperature	-25~70°C
protection grade	IP20
Installation method	35mm Standard guide rail
Wiring ability	35mm ²
Closing and opening method	Manual or remote opening and closing
Function parameter setting method	App PC PDA etc
Communication method	RS485、 TUYA wifi、 ESP wifi、 Zigbee、 Lora、 4G、 RJ45 etc

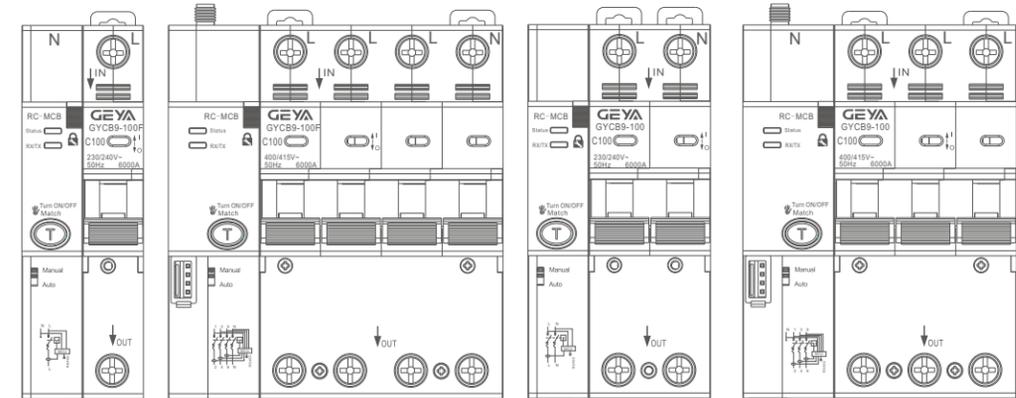
► **Product Outline Dimensional Drawing**



► **Product diagram by communication method**

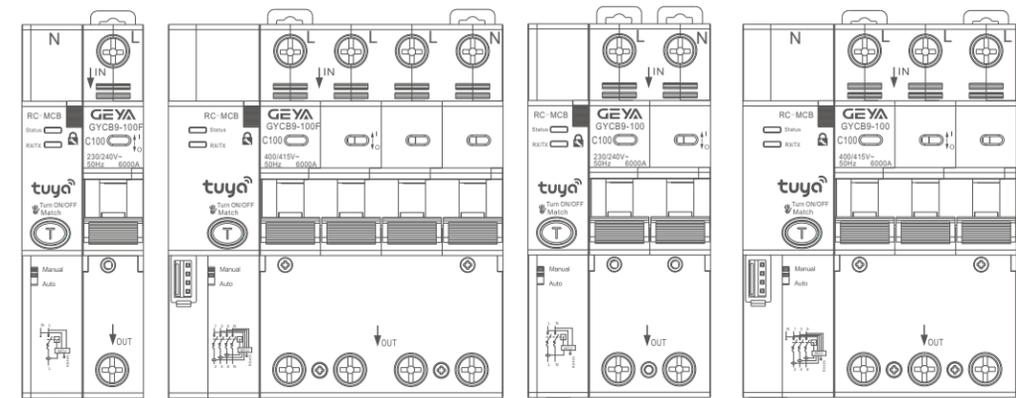
RS485

Communication Method



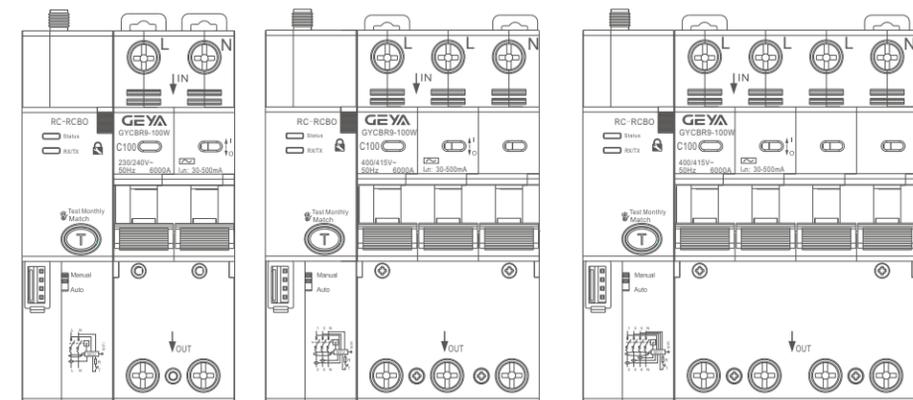
WIFI+RS485

Communication Method



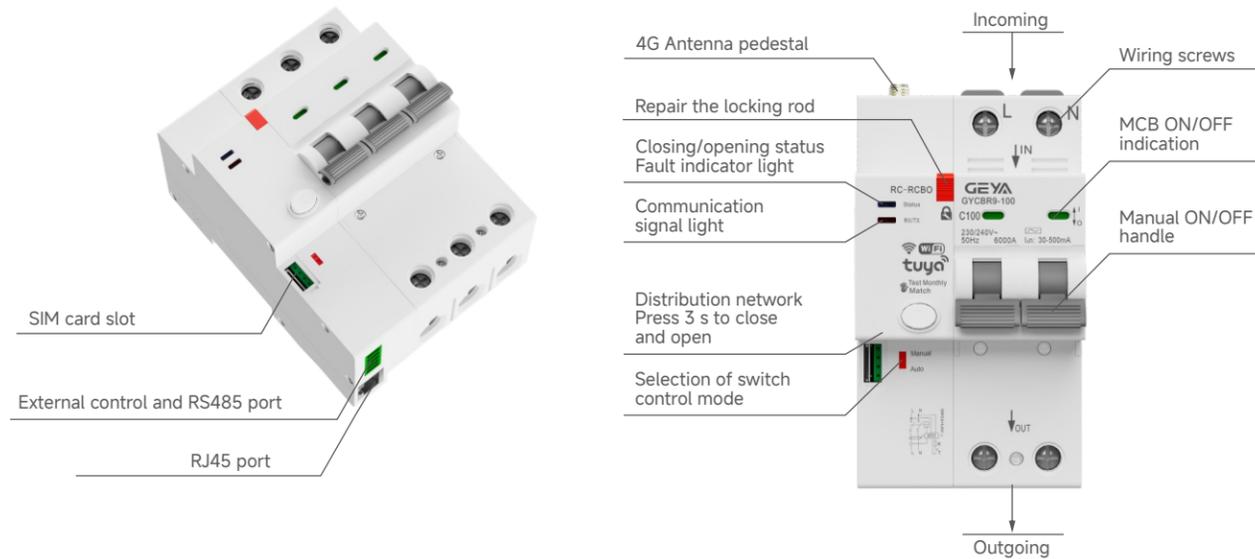
4G+RS485

Communication Method

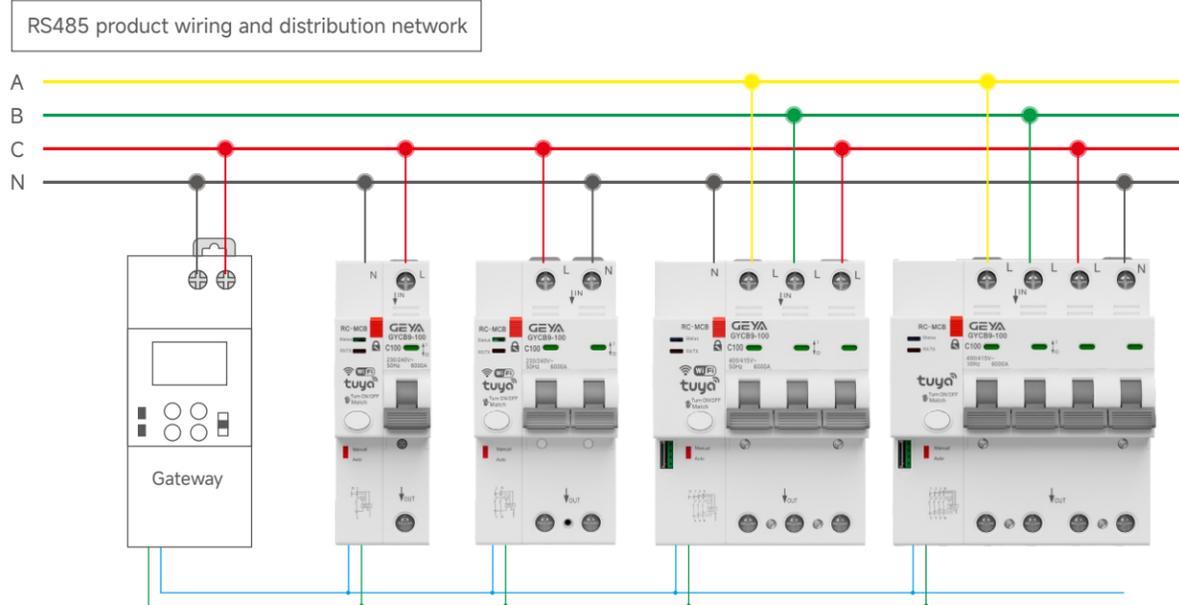


Note: Other communication methods, such as Zigbee, RJ45, Loora, etc., can be customized according to the actual design.

► Product Description Diagram



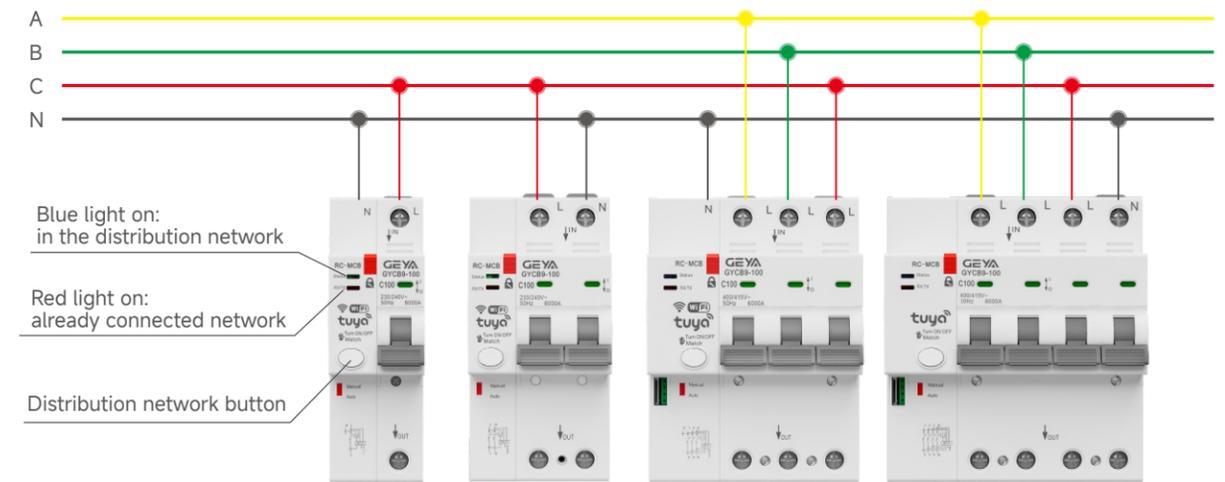
► Product installation wiring and distribution network instructions



Note: The gateway can pair up to 24 sub devices!

1. Enter the gateway distribution network mode (host mode), the RX/TX indicator light of the sub device is always blue, and enter the distribution network state;
2. Press the sub device distribution button to proceed with the distribution network; The current sub device is successfully paired, and the red RX/TX indicator light of the sub device is constantly on;
3. Install sub devices in sequence;
4. After all sub devices are paired, press the "Menu" button on the gateway to confirm and exit the distribution network mode. The distribution network is complete;
5. Scan the code on the app to add a device;

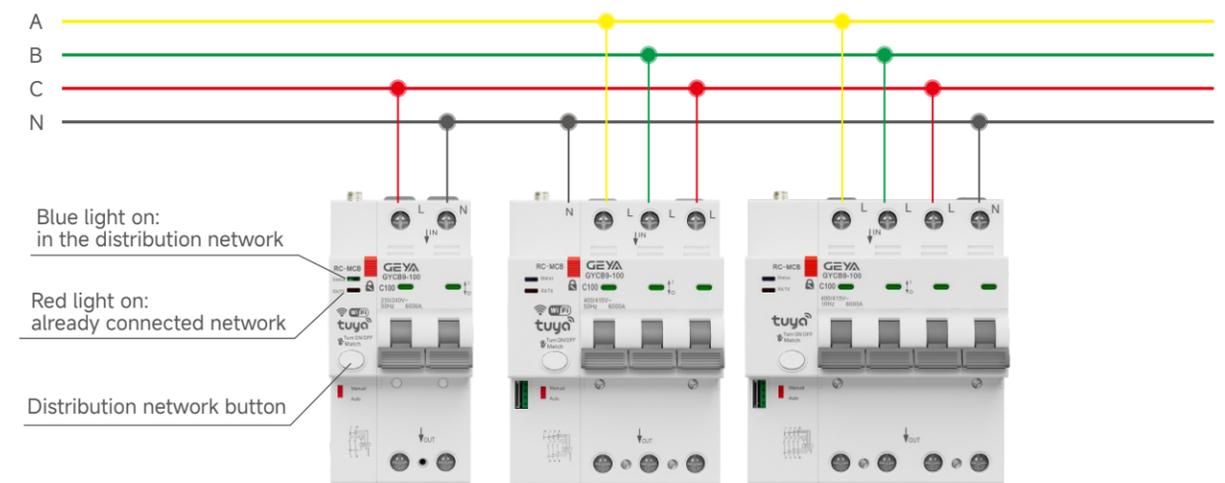
WIFI product wiring and distribution network



Attention: It is best not to connect more than 20 devices in the same router network, otherwise it is easy to disconnect!!

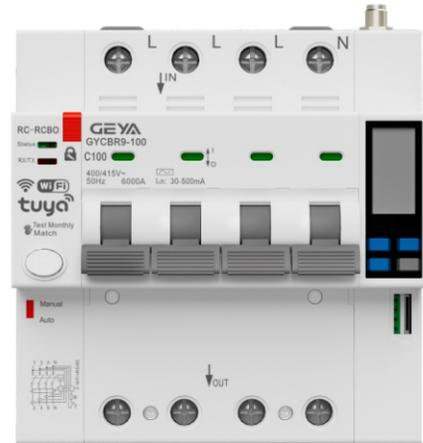
1. Press and hold the distribution network button for 3 seconds, wait for the blue light of the RX/TX indicator light to remain on, and enter the distribution network state;
2. After turning on Bluetooth on your phone, open the mobile app to search for devices; After searching for the current device configuration, click on connect;
3. After successful connection, the red light of the RX/TX indicator on the device remains on, indicating successful distribution of power to the device;
4. Enter the APP menu to operate the device or view device parameters;

4G product wiring and distribution network



1. Open the mobile app and scan the QR code on the device to add the device
2. After successful connection, the red light of the RX/TX indicator on the device remains on, indicating successful distribution of power to the device;
3. Enter the APP menu to operate the device or view device parameters;

IoT Miniature Circuit Breaker GYCB9L-100



GYCB9L-100 IoT Leakage circuit breaker is mainly suitable for circuits with AC rated frequency of 50Hz, rated voltage not exceeding 440V, rated current not exceeding 100A, and short-circuit current not exceeding 10KA. It can be installed in smart meter measurement systems, photovoltaic grid connection, industrial control, equipment, homes, office buildings, street lamp control systems, nursing homes, cultural relics protection units, schools, hospitals, agriculture, gardens, gas stations, oil fields, railway complete sets of equipment and other distribution circuits. It has functions such as remote stations, control, manual opening and closing, over temperature protection, over/under voltage, over power, energy measurement, overload, short circuit, ground fault protection, leakage protection etc.



Product Main Features of The Product

- 1.Maintenance safety lock: Effectively ensures the safety of personnel during maintenance;
- 2.Independent power supply: Prevents system crashes and operational failures;
- 3.Modular design: Offers customizable combinations for flexible applications;
- 4.High precision: Voltage and current detection accuracy Class 0.5; power accuracy Class 1.0.
- 5.Retains miniature circuit breaker (MCB) characteristics in all functions;
- 6.Flexible communication options: RS485 (default), with optional Wi-Fi, 4G, RJ45, Zigbee, etc.
- 7.Configurable protection actions: shutdown, alarm, or trip;
- 8.Multiple remote upgrade modes enable maintenance without inconvenience;
- 9.Power outage protection: Data storage and upload are maintained after main circuit power-off;
- 10.Neutral-fault protection: Triggers immediate power loss and alarms upon neutral line disconnection;
- 11.Automatic fault analysis: Identifies causes and events, with logs displayed for troubleshooting;
- 12.Timer switch: Controls equipment on/off schedules to reduce energy consumption;
- 13.Protection functions (load imbalance, phase loss, phase reversal, overtemperature) extend equipment and line lifespan while ensuring electrical safety;
- 14.The leakage action protection is sensitive, and different leakage protection values can be set according to the usage environment.

Product Model Explanation

GY CB 9 L - 100 H R / 1P 63A DN



Serial Number	Meaning	Serial Number	Meaning
①	Enterprise code	⑥	H: High short-circuit breaking, Icn=10kA Ics=7.5kA
②	Circuit breaker	⑦	Communication method: R-RS485;W-wifi;G-4G
③	Design serial number	⑧	Poles:1P 2P 3P 4P
④	Leakage circuit breaker	⑨	Rated current: Preferred 20A 32A 63A 100A
⑤	Shell level	⑩	DN: Zero line current detection(4P specific)

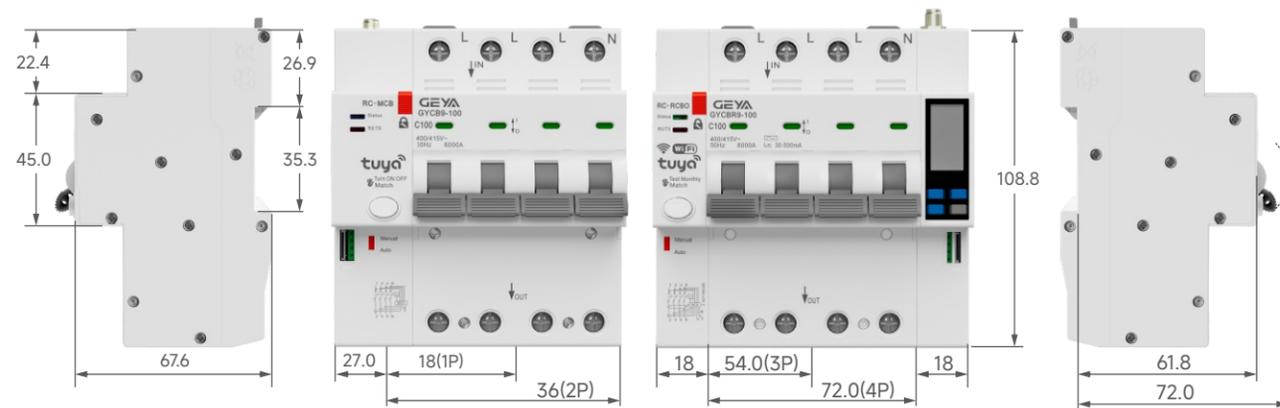
Major function

NO.	Protection function	Protection function	GYCB9L-100			Parameter settings	Set value	Factory Default
			2P	3P	4P			
1	Overvoltage protection	Close/Alarm/Trip	Trip	Trip	Trip	Overvoltage setting	250-300V	280V
						Overvoltage delay	0-10s	3s
2	Undervoltage protection	Close/Alarm/Trip	Alarm	Alarm	Alarm	Undervoltage setting	110-200V	185V
						Undervoltage delay	0-10s	3s
3	Lack of phase protection	Close/Alarm/Trip	-	Trip	Trip	Lack of phase setting	10-100V	35V
						Lack of phase delay	0-10s	3s
4	Overload protection	Close/Alarm/Trip	Alarm	Alarm	Alarm	Overload setting	0.5-1.0 In	In
						Overload delay	0-10s	3s
5	Underload protection	Close/Alarm/Trip	Close	Close	Close	Underload ratio	1-90%	5%
						Underload delay	0-10s	5s
6	Temperature protection	Close/Alarm/Trip	Alarm	Alarm	Alarm	Temperature setting	60-120°C	85°C
						Temperature delay	0-10s	3s
7	Over power protection	Close/Alarm/Trip	Close	Close	Close	Overpower value	50-50000W	5000W
						Overpower delay	0-10s	3s
8	Under power protection	Close/Alarm/Trip	Close	Close	Close	Undepower value	50-50000W	5000W
						Underpower delay	0-10s	3s
9	Power-off protection	Close/Alarm/Trip	Close	Close	Close	Power-off value	0-100V	35V
						Power-off delay	0-10s	3s
10	Voltage imbalance protection	Close/Alarm/Trip	-	Close	Close	Voltage imbalance degree	5-30%	15%
						Voltage imbalance delay	0-10s	3s
11	Current imbalance protection	Close/Alarm/Trip	-	Close	Close	Current imbalance degree	5-30%	15%
						Current imbalance delay	0-10s	3s
12	Warning function	Open/Close	Close	Close	Close	Warning ratio	80-100%	90%
13	N Disconnect protection	Open/Close	Open	Open	Open	Power-off delay	0-3s	1s
14	Arc protection	Close/Alarm/Trip	Alarm	-	-			
15	Wrong phase protection	Close/Alarm/Trip	Alarm	Alarm	Alarm	Wrong phase delay	0-10s	3s
16	Timing control	Open/Close	Close	Close	Close	Month/Week/Day /Hour/Minute		
17	Automatic closing	Open/Close	Close	Close	Close			
18	Remote control allowed	Open/Close	Close	Close	Close			
19	Power ON delay	Open/Close	Close	Close	Close	Delay time	3-20s	3s
20	Harmonic detection	Close/Alarm/Trip	Close	Close	Close	Harmonic quantity THD	10-50%	15%
21	Leakage protection	Close/Alarm/Trip	Trip	Trip	Trip	Leakage setting	10-500mA	30mA
						Not driving time	-/0.06/0.1/0.2	-
22	Leakage mutation protection	Close/Alarm/Trip	Trip	Trip	Trip	Leakage mutation	30-100mA	30mA
23	Leakage coincidence	Open/Close	Close	Close	Close	Number of times	0-9	3
24	Leakage self check	Open/Close	Close	Close	Close	Daily/Monthly	00:00-24:00	24:00

► **Main technical parameters**

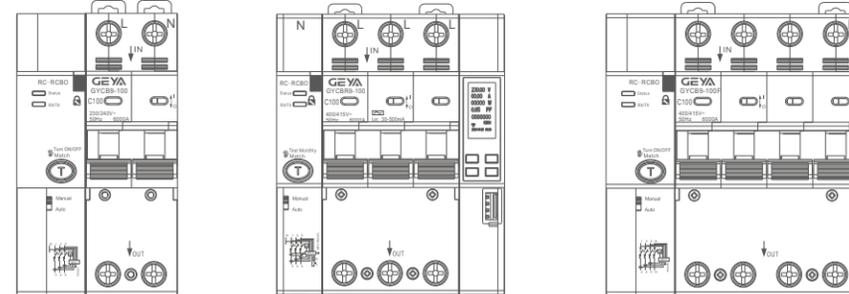
Project	GYCB9L-100 IoT Miniature Circuit Breaker
Compliant with standards	GB 16917 CQC 1149 / IEC61009 IEC 63024
Number of product poles	2P 3P 4P
Rated voltage	2P:230V 3P/4P:400V
Release type	B C D
Short circuit breaking capacity	GYCB9L-100:Icn=Ics=6KA; GYCB9L-100H:Icn=10KA Ics=7.5KA
Mechanical Life	>6000 times
Electrical life	>15000 times
Close/Open time	<3.0s / <1.0s
Leakage protection setting value	10/30/50/100/200/300/500mA (Can be set)
Leakage action time	40ms
Electricity metering accuracy	1.0
Using the working environment temperature	-25~70°C
protection grade	IP20
Installation method	35mm Standard guide rail
Wiring ability	35mm ²
Closing and opening method	Manual or remote opening and closing
Function parameter setting method	App PC PDA etc
Communication method	RS485、 TUYA wifi、 ESP wifi、 Zigbee、 Lora、 4G、 RJ45 etc

► **Product Outline Dimensional Drawing**

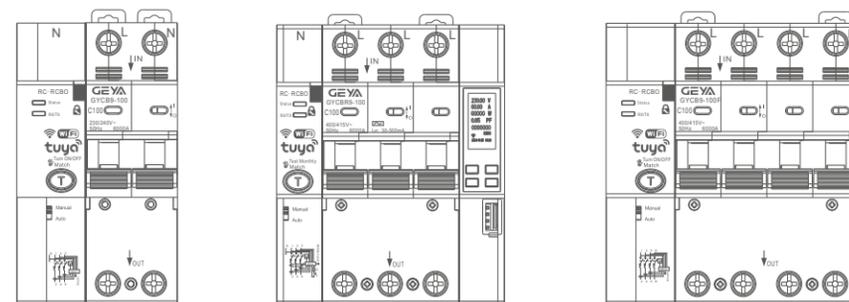


► **Product diagram by communication method**

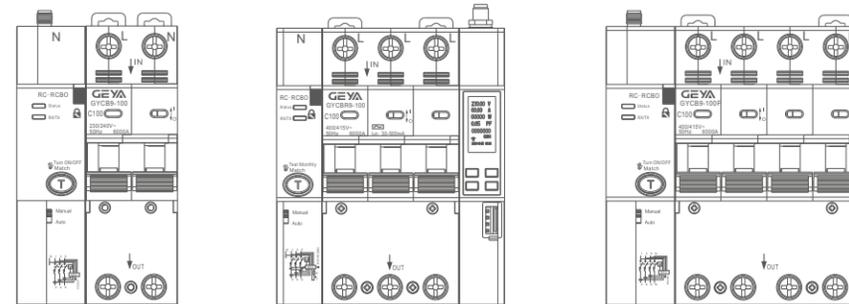
RS485 Communication Method



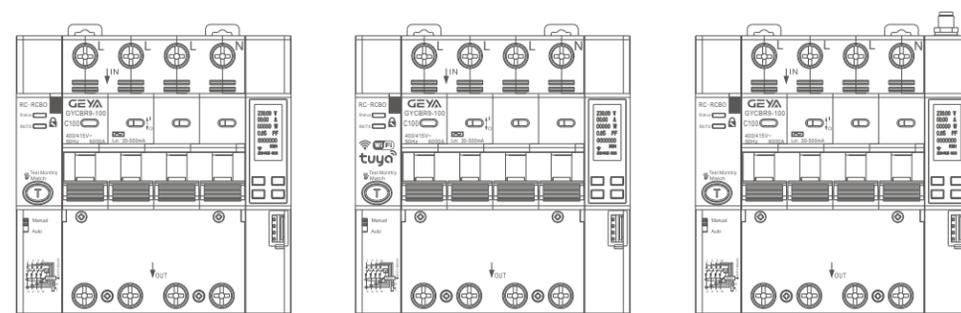
WIFI+RS485 Communication Method



4G+RS485 Communication Method

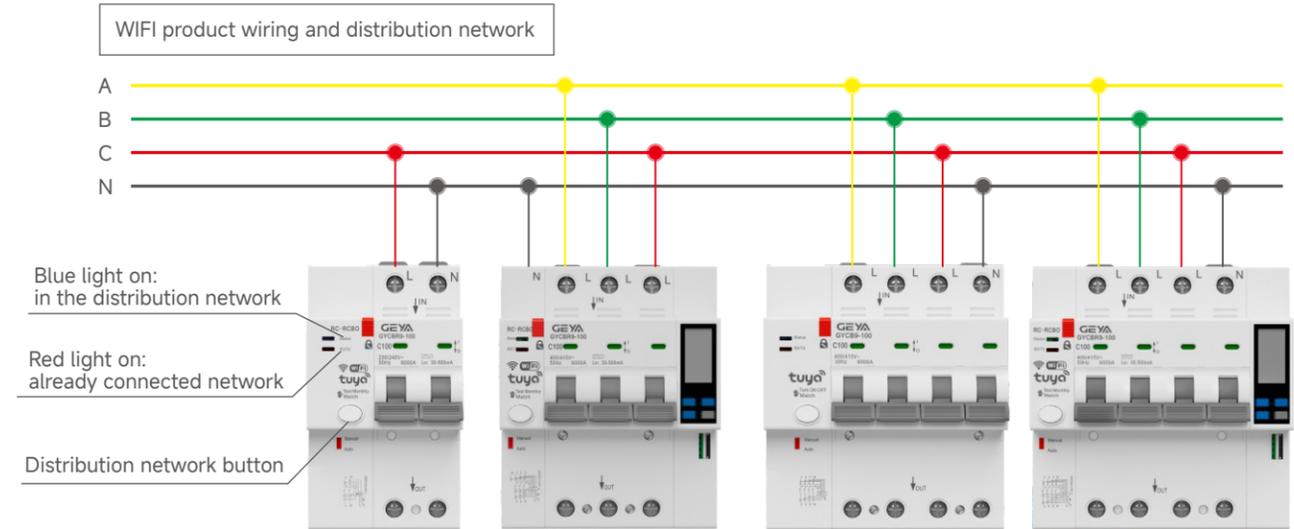
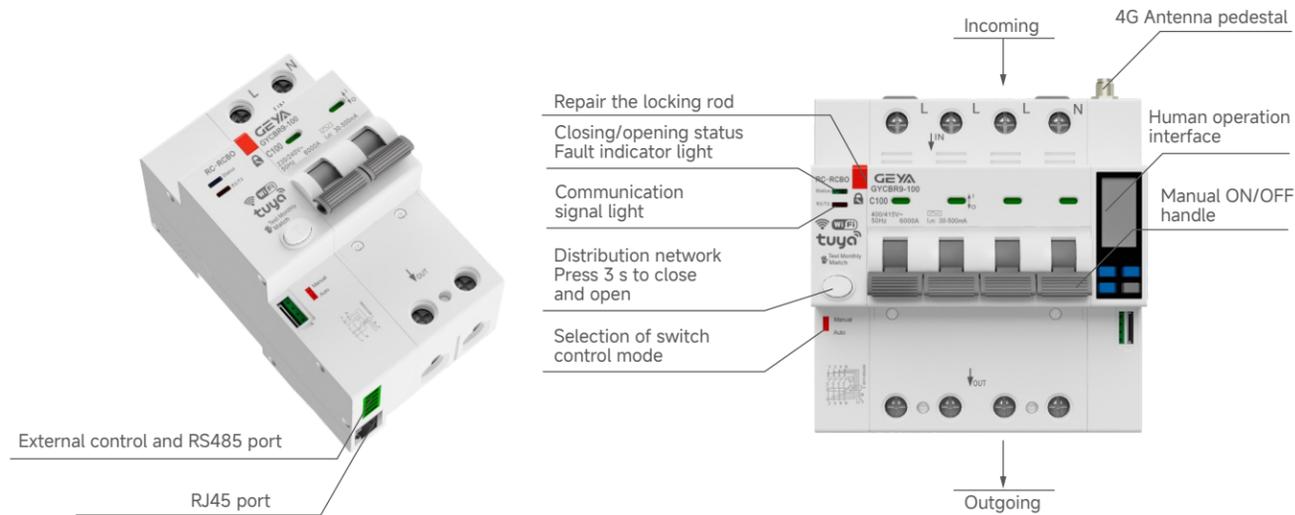


WIFI+RS485 Communication Method



Note: Other communication methods, such as Zigbee, RJ45, Loora, etc., can be customized according to the actual design.

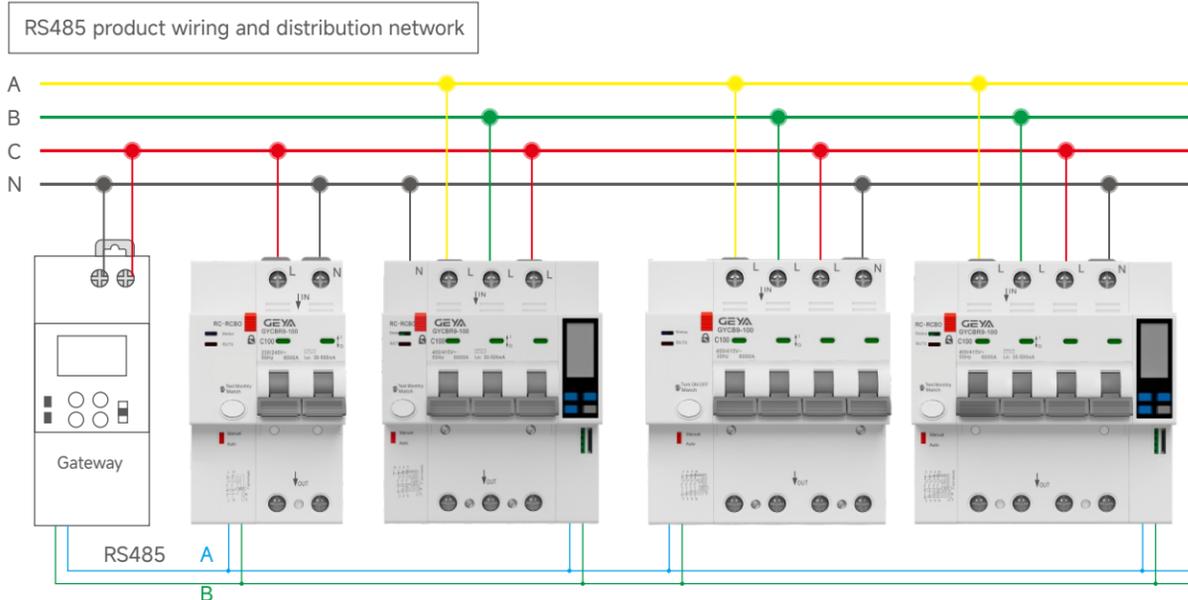
► **Product Description Diagram**



Attention: It is best not to connect more than 20 devices in the same router network, otherwise it is easy to disconnect!

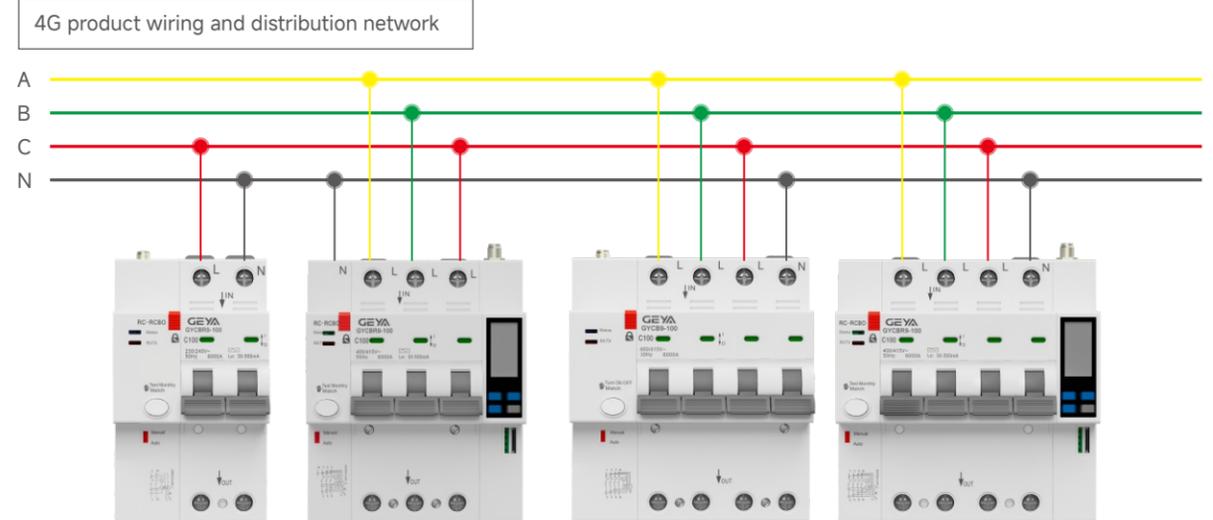
1. Press and hold the distribution network button for 3 seconds, wait for the blue light of the RX/TX indicator light to remain on, and enter the distribution network state;
2. After turning on Bluetooth on your phone, open the mobile app to search for devices; After searching for the current device configuration, click on connect;
3. After successful connection, the red light of the RX/TX indicator on the device remains on, indicating successful distribution of power to the device;
4. Enter the APP menu to operate the device or view device parameters;

► **Product installation wiring and distribution network instructions**



Note: The gateway can pair up to 24 sub devices!

1. Enter the gateway distribution network mode (host mode), the RX/TX indicator light of the sub device is always blue, and enter the distribution network state;
2. Press the sub device distribution button to proceed with the distribution network; The current sub device is successfully paired, and the red RX/TX indicator light of the sub device is constantly on;
3. Install sub devices in sequence;
4. After all sub devices are paired, press the "Menu" button on the gateway to confirm and exit the distribution network mode. The distribution network is complete;
5. Scan the code on the app to add a device;



1. Open the mobile app and scan the QR code on the device to add the device;
2. After successful connection, the red light of the RX/TX indicator on the device remains on, indicating successful distribution of power to the device;
3. Enter the APP menu to operate the device or view device parameters;

For detailed information on APP and PC operation, please refer to the user manual or operation guide!