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GEYA
ZHEJIANG GEYA ELECTRICAL CO.LTD.

ADD:Wenzhou Bridge Industrial Zone,Beibaixiang Town,
Yueqing City, Zhejiang Province, China 325603
Tel:0086-577-62926966 Tel:0086-13567770207
E-mail:sale@cngeya.com Web:www.geya.net



LOW VOLTAGE ELECTRICAL COMPREHENSIVE CATALOG

Everything for electrical safety



ZHEJIANG GEYA ELECTRICAL CO.,LTD COMPANY PROFILE

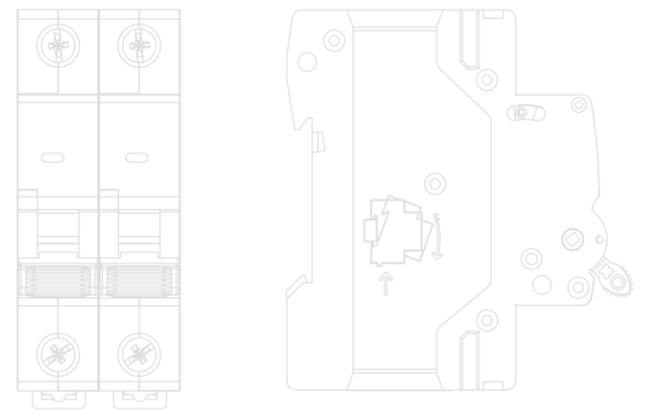
Zhejiang Geya Electrical Co., Ltd. (hereinafter referred to as: Geya Electrical GEYA). GEYA Electrical was established in February 2007 and is located in Wenzhou City, China. It is a scientific and technological private enterprise integrating R&D, production, sales and service, focusing on the independent research and development of low-voltage electrical appliances and automation control products. After years of operation, the company's annual turnover has exceeded CNY 100 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, EN, 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!





GYM8 Miniature Circuit Breaker

Overload, short circuit, isolation; Circuit breaker is suitable for industrial, commercial, highrise and civil residential and other occasions.



GYM10 Miniature Circuit Breaker

Overload, short circuit, isolation; Circuit breaker is suitable for industrial, commercial, highrise and civil residential and other occasions.

▶ Product Feature

- ✔ Standard: IEC/EN60898-1, GB10963.1
- ✔ Double Sink Flow Bar Wiring Function
- ✔ With Transparent Identification Function
- ✔ Contact Position Indication Function
- ✔ Maximum Wiring Capacity 25mm²

▶ Technical Specification

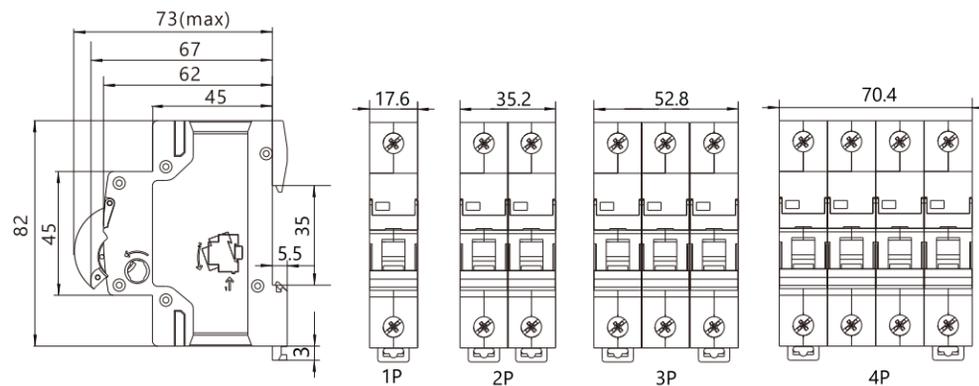
- ✔ Rated Current (In) : 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
- ✔ Rated Voltage (Ue) : 1P:240/415V~;2P-4P:415V
- ✔ Working Frequency: 50/60Hz
- ✔ Tripping Curves: B, C, D
- ✔ Breaking Capacity: 4.5kA
- ✔ Poles: 1P, 2P, 3P, 4P
- ✔ Mechanical Life: 20000 time
- ✔ Electrical Life: 4000 time

▶ 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

▶ Outline Overall And Installing Dimensions



▶ Product Feature

- ✔ Standard: IEC/EN60898-1, GB10963.1
- ✔ Double busbar, Single Busbar Wiring Function Is Optional
- ✔ With Transparent Identification Function
- ✔ Contact Position Indication Function
- ✔ Maximum Wiring Capacity 25mm²

▶ Technical Specification

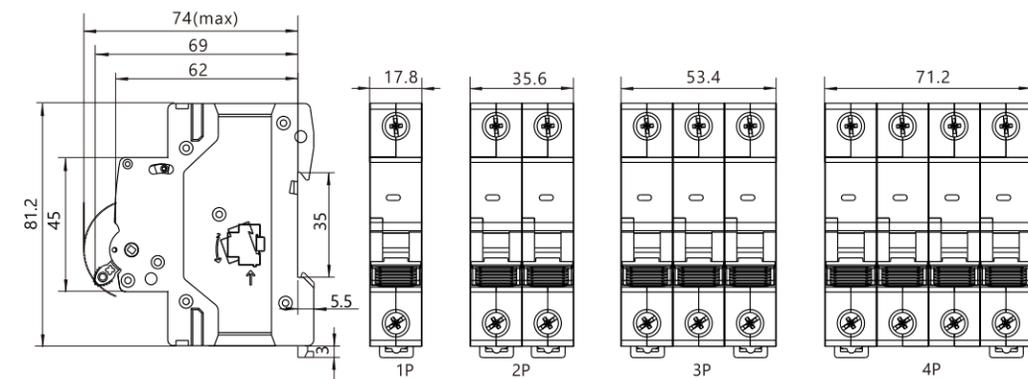
- ✔ Rated Current (In) : 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A
- ✔ Rated Voltage (Ue) : 1P:230/400V~;2P-4P:400V or 1P:240/415V~;2P:415V
- ✔ Working Frequency: 50/60Hz
- ✔ Tripping Curves: B, C, D
- ✔ Breaking Capacity: 6kA
- ✔ Poles: 1P, 2P, 3P, 4P
- ✔ Mechanical Life: 10000 time
- ✔ Electrical Life: 6000 time

▶ 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

▶ Outline Overall And Installing Dimensions



GYM8
MCB

GYM10
MCB

GYM10 DC
MCB

GYM9H
MCB

GYM9H-125
MCB

GYM9-DC
MCB

GYM9H-Z
MCB

GYM9N
MCB

Curve



GYM10 DC Miniature Circuit Breaker

Overload, short circuit, isolation;
Suitable for communication, photovoltaic, etcDC system application scenarios.



GYM9H Miniature Circuit Breaker

Overload, short circuit, isolation; Circuit breaker is suitable for industrial, commercial, highrise and civil residential and other occasions.

Product Feature

- ✔ Contact Position Indication Function
- ✔ Maximum Wiring Capacity 25mm²
- ✔ Standard: IEC/EN60947-2, GB/T 14048.2

Technical Specification

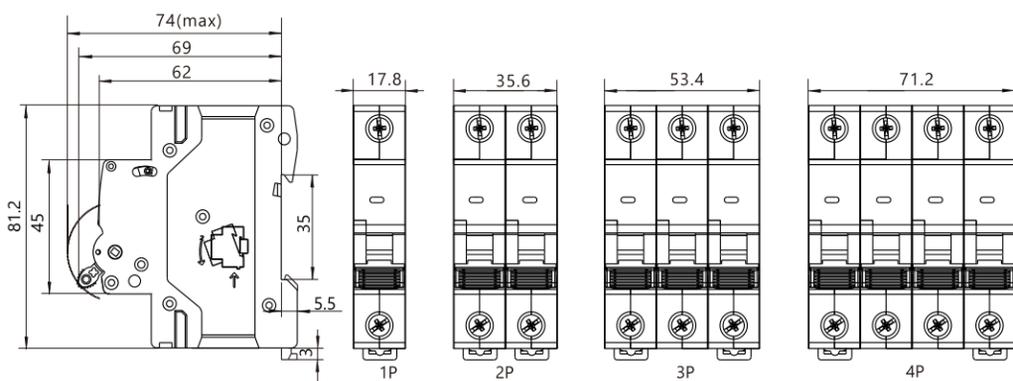
- ✔ Rated Current(I_n): 6, 10, 16, 20, 25, 32, 40, 50, 63A
- ✔ Rated Voltage(U_e): 1P:250VDC;2P:500VDC;3P:750VDC; 4P:1000VDC
- ✔ Tripping Curves: I_t=8.5I_n(type C), I_t=12I_n (typeD)
- ✔ Breaking Capacity: 4.5kA
- ✔ Poles: 1P, 2P, 3P, 4P
- ✔ mechanical Life: 20000次
- ✔ Rated insulation voltage: 500V
- ✔ Rated impulse withstand 4kV voltage (U_{imp}):

Temperature Compensation

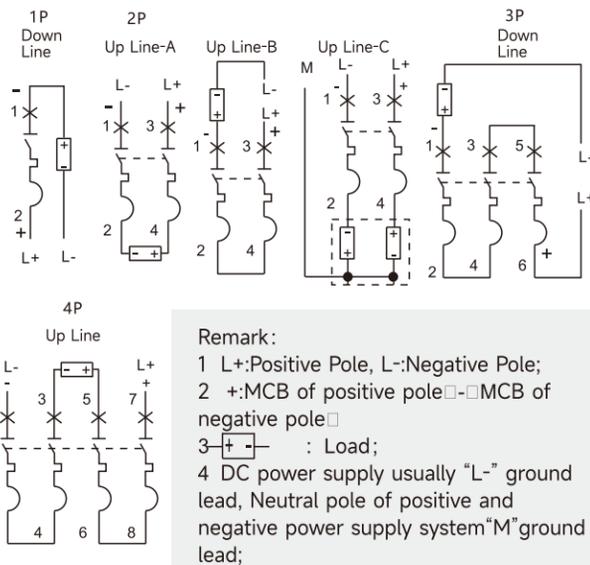
When the ambient temperature is not the baseline temperature of 30°C, the reference Correction coefficient is as follows:

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

Outline Overall And Installing Dimensions



Wiring diagram



Product Feature

- ✔ Standard: IEC/EN60898-1, GB10963.1
- ✔ Double Sink Flow Bar Wiring Function
- ✔ With Transparent Identification Function
- ✔ Contact Position Indication Function
- ✔ Maximum Wiring Capacity 25mm²

Technical Specification

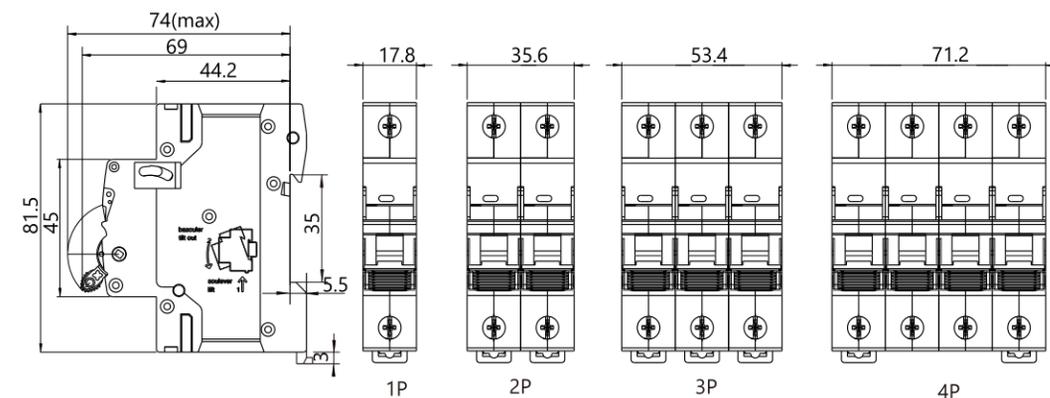
- ✔ Rated Current(I_n): 1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63
- ✔ Rated Voltage(U_e): 1P:240/415V~;2P-4P:415V
- ✔ Working Frequency: 50/60Hz
- ✔ Tripping Curves: B, C, D
- ✔ Breaking Capacity: 10kA
- ✔ Poles: 1P, 2P, 3P, 4P
- ✔ Mechanical Life: 20000 time
- ✔ Electrical Life: 6000 time

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

Outline Overall And Installing Dimensions



- GYM8 MCB
- GYM10 MCB
- GYM10 DC MCB
- GYM9H MCB
- GYM9H-125 MCB
- GYM9-DC MCB
- GYM9H-Z MCB
- GYM9N MCB
- Curve



GYM9H-125 Miniature Circuit Breaker

Overload, short circuit, isolation; Circuit breaker is suitable for industrial, commercial, highrise and civil residential and other occasions.

▶ Technical Specification

- Standard: IEC/EN60898-1,GB10963.1
- Rated Current(In): 63、80、100、125
- Rated Voltage(Ue): 1P:240/415V~;2P-4P:415V
- Working Frequency: 50/60Hz
- Poles: 1P、2P、3P、4P
- Rated ultimate short circuit breaking capacity(Icu): 10000A,15000A(63A)
- Rated making short circuit breaking capacity(Ics): 7500A
- Rated insulation voltage (Ui)(Ui): 500V
- Rated impulse withstand voltage (Uimp): 4KV
- Mechanical Life: 10000次

▶ Performance Characteristic

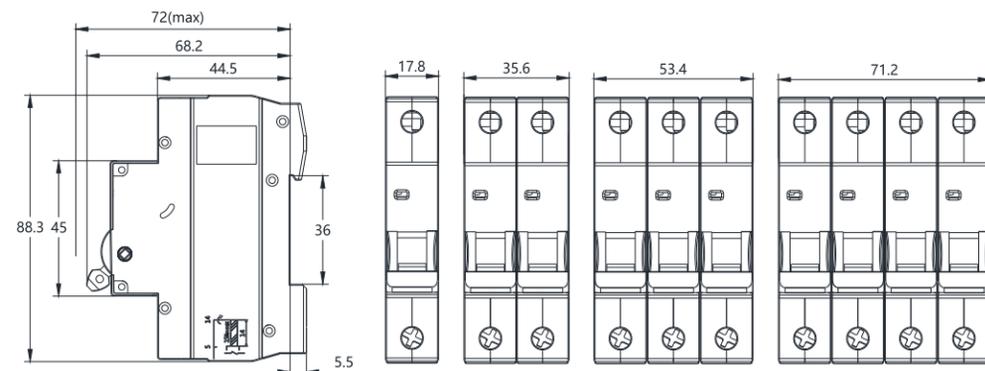
Tripping Curves	Current (A)	Initial Condition	Time(30°C)	Result
C、D	1.13In	Cold state	$t \geq 1h (In \leq 63), t \geq 2h (63 < In \leq 125)$	No tripping
	1.45In	Thermal state	$t \geq 1h (In \leq 63), t \geq 2h (63 < In \leq 125)$	Tripping
	2.55In	Cold state	$1s < t < 120s$	Tripping

▶ 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

▶ Outline Overall And Installing Dimensions



GYM9H-DC Miniature Circuit Breaker

Overload, short circuit, isolation; Suitable for communication, photovoltaic and other DC system applications.

▶ Product Feature

- Standard: IEC/EN60947-2、GB14048.2
- With Transparent Identification Function
- Contact Position Indication Function
- Maximum Wiring Capacity 25mm²

▶ Technical Specification

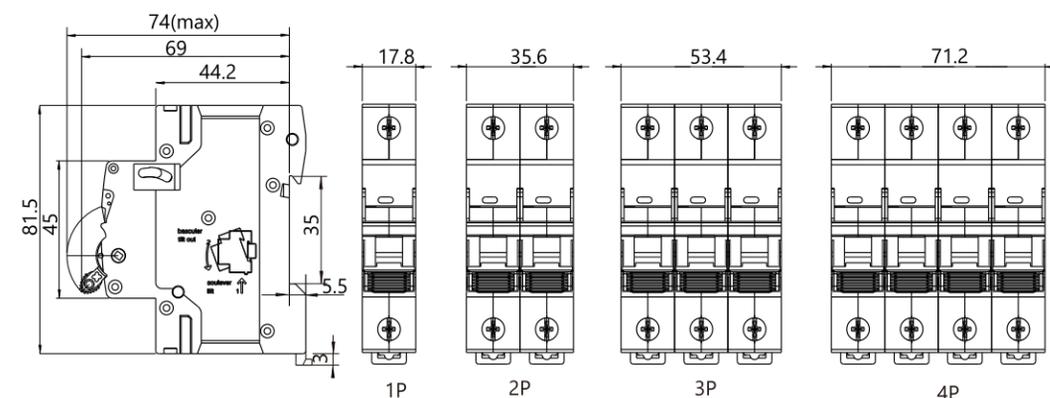
- Rated Current(In): 1-63A
- Rated Voltage(Ue): 1P:250VDC; 2P:500VDC; 3P:750VDC; 4P:1000VDC
- Tripping Curves: B、C
- Breaking Capacity: 6kA
- Poles: 1P、2P、3P、4P
- Mechanical Life: 20000 time
- Electrical Life: 1500 time

▶ Temperature Compensation

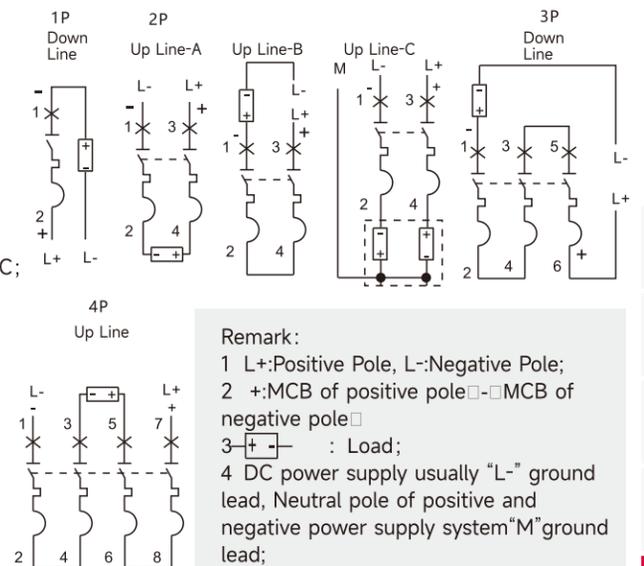
When the ambient temperature is not the baseline temperature of 30°C, the reference Correction coefficient is as follows:

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

▶ Outline Overall And Installing Dimensions



▶ Wiring diagram



GYM8
MCB

GYM10
MCB

GYM10 DC
MCB

GYM9H
MCB

GYM9H-125
MCB

GYM9-DC
MCB

GYM9H-Z
MCB

GYM9N
MCB

Curve



GYM9H-Z AC/DC Miniature Circuit Breaker

Overload, short circuit, isolation; Suitable for DC screen, energy storage equipment and other DC non-polar applications.

▶ Product Feature

- ✔ Standard: IEC/EN60947-2、IEC/EN60947-2 Annex P、GB14048.2、GB14048.2 Annex P
- ✔ Double Sink Flow Bar Wiring Function
- ✔ With Transparent Identification Function
- ✔ Contact Position Indication Function
- ✔ Maximum Wiring Capacity 25mm²

▶ Technical Specification

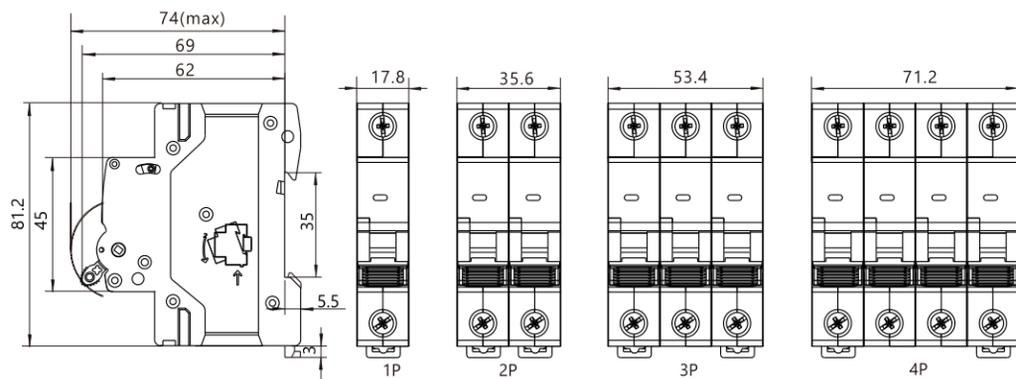
- ✔ Rated Current (In): 1、2、3、4、6、10、16、20、25、32、40、50、63A
- ✔ Rated Voltage (Ue): 1P:150VDC 230/400VAC ;2P:300VDC 400VAC;3P:450VDC 400VAC; 4P:600VDC 400VAC;
- ✔ Tripping Curves: B、C、
- ✔ Breaking Capacity: 6kA
- ✔ Poles: 1P、2P、3P、4P
- ✔ Mechanical Life: 20000 time
- ✔ Electrical Life: 1500 time

▶ 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

▶ Outline Overall And Installing Dimensions



GYM9N Miniature Circuit Breaker

Overload, short circuit, Suitable for commercial, high-rise and civil residential, or installation size limited and other occasions.

▶ Product Feature

- ✔ Standard: IEC/EN60898-1、GB10963.1
- ✔ With Transparent Identification Function
- ✔ Contact Position Indication Function
- ✔ Maximum Wiring Capacity 16mm²

▶ Technical Specification

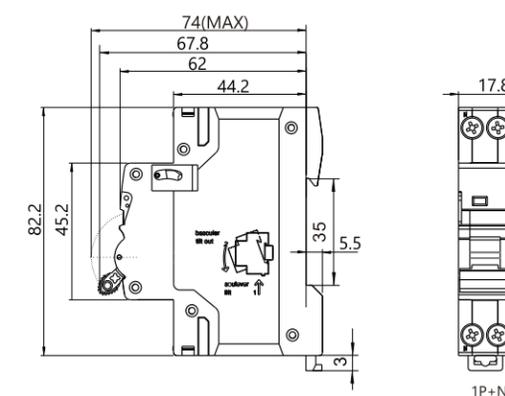
- ✔ Rated Current (In): 6、10、16、20、25、32、40A
- ✔ Rated Voltage (Ue): 240V~
- ✔ Working Frequency: 50/60Hz
- ✔ Tripping Curves: B、C
- ✔ Breaking Capacity: 6kA
- ✔ Poles: 1P+N
- ✔ Mechanical Life: 10000次
- ✔ Electrical Life: 2500次

▶ 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

▶ Outline Overall And Installing Dimensions

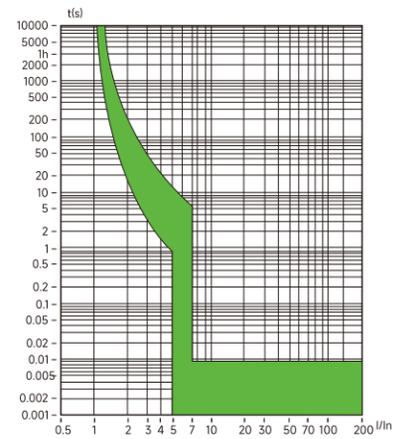


- GYM8 MCB
- GYM10 MCB
- GYM10 DC MCB
- GYM9H MCB
- GYM9H-125 MCB
- GYM9-DC MCB
- GYM9H-Z MCB
- GYM9N MCB
- Curve

▶ GYM10DC GYM9DC GYM9HDC

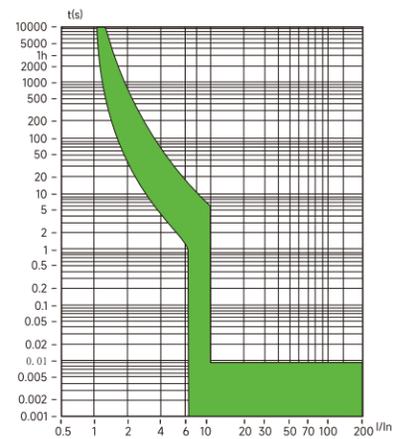
B型: 6In±20%

Int=1.05In;t≤1h
 It=1.3In;t < 1h
 2.55In;t=1-60s(In≤32A)
 1-120s(In≤32A)



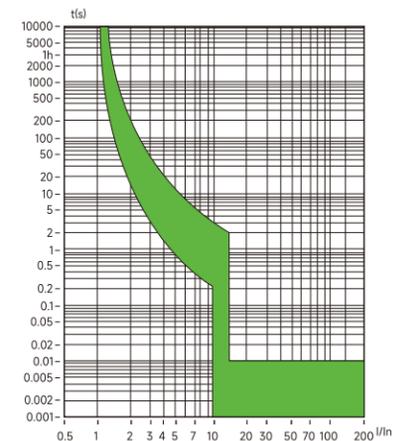
C型: 8.5In±20%

Int=1.05In;t≤1h
 It=1.3In;t < 1h
 2.55In;t=1-60s(In≤32A)
 1-120s(In≤32A)



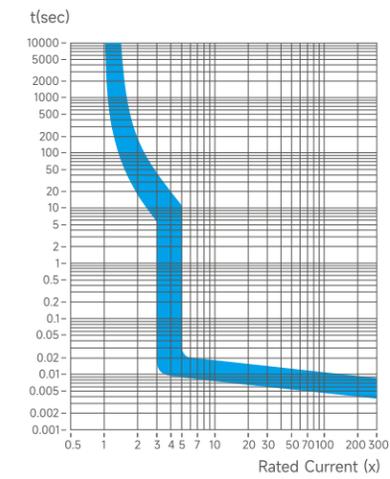
D型: 12In±20%

Int=1.05In;t≤1h
 It=1.3In;t < 1h
 2.55In;t=1-60s(In≤32A)
 1-120s(In≤32A)

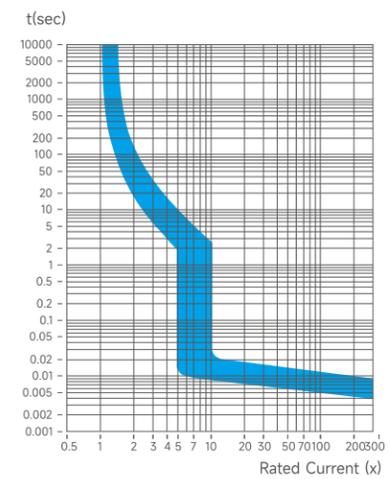


▶ GYM10 GYM9 GYM9N GYM9H GYM8 GYR9N

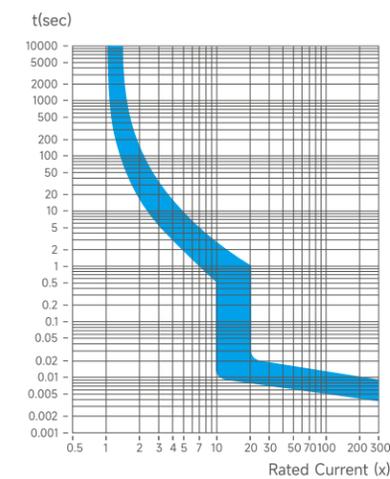
■ Curve B



■ Curve C



■ Curve D



- GYM8 MCB
- GYM10 MCB
- GYM10 DC MCB
- GYM9H MCB
- GYM9H-125 MCB
- GYM9-DC MCB
- GYM9H-Z MCB
- GYM9N MCB
- Curve



GYL8 RCCB

Overload, short circuit, leakage protection; Suitable for industrial, commercial, high-rise and civil residential and other occasions.

Product Feature

- Standard: IEC/EN60898-1、GB10963.1
- Double sink flow bar wiring function
- Maximum Wiring Capacity 25mm²

Product Model And Implication

GYL8	M	2P	63A	30mA	AC	□	□
Product model	Protection type	Pole	Rated current(A)	Rated residual action current	Residual current action type	Performance characteristic	Special applications
RCCB	M (electromagnetic type)	2P	16	30	AC Type: Sine AC Distribution System(default)	None Identifier: instant(t<100mS) S: Delay type (t:130-500mS)	None Identifier: None SI:Transient interference suppression type (actuation time: 40-150mS)
		4P	25	100			
	E (electromagnetic type)	2P	40	300	A Type: Sine AC or pulsating DC ground fault system		
		4P	63	300			

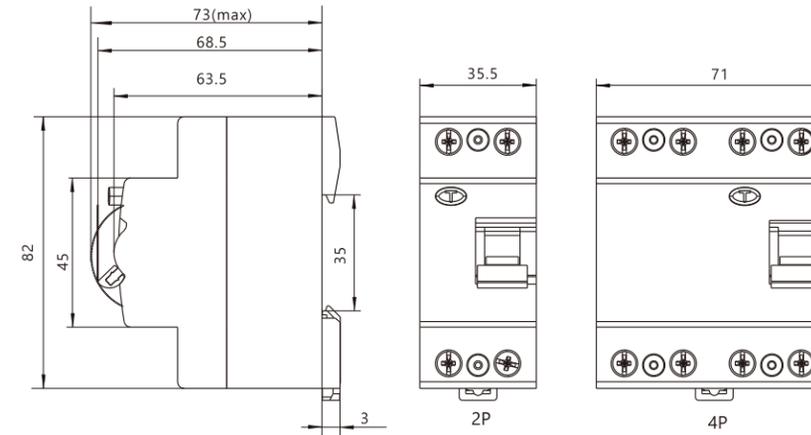
Technical Specification

Residual current action type			AC、A
Rated Current	In	A	16、25、40、63
Poles			2P、4P
Rated Operational Voltage	Un	V	240/415V
Nominal Insulation Voltage	Ui	V	500
Working Frequency		Hz	50/60
Rated residual action current	IΔn	mA	30、100、300
Rated impact tolerance voltage	Uimp	V	4000
1 min dielectric voltage		V	2000
Rated limit short circuit current	I _{nc}	kA	4.5、6
Rated limit Remaining short circuit current	I _{Δc}	kA	4.5、6
Rated on and off capacity	I _m	A	500A(25A,40A),or 10In(≥63A)
Rated residual switching and breaking capacity	I _{Δm}	A	500A(25A,40A),or 10In(≥63A)

Residual leakage current breaking time

Rated current In(A)	Rated residual action current IΔn(mA)	Residual current breaking time (s)		
		IΔn	2IΔn	5IΔn
16、25、40、63	30、100、300	0.1	0.08	0.04

Outline Overall And Installing Dimensions



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYR10N
RCBO

GXD9-W
WIFI MCB

GYRC
WIFI CB

GRD9L
Recloser



GYL10 RCCB

Leakage protection; Suitable for industrial, commercial, high-rise and civil residential and other occasions.

Product Feature

- Standard: IEC/EN61008-1、GB16916.1
- Double sink flow bar wiring function
- With Transparent Identification Function
- Maximum Wiring Capacity 25mm²

Product Model And Implication

GYL10	M	2P	63A	30mA	AC	□	□
Product model	Protection type	Pole	Rated current(A)	Rated residual action current	Residual current action type	Performance characteristic	Special applications
RCCB	M (electromagnetic type)	2P	16	30	AC Type: Sine AC Distribution System(default)	None Identifier: instant(t<100mS) S: Delay type (t:130-500mS)	None Identifier: None SI:Transient interference suppression type (actuation time: 40-150mS)
		4P	25	100			
	E (electromagnetic type)	2P	40	300	A Type: Sine AC or pulsating DC ground fault system		
		4P	63	300			

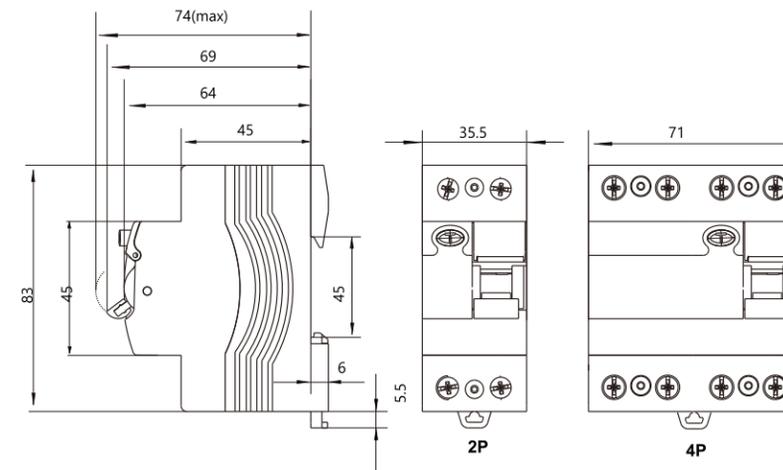
Technical Specification

Residual current action type			AC、A
Rated Current	In	A	16、25、40、63
Poles			2P、4P
Rated Operational Voltage	Un	V	240/415V
Nominal Insulation Voltage	Ui	V	500
Working Frequency		Hz	50/60
Rated residual action current	IΔn	mA	30、100、300
Rated impact tolerance voltage	Uimp	V	4000
1 min dielectric voltage		V	2000
Rated limit short circuit current	I _{nc}	kA	4.5、6
Rated limit Remaining short circuit current	IΔc	kA	4.5、6
Rated on and off capacity	I _m	A	500A(25A,40A),or 10In(≥63A)
Rated residual switching and breaking capacity	IΔm	A	500A(25A,40A),or 10In(≥63A)

Residual leakage current breaking time

Rated current In(A)	Rated residual action current IΔn(mA)	Residual current breaking time (s)		
		IΔn	2IΔn	5IΔn
16、25、40、63	30、100、300	0.1	0.08	0.04

Outline Overall And Installing Dimensions



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYR10N
RCBO

GYD9-W
WIFI MCB

GYRC
WIFI CB

GRD9L
Recloser



GYL9 RCCB

Leakage protection; Suitable for industrial, commercial, high-rise and civil residential and other occasions.

Product Feature

- Standard: IEC/EN61008-1、GB16916.1
- Double sink flow bar wiring function
- With leakage fault indication
- Maximum Wiring Capacity 35mm²

Product Model And Implication

GYL9	M	2P	63A	30mA	AC	□	□
Product model	Protection type	Pole	Rated current(A)	Rated residual action current	Residual current action type	Performance characteristic	Special applications
RCCB	M (electromagnetic type)	2P	16	30	AC Type: Sine AC Distribution System(default) A Type: Sine AC or pulsating DC ground fault system	None Identifier: instant(t<100mS) S: Delay type (t:130-500mS)	None Identifier: None SI:Transient interference suppression type (actuation time: 40-150mS)
		4P	25				
	E (electromagnetic type)	2P	40	100			
		4P	63				

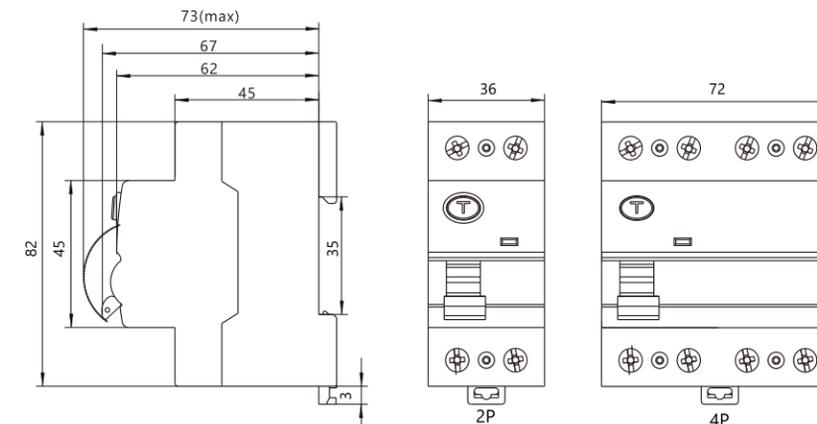
Technical Specification

Residual current action type			AC、A
Rated Current	I_n	A	25、40、63、80、100
Poles			2P、4P
Rated Operational Voltage	U_n	V	240/415V
Nominal Insulation Voltage	U_i	V	500
Working Frequency		Hz	50/60
Rated residual action current	$I_{\Delta n}$	mA	30、100、300
Rated impact tolerance voltage	U_{imp}	V	4000
1 min dielectric voltage		V	2000
Rated limit short circuit current	I_{nc}	kA	6、10
Rated limit Remaining short circuit current	$I_{\Delta c}$	kA	6、10
Rated on and off capacity	I_m	A	500A(25A,40A),or 10In(\geq 63A)
Rated residual switching and breaking capacity	$I_{\Delta m}$	A	500A(25A,40A),or 10In(\geq 63A)

Residual leakage current breaking time

Rated current I_n (A)	Rated residual action current $I_{\Delta n}$ (mA)	Residual current breaking time (s)		
		$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$
16、25、40、63	30、100、300	0.1	0.08	0.04

Outline Overall And Installing Dimensions



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYR10N
RCBO

GYD9-W
WiFi MCB

GYRC
WiFi CB

GRD9L
Recloser



GYL9-A+EV RCCB

Leakage protection; Suitable for industrial, commercial, high-rise and civil residential and other occasions.

Product Feature

The product is used to detect the residual dc current greater than 6mA in the ac system. According to the relevant requirements of the IEC61851 standard, the product should be used with the RCD of type A residual current protection characteristics to protect the ground fault that may occur in the ac charging facilities of charging mode 3.

- ✔ Standard: IEC62955、IEC61008-1
- ✔ Double sink flow bar wiring function
- ✔ With leakage fault indication
- ✔ Maximum Wiring Capacity 35mm²

Detect waveform and protection range

Detection of waveform	Waveform	Different Waveform Action Range
Sine AC		0.5~IΔn
Pulsating dc		0.5~1.4 IΔn
Two phase fullwave rectification		3~6mA
Three-phase full-wave rectifier		3~6mA
Smooth direct current		3~6mA

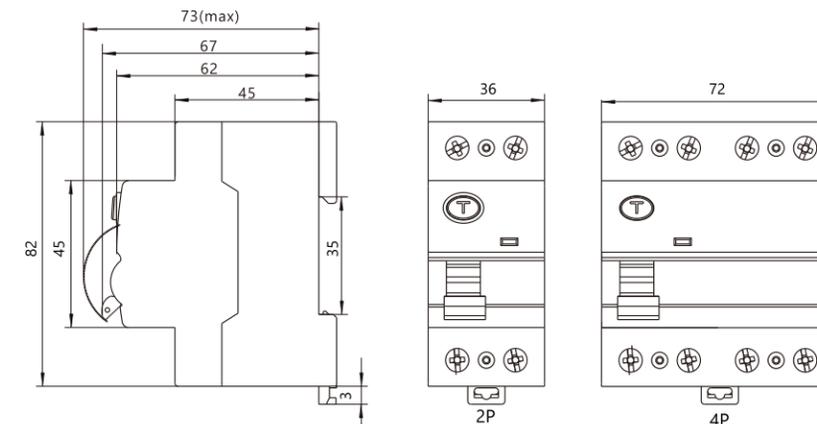
Technical Specification

Residual current action type			A+EV
Rated Current	In	A	25、40、63、80、100
Poles			2P、4P
Rated Operational Voltage	Un	V	240/415V
Nominal Insulation Voltage	Ui	V	500
Working Frequency		Hz	50/60
Rated residual non-action current	IΔn0	mA	0.5 IΔn
Rated residual action current	IΔn	mA	30
Direct current flow as sensitivity	IΔndc	mA	6mA
Rated impact tolerance voltage	Uimp	V	4000
1 min dielectric voltage		V	2000
Rated limit short circuit current	Isc	A	6、10
Rated limit Remaining short circuit current	IΔc	A	6、10
Rated on and off capacity	Im	A	500A(25A,40A),or 10In(≥63A)
Rated residual switching and breaking capacity	IΔm	A	500A(25A,40A),or 10In(≥63A)

Residual leakage current breaking time

Rated current In(A)	Rated residual action current IΔn(mA)	Residual current breaking time (s)		
		IΔn	2IΔn	5IΔn
25、40、63、80、100	30	0.1	0.08	0.04

Outline Overall And Installing Dimensions



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

**GYL9-A+EV
RCCB**

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYR10N
RCBO

GYD9-W
WiFi MCB

GYRC
WiFi CB

GRD9L
Recloser



GYL9-B RCCB

Leakage protection; Suitable for industrial, commercial, high-rise and civil residential and other occasions.

Product Feature

The product ensures reliable action for sinusoidal ac residual current, pulsed dc residual current, ac residual sinusoidal current (up to 1000Hz), pulsed dc residual current, and smooth dc residual current (whether applied suddenly or slowly increasing).

- ✓ Standard: IEC62423, IEC61008.1, GB22794, GB16916.1
- ✓ Double sink flow bar wiring function
- ✓ With leakage fault indication
- ✓ Maximum Wiring Capacity 35mm²

Detect waveform and protection range

Detection of waveform	Waveform	Different waveform action range
Sine AC		0.5~1Δn
Pulsating DC		0.35~1.4 IΔn
High frequency (up to 1kHz)		150Hz, 0.5~2.4 IΔn
		400Hz, 0.5~6 IΔn
		1000Hz, 1~14 IΔn
Two phase full wave rectification		0.5~2 IΔn
Three phase full wave recifier		0.5~2 IΔn
Smooth direct current		0.5~2 IΔn

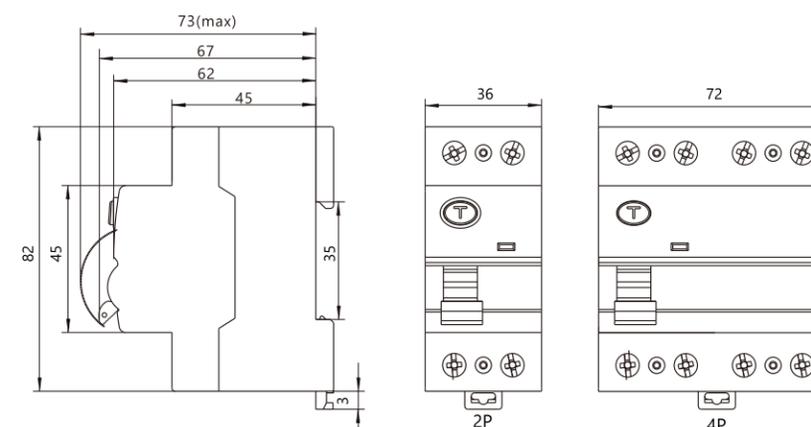
Technical Specification

Residual current action type			B
Rated Current	In	A	25、40、63、80、100
Poles			2P、4P
Rated Operational Voltage	Un	V	240/415V
Nominal Insulation Voltage	Ui	V	500
Working Frequency		Hz	50/60
Rated residual non-action current	IΔn0	mA	0.5 IΔn
Rated residual action current	IΔn	mA	30、100、300
Direct current flow as sensitivity	IΔndc	mA	0.5~2 IΔn
Rated impact tolerance voltage	Uimp	V	4000
1 min dielectric voltage		V	2000
Rated limit short circuit current	I _{nc}	A	6、10
Rated limit Remaining short circuit current	I _{Δc}	A	6、10
Rated on and off capacity	I _m	A	500A(25A,40A),or 10In(≥63A)
Rated residual switching and breaking capacity	I _{Δm}	A	500A(25A,40A),or 10In(≥63A)

Residual leakage current breaking time

Rated current In(A)	Rated residual action current IΔn(mA)	Residual current breaking time (s)		
		IΔn	2IΔn	5IΔn
25、40、63、80、100	30、100、300	0.1	0.08	0.04

Outline Overall And Installing Dimensions



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYR10N
RCBO

GYD9-W
WIFI MCB

GYRC
WIFI CB

GRD9L
Recloser



GYR9N RCBO

Overload, short circuit, leakage protection; Suitable for industrial, commercial, high-rise and civil residential and other occasions.

Product Feature

- ✔ Standard: IEC61009-1, GB16917.1
- ✔ Double sink flow bar wiring function
- ✔ Contact Position Indication Function
- ✔ With leakage fault indication
- ✔ Maximum Wiring Capacity 35mm²

Product Model And Implication

GYR9	N	M	2P	C	16	30mA	AC
Product model		Protection type	Pole	Electromagnetic trip curve	Rated current(A)	Rated residual action current	Residual current action type
RCBO	Integral type	M (electromagnetic type) E (electromagnetic type)	2P 4P	B:(3-5)In C:(5-10)In	6、10 16、20 25、32 40	30mA 100mA 300mA	AC Type: Sine AC Distribution System(default) A Type: Sine AC or pulsating DC ground fault system

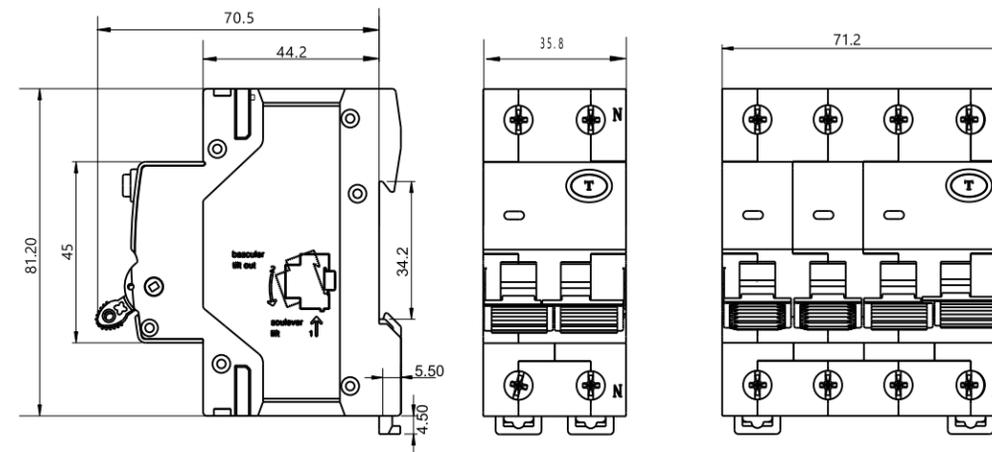
Technical Specification

Residual current action type			AC、A
Rated Current	In	A	6、10、16、20、25、32、40
Poles			1P+N 3P+N(The N pole is on the right)
Rated Operational Voltage	Un	V	240/415V
Nominal Insulation Voltage	Ui	V	500
Working Frequency		Hz	50/60
Rated residual no-action current	I Δ n0	mA	0.5I Δ n
Rated residual action current	I Δ n	mA	30、100、300
Electromagnetic trip curve			B C
Rated impact tolerance voltage	Uimp	V	4000
1 min dielectric voltage		V	2000
Rated short circuit breaking capacity	Icn	A	6000
Rated residual switching and breaking capacity	I Δ m	A	500A(25A,40A),or 10In(\geq 63A)

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、10A 20A 50A、100A、200A
6、10、16、20、25、32、40	30、100、300	0.1	0.08	0.04	0.04

Outline Overall And Installing Dimensions



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

**GYR9N
RCBO**

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYR10N
RCBO

GXD9-W
WIFI MCB

GYRC
WIFI CB

GRD9L
Recloser



GYR9NE-ARC AFDD

GYR9NE-ARC ARC series arc fault circuit breaker includes arc fault protection, overvoltage protection (275±5%), overload, short circuit, leakage protection functions;

Product Feature

- Standard: IEC61009-1, GB16917.1
- The product has leakage fault indication

Product Feature

- Rated Current(A): 6、10、16、20、25、32、40
- Rated Operational Voltage (Ue): 230V
- Nominal Insulation Voltage (Ui): 400V
- Rated impact tolerance voltage (Uimp): 4kV
- Pole: 1P+N
- Tripping Curves: Type C
- Breaking Capacity: 6kA
- Rated residual action current (I Δ n): 30、100、300
- The operating characteristic of residual current with DC component: Type AC、Type A

Technical Specification

GYR9NE-ARC ARC series arc fault circuit breaker includes arc fault protection, overvoltage protection (275±5%), overload, short circuit, leakage protection functions;

GYR9NE-ARC breaking limit with rated voltage of 230V

Test arc current (effective value)	3A	6A	13A	20A	40A	63A
Breaking time	1s	0.5s	0.25s	0.15s	0.12s	0.12s

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

Installation and precautions

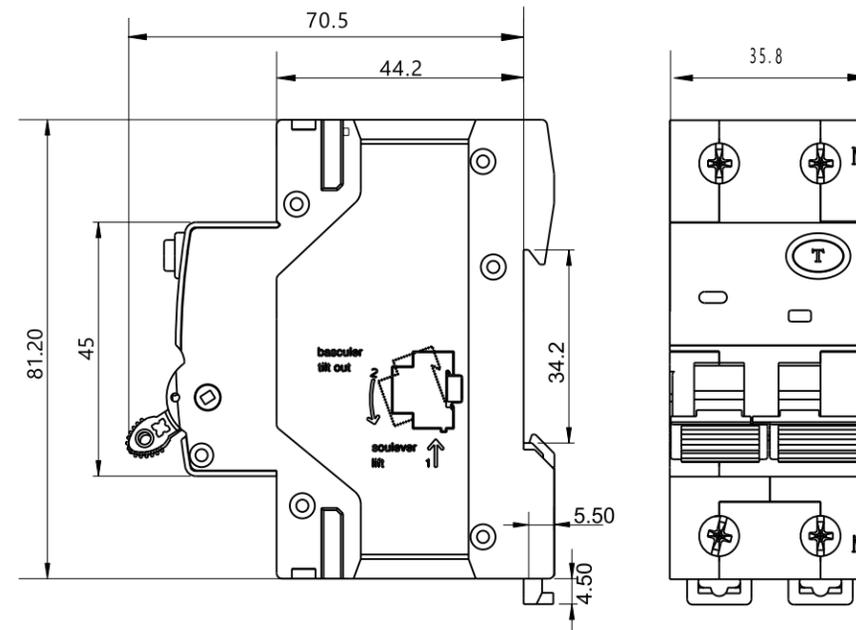
GYR9NE-ARC series arc fault circuit breakers, check that they are in good condition, flexible in operation, and in conformity with applicable requirements.

GYR9NE-ARC series ARC fault circuit breakers are installed inside and outside the distribution box. If they are installed separately, a ground metal (or insulating material) protection panel should be installed to prevent electric shock.

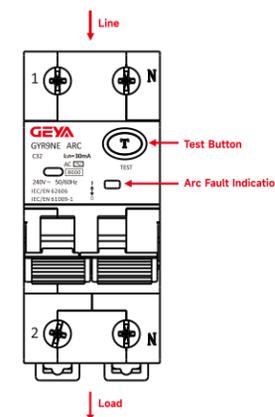
GYR9NE-ARC ARC series arc fault circuit breakers should be tested regularly during operation to remove dust and stains on the inlet and outlet lines and product surfaces. The power supply should be cut off during inspection.

GYR9NE-ARC series arc fault circuit breakers should be checked regularly during operation, and the test button should be pressed once a month;

Outline Overall And Installing Dimensions



Wiring Indicating Function



Instructions: After installation according to the product wiring diagram, connect the power supply of the product into the wire, when the product is in the tripping position, the LED light is not bright;

Turn the product off: if the green LED is on, it means that the product can be used normally; If no LED lights up, there is a problem with the product power supply, you need to contact the manufacturer. If the red LED is steady on, the self-test fails, and you need to contact the manufacturer.

When the product trips during use, how to confirm the cause of the trip, the product needs to be closed again, and the load at the lower end needs to be disconnected before closing (the electrical appliance is off), according to the following steps to operate;

To close the product again:

- The green LED is on, indicating that the device is operating normally;
- If the red LED is steady on, the self-test fails;
- The red LED blinks once for 5 cycles, indicating that the last trip was caused by a faulty arc;
- The red LED blinks twice for 5 cycles, indicating that the last trip was caused by an overvoltage fault;
- The red LED light flashes 3 times for 5 cycles, indicating that there is a leakage fault caused by the last trip ;
- The LED light is not on, indicating no power supply;



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYR10N
RCBO

GYD9-W
WIFI MCB

GYRC
WIFI CB

GRD9L
Recloser



GYR9NE-B

B-type residual current operated circuit breaker with overload protection

Leakage protection; Suitable for industrial, commercial, high-rise and civil residential and other occasions.

Product Feature

The product ensures reliable action for sinusoidal ac residual current, pulsed dc residual current, ac residual sinusoidal current (up to 1000Hz), pulsed dc residual current, and smooth dc residual current (whether applied suddenly or slowly increasing).

- ↙ Standard: IEC62423、IEC61009.1、GB22794、GB16917.1
- ↙ Double sink flow bar wiring function
- ↙ With leakage fault indication
- ↙ Maximum Wiring Capacity 25mm²

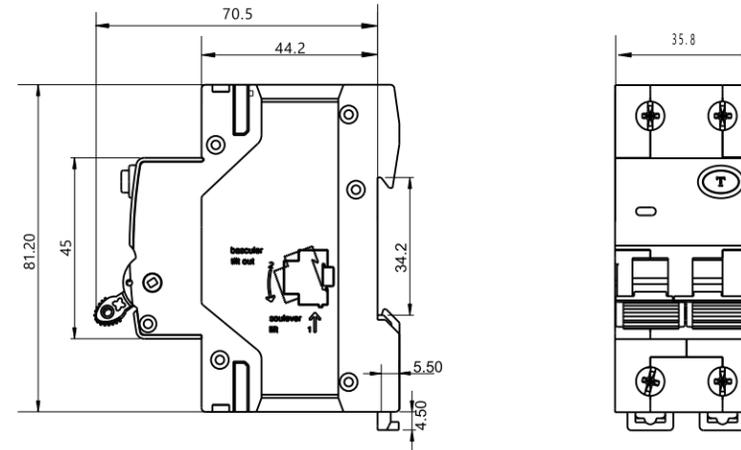
Detect waveform and protection range

Detection of waveform	Waveform	Different waveform action range
Sine AC		0.5~1Δn
Pulsating DC		0.35~1.4 IΔn
High frequency (up to 1kHz)		150Hz,0.5~2.4 IΔn
		400Hz,0.5~6 IΔn
		1000Hz,1~14 IΔn
Two phase full wave rectification		0.5~2 IΔn
Three phase full wave recifier		0.5~2 IΔn
Smooth direct current		0.5~2 IΔn

Residual leakage current breaking time

Rated current In(A)	Rated residual action current IΔn(mA)	Residual current breaking time (s)		
		IΔn	2IΔn	5IΔn
6、10、16、20、25、40	30	0.1	0.08	0.04

Outline Overall And Installing Dimensions



Technical Specification

Residual current action type			B
Rated Current	In	A	6、10、16、20、25、32、40
Tripping curve			B、C
Poles			1P+N
Rated Operational Voltage	Un	V	240V
Nominal Insulation Voltage	Ui	V	400
Working Frequency		Hz	50/60
Rated residual non-action current	IΔn0	mA	0.5 IΔn
Rated residual action current	IΔn	mA	30、100、300
Direct current flow as sensitivity	IΔndc	mA	0.5~2 IΔn
Rated impact tolerance voltage	Uimp	V	4000
1 min dielectric voltage		V	2000
Rated limit short circuit current	I _{nc}	A	6000
Rated limit Remaining short circuit current	IΔc	A	6000
Rated on and off capacity	I _m	A	500A(25A,40A),or 10In(≥63A)
Rated residual switching and breaking capacity	IΔm	A	500A(25A,40A),or 10In(≥63A)

GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

**GYR9NE-B
RCCB**

GYR10N
RCBO

GYD9-W
WIFI MCB

GYRC
WIFI CB

GRD9L
Recloser



GYR10N RCBO

Overload, short circuit, leakage protection; Suitable for industrial, commercial, high-rise and civil residential and other occasions.

Compliance

GYR10N-40 RCBO

- ✔ Rated current: 6A, 8A, 10A, 13A, 16A, 20A, 25A, 32A, 40A
- ✔ Rated voltage: 240V(230V)-
- ✔ Rated frequency: 50/60Hz
- ✔ Number of pole: 1P+N
- ✔ Module size: 18mm

GYR10N-50 RCBO

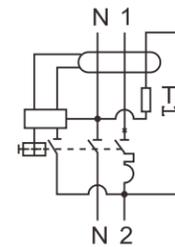
- ✔ IEC/EN/AS/NZS61009-1:2015
- ✔ ESV Compliant

Technical Data

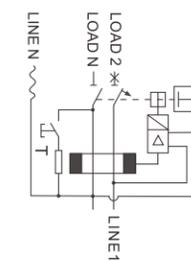
Item	Product number	
	GYR10N-40 RCBO	GYR10N-50 RCBO
Rated current	6A, 8A, 10A, 13A, 16A, 20A, 25A, 32A, 40A	
Rated voltage	240V(230V)-	
Rated frequency	50/60Hz	
Number of pole	1P+N	
Module size	18mm	
Curve type	B&C Curve	
Breaking capacity	6000A	
Rated residual operating current	10mA, 30mA, 100mA, 300mA Type A and AC	
Optimum operating temperature	-25°C to 40°C	
Terminal Tightening torque	1.2N·m ²	
Terminal Capacity(top)	16mm ²	
Terminal Capacity(bottom)	16mm ²	
Electro-mechanical endurance	4000 cycles	
Mounting	35mm DinRail	
Line and Load reversible	Suitable Busbar: PIN Busbar	

Wiring Diagram

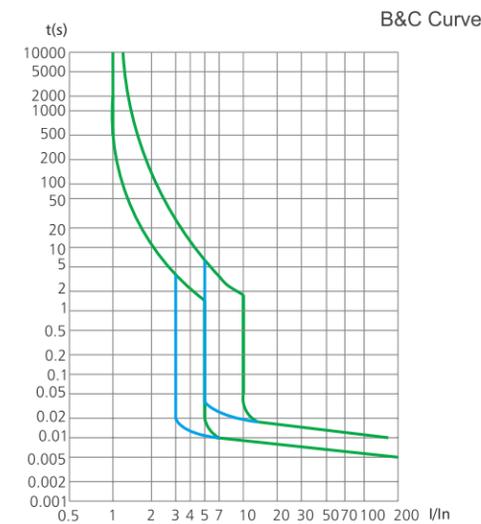
GYR10N-40 RCBO



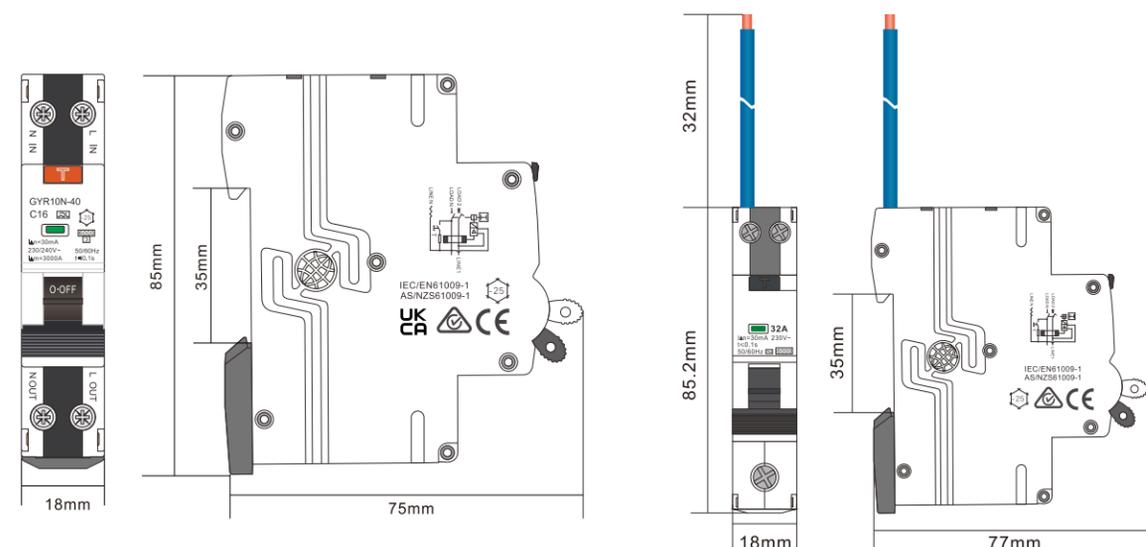
GYR10N-50 RCBO



The tripping characteristic curves



Outline Overall And Installing Dimensions



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

**GYR10N
RCBO**

GYD9-W
WIFI MCB

GYRC
WIFI CB

GRD9L
Recloser



GYD9-W WiFi circuit breaker

This product is a WiFi switch that can be remotely controlled via mobile phone/TUYA APP operation. It has overvoltage and undervoltage protection, as well as over temperature protection Functions such as overcurrent protection.

▶ Technical Specification

- ▶ 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.

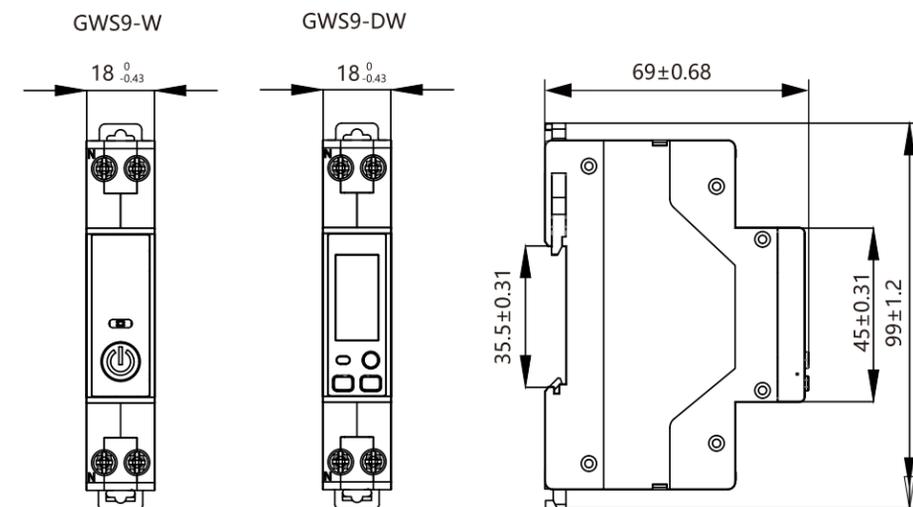
▶ Technical Specification

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	3s
2	Undervoltage protection	Turn off/ Alarm/Trip	Undervoltage adjustment	80~200V	165V
			Under voltage delay	0~10s	3s
3	Overload protection	Turn off/ Alarm/Trip	Overload adjustment	1~63A	63A
			Overload delay	3~10s	3s
4	High temperature protection	Turn off/ Alarm/Trip	high temperature adjustment	0~120°C	80°C
			High temperature delay	0~10s	5s
5	Over power protection	Turn off/ Alarm/Trip	Overpower value	50W-11Kw	off
			Over power delay	0~10s	---
6	Alarm allowed	off/on	---	---	---
7	Automatic closing	off/on	---	---	---
8	Timing control	off/on	---	---	---
9	Measurement prepayment				

▶ Outline Overall And Installing Dimensions



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYR10N
RCBO

GYD9-W
WiFi MCB

GYRC
WiFi CB

GRD9L
Recloser



GYRC-ZN01 IOT Smart circuit breaker

Compact design, High breaking capacity; Remote monitoring for better safety; 4G、WIFI、RS485



Product model and definition

GYRC	ZN	01	100	AP	2P	63A	4G+RS485
Product number	smart circuit breaker	Design Number	Frame grade	AP: fully automatic reclosing; APE:With PE ground fault protection	Pole	Rated current	Communication method
			100A		2P 4P	32 63 100	RS485 4G+RS485 WIFI+RS485 RJ45+RS485

Main functions

Item	Product number	
	GYRC-ZN01-100AP	GYRC-ZN01-100APE
Compliant with	GBT 16917 CQC1149	
pole number	2P/4P	
Rated voltage	Single-phase AC230V/three-phase AC400V 50Hz	
Rated current	32A、63A、100A	
Trip type	C type (other types can be customized)	
Short circuit breaking capacity	Icu=Ics=6KA	
Mechanical life	More than 12000 times	
Electrical life	More than 6000 times	
Closing time	Less than 1.5s	
Opening time	Less than 0.1s	
Measuring accuracy	1.0	
Leakage action value	30、50、100、200、300、500mA Optional	

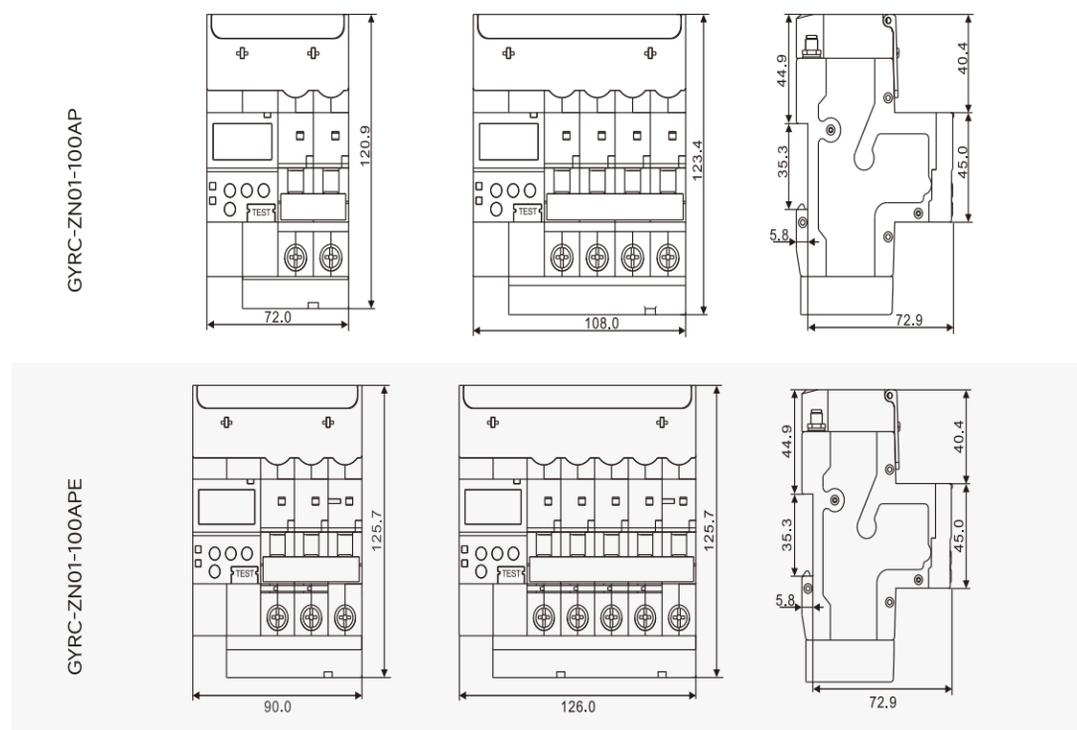
Main functions

No.	Protection function	trip type	GYRC-ZN01-100AP		GYRC-ZN01-100APE		parameter settings	Settings	factory default	Remark	
			2P	4P	2P	4P					
1	Overvoltage protection	Turn off/Alarm/Trip	Trip	Trip	Trip	Trip	overvoltage adjustment	250~350V	280V		
							Overvoltage delay	0-10s	3s		
2	Under voltage protection	Turn off/Alarm/Trip	Alarm	Alarm	Alarm	Alarm	Undervoltage adjustment	110~200V	165V		
							Under voltage delay	0-10s	3s		
3	Phase loss protection	Turn off/Alarm/Trip	---	Turn off	---	Turn off	Phase loss adjustment	10~100V	30V		
							Phase delay	0-10s	3s		
4	overload protection	Turn off/Alarm/Trip	Trip	Trip	Trip	Trip	Overload adjustment	0.6In~In	In		
							Phase delay	0-10s	3s		
5	High temperature protection	Turn off/Alarm/Trip	Alarm	Alarm	Alarm	Alarm	high temperature adjustment	60~100°C	80°C		
							High temperature delay	0-10s	5s		
6	Early warning function	off/on	turn on	turn on	turn on	turn on	Warning ratio	90~100%	95%		
7	Alarm allowed	off/on	turn on	turn on	turn on	turn on	---	---	---		
8	Underload protection	Turn off/Alarm/Trip	Turn off	Turn off	Turn off	Turn off	Underload ratio	1-90%	5%	GYL8 RCCB	
							Underload delay	0-10s	5s		
9	Over power protection	off/on	Turn off	Turn off	Turn off	Turn off	Overpower value	50-50KW	2KW	GYL10 RCCB	
							Over power delay	0-10s	5s		
10	Under power protection	off/on	Turn off	Turn off	Turn off	Turn off	Under power value	50-50KW	2KW	GYL9 RCCB	
							Under power delay	0-10s	5s		
11	Timing control	Setting/off	Turn off	Turn off	Turn off	Turn off	---	---	---		
12	Leakage Protection	Turn off/Alarm/Trip	Trip	Trip	Trip	Trip	Leakage setting value	30-500mA	100mA	30/50/100/200/300/500mA	GYL9-A+EV RCCB
							no driving time	-/0.06/0.1/0.2s	-		
13	mutation protection	Turn off/Alarm/Trip	Turn off	Turn off	Turn off	Turn off	Leakage mutation value	30-100mA	30mA		
14	Automatic reclosing	off/on	Turn off	Turn off	Turn off	Turn off	---	----	---	GYL9-B RCCB	
15	power failure protection	Turn off/Trip	Turn off	Turn off	Turn off	Turn off	Power-off voltage value	0-100V	80V		
							Power off delay	0-5s	2s		
16	Phase failure protection	Turn off/Alarm/Trip	---	Turn off	---	Turn off	Phase failure delay	0-5s	2s	GYR9N RCBO	
17	Voltage Unbalance Protection	Turn off/Alarm/Trip	---	Turn off	---	Turn off	Voltage imbalance	5%-30%	20%		
							voltage imbalance delay	0-10s	5s		
18	Current imbalance protection	Turn off/Alarm/Trip	---	Turn off	---	Turn off	Current imbalance	5%-30%	20%		
							Current imbalance delay	0-10s	5s		
19	Timed trial trip	off/on	Turn off	Turn off	Turn off	Turn off	Trial trip-day		20		
							Trial trip-hour		23		
							Trial trip-minute		30		
20	gear return	off/on	turn on	turn on	turn on	turn on				Leakage Protection	
21	Open protection	Turn off/Alarm/Trip	Turn off	Turn off	Turn off	Turn off				GYD9-W WIFI MCB	
22	Remote control allowed	off/on	turn on	turn on	turn on	turn on					
23	Location display	off/on	Turn off	Turn off	Turn off	Turn off		5-600s	60s		
24	PE open circuit alarm	Turn off/Alarm/Trip	---	---	Alarm	Alarm	Open circuit delay	5-600s	60s		
25	PE fault alarm	Turn off/Alarm/Trip	---	---	Alarm	Alarm	Failure delay	3-20s	3s		
26	Power-on delay	off/on	turn on	turn on	turn on	turn on		0-9	0		
27	Leakage reclosing										
28	Manual and automatic control		yes	yes	yes	yes					
29	Mechanical inspection lock		yes	yes	yes	yes					

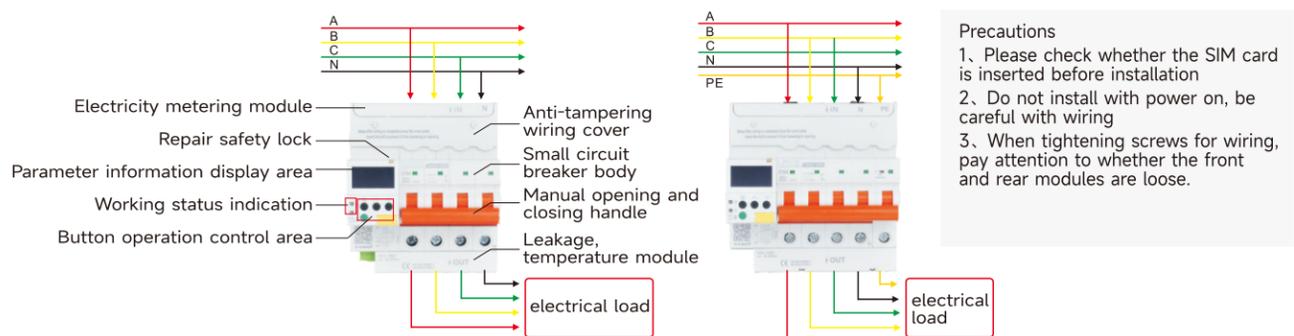
▶ Product appearance

GYRC-ZN01-100AP	GYRC-ZN01-100APE
4G+RS485/WIFI+RS485/RJ45+RS485/RS485	4G+RS485/WIFI+RS485/RJ45+RS485/RS485

▶ Product Dimensions

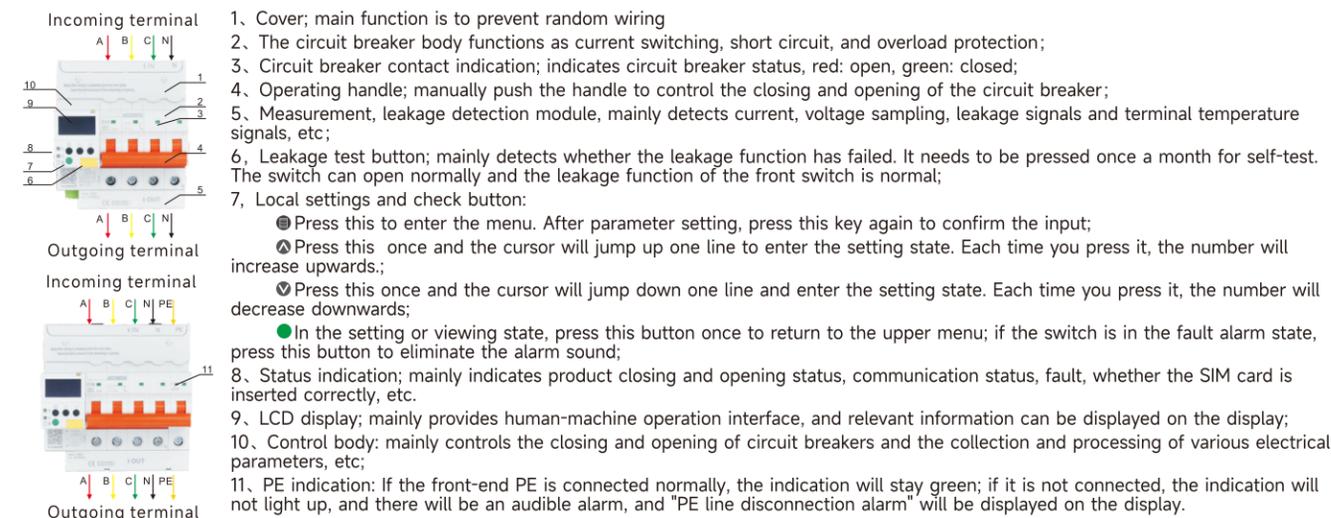


▶ Product wiring and panel instructions



- Precautions**
- 1、 Please check whether the SIM card is inserted before installation
 - 2、 Do not install with power on, be careful with wiring
 - 3、 When tightening screws for wiring, pay attention to whether the front and rear modules are loose.

▶ Introduction to product modules and button functions



▶ Menu Function Operation Instructions

1. Menu Function Operation Instructions
2. Press **●** to enter the menu, and you will be prompted to enter a password. The initial password of this product is "0000". If you need to change the password, press **▲▼** according to the cursor prompt to confirm the number you need to enter, and then press **OK** to set the next few digits with same operation.;
3. After entering the confirmation password, enter the menu, which has sub-menus such as parameters, records, functions, maintenance and about. Then press **●** to select the menu you want to enter, and then press **●** the key to enter the lower-level menu. You can set or view relevant parameters according to your needs.;
4. After setting or viewing parameters, you need to exit, just press **●**
5. Press **▲▼** directly to view the electrical parameters;
6. Long press **●** the green button to control the switch opening and closing, short press the button to return to the upper menu.;
7. Menu Description:
 - Parameters: After entering this menu, you can set parameter values, such as over and under voltage values, leakage, current, temperature, power, etc.;
 - Record: After entering this menu, you can view the switching time record, such as the cause of the fault, operation, etc.;
 - Communication: After entering this menu, you can set the communication method, such as WIFI, MOTT, RS485, etc. or communication baud rate, device type.;
 - Function: After entering this menu, the switch protection function can be set to off, alarm and trip.;
 - Display: After entering this menu, you can set the display to Chinese or English.;
 - Number of times: After entering this menu, you can query the number of times the switch has been run in each state.;
 - Maintenance: After entering this menu, you can perform maintenance on the switch, such as restoring factory settings, networking mode, restarting the device, etc.;
 - About: After entering this menu, you can view the product software version number, communication module IEMI code and SIM card code, etc.

▶ Product installation precautions

- 1 Reverse connection of product incoming and outgoing lines is absolutely not allowed;
- 2 After the product is installed, check whether the wiring is correct. Pay special attention to the fact that N and PE cannot be connected wrongly
- 3 The leakage function of FSZN01-PE product is not allowed to be turned off. Set the leakage parameter value to 30mA (recommended). It can be set to 30mA according to the actual application scenario.;
- 4 For online version products, please download and install the APP and scan the QR code on the product.;
- 5 The RS485 communication terminal of this product is a standard configuration. It can be connected to computers and various communication devices through an RS485 to USB converter to achieve information exchange and control.;
- 6 The default baud rate of the device is 9600bps. You can view and set the required baud rate in the settings menu.;
- 7 For 7.4G version products, the SIM card must be inserted before use to achieve remote information interactive control.;
- 8 Product installation and debugging must be carried out by professional electricians.;
- 9 This product can be customized according to user needs. Please contact us for details.;
- 10 For special purposes, please consult us.

▶ Basic debugging

1. The remote control does not respond:

Check that the two-way arrow is not displayed on the main interface. The SIM card may be in arrears, loose or damaged. Enter the menu "About" and check the SIM code (20-digit code); if you can check it, means that the card is in arrears, operation method: recharge the data according to the operator to activate it. If you can't see it, open the cover of the SIM card insertion area, take it out again (push the SIM card inward gently and release it, and the card will pop out) and then put it back in. You can see the card number, which means that the card is loose and has poor contact; if you cannot check it, it means that the card is broken, please replace the SIM card.

Check whether the 485 symbol is displayed on the main interface. If not, check whether the RS485 interface is loose.
2. The sub-device under control does not respond. Check whether the device is online? If it is offline, re-configure the network. If the network configuration is unsuccessful, there may be a problem with the device and it may need to be disassembled for inspection or repair.

- GYR9NE-B
RCCB
- GYR10N
RCBO
- GYD9-W
WIFI MCB
- GYRC
WIFI CB**
- GRD9L
Recloser



GYRC-ZN02 IoT small circuit breaker

Compact design, High breaking capacity; Remote monitoring for better safety; 4G, WIFI, RS485



Product model and definition

GYRC	ZN	02	L	63	AP	2P	32A	DC	RS485
Product number	smart circuit breaker	Design Number	With leakage; None: means no leakage	Frame grade 63A <small>(Note: DC or AC type product 1P/2P can be 100A)</small>	AP: fully automatic reclosing; BZ: semi-automatic	Pole 1P 1P+N 2P 3P 3P+N 4P	Rated current 20 32 63 100A	AC: AC type DC: DC type	Communication method RS485 4G WIFI

Main functions

Item	Product number	
	GYRC-ZN02-63AP	GYRC-ZN02L-63AP
Compliant with	GBT 10963 CQC1148	GBT 16917 CQC1149
pole number	1P/2P/3P/4P	2P/3P/4P
Rated voltage	Single-phase AC230V/three-phase AC400V 50Hz	
Rated current	20A, 32A, 63A(1P/2P can be customized to 100A)	20A, 32A, 63A
Trip type	C type (other types can be customized)	
Short circuit breaking capacity	Icu=10KA Ics=7.5KA	
Mechanical life	1P/2P more than 20000 times, 3P/4P more than 12000 times	More than 12000 times
Electrical life	More than 6000 times	
Closing time	Less than 1.5s	
Opening time	Less than 1.0s	
Measuring accuracy	1.0	
Leakage action value	-	30 50 100 200 300 500 Optional

Usage and precautions

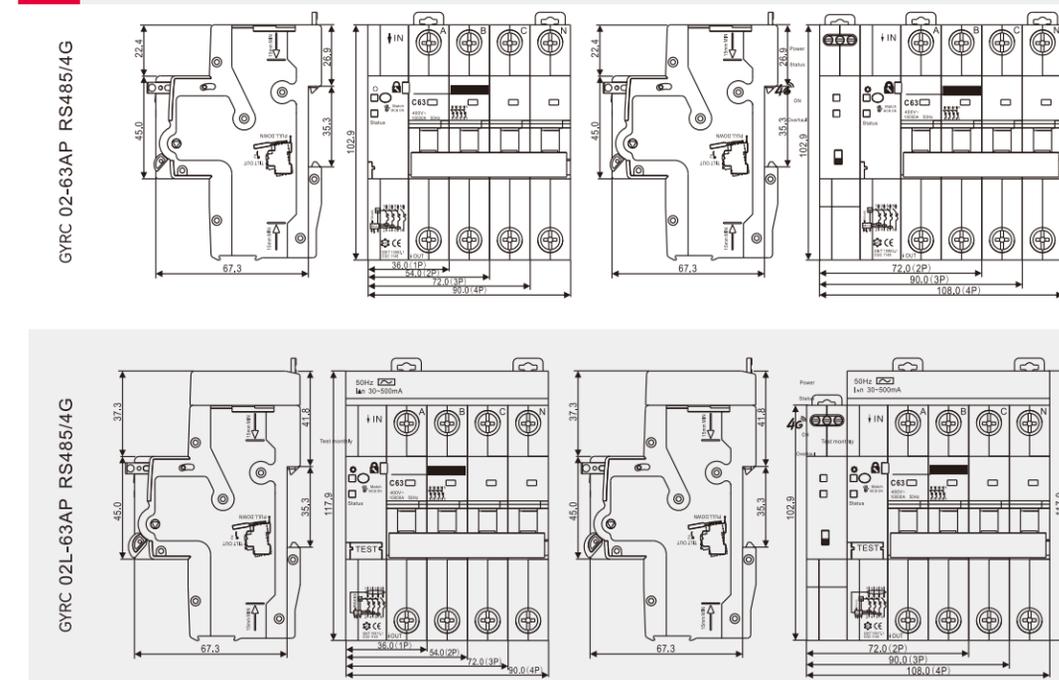
- The RS485 communication terminal of this product is a standard configuration. It can be connected to computers and various communication devices through an RS485 to USB converter to achieve information exchange and control;
- The system default baud rate is 9600bps. You can connect it to the computer through an RS485 to USB converter to check and set the required baud rate;
- For network GPRS version products, the SIM card must be inserted before use to realize Internet information exchange or remote control through GPRS;
- This product must be installed and debugged by a professional electrician;
- Products can be customized according to user needs, please contact relevant technical personnel for details.

33

Main functions

No.	Protection function	trip type	ZN02-63AP				ZN02L-63AP			parameter settings	Settings	factory default	Remark
			1P	2P	3P	4P	2P	3P	4P				
1	Overvoltage protection	Turn off/Alarm/Trip	Trip	Trip	Trip	Trip	Trip	Trip	Trip	overvoltage adjustment	250-350V	280V	
										Overvoltage delay	0-10s	3s	
2	Under voltage protection	Turn off/Alarm/Trip	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Undervoltage adjustment	110-200V	165V	
										Under voltage delay	0-10s	3s	
3	Phase loss protection	Turn off/Alarm/Trip	---	---	Turn off	Turn off	---	Turn off	Turn off	Phase loss adjustment	10-100V	30V	
										Phase delay	0-10s	3s	
4	overload protection	Turn off/Alarm/Trip	Trip	Trip	Trip	Trip	Trip	Trip	Trip	Overload adjustment	0.6In~In	In	
										Phase delay	0-10s	3s	
5	High temperature protection	off/on	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	Alarm	high temperature adjustment	60-100°C	80°C	
										High temperature delay	0-10s	5s	
6	Early warning function	off/on	turn on	turn on	turn on	Warning ratio	90-100%	95%					
7	Alarm allowed	off/on	turn on	turn on	turn on	---	---	---					
8	Over power protection	off/on	Turn off	Turn off	Turn off	Overpower value	50-50KW	2KW	GYL8 RCCB				
										Over power delay	0-10s	5s	
9	Under power protection	off/on	Turn off	Turn off	Turn off	Under power value	50-50KW	2KW	GYL10 RCCB				
										Under power delay	0-10s	5s	
10	Timing control	Setting/off	Turn off	Turn off	Turn off	---	---	---					
11	Automatic reclosing	off/on	Turn off	Turn off	Turn off	---	---	---					
12	Leakage Protection	Turn off/Alarm/Trip	Trip	Trip	Trip	Trip	Trip	Trip	Trip	Leakage setting value	30-500mA	100mA	
										no driving time	-/0.06/0.1/0.2s	-	30/50/100/200/300/500mA
13	mutation protection	Turn off/Alarm/Trip	Turn off	Turn off	Turn off	Leakage mutation value	30-100mA	30mA					
14	Manual and automatic control	-	Yes	Yes	Yes	Yes	Yes	Yes	Yes	---	---	---	GYL9-B RCCB
15	Mechanical inspection lock	-	available	available	available	available	available	available	available	---	---	---	

Product Dimensions



GYR9N RCBO

GYR9NE-ARC AFDD

GYR9NE-B RCCB

GYR10N RCBO

GYD9-W WIFI MCB

GYRC WIFI CB

GRD9L Recloser

Simplified picture of the product according to the communication method

GYRC-ZN02-63AP (RS485 communication)				
GYRC-ZN02-63AP (wifi communication)				
GYRC-ZN02-63AP (4G communication)				(4G communication) Panel style is required
GYRC-ZN02L-63AP (RS485 communication)				
GYRC-ZN02L-63AP (wifi communication)				
GYRC-ZN02L-63AP (4G communication)				(4G communication) Panel style is required



GYRC-ZN03

IoT small circuit breaker

Compact design high breaking capacity; remote automatic reclosing; Intelligent timing; TUYA WIFI

Remote control

GPRS connection

International standard

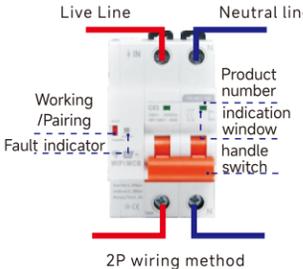
High breaking capacity

Flame retardant materials

Product model and definition

GYRC	ZN	03	—	100	AP	/	2P	/	63A	/	TUYA WIFI
				Frame grade			Pole		Rated current		Communication method
Product number	smart circuit breaker	Design Number		100A	AP: fully automatic reclosing; BZ: semi-automatic		1P 2P 3P 4P		20 32 63 100A		TUYA WIFI (other specifications can be customized)

Main functions, technical parameters and wiring



Compliant with	GBT 10963	Product poles	1P 2P 3P 4P
Rated voltage	single-phase AC230V/ three-phase AC400V 50Hz	Rated current	preferred 20A 32A 63A 100A
Trip type	Type C (other types can be customized)	Short circuit breaking capacity	Icu=Ics=6KA
Mechanical life	more than 12,000 times	Electrical life	more than 6000 times
Closing time	less than 1.5s	Opening time	less than 1.0s
Overvoltage protection	Overvoltage setting 250- 35V- Default value: 280V-;Setting value 0-10s Default value: 3s (setting value APP setting)		
Undervoltage protection	Overvoltage setting 250- 35V- Default value: 280V-;Setting value 0-10s Default value: 3s (setting value APP setting)		
Timing control	on/off Timing time APP settings		

Product appearance



- GYL8 RCCB
- GYL10 RCCB
- GYL9 RCCB
- GYL9-A+EV RCCB
- GYL9-B RCCB
- GYR9N RCBO
- GYR9NE-ARC AFDD
- GYR9NE-B RCCB
- GYR10N RCBO
- GYD9-W WIFI MCB
- GYRC WIFI CB
- GRD9L Recloser

Tuya Smart APP installation and product networking configuration

“Smart Home” mobile APP
Unlimited mobile signal coverage distance

01 Wiring
Correctly connect the incoming line of the product to the power cord and power on. After 25 seconds, the product indicator will flash slowly and move as close to the WIFI router as possible.

02 Install Tuya Smart
1. Search "Tuya Smart" APP on your Android phone in major application markets and click to download and install it.
2. Search the "Tuya Smart" APP in the app store on your iPhone and click to download and install it (wait for the download to complete and then open it)

03 Register/Login
Please operate in order
Register an account
Enter registration account
Enter registration password

04 Add equipment
Click to Login
Click + add device to enter the pairing state

05 Set timing
Set timer
Turn on it whenever you want

06 Add delay
Delay can be set
how long it takes to switch

07 Tmall Genie process setting

Download "Tmall Genie APP" on your mobile phone (requires Tmall Genie device)
Click to add device
Follow the prompts to add Tmall Genie
Enter WIFI password
Network distribution successful
After successful distribution
Click Smart Home
Click on Tuya Smart
Log in to the account of Smart Life APP
After the binding is successful, the socket can be controlled by voice

Usage and precautions

1. The RS485 communication terminal of this product is a standard configuration. It can be connected to computers and various communication devices through an RS485 to USB converter to achieve information exchange and control.
2. The system default baud rate is 9600bps. You can connect it to the computer through an RS485 to USB converter to check and set the required baud rate.
3. For network GPRS version products, the SIM card must be inserted before use to realize Internet information exchange or remote control through GPRS.
4. This product must be installed and debugged by a professional electrician.
5. Products can be customized according to user needs, please contact relevant technical personnel for details

GYRC-ZN05

IoT small circuit breaker

Compact design high breaking capacity; remote automatic reclosing; Intelligent timing; TUYA WIFI

Remote control

GPRS connection

International standard

High breaking capacity

Flame retardant materials

Product model and definition

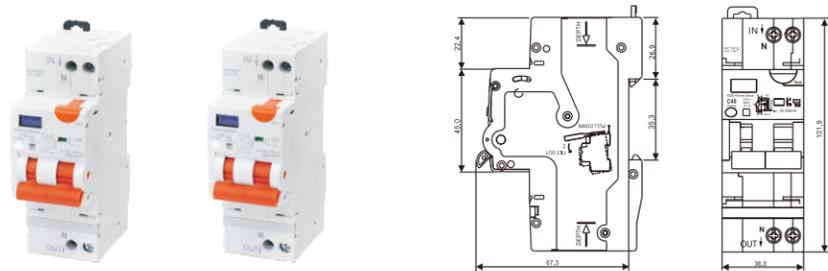
GYRC	ZN	05	—	40	AP	/	1P+N	/	20A	/	RS485
Product number	smart circuit breaker	Design Number		40A	AP: fully automatic reclosing; BZ: semi-automatic		1P+N		20 40A		RS485 WIFI
				Frame grade			Pole		Rated current		Communication method

Main functions

Item	Product number
	GYRC-ZN05-40AP
Compliant with	GBT 16917 CQC1149
pole number	1P+N
Rated voltage	Single-phase AC230V 50Hz
Rated current	20A、40A(other specifications can be customized)
Trip type	C type (other specifications can be customized)
Short circuit breaking capacity	Icu=Ics=6KA
Mechanical life	more than 15000 times
Electrical life	more than 6000 times
Closing time	less than 1.2s
Opening time	less than 1.0s
Measuring accuracy	1.0
Leakage action value	30、50、100mA Optional

- GYL8 RCCB
- GYL10 RCCB
- GYL9 RCCB
- GYL9-A+EV RCCB
- GYL9-B RCCB
- GYR9N RCBO
- GYR9NE-ARC AFDD
- GYR9NE-B RCCB
- GYR10N RCBO
- GYD9-W WIFI MCB
- GYRC WIFI CB
- GRD9L Recloser

▶ Product pictures and dimensions



▶ Main function

NO.	Protection function	trip type	GYRC-ZN05-40AP		parameter settings	Settings	factory default	Remark
			1P					
1	Overvoltage protection	Turn off/alarm/trip	Trip	overvoltage adjustment	250-350V	280V		
				Overvoltage delay	0-10s	3s		
2	Under voltage protection	Turn off/alarm/trip	Alarm	Undervoltage adjustment	110-200V	165V		
				Under voltage delay	0-10s	3s		
3	Phase loss protection	Turn off/alarm/trip	---	Phase loss adjustment	10-100V	30V		
				Phase delay	0-10s	3s		
4	overload protection	Turn off/alarm/trip	Trip	Overload adjustment	0.6In-In	In		
				Phase delay	0-10s	3s		
5	High temperature protection	Turn off/alarm/trip	Alarm	high temperature adjustment	60-100°C	80°C		
				High temperature delay	0-10s	5s		
6	Early warning function	off/on	turn on	Warning ratio	90-100%	95%		
7	Alarm allowed	off/on	turn on	---	---	---		
8	Over power protection	off/on	Turn off	Overpower value	50-50KW	2KW		
				Over power delay	0-10s	5s		
9	Under power protection	off/on	Turn off	Under power value	50-50KW	2KW		
				Under power delay	0-10s	5s		
10	Timing control	Setting/off	Turn off	---	---	---		
11	Automatic reclosing	off/on	Turn off	---	---	---		
12	Leakage Protection	Turn off/alarm/trip	Trip	Leakage setting value	30-100mA	30mA		
				no driving time	-/0.06/0.1/0.2s	-	30/50/100	
13	mutation protection	Turn off/alarm/trip	Turn off	Leakage mutation value	30-100mA	30mA		
14	Manual and automatic controlltage		yes	---	---	---		
15	Mechanical inspection lock		yes	---	---	---		

▶ Tuya Smart APP installation and product networking configuration

“Smart Home” mobile APP
Unlimited mobile signal coverage distance

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Enter registration account
Enter registration password

04 Add equipment
Click to Login
Click + add device to enter the pairing state

05 Set timing
Set timer
Turn on it whenever you want

06 Add delay
Delay can be set
how long it takes to switch

07 Tmall Genie process setting
Download "Tmall Genie APP" on your mobile phone (requires Tmall Genie device)
Click to add device
Follow the prompts to add Tmall Genie
Enter WIFI password
Network distribution successful
After successful distribution
Click Smart Home
Click on Tuya Smart
Log in to the account of Smart Life APP
After the binding is successful, the socket can be controlled by voice

▶ Typical application examples



▶ Usage and precautions

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GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYR10N
RCBO

GYD9-W
WIFI MCB

GYRC
WIFI CB

GRD9L
Recloser



GRD9L-C/D MCB/RCCB/RCBO controlled by switch

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.

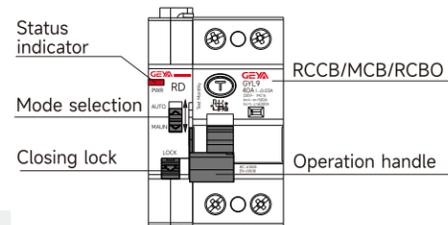
Product Feature

- 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.

Model and connotation

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

Panel Diagram



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	

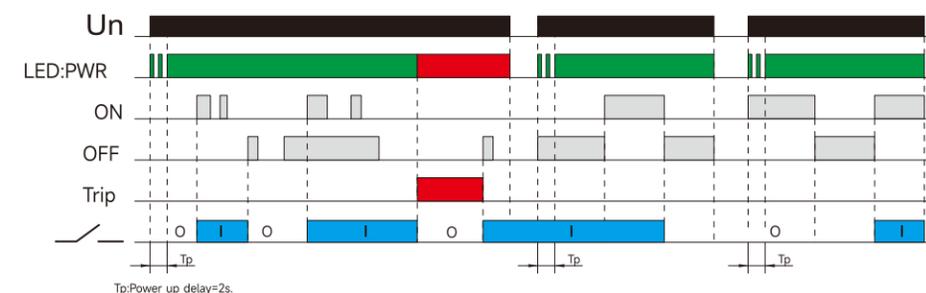
	GRD9L-C	GRD9L-D
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP20	
Operating position	any	
Overvoltage category	III.	
Pollution degree	2	
Max. cable size(mm ²)	82X18X78mm	
Dimensions	1X2.5mm ² or 2X1.5mm ²	
Weight	80g	

Combination with accessories

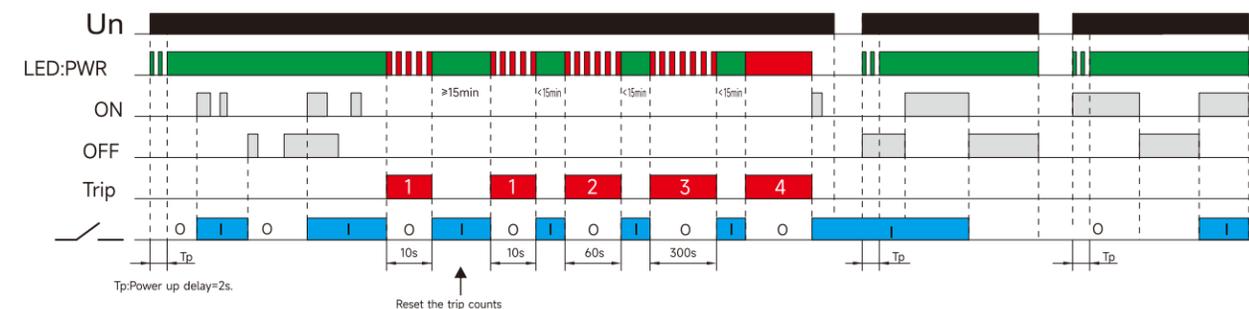
	GRD9L-C/D
Auxillary contact	Yes
Alarm contact	Yes
Shunt release	Yes
Under voltage release	Yes

Functions Diagram

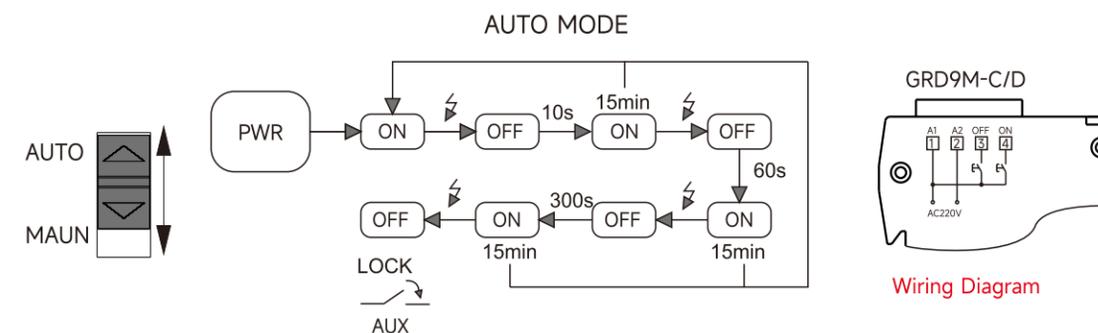
GRD9L-C(Auto Mode)



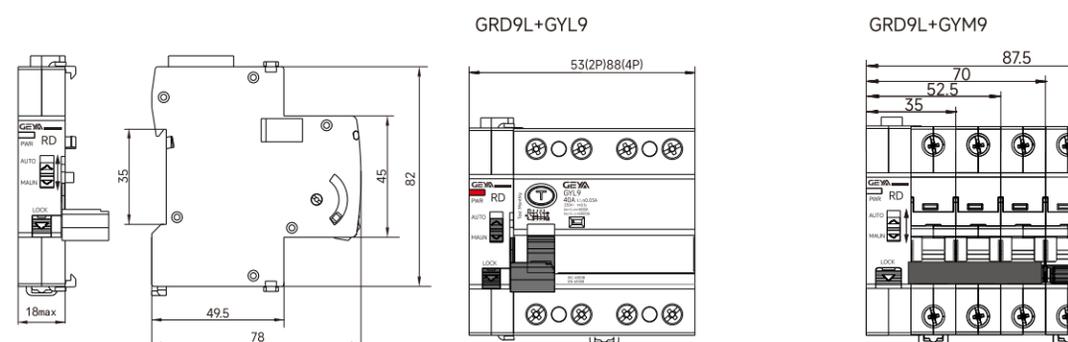
GRD9L-D(Auto Mode)



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



Outline Overall And Installing Dimensions



- GYL8
RCCB
- GYL10
RCCB
- GYL9
RCCB
- GYL9-A+EV
RCCB
- GYL9-B
RCCB
- GYR9N
RCBO
- GYR9NE-ARC
AFDD
- GYR9NE-B
RCCB
- GYR10N
RCBO
- GYD9-W
WIFI MCB
- GYRC
WIFI CB
- GRD9L
Recloser**



GRD9L-R MCB/RCCB/RCBO with Auto Reclosing

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.

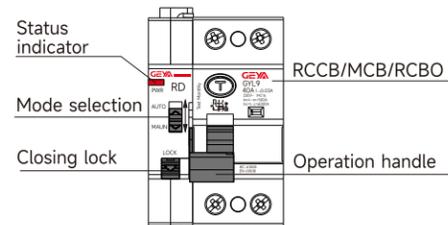
Product Feature

- 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

Model and connotation

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

Panel Diagram



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

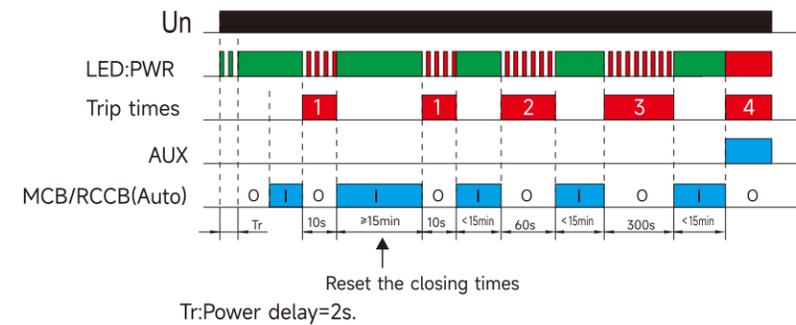
	GRD9L-R
Control mode	Auto Rexlosing
Supply terminals	A1-A2
Voltage range	DC12V,DC24V~48V
Power input	DC max.1W(standby) max.20W(action)
Supply voltage tolerance	-10%; +10%
Voltage range	AC 220V(50-60Hz)
Power input	DC max.1W(standby) max.20W(action)
Supply voltage tolerance	-10%;+10%
Supply indication	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
Overvoltage category	III.
Pollution degree	2
Max. cable size(mm ²)	82X18X78mm
Dimensions	1X2.5mm ² or 2X1.5mm ²
Weight	80g

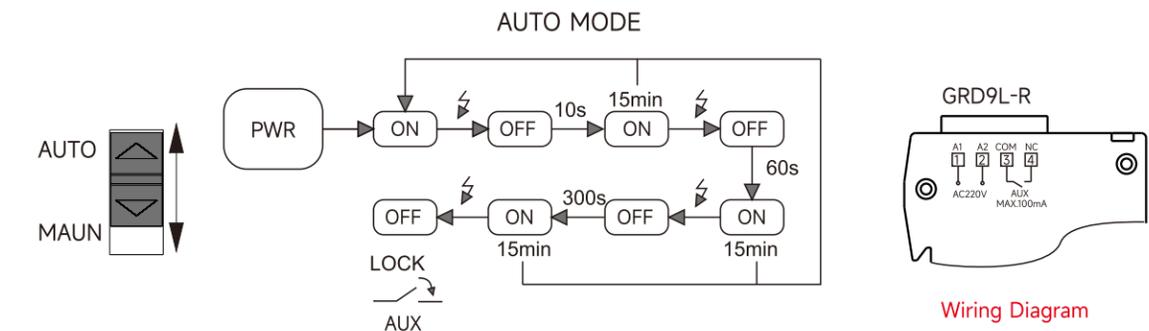
Combination with accessories

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

Functions Diagram

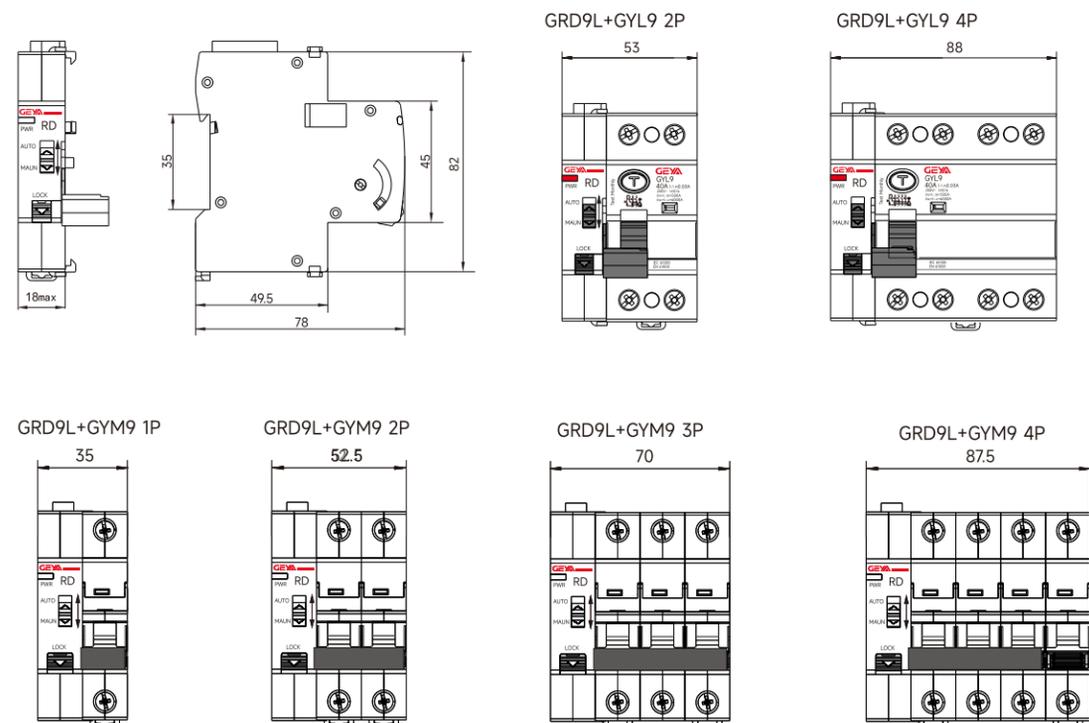


GRD9L-D has automatic closing function,The closing logic is shown in the figure below:



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

Outline Overall And Installing Dimensions



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYRC
WIFI CB

GRD9L
Recloser



GRD9L-S MCB/RCCB/RCBO with RS485 interface

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.

Product Feature

- 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.

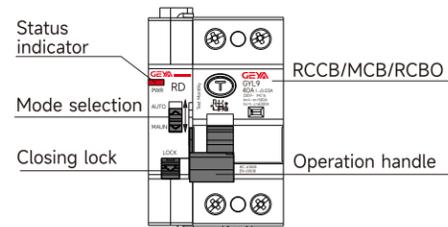
Model and connotation

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

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

Panel Diagram

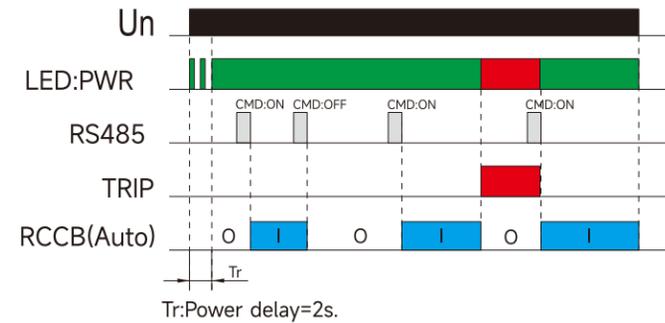


Note: The matching MCB /RCCB /RCBO specification and model shall be indicated when ordering.
Example 1: GRD9L-S +GYM9 2P C40
Example 2:GRD9L-S +GYL9 2P 40A 30mA

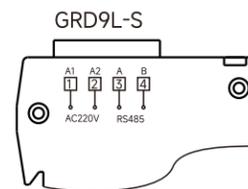
Combination with accessories

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

Functions Diagram

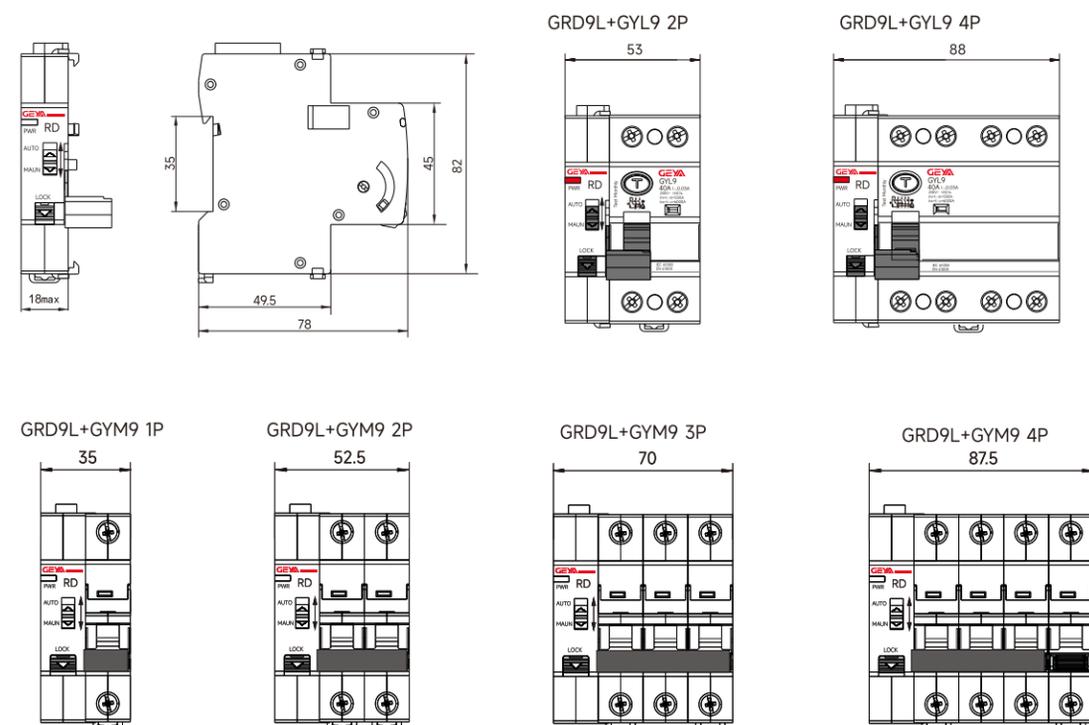


Note: If you need a communication protocol, please contact us.



Wiring Diagram

Outline Overall And Installing Dimensions



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

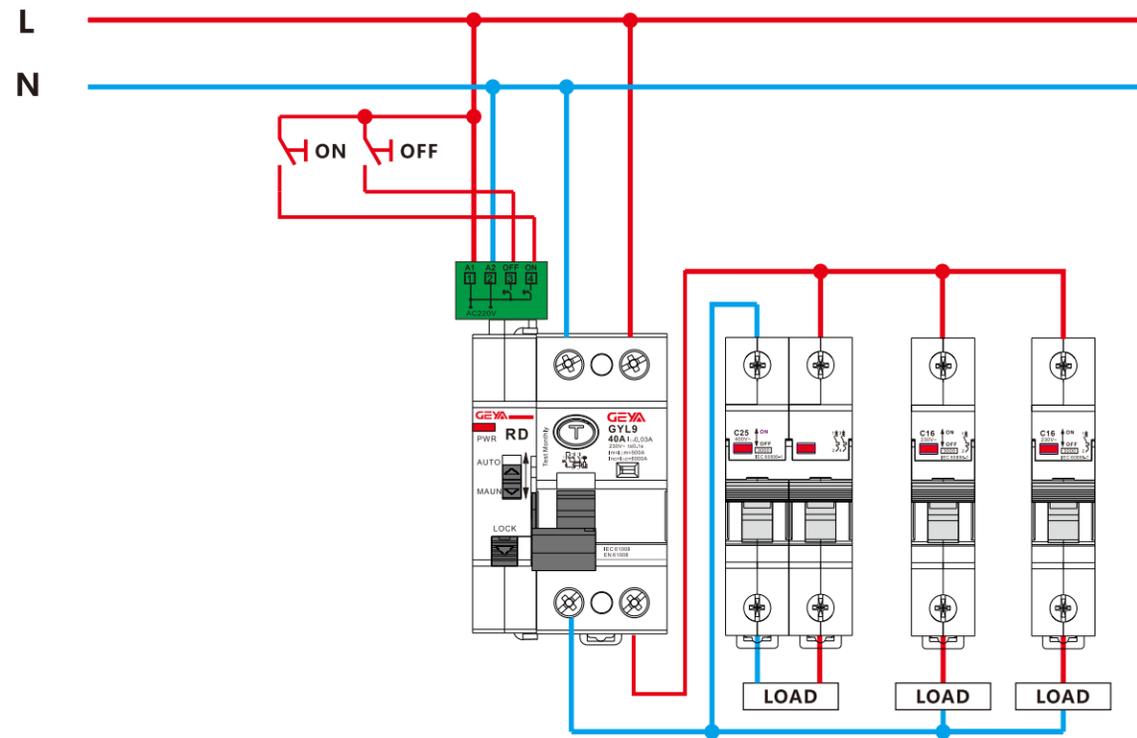
GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

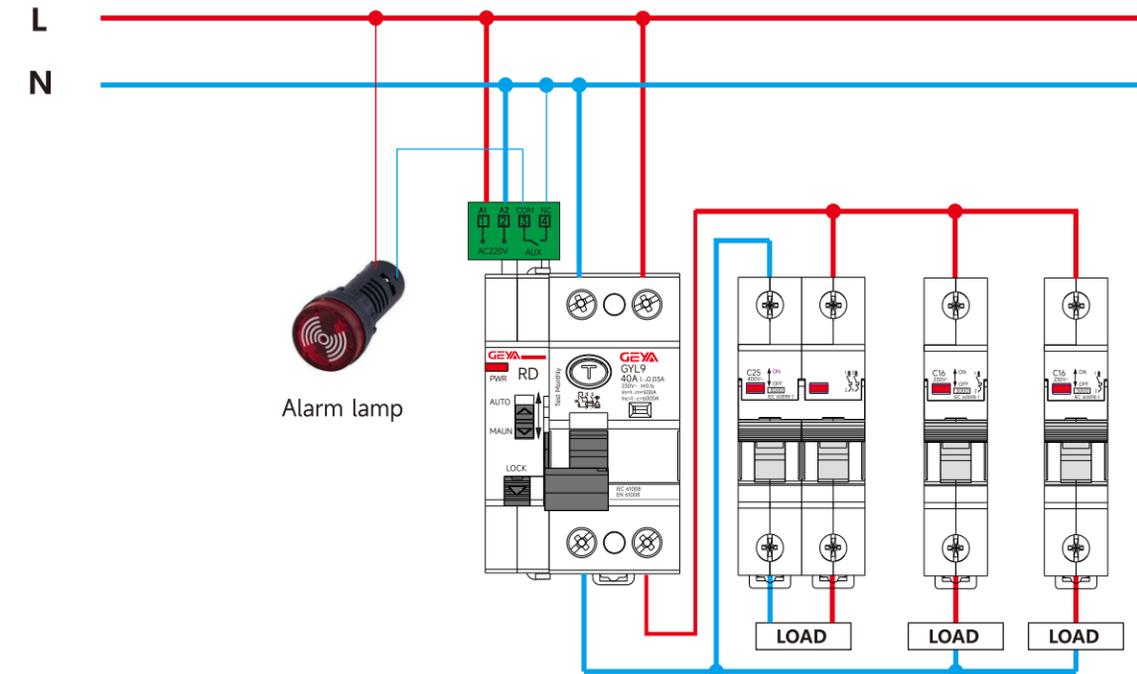
GYRC
WIFI CB

GRD9L
Recloser

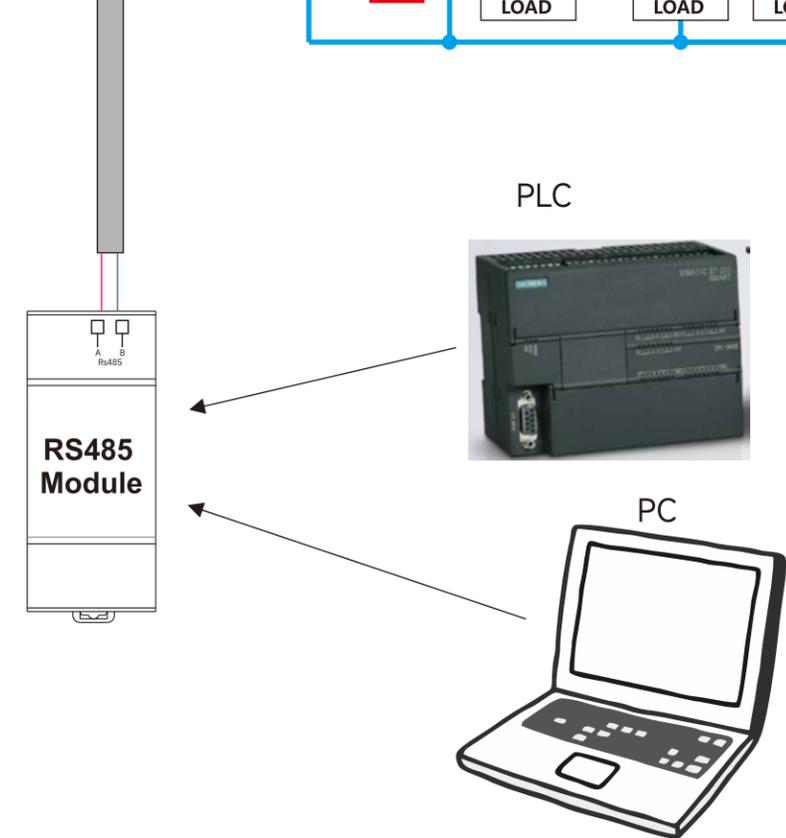
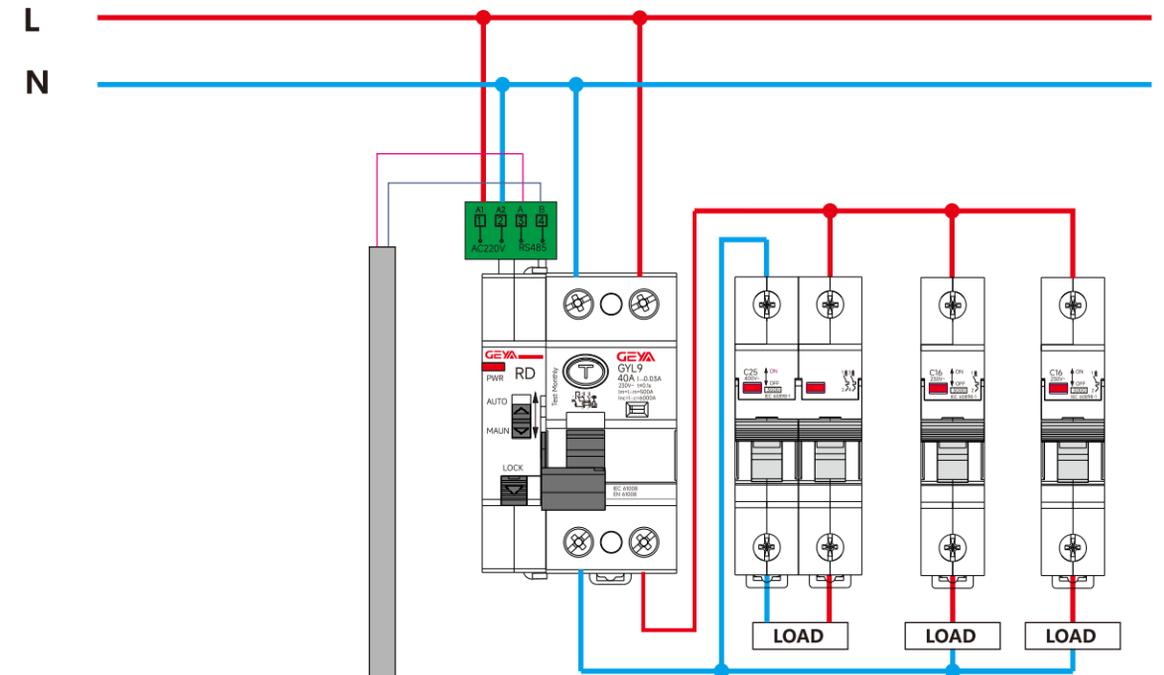
GRD9L-C



GRD9L-R



GRD9L-S



GYL8
RCCB

GYL10
RCCB

GYL9
RCCB

GYL9-A+EV
RCCB

GYL9-B
RCCB

GYR9N
RCBO

GYR9NE-ARC
AFDD

GYR9NE-B
RCCB

GYRC
WIFI CB

GRD9L
Recloser



GYHC Home AC Contactors

GYHC series analog-digital AC contactors adopt a new technology platform and apply automated production and testing equipment to create high-end contactors with super quiet and long life. Transparent clamshell design, high-end material selection, RoHS standard, visual window, and rich models and specifications.

Product Feature

GYHC contactors can be used for remote control: lighting, heating, ventilation, public hot water, mechanical ventilation systems, low sensitivity micro load environments; Advanced technologies such as 3D design, 3D printing, tolerance analysis and simulation analysis are used for product development; Finest material selection & Standard: Custom plastic, brand silver point, elite craft, RoHS compliant;

Product model and meaning

GYHC	16	10	AC230
Product model	Rated Current 16A/20A/25A 32A/40A/63A	Contactor Type 1P 10:1NO/01:1NC 2P 20:2NO/11:1NO+1NC/02:2NC 3P 30:3NO/03:3NC 4P 40:4NO/31:3NO+1NC/22:2NO+2NC/04:4NC	Control Voltage AC24V/AC48V/AC110V AC230V/DC12V/DC24V

Technical Specification

GYHC	
Rated operational voltage(Ue)	1P/2P:250V AC 3P/4P:400V AC
Frequency	50Hz
Electrical durability	100000 times
Maximu number of switching operation a day	100 times
Rated insulation voltage (Ui)	500V AC
Pollution class	2
Rated impulse withstand voltage (Uimp)	4kV
Protection Grade(IEC/EN 60529)	Contactor only: IP20; Contactor in modular enclosure: IP40
Operating temperature	-5°C~+60°C
Storage Temperature	-40°C~+70°C
Tropicalization(IEC/EN 60068-1)	Treatment 2 (relative humidity 95% at 55°C)
Certification	CCC/CE
ELSV compliance (extra low safety voltage) for 12/24/48V AC versions	
The product control conforms to the SELV(safety extra low voltage)requirements	
In the case of contactor mounting in a enclosure for which the interior temperature is in range between 50°C and 60°C. It is necessary to use a spacer between each contactor.	

External dimensions

		GYHC-16A/20A/25A		GYHC-32A/40A/63A	
	W	2P	4P	2P	4P
	D	18	36	36	54
	H	68	68	68	68
	H	81	81	85	85

Technical Parameters

Tape	Rated current (In)		Control voltage(V)	Contact	Width (A multiple of 9mm)
	AC-7a	AC-7b			
1P	16A	6A	AC(50/60Hz): 24V/48V /110V/230V DC:12V/24V	1NO 1NC	2
	20A	7A			
	25A	9A			
2P	16A	6A		2NO 2NC 1NO1NC	2
	20A	7A			
	25A	9A			
	32A	12A			
	40A	15A			
3P	16A	6A		3NO 3NC	2
	20A	7A			
	25A	9A			
	32A	12A			
	40A	15A			
4P	16A	6A	4NO 4NC 2NO2NC 3NO1NC	2	
	20A	7A			
	25A	9A			
	32A	12A			
	40A	15A			
	63A	20A			

Power Consumption

Type	Rated Current (In)		Control voltage (V AC)	Power Consumption		Max. Power	
	AC-7a	AC-7b		Holding	Actuation		
1P	25A	9A	230...240	2.7VA	9.2VA	1.2W	
2P	16A	6A	230...240	2.7VA	9.2VA	1.2W	
	20A	7A	230...240	2.7VA	9.2VA	1.2W	
	25A	9A	24	3.8VA	15VA	1.3W	
			230...240	2.7VA	9.2VA	1.2W	
			230...240	2.7VA	9.2VA	1.2W	
	32A	12A	230...240	4.6VA	34VA	1.6W	
	40A	15A	230...240	4.6VA	34VA	1.6W	
	63A	20A	230...240	4.6VA	34VA	1.6W	
3P	16A	6A	230...240	4.6VA	34VA	1.6W	
	20A	7A	230...240	4.6VA	34VA	1.6W	
	25A	9A	230...240	4.6VA	34VA	1.6W	
	32A	12A	230...240	6.5VA	53VA	2.1W	
	40A	15A	230...240	6.5VA	53VA	2.1W	
	63A	20A	230...240	6.5VA	53VA	2.1W	
	4P	16A	6A	230...240	4.6VA	34VA	1.6W
		20A	7A	230...240	4.6VA	34VA	1.6W
25A		9A	24	4.6VA	34VA	1.6W	
			220...240	4.6VA	34VA	1.6W	
			24	4.6VA	34VA	1.6W	
			230...240	4.6VA	34VA	1.6W	
32A		12A	230...240	6.5VA	53VA	2.1W	
40A		15A	230...240	6.5VA	53VA	2.1W	
63A	20A	230...240	6.5VA	53VA	2.1W		



GLC1 AC contactor

With the new generation of technical platform and automatic production and testing equipment, the new GLC1 AC contact fits the customer application needs which is in a good quality.

Product model and meaning

GLC1	16	10	B	Z
Product model	Rated Current 09A/12A/18A/25A/ 32A/40A/50A/ 65A/80A/95A	Contact Type 10:1NO, 01:1NC, 11:1NO1NC 004:Main contact 4NO (except 18A and 32A) 008:Main contact 2NO+2NC (except 18A and 32A)	Control Voltage B:24V C:36V F:110V M:220V Q:380V	DC Control Circuit

Technical Specification

GLC1	
GLC1 AC Contactor	9-95A, totally 10 current specifications
Accessories	FG1 dust cover, F1 top auxiliary contact, FCI side auxiliary contact, FJ1 mechanical interlock, FY1 air delayed head, FR1 surge suppressor
Certification	CCC/CE
Standards	Standards: IEC 60947-1 general provisions and IEC 60947-4-1 contactors
Installation position	The installation site shall be vertical, and inclination at all directions shall not exceed ±22.5°; installation class II.
Pollution class	Class 3
Ambient temperature	In normal operation, the ambient temperature range is between -5°C and +40°C, but average value in 24h is no more than +35°C; Storage temperature: -25°C~+55°C, a short time (24h) is allowed with maximum +70°C.
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°C, it is allowed to have a relative higher humidity under lower temperature e.g. up to 90% at +20°C. For occasional dew due to the temperature change, preventive measures shall be taken.
Protection grade	IP20

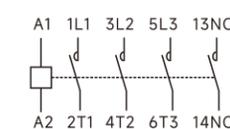
Main circuit characteristics	Contact Model	GLC1-09 (09Z)	GLC1-12 (12Z)	GLC1-18 (18Z)	GLC1-25 (25Z)	GLC1-32 (32Z)	GLC1-40 (40Z)	GLC1-50 (50Z)	GLC1-65 (65Z)	GLC1-80 (80Z)	GLC1-95 (95Z)
Rated insulation voltage (Ui)		690									
Conventional thermal current (Ith)		20	20	32	40	50	60	80	80	100	100
Rated operating current (Ie)	380V, AC-3	9	12	18	25	32	40	50	65	80	95
	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)	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		11	
		AC-4		22		17		11			
Operation frequency	Times/hour	AC-3			1200			600			300
		AC-4			300						

Main technical parameters

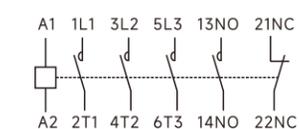
Contact Model	GLC1-09 (09Z)	GLC1-12 (12Z)	GLC1-18 (18Z)	GLC1-25 (25Z)	GLC1-32 (32Z)	GLC1-40 (40Z)	GLC1-50 (50Z)	GLC1-65 (65Z)	GLC1-80 (80Z)	GLC1-95 (95Z)
Main circuit terminal wiring capability (mm ²)										
Soft wire	1 wire	1...4	1...6	1.5...10	2.5...10	2.5...25	4...50			
Without terminal	2 wire	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	1.5...6	1.5...6	2.5...10	2.5...25	4...50			
Without terminal	2 wire	1...4	1.5...6	1.5...6	2.5...10	-	-			
Coil										
Rated control circuit voltage (Us)	AC 50/60Hz	24V/36V/110V/220V/380V								
	DC V	24V/110V/220V								
Allowable control circuit voltage (Us)	Operation V	85%~110%Us								
	Drop-out V	AC 20%~70% Us / DC 10%~70% Us								
Coil power	Actuation VA	70			110		200			
	Holding VA	<9		<9.5	<14	<36.6				
	Heat dissipation W	1.8~2.7			3~4		6~10			
Auxiliary contact										
Contact specification	10/01						11			
Conventional thermal current (Ith)										
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					
AC (50/60Hz)	B5	C5	F5	M5	Q5					
DC	BD	-	FD	MD	-					

Wiring Diagram

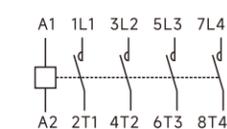
GLC1-09~32(Z)



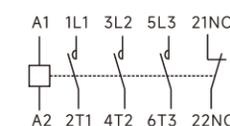
GLC1-40~95(Z)



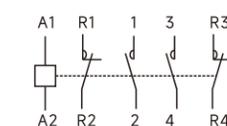
GLC1-09004~95004(Z)



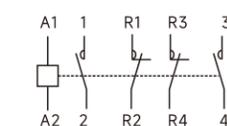
or



GLC1-40008~95008(Z)

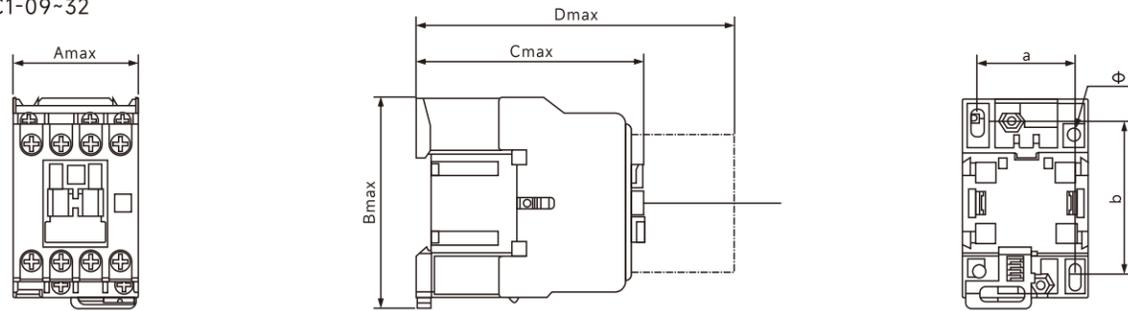


GLC1-09008~25008(Z)

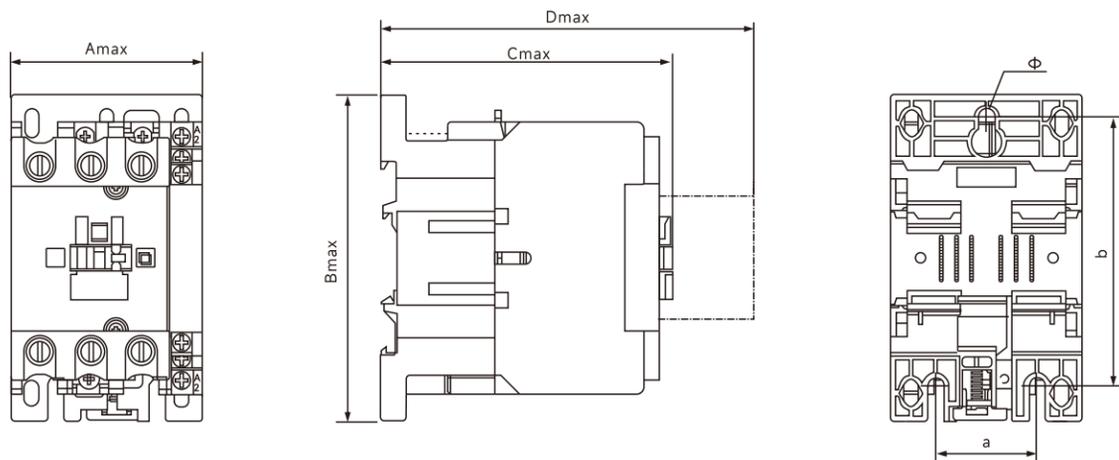


▶ Outline Overall And Installing Dimensions

GLC1-09~32



GLC1-40~95



Model(mm)	Amax	Bmax	Cmax	Dmax	a	b	φ
GLC1-09/12	47	76	86	124.5	35±0.5	50±0.5/60±0.6	4.5 ^{+0.48} ₀
GLC1-09/12Z	47	76	116	154.5	35±0.5	50±0.5/60±0.6	4.5 ^{+0.48} ₀
GLC1-18	47	76	91	129.5	35±0.5	50±0.5/60±0.6	4.5 ^{+0.48} ₀
GLC1-18Z	47	76	122	160.5	35±0.5	50±0.5/60±0.6	4.5 ^{+0.48} ₀
GLC1-25	58	86	98	136.5	40±0.5	50±0.5/60±0.6	4.5 ^{+0.48} ₀
GLC1-25Z	58	86	131	169.5	40±0.5	50±0.5/60±0.6	4.5 ^{+0.48} ₀
GLC1-32	58	86	102	140.5	40±0.5	50±0.5/60±0.6	4.5 ^{+0.48} ₀
GLC1-32Z	58	86	138	176.5	40±0.5	50±0.5/60±0.6	4.5 ^{+0.48} ₀
GLC1-40/50/65	79	128	119	157.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-40Z/50Z/65Z	79	128	172	210.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-40004/50004/65004	86	128	116	154.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-40004Z/50004Z/65004Z	86	128	172	210.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-40008/50008/65008	86	128	127	154.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-40008Z/50008Z/65008Z	86	128	183	210.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-80/95	87	128	127	165.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-80Z/95Z	87	128	183	221.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-80004/95004	98	128	124	162.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-80004Z/95004Z	98	128	180	218.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-80008/95008	98	128	136	162.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀
GLC1-80008Z/95008Z	98	128	192	218.5	40±0.5	100±0.7/110±0.7	6.5 ^{+0.58} ₀

▶ Motor power Pe

Motor power	Rated current Ie(A)	Auxiliary Contact		Reference
		NO	NC	
4	9	1	-	GLC10910
		-	1	GLC10901
		4	-	GLC109004
		2	2	GLC109008
5.5	12	1	-	GLC11210
		-	1	GLC11201
		4	-	GLC112004
		2	2	GLC112008
7.5	18	1	-	GLC11810
		-	1	GLC11801
11	25	1	-	GLC12510
		-	1	GLC12501
		4	-	GLC125004
		2	2	GLC125008
15	32	1	-	GLC13210
		-	1	GLC13201
18.5	40	1	1	GLC14011
		4	-	GLC140004
		2	2	GLC140008
22	50	1	1	GLC15011
		4	-	GLC150004
		2	2	GLC150008
30	65	1	1	GLC16511
		4	-	GLC165004
		2	2	GLC165008
37	80	1	1	GLC18011
		4	-	GLC180004
		2	2	GLC180008
45	95	1	1	GLC19511
		4	-	GLC195004
		2	2	GLC195008

GYHC
Contactors

GLC1
Contactors

GYC1
Contactors

GYC1M
Mini
Contactors

GYPV
DC Fuse
Holder

GYCM3
MCCB

G2R
ATS

GATS-GA
ATS

GATS-G
ATS

HGL
Isolation
Switches

GYW1
ACB

Note: The number of poles is not reflected in the model, 3-pole contactor represents the auxiliary contacts of 10, 01,11,4-pole contactor represents 004 or 08.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 GLC1 0910Z*



GYC1 Contactor

In circuit of Ac 50\60Hz, voltage up to 1000V, current up to 600A, controlling motors of different types. Control resistance, inductive, capacitive loads: heating, lighting, power compensation and transformer. Control distribution circuit, industrial distribution, green energy distribution. For harsh environment and frequent operations, quick operating coils are recommend.

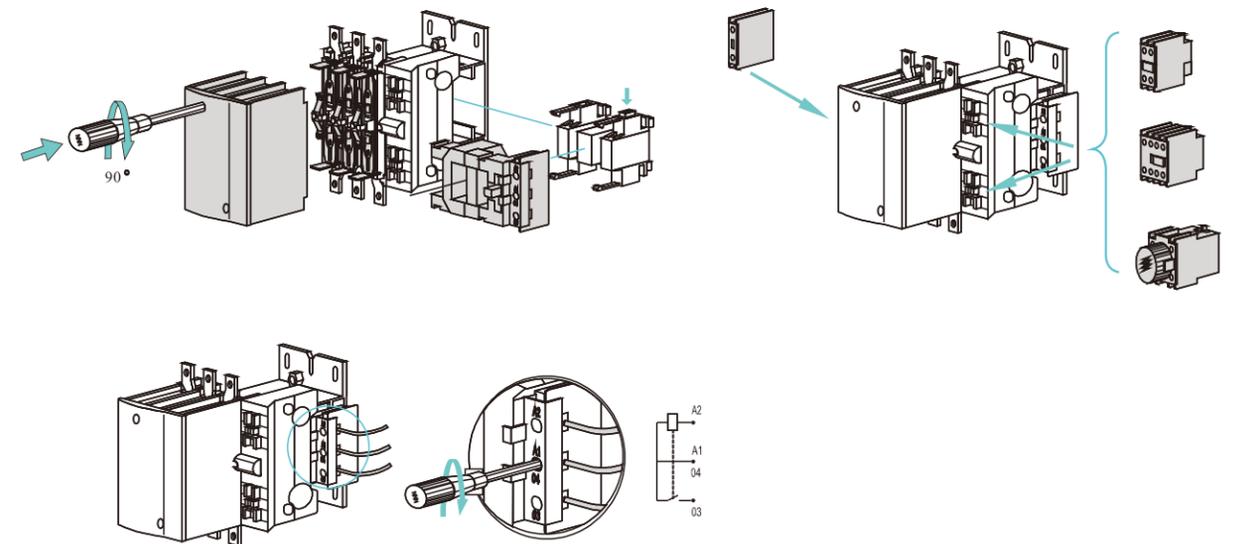
Technical Specification

Contactors		GYC1 115	GYC1 150	GYC1 185	GYC1 225	GYC1 265	GYC1 330	GYC1 400	GYC1 500	GYC1 630	GYC1 780	GYC1 800
Rated operational current A	le max AC-3(Ue≤440V)	115	150	185	225	265	330	400	500	630	780	800
	le max AC-1(θ≤40°C)	200	250	275	315	350	400	500	700	1000	1600	1000
Rated operational voltage V	max	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Number of contacts(N/O)		3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	2、3or4	2、3or4	2、3or4	2、3or4	2、3or4	3
Rated operational power KW AC-3 3、4poles	220/240V	30	40	55	63	75	100	129	147	200	220	220
	380/400V	55	75	90	100	132	160	200	250	335	400	400
	415V	59	80	100	110	140	180	220	280	375	425	425
	440V	59	80	100	110	140	180	220	280	375	425	425
	500V	75	90	110	129	160	200	257	335	400	450	450
	660/690V	80	100	120	129	180	220	280	335	450	475	475
	1000V	65	65	100	140	147	160	185	335	450	450	450
(SCPD) Short-circuit protection by fuse	Model	RT16-1	RT16-1	RT16-2	RT16-2	RT16-2	RT16-3	RT16-3	RT16-3	RT16-3	RT16-5	RT16-4
	Rated current	200	250	315	315	400	500	500	500	630	1600	800
Optional parts		Auxiliary contact blocks: ZTCF3					Air time delay auxiliary contacts: ZTCST、ZTCSS、ZTCSS					
Weight (Kg)		3.6	3.7	4.6	4.7	7.1	8.5	8.5	10.8	17.4	40.0	19.0
Product No.	3 pole	0000	0001	0002	0003	0004	0005	0006	0007	0008	0009	0010
	4 pole	0012	0013	0014	0015	0016	0017	0018	0019	0020	0021	
	2 pole						0025	0026	0027	0028	0029	

Main technical parameters

Contactors		GYC1 115	GYC1 150	GYC1 185	GYC1 225	GYC1 265	GYC1 330	GYC1 400	GYC1 500	GYC1 630	GYC1 780	GYC1 800	
Number of Poles		3/4or4	3/4or4	3/4or4	3/4or4	3 4/3 4	2 3 4/2 3 4	2 3 4/2 3 4	2 3 4/2 3 4	2 3 4/2 3 4	2 3 4/2 3 4	3	
Rated operational current (Ue≤400V)	In AC-3,θ≤55°C	A	115	150	185	225	265	330	400	500	630	780	800
	In AC-1,θ≤40°C	A	200	250	275	315	350	400	500	700	800	1600	1000
Rated operational voltage (Ue)	Max.	V	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	
Frequency limits	Frequency under operating current	Hz	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	16 ^{2/3} ...200	
	Conventional thermal current	θ≤40°C	A	200	250	275	315	350	400	500	700	900	1600
Making capacity	GB14048.4	A	Making current 10Xle(AC-3) or 12Xle(AC-4)										
Breaking capacity I rms	GB14048.4	A	Making and breaking current 8Xle(AC-3) or 10Xle(AC-4)										
Short time rating From cold state, no current in previous 60 minsθ≤40°C	10s	A	1100	1200	1500	1800	2200	2650	3600	4200	5050	6250	5500
	30s	A	640	700	920	1000	1230	1800	2400	3200	4400	5600	4600
	1min	A	520	600	740	850	950	1300	1700	2400	3400	4600	3600
	3min	A	400	450	500	560	620	900	1200	1500	2200	3000	2600
	10min	A	320	350	400	440	480	750	1000	1200	1600	2200	1700
Average impedance per pole	lth 50Hz	mΩ	0.37	0.35	0.33	0.32	0.3	0.28	0.26	0.18	0.12	0.10	0.12
Power dissipation per pole for the above operational currents	AC-3	W	5	8	12	16	21	30	42	45	48	60	77
	AC-1	W	15	22	25	32	37	45	65	88	77	250	120
Cablingθ≤55°C	The maximum cross-sectional area number of cables dimension of cables	mm ²	2	2	2	2	2	2	2	2	2	2	2
	Cable with tabs	mm ²	20x3	25x3	25x3	32x3	32x4	30x5	30x5	40x5	60x5	100x5	60x5
	Cables with connectors	mm ²	95	120	150	185	240	240	2*150	2*240	-	-	-
	Bolt diameter	mm	Φ6	Φ8	Φ8	Φ10	Φ10	Φ10	Φ10	Φ10	Φ12	Φ12	Φ12
Tightening torque	Cable connetion	N.m	10	18	18	35	35	35	35	35	58	58	58

Scheme



- GYHC Contactors
- GLC1 Contactors
- GYC1 Contactors
- GYC1M Mini Contactors
- GYPV DC Fuse Holder
- GYCM3 MCCB
- G2R ATS
- GATS-GA ATS
- GATS-G ATS
- HGL Isolation Switches
- GYW1 ACB



GYC2 Contactor

In circuit of Ac 50\60Hz, voltage up to 1000V, current up to 600A, controlling motors of different types. Control resistance, inductive, capacitive loads: heating, lighting, power compensation and transformer. Control distribution circuit, industrial distribution, green energy distribution. For harsh environment and frequent operations, quick operating coils are recommend.

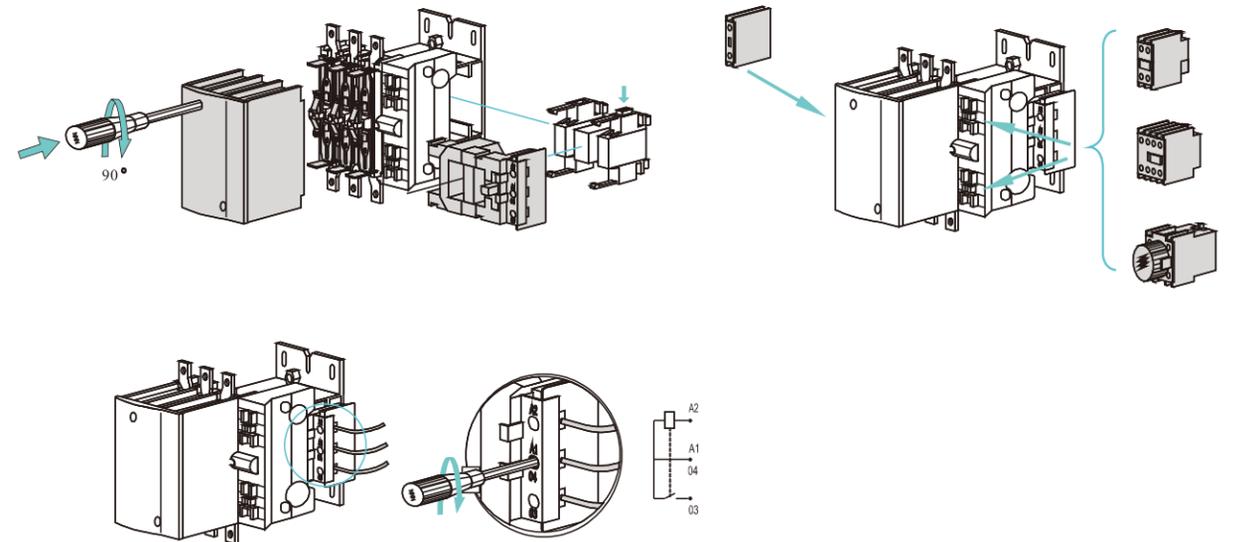
Technical Specification

Contactors		GYC2 115	GYC2 150	GYC2 170	GYC2 205	GYC2 245	GYC2 300	GYC2 410	GYC2 475	GYC2 620
Rated operational current A	le max AC-3(Ue≤440V)	115	150	170	205	245	300	410	475	620
	le max AC-1(θ≤40°C)	200	200	200	275	315	400	500	700	900
Rated operational voltage V	max	1000	1000	1000	1000	1000	1000	1000	1000	1000
Number of contacts(N/O)		3	3	3	3 or 4	2、3 or 4	2、3or4	2、3or4	2、3or4	2、3or4
Rated operational power KW AC-3 3、4poles	220/240V	30	40	55	63	75	100	129	147	200
	380/400V	55	75	90	100	132	160	200	250	335
	415V	59	80	100	110	140	180	220	280	375
	440V	59	80	100	110	140	180	220	280	375
	500V	75	90	110	129	160	200	257	335	400
	660/690V	80	100	110	140	180	220	280	355	450
(SCPD) Short-circuit protection by fuse	Model	RT16-1	RT16	RT16	RT16	RT16-3	RT16-3	RT16-3	RT16-3	RT16-3
	Rated current	125	160	180	250	250	400	500	500	630
Optional parts		Auxiliary contact blocks: ZTCF3 Air time delay auxiliary contacts: ZTCST、ZTCRS、ZTCSS Flip auxiliary contacts:ZTCF3D								
Weight (Kg)	3 pole	2.25	2.25	2.25	4.7	4.7	8.2	8.5	10.8	17.4
Product No.	4 pole	0050	0051	0052	0053	0054	0055	0056	0057	0058
	2 pole				0063	0064	0065	0066	0067	0068
						0070	0071	0072	0073	

Main technical parameters

Contactors		GYC2 115	GYC2 150	GYC2 170	GYC2 205	GYC2 245	GYC2 300	GYC2 410	GYC2 475	GYC2 620	
Number of Poles		3	3	3	3or4	3or4	3or4	2、3or4	2、3or4	2、3or4	
Rated operational current (Ue≤400V)	In AC-3,θ≤55°C	A 115	150	170	205	245	300	410	475	620	
	In AC-1,θ≤40°C	A 200	200	200	275	315	400	500	700	900	
Rated operational voltage (Ue)	Max.	V 1000	1000	1000	1000	1000	1000	1000	1000	1000	
Frequency limits	Frequency under operating current	Hz	25	25	25	16 ^{2/3}					
			...400	...400	...400	...200	...200	...200	...200	...200	
Conventional thermal current	θ≤40°C	A 200	200	200	275	315	400	500	700	900	
Making capacity	GB14048.4	A	Making current 10Xle(AC-3) or 12Xle(AC-4)								
Breaking capacity	GB14048.4	A	Making and breaking current 8Xle(AC-3) or 10Xle(AC-4)								
Short time rating From cold state, no current in previous 60 minsθ≤40°C	10s	A 950	1200	1200	1500	1800	2650	3600	4200	5050	
	30s	A 720	820	820	920	1000	1800	2400	3200	4400	
	1min	A 550	580	580	740	850	1300	1700	2400	3400	
	3min	A 340	350	350	500	560	900	1200	1500	2200	
	10min	A 200	250	250	400	440	750	1000	1200	1600	
Average impedance per pole	lth 50Hz	mΩ 0.6	0.6	0.6	0.32	0.3	0.28	0.24	0.2	0.12	
Power dissipation per pole for the above operational currents	AC-3	W 7.9	13.5	17.5	13.5	18	25	40	45	48	
	AC-1	W 24	24	24	26	32	44	70	98	120	
Cablingθ≤55°C	The maximum cross-sectional area number of cables dimension of cables	mm ² 2	2	2	2	2	2	2	2	2	
		18x3	18x3	18x3	25x3	30x4	30x5	30x5	40x5	60x5	
Operating voltage (θ≤55°C)	Cable with tabs	mm ² 120	120	120	150	185	240	2*150	2*240	-	
	Cables with connectors	mm ² 120	120	120	150	185	-	-	-	-	
	Bolt diameter	mm Φ8	Φ8	Φ8	Φ8	Φ10	Φ10	Φ10	Φ10	Φ12	
Tightening torque	Cable connetion	N.m 18	18	18	18	35	35	35	35	58	

Scheme



GYHC Contactors

GLC1 Contactors

GYC1 Contactors

GYC1M Mini Contactors

GYPV DC Fuse Holder

GYCM3 MCCB

G2R ATS

GATS-GA ATS

GATS-G ATS

HGL Isolation Switches

GYW1 ACB

GYC3 Permanent magnetic latching contactors

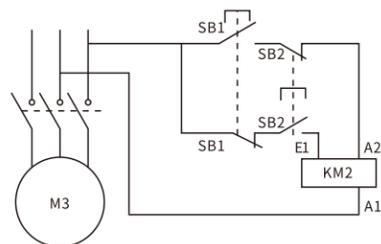
Permanent magnetic latching, power on in rush, power off sealed, power on release. For conditions require voltage shock prevention, energy saving, noise free and no-power sealed contactors.



Technical Specification

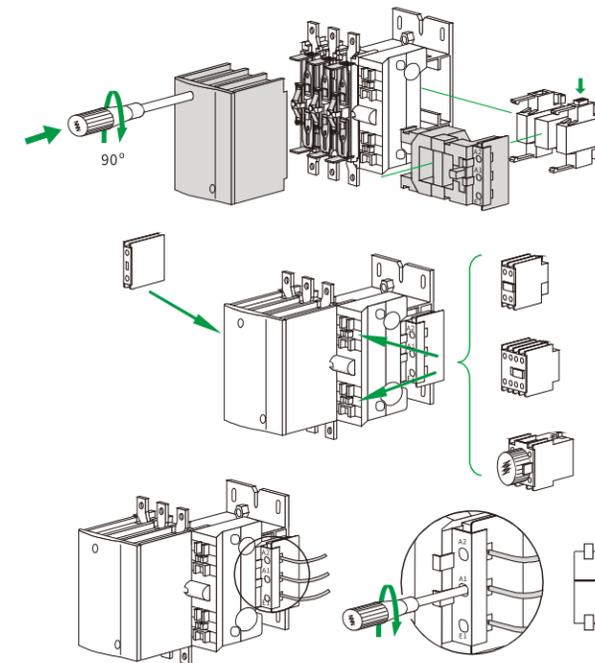
Contactors		GYC3 115	GYC3 150	GYC3 185	GYC3 225	GYC3 265	GYC3 330	GYC3 400	GYC3 500	GYC3 630
Rated operational current A	le AC3(Ue 380V)	115	150	185	225	265	330	400	500	630
	le AC1(Ue 380V)	200	250	275	315	350	400	500	700	900
Rated operational voltage V	max	1000	1000	1000	1000	1000	1000	1000	1000	1000
Number of contacts(N/O)		3 or 4	3 or 4	3 or 4	3 or 4	3 or 4	2、3or4	2、3or4	2、3or4	2、3or4
Rated operational power three-phase motors KW AC-3 50HZ	220/240V	30	40	55	63	75	100	110	147	200
	380/400V	55	75	90	100	132	160	200	250	335
	415V	59	80	100	110	140	180	220	280	375
	440V	59	80	100	110	140	180	220	280	375
	500V	75	90	110	129	160	200	257	335	400
	660/690V	80	100	120	140	180	220	280	355	450
(SCPD) Short-circuit protection by fuse type "2"	Model	RT16-2	RT16-2	RT16-3	RT16-3	RT16-3	RT16-4	RT16-4	RT16-4	RT16
	Rated current	200	250	315	315	400	500	500	500	630
Optional parts		Instantaneous contact: ZTCF3, delay contact: ZTCST, ZTCSSR Instantaneous auxiliary contact: ZTCF3. Time delay auxiliary contact:ZTCST、ZTCSSR								
Weight (Kg)		3.6	3.7	4.6	4.7	7.1	8.4	8.5	10.8	17.4
Product No.	3 pole	0100	0101	0102	0103	0104	0105	0106	0107	0108
	4 pole	0109	0110	0111	0112	0113	0114	0115	0116	0117
	2 pole						0118	0119	0120	0121

Wiring diagram



Sb1 is the contactor suction control button
SB2 is the contactor release control button

Scheme



GYHC
Contactors

GLC1
Contactors

GYC1
Contactors

GYC1M
Mini
Contactors

GYPV
DC Fuse
Holder

GYCM3
MCCB

G2R
ATS

GATS-GA
ATS

GATS-G
ATS

HGL
Isolation
Switches

GYW1
ACB



GYC1M Mini Contactor

- Small volume, large capacity, high aesthetic value
- High reliability, tested according to vibration resistance standards
- Electrical performance, brass static plates and coil connectors
- Complete accessories and convenient selection

Product model and definition

GY	C	1	-	06	M	10	Z	N	24V	50
Enterprise code	AC contactor	Design serial number	Contact type: 10: 1NO 01: 1NC 03: Main contact 3NC 04: Main contact 4NO 08: Main contact 2NO+2NC	Mini	Rated current: 06A/09A/ 12A/16A	Z: DC	Interlocking reversible products Omit not written, single product Omitting: Communication	Coil voltage: AC:24V/36V/48V/ 110V/125V/220V/ 380V/400V/415V DC:12V/24V/36V/ 48V/110V/127V/ 220V/240	Frequency: 50Hz、 50/60Hz	

Product features

- ✓ AC contactor: 6-16A, with a total of 4 current specifications
- ✓ Certification: CCC, CQC, CE, CB
- ✓ Attachment: LA-KN Top Auxiliary Contact and Chain
- ✓ Compliant with standards: IEC60947-160947-4-1, GB14048.4, GB14048.1

Capacity reduction coefficient for high-altitude environments

Altitude (m)	2000	3000	4000
Rated operating voltage Ui	1	0.9	0.8
Rated operating current Ie	1	0.92	0.9

Temperature reduction coefficient in abnormal working environment

Environmental temperature (°C)	40	50	60	70
correction factor	1	0.875	0.75	0.625

Main circuit wiring/Control circuit connection

Flexible wire without wiring terminals		mm ²	1x0.75-2x4
Flexible wire with wiring terminals		mm ²	1x0.34-1x1.5+1x2.5
Hard wire without wiring terminals		mm ²	1x1.5-2x4
Tool	Cross screwdriver		Ph2
	Flat headed screwdriver		Ø6
Tightening torque		N.m	1.2

Product features

Contactor model			GYC1-06M	GYC1-09M	GYC1-12M	GYC1-16M
Number of poles			3P/4P	3P/4P	3P/4P	3P/4P
Rated working current (Ie) AC-3	220/230V	A	6	9	12	16
	380/400V	A	6	9	12	16
	660/690V	A	3.8	4.9	4.9	4.9
Rated working current (Ie) AC-4	220/230V	A	2.6	3.5	5	5
	380/400V	A	2.6	3.5	5	5
	660/690V	A	1	1.5	2	2
Rated working voltage (Ue)		V	220V/230V、380V/400V、660V/690V			
Rated working power (Pe) AC-3	220/230V	kW	1.5	2.2	3	4
	380/400V	kW	2.2	4	5.5	7.5
	660/690V	kW	3	4	4	4
Rated working power (Pe) AC-4	220/230V	kW	0.55	0.75	1.1	1.1
	380/400V	kW	1.1	1.5	2.2	2.2
	660/690V	kW	0.75	1.1	1.5	1.5
Agreed heating current (Ith)	θ≤40°C	A	20			
Rated making capacity (380V)	Complies with IEC60947		10xIe (AC-3 usage category); 12xIe (AC-4 usage category)			
Rated breaking capacity (380V)	GB14048 standard		8xIe (AC-3 usage category); 10xIe (AC-4 usage category)			
Short time withstand current	10s	A	80	80	100	100
Short circuit protection	No thermal overload relay fuse gG		25			
Electrical lifespan (380V)	AC-3	10000 times	120			
	AC-4	10000 times	2			
Built in auxiliary contact module			The contactor is equipped with one normally open or normally closed contact			
Current suppressor module			Can be equipped with built-in resistance and capacitance circuits			
Applicable manual overload relay		A	0.11-16			

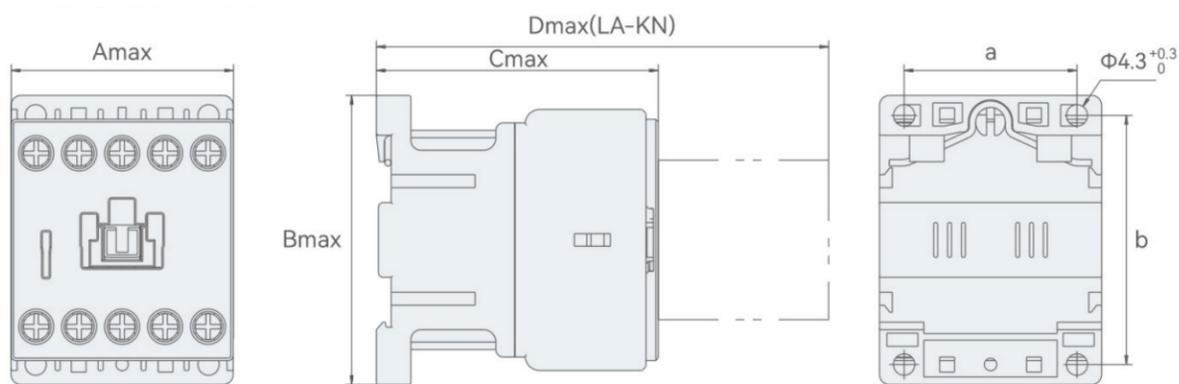
work environment

Rated insulation voltage (Ui)			690
Rated impulse withstand voltage (Uimp)			6
Pollution level			2
Compliant with standards			IEC 60947-1, 60947-4-1, GB14048.4, GB14048.1
Product certificate			CCC、CQC、CE、CB
Protection level			Ip20
Ambient temperature	Storage	°C	-50~+80
	Work	°C	-40~+70
	Allow to work under Us	°C	-40~+70
Vibration resistance	Contactor disconnected		8gn
	Contactor closed		10gn
Maximum working altitude	No capacity reduction	m	2000
Work location	No capacity reduction		Allow for a 22.5 ° angle with the normal vertical installation surface
Installation category is Class III			
Flame retardant performance	Complies with IEC60695-2-1 standard	°C	V0 rating for shell and base

▶ Characteristics of AC control circuit

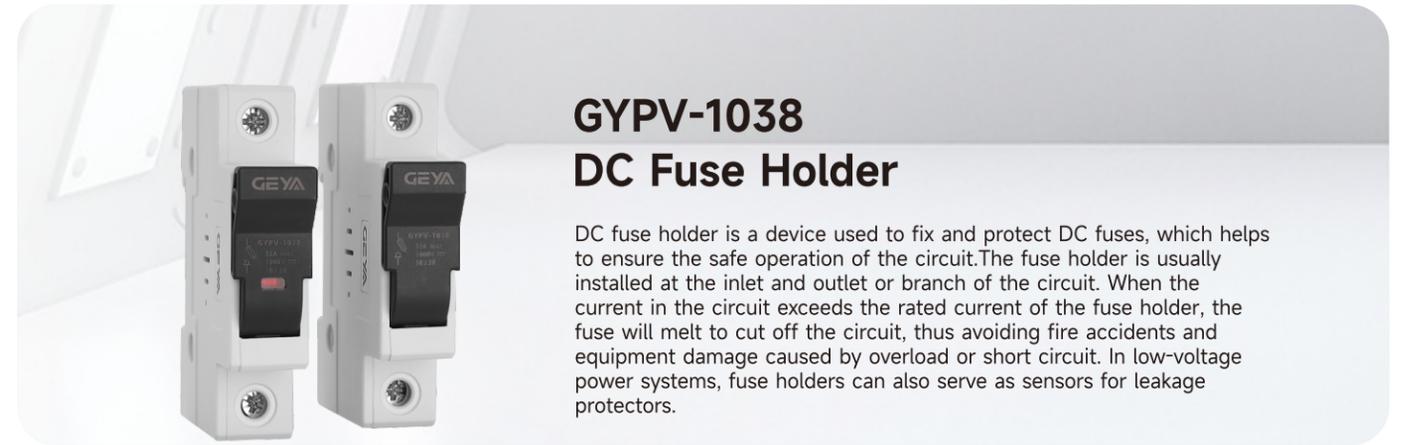
Rated control circuit voltage (Us)	50Hz、50/60Hz	V	AC24V、AC36V、AC48V、AC110V、AC127V、AC220V、AC380V、AC400V、AC415
	DC	V	VDC12V、DC24V、DC36V、DC48V、DC110V、DC125V、DC220V、DC240V
Rated control limit	Suction	V	85%~110%Us
	release	V	AC 20%~70%Us;DC10%~70%Us
Average power consumption	start	VA	40
	release	VA	7
	Average power consumption	W	3~4
Heat loss		W	1.3
Action time	Close "C"	ms	5~15
	Open "O"	ms	10~20
Mechanical lifespan	10000 times		1200
Maximum operating frequency	Number of operations per hour (≤40°C)		3600

▶ Appearance and installation dimensions



GYC1M-16M外形及安装尺寸(mm)

Model specifications	Amax	Bmax	Cmax	Dmax	a	b
06M-16M	45.5	58.5	57.5	92	35	50
06MZ-16MZ	45.5	58.5	70	104	35	50



**GYPV-1038
DC Fuse Holder**

DC fuse holder is a device used to fix and protect DC fuses, which helps to ensure the safe operation of the circuit. The fuse holder is usually installed at the inlet and outlet or branch of the circuit. When the current in the circuit exceeds the rated current of the fuse holder, the fuse will melt to cut off the circuit, thus avoiding fire accidents and equipment damage caused by overload or short circuit. In low-voltage power systems, fuse holders can also serve as sensors for leakage protectors.

▶ Function and performance parameters

Model	GYPV-1038	installation environment	
Executive standards	IEC60947-3、GB/T14048.3	Molten core specification	10*38mm <IEC/EN60269-6 >
Usage category	DC-20B	Installation method	DIN rail <IEC/EN60715>
		Working temperature range	-20 °C to +70 °C
		Pollution level	3
		Relative humidity	+20 °C ≤ 95%, +40 °C ≤ 50%
		Installation level	III

Electrical characteristics	
Rated voltage	1000V.DC
Rated current	32A max
Maximum power consumption	6W

Connection and installation	
Connection and installation wire	1.5-10mm ²
Terminal screw	M5
Torque	≥3Nm
Protection level	IP20

▶ Product structural parameters

Shell material	PBT plastic	
Metal material	Purple copper T1 (silver plated)	
External dimensions <L * W * H>	89mm * 18mm * 68mm	GYCM3 MCCB
Trademark and font craftsmanship	Laser marking	
colour	Grey white/Grey black	
Net weight	61g/62g (with lamp)	G2R ATS

▶ Packaging parameters

Packaging data	Size<cm>	Packing quantity<Pcs>	Gross weight GW<Kg>	Remarks
Middle box	18.7*9.1*7.4	10	0.64/0.65 (with lights)	Neutral+Mark
Outer box	39*39*20	200	13.36/13.56 (with lights)	Neutral+Mark



GYCM8 Molded Case Circuit Breaker

- Low temperature rise
- Small volume
- Integrated
- Adopting a multi blade design
- Equipped with thermal magnetic protection function

▶ Product model and definition

GYCM8 -	160	M	P1	/
Product code	Optional code for shell level current:	Short circuit breaking capacity optional code:	Optional operation code:	
Moulded case circuit breaker	125 160 250 400 630 800 1250 2000	C: Basic type S: Standard type M: Higher breaking type H: High breaking type Note: 400、630、800、1250、2000A only available for M and H types	No code: direct operation P1: DC3 electric operation P2: DC6 series electric operation ZY1: Rotating handle (manual center type - circular handle) ZF1: Rotating handle (manual center type - square handle) ZY2: Rotating handle (hand operated eccentric circular handle) ZF2: Rotating handle (manual eccentric square handle) Z3: Rotating handle (hand operated integrated)	

4	3	00	2	2
Pole number :	Optional code for release method:	Internal accessory optional code:	Usage code:	Quadrupole product optional code:
1 : 1pole 2 : 2pole 3 : 3pole 4 : 4pole	2: Only electromagnetic release 3: Thermal+electromagnetic release		No code: for distribution protection 2: For motor protection	A: The N-pole is not equipped with an overcurrent release, and the N-pole is always connected B: The N-pole is not equipped with an overcurrent release, and the N-pole is opened and closed together with the other three poles C: Install an overcurrent release on the N-pole, and the N-pole will be combined and disconnected with the other three poles D: Install an overcurrent release on the N-pole and ensure that the N-pole is always connected

1	/ P	Z	In=100A
Additional function code:	Optional installation and wiring method code:	Protective accessory code:	Rated current:
No code: regular product V: Low temperature upgrade 50K VI: Low temperature upgrade 40K	No code: Board front wiring (fixed type) P: Connection bar (extended copper bar) Z1: Rear board wiring (fixed type) Z2Q: Plug in front wiring (split type) Z2H: Plug in board rear wiring (split type) Z3Q: Plug in front wiring (integrated) Z3H: Plug in board rear wiring (integrated) DF: withdrawable front panel wiring DR: Pull out board rear wiring K: Wiring box type JK: Incoming end only: Wiring box type CK: Outgoing terminal only: Wiring box type	No code: regular product Z: Terminal cover Note:The terminal cover only has three poles; 400, 630 points narrow length, wide length, default to wide length; 125, 2000, currently unavailable	125: 10A、16A、20A、25A、32A、40A、50A、63A、80A、100A、125A 160: 16A、20A、25A、32A、40A、50A、63A、80A、100A、125A、160A 250: 100A、125A、160A、180A、200A、225A、250A 400: 250A、315A、350A、400A 630: 400A、500A、630A 800: 500A、630A、700A、800A 1250: 800A、1000A、1250A 2000 : 1000A、1250A、1500A、2000A

▶ External attachments

Molded case circuit breaker:	GYCM8-125				GYCM8-160			GYCM8-250		GYCM8-400	
Number of poles	1P	2P	3P	4P	2P	3P	4P	3P	4P	3P	4P
GYCM8	Electric operation	-	-	■	■	-	■	■	■	■	■
	Hand operation	-	-	■	■	-	■	■	■	■	■
External	Expansion copper bar	■	■	■	■	■	■	■	■	■	■
	Mechanical interlocking	-	-	■	■	-	■	■	■	■	■
Accessories:	Insert type front split type	-	-	■	■	-	■	■	■	■	■
	Insert type front integrated panel	-	-	■	■	-	■	■	■	■	■
	Insert type front fixed type	-	-	■	■	-	■	■	■	■	■
	Insert type rear split type	-	-	■	■	-	■	■	■	■	■
	Insert type rear integrated board	-	-	■	■	-	■	■	■	■	■
	Insert type rear fixed type	-	-	■	■	-	■	■	■	■	■
After the pull-out board	-	-	-	-	-	-	-	-	-	■	-

Molded case circuit breaker:	GYCM8-630		GYCM8-800		GYCM8-1250		GYCM8-2000	
Number of poles	3P	4P	3P	4P	3P	4P	3P	4P
GYCM8	Electric operation	■	■	■	■	■	■	■
	Hand operation	■	■	■	■	■	■	■
External	Expansion copper bar	■	■	■	■	■	■	■
	Mechanical interlocking	■	■	■	■	-	-	-
Accessories:	Insert type front split type	■	■	■	■	-	-	-
	Insert type front integrated panel	■	■	■	■	-	-	-
	Insert type front fixed type	■	■	■	■	-	-	-
	Insert type rear split type	■	■	■	■	-	-	-
	Insert type rear integrated board	■	■	■	■	-	-	-
	Insert type rear fixed type	■	■	■	■	-	-	-
After the pull-out board	■	-	■	-	-	-	-	

GYHC
Contactors

GLC1
Contactors

GYC1
Contactors

GYC1M
Mini
Contactors

GYPV
DC Fuse
Holder

GYCM8
MCCB

G2R
ATS

GATS-GA
ATS

GATS-G
ATS

HGL
Isolation
Switches

GYW1
ACB

Main performance indicators

Molded case circuit breaker	GYCM8-125				GYCM8-160				
	Shell level current In: 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A								
Short circuit breaking capacity code:	C	S	M	H	C	S	M	H	
Number of poles:	1P; 2P; 3P; 4P				2P (无M/H); 3P; 4P				
Rated working voltage Ue (V), AC:	AC230V AC400V AC690V	AC230V AC400V AC690V	AC230V(1P); AC400V(2P/3P/4P)	AC230V(1P); AC400V(2P/3P/4P)	AC230V AC400V AC690V	AC230V; AC400V; AC690V	AC230V AC400V AC690V	AC230V AC400V AC690V	
Rated insulation voltage Ui (V):	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	
Rated impulse withstand voltage Uimp (kV):	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	
Rated operating short-circuit segmentation capacity Ics(%Icu):	AC230V:	5kA	15kA	35kA (3P/4P)	50kA	7kA	10kA	25kA	35kA
	AC400V:	5kA	13kA(3P/4P)	18kA(2P/3P/4P)	50kA	10kA	13kA;	18kA	35kA (2P) 50kA (3P/4P)
	AC690V:	3kA	3kA(3P/4P)	5kA(3p/4P)	8kA	2kA	3kA	5kA	10kA
Rated ultimate short-circuit segmentation capacity Icu (kA) :	AC230V:	8kA	30kA	36kA (1P) 50kA (3P/4P)	50kA	10kA	20kA	30kA	50kA
	AC400V:	8kA	25kA(3p/4P)	36kA(2P/3P/4P)	50kA	15kA	25kA	36kA	50kA
	AC690V:	5kA	6kA(3p/4P)	10kA(3p/4P)	15kA	8kA	6kA	10kA	15kA
Selective categories:	Class A								
Type of overcurrent release:	Thermomagnetic type								
GYCM8 External dimensions (mm)width (W)*Length (L)*height(H)	Shell level current	GYCM8-125				GYCM8-160			
	poles Number	1P	2P	3P	4P	2P	3P	4P	
	wide	25	50	75	100	60	90	120	
	length	130	130	130	130	155	155	155	
	height/Face cover	68	68	68	68	68/82	68/82	68/82	
height/Handle	94.5	94.5	94.5	94.5	94/108	94/108	94/108		

Note: The height from the bottom of the base to the (cover/handle)

Main performance indicators

Molded case circuit breaker	GYCM8-250				GYCM8-400			GYCM8-630		
	Shell level current In: 100A,125A,140A,160A,180A,200A,225A,250A 250A、315A、350A、400A 500A、630A									
Short circuit breaking capacity code:	C	S	M	H	S	M	H	M	H	
Number of poles:	3P; 4P				3P; 4P			3P; 4P		
Rated working voltage Ue (V), AC:	AC230V AC400V AC690V	AC230V; AC400V; AC690V	AC230V AC400V AC690V							
Rated insulation voltage Ui (V):	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	
Rated impulse withstand voltage Uimp (kV):	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	
Rated operating short-circuit segmentation capacity Ics(%Icu):	AC230V:	20kA	25kA	40kA	50kA	25kA	40kA	50kA	30kA	
	AC400V:	10kA	15kA	35kA	50kA	15kA	35kA	65kA	65kA	
	AC690V:	3kA	4kA	10kA	15kA	4kA	10kA	12kA	30kA	
Rated ultimate short-circuit segmentation capacity Icu (kA) :	AC230V:	30kA	50kA	65kA	70kA	50kA	65kA	70kA	30kA	
	AC400V:	15kA	30kA	50kA	65kA	30kA	50kA	65kA	50kA	
	AC690V:	5kA	8kA	15kA	20kA	8kA	20kA	25kA	10kA	
Selective categories:	Class A									
Type of overcurrent release:	Thermomagnetic type									
GYCM8 External dimensions (mm)width (W)*Length (L)*height(H)	Shell level current	GYCM8-250				GYCM8-400			GYCM8-630	
	poles Number	3P	4P	3P	4P	3P	4P	3P	4P	
	wide	105	140	140	184	140	184	140	184	
	length	165	165	257	257	257	257	257	257	
	height/Face cover	68	88	68	88	103	103	103	103	
height/Handle	96	116	96	116	152	152	152	152		

Note: The height from the bottom of the base to the (cover/handle)

Main performance indicators

Molded case circuit breaker	GYCM8-800		GYCM8-1250				GYCM8-2000	
Shell level current In:	500A、630A、700A、800A		630A、700A、800A、1000A、1250A				1000A、1250A、1600A、2000A	
Short circuit breaking capacity code:	M	H	S	M	H	M	H	
Number of poles:	3P; 4P		3P; 4P				3P; 4P	
Rated working voltage Ue (V), AC:	AC230V AC400V AC690V	AC230V AC400V AC690V	AC240V; AC400V; C690V	AC230V AC400V AC690V	AC230V AC400V AC690V	AC400V AC690V	AC690V AC400V	
Rated insulation voltage Ui (V):	1000V	1000V	1000V	1000V	1000V	1000V	1000V	
Rated impulse withstand voltage Uimp (kV):	8kV	8kV	8kV	8kV	8kV	8kV	8kV	
Rated operating short-circuit segmentation capacity Ics(%Icu):	AC230V:	65kA	70kA	40kA	65kA	70kA	-	-
	AC400V:	50kA	65kA	35kA	50kA	65kA	50kA	85kA
	AC690V:	15kA	20kA	10kA	15kA	20kA	20kA	20kA
Rated ultimate short-circuit segmentation capacity Icu (kA) :	AC230V:	80kA	85kA	65kA	80kA	85kA	-	-
	AC400V:	65kA	85kA	50kA	65kA	85kA	50kA	100kA
	AC690V:	25kA	35kA	20kA	25kA	35kA	20kA	20kA
Selective categories:	Class A							
Type of overcurrent release:	Thermomagnetic type							
Shell level current	GYCM8-800		GYCM8-1250				GYCM8-2000	
	poles Number	3P	4P	3P	4P	3P	4P	
GYCM8 External dimensions (mm)width (W)*Length (L)*height(H)	wide	210	280	210	280	210	280	
	length	275.5	275.5	275.5	275.5	340	340	
height/Face cover	103	103	103	103	141	141		
height/Handle	152	152	152	152	244	244		

Note: The height from the bottom of the base to the (cover/handle)

The inner accessories code

Left side installation Handle Right side installation

- Alarm contact
- Undervoltage release
- Single auxiliary contact (one set of conversion)
- Shunt release (mechanical)
- ▣ Dual auxiliary contacts (two sets of conversions)

Note 1:
Code 50: 125, 160 require customized left undervoltage; 250 requires customized left shunt, with optional range of shunt and undervoltage voltage: DC24V, DC110V, DC220V, AC230V, AC400V; Conventional production is AC230V.

Code	model Name	GYCM8-125		GYCM8-160			GYCM8-250		GYCM8-400/630		GYCM8-800/1250/2000	
		poles number	2P	3P	4P	2P	3P	4P	3P	4P	3P	4P
00	nothing	—	—	—	—	—	—	—	—	—	—	—
08	Alarm contact	—	□	□	—	□	□	□	□	□	□	□
10	Shunt release	□	□	□	□	□	□	□	□	□	□	□
18	Shunt release+ alarm contact	—	□	□	—	□	□	□	□	□	□	□
20	Single auxiliary contact	□	□	□	□	□	□	□	□	□	□	□
27	Dual auxiliary contacts	□	□	□	□	□	□	□	□	□	□	□
28	Single auxiliary contact+ alarm contact	—	□	□	—	□	□	□	□	□	□	□
29	Dual auxiliary contacts+ alarm contacts	—	□	□	—	□	□	□	□	□	□	□
30	Undervoltage release	□	□	□	□	□	□	□	□	□	□	□
38	Undervoltage release+ alarm contact	—	□	□	—	□	□	□	□	□	□	□
40	Shunt release+single auxiliary contact	—	□	□	—	□	□	□	□	□	□	□
41	Shunt release+dual auxiliary contacts	—	□	□	—	□	□	□	□	□	□	□
48	Shunt release+auxiliary alarm contact	—	□	□	—	□	□	□	□	□	□	□
50	Shunt release+ undervoltage release	—	□	□	—	□	□	□	□	□	□	□
60	Two sets of single auxiliary contacts	—	□	□	—	□	□	□	□	□	□	□
61	Single auxiliary contact+ double auxiliary contact	—	□	□	—	□	□	□	□	□	□	□
62	Two sets of double auxiliary contacts	—	□	□	—	□	□	□	□	□	□	□
68	Single auxiliary contact+ auxiliary alarm contact	—	□	□	—	□	□	□	□	□	□	□
69	Dual auxiliary contacts+ auxiliary alarm contacts	—	□	□	—	□	□	□	□	□	□	□
70	Undervoltage release+ single auxiliary contact	—	□	□	—	□	□	□	□	□	□	□
71	Undervoltage release+ dual auxiliary contacts	—	□	□	—	□	□	□	□	□	□	□
78	Undervoltage release+ auxiliary alarm contact	—	□	□	—	□	□	□	□	□	□	□

GYHC Contactors
GLC1 Contactors
GYC1 Contactors
GYC1M Mini Contactors
GYPV DC Fuse Holder
GYCM8 MCCB
G2R ATS
GATS-GA ATS
GATS-G ATS
HGL Isolation Switches
GYW1 ACB



GYCM8RT series thermomagnetic dualadjustable plastic case circuit breaker

- Low temperature rise
- Small volume
- With thermal adjustable 0.8-1.0 In
- Magnetic adjustable 5-10In protection function
- Adopting a multi contact structure design

Product model and definition

GYCM8RT-	160	M	P1	/
Product code:	Shell level current Optional code:	Optional code for short-circuit breaking capacity:	Optional operation code:	
GYCM8RT series thermal magnetic double adjustable molded case circuit breaker	125 160 250 400 630 800 1250 2000 Note: 125Only GYCM8RT/A has	C: Basic type S: Standard type M: Higher breaking type H: High breaking type Note:Conventional production is M-type;400, 630, 800,1250 and 2000 only have M and H types	No code: direct operation P1: DC3 electric operation (market standard) P2: DC6 series electric operation (as shown in the picture) ZY1: Rotating handle (manual center type - circular handle)-(Preferred for regular factory use) ZF1: Rotating handle (manual center type - square handle) ZY2: Rotating handle (hand operated eccentric circular handle) Zf2: Rotating handle (manual eccentric square handle) Z3: Rotating handle (hand operated integrated) (Only available in 160 and 250) Note:The electric operating voltage is divided into DC24, DC110V、DC220V, AC230V, AC400V; Conventional production is AC230V	

4	3	0	B
Pole number:	Optional code for release method:	Internal accessory optional code:	Quadrupole product optional code:
3 : 3pole 4 : 4pole	3: Thermal+electromagnetic release		A: The N-pole is not equipped with an overcurrent release, and the N-pole is always connected B: The N-pole is not equipped with an overcurrent release, and the N-pole is opened and closed together with the other three poles C: Install an overcurrent release on the N-pole, and the N-pole will be combined and disconnected with the other three poles D: Install an overcurrent release on the N-pole and ensure that the N-pole is always connected

P	Z	In=100A
Optional installation and wiring method code:	Protective accessory code:	Rated current:
No code: Board front wiring (fixed type) P: Connection bar (extended copper bar) Z1: Rear board wiring (fixed type) Z2Q: Plug in front wiring (split type) Z2H: Plug in board rear wiring (split type) Z3Q: Plug in front wiring (integrated) Z3H: Plug in board rear wiring (integrated) DF: withdrawable front panel wiring DR: Pull out board rear wiring Note: 160 and 250 have no withdrawable type; 1250 and 2000 only have connecting bars	No code: regular product Z: Terminal cover	125:20A、25A、32A、40A、50A、63A、80A、100A、125A 160 : 25A、32A、40A、50A、63A、80A、100A、125A、160A 250 : 160A、180A、200A、225A、250A 400 : 315A、350A、400A 630 : 500A、630A 800 : 630A、800A 1250 : 1000A、1250A 2000:1600A

External attachments

Molded case circuit breaker:	GYCM8RT/A-125	GYCM8RT-160	GYCM8RT-250	GYCM8RT-400						
Number of poles	3P	4P	3P	4P	3P	4P	3P	4P		
GYCM8RT External Accessories:	Electric operation	■	■	■	■	■	■	■	■	GYHC Contactors
	Hand operation	■	■	■	■	■	■	■	■	GLC1 Contactors
	Expansion copper bar	■	■	■	■	■	■	■	■	
	Mechanical interlocking	■	■	■	■	■	■	■	■	GYC1 Contactors
	Insert type front split type	■	■	■	■	■	■	■	■	
	Insert type front integrated panel	■	■	■	■	■	■	■	■	GYC1M Mini Contactors
	Insert type front fixed type	■	■	■	■	■	■	■	■	
	Insert type rear split type	■	■	■	■	■	■	■	■	GYPV DC Fuse Holder
	Insert type rear integrated board	■	■	■	■	■	■	■	■	
	Insert type rear fixed type	■	■	■	■	■	■	■	■	GYCM8 MCCB
After the pull-out board	-	-	-	-	-	-	-	-		

Molded case circuit breaker:	GYCM8RT-630	GYCM8RT-800	GYCM8RT-1250	GYCM8RT-2000						
Number of poles	3P	4P	3P	4P	3P	4P	3P	4P		
GYCM8RT External Accessories:	Electric operation	■	■	■	■	■	■	■	■	G2R ATS
	Hand operation	■	■	■	■	■	■	■	■	
	Expansion copper bar	■	■	■	■	■	■	■	■	GATS-GA ATS
	Mechanical interlocking	■	■	■	■	-	-	-	-	
	Insert type front split type	■	■	■	■	-	-	-	-	GATS-G ATS
	Insert type front integrated panel	■	■	■	■	-	-	-	-	
	Insert type front fixed type	■	■	■	■	-	-	-	-	HGL Isolation Switches
	Insert type rear split type	■	■	■	■	-	-	-	-	
	Insert type rear integrated board	■	■	■	■	-	-	-	-	GYW1 ACB
	Insert type rear fixed type	■	■	■	■	-	-	-	-	
After the pull-out board	■	-	■	-	-	-	-	-		

Main performance indicators

Molded case circuit breaker	GYCM8RT/A-125				GYCM8RT-160				GYCM8RT-250			
Shell level current In:	16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A,				25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A, 140A, 160A				100A, 125A, 140A, 160A, 180A, 200A, 225A, 250A			
Short circuit breaking capacity code:	C	S	M	H	C	S	M	H	C	S	M	H
Number of poles:	3P; 4P				3P; 4P				3P; 4P			
Rated working voltage Ue (V), AC:	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V
Rated insulation voltage Ui (V):	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Rated impulse withstand voltage Uimp (kV):	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV
Rated operating short-circuit segmentation capacity Ics(%Icu):	AC400V	5kA	10kA	18kA	50kA	5kA	10kA	10kA	50kA	5kA	8kA	10kA
Rated ultimate short-circuit segmentation capacity Icu (kA) :	AC400V	10kA	20kA	36kA	50kA	8kA	20kA	20kA	50kA	8kA	15kA	20kA

Selective categories: **Class A**

Type of overcurrent release:	Thermomagnetic type											
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GYCM8RT External dimensions (mm)width (W)*Length (L)*height(H)	Shell level current poles Number	GYCM8RT/A-125		GYCM8RT-160		GYCM8RT-250	
		3P	4P	3P	4P	3P	4P
wide		75	100	90	120	105	140
length		130	130	155	155	165	165
height/Face cover		68	68	68	82	68	88
height/Handle		94.5	94.5	94	108	94	116

Note: The height from the bottom of the base to the (cover/handle)

Main performance indicators

Molded case circuit breaker	GYCM8RT-40		GYCM8RT-630		GYCM8RT-800		GYCM8RT-1250		GYCM8RT-2000	
Shell level current In:	320A, 350A, 400A		400A, 500A, 630A;		630A, 700A, 800A		1000A, 1250A		1600A	
Short circuit breaking capacity code:	M	H	M	H	M	H	M	H	M	H
Number of poles:	3P; 4P		3P; 4P		3P; 4P		3P; 4P		3P; 4P	
Rated working voltage Ue (V), AC:	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V
Rated insulation voltage Ui (V):	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V
Rated impulse withstand voltage Uimp (kV):	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV
Rated operating short-circuit segmentation capacity Ics(%Icu):	AC400V	50kA	50kA	50kA	50kA	50kA	65kA	50kA	65kA	50kA
Rated ultimate short-circuit segmentation capacity Icu (kA) :	AC400V	50kA	50kA	50kA	50kA	50kA	65kA	85kA	65kA	85kA

Selective categories: **Class A**

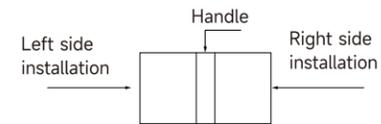
Type of overcurrent release:	Thermomagnetic type									
------------------------------	---------------------	--	--	--	--	--	--	--	--	--

GYCM8RT External dimensions (mm)width (W)*Length (L)*height(H)	Shell level current poles Number	GYCM8RT-400		GYCM8RT-630		GYCM8RT-800		GYCM8RT-1250		GYCM8RT-2000	
		3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
wide		140	184	140	184	210	280	210	280	210	280
length		257	257	257	257	275.5	275.5	275.5	275.5	340	340
height/Face cover		103	103	103	103	103	103	103	103	141	141
height/Handle		152	152	152	152	152	152	152	152	244	244

Note: The height from the bottom of the base to the (cover/handle)

- GYHC Contactors
- GLC1 Contactors
- GYC1 Contactors
- GYC1M Mini Contactors
- GYPV DC Fuse Holder
- GYCM8 MCCB**
- G2R ATS
- GATS-GA ATS
- GATS-G ATS
- HGL Isolation Switches
- GYW1 ACB

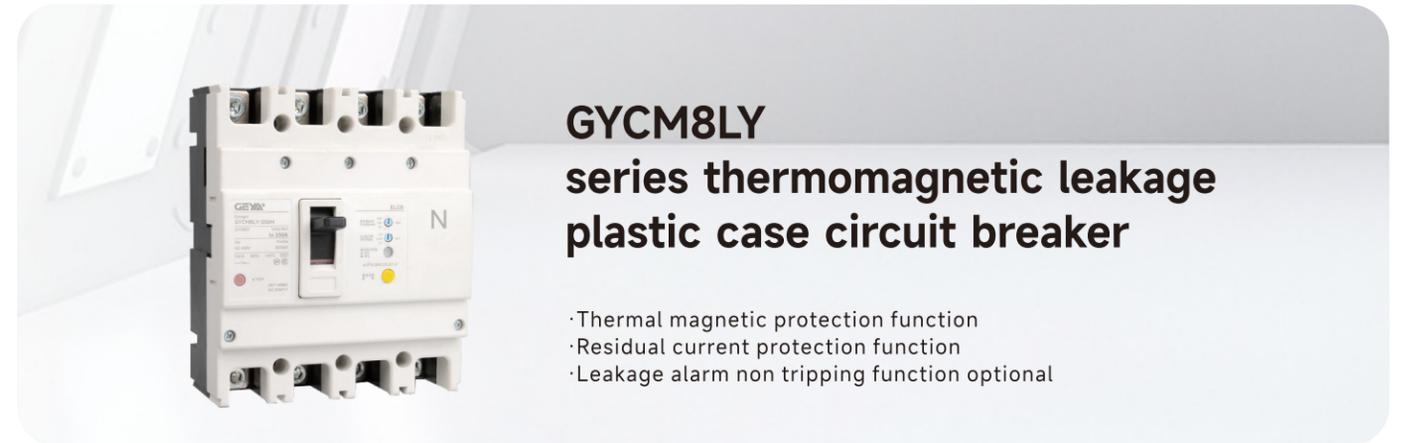
The inner accessories code



- Alarm contact
- Undervoltage release
- Single auxiliary contact (one set of conversion)
- Shunt release (mechanical)
- Dual auxiliary contacts (two sets of conversions)

Note 1:
Code 50: 125, 160 require customized left undervoltage; 250 requires customized left shunt, with optional range of shunt and undervoltage voltage: DC24V, DC110V, DC220V, AC230V, AC400V; Conventional production is AC230V.

Code	model Name poles number	GYCM8RT/A-125		GYCM8RT-160		GYCM8RT-250		GYCM8RT-400/630		GYCM8RT-800/1250/2000	
		3P	4P								
00	nothing	—	—	—	—	—	—	—	—	—	—
08	Alarm contact	<input type="checkbox"/>									
10	Shunt release	<input checked="" type="checkbox"/>									
18	Shunt release+alarm contact	<input checked="" type="checkbox"/>									
20	Single auxiliary contact	<input checked="" type="checkbox"/>									
27	Dual auxiliary contacts	<input checked="" type="checkbox"/>									
28	Single auxiliary contact+alarm contact	<input checked="" type="checkbox"/>									
29	Dual auxiliary contacts+alarm contacts	<input checked="" type="checkbox"/>									
30	Undervoltage release	<input type="checkbox"/>									
38	Undervoltage release+alarm contact	<input type="checkbox"/>									
40	Shunt release+single auxiliary contact	<input checked="" type="checkbox"/>									
41	Shunt release+dual auxiliary contacts	<input checked="" type="checkbox"/>									
48	Shunt release+auxiliary alarm contact	<input checked="" type="checkbox"/>									
50	Shunt release+undervoltage release	<input checked="" type="checkbox"/>									
60	Two sets of single auxiliary contacts	<input checked="" type="checkbox"/>									
61	Single auxiliary contact+double auxiliary contact	<input checked="" type="checkbox"/>									
62	Two sets of double auxiliary contacts	<input checked="" type="checkbox"/>									
68	Single auxiliary contact+auxiliary alarm contact	<input checked="" type="checkbox"/>									
69	Dual auxiliary contacts+auxiliary alarm contacts	<input checked="" type="checkbox"/>									
70	Undervoltage release+single auxiliary contact	<input type="checkbox"/>									
71	Undervoltage release+dual auxiliary contacts	<input type="checkbox"/>									
78	Undervoltage release+auxiliary alarm contact	<input type="checkbox"/>									



GYCM8LY series thermomagnetic leakage plastic case circuit breaker

- Thermal magnetic protection function
- Residual current protection function
- Leakage alarm non tripping function optional

Product model and definition

GYCM8LY-	160	M	P1	/
Product code:	Shell level current Optional code:	Optional code for short-circuit breaking capacity:	Optional operation code:	
GYCM8LY series thermomagnetic leakage plastic case circuit breaker	125 160 250 400 630 800 1250 Note: 125, 160, and 250 are only available for C and S types 400, 630, 800, 1250 only have M and H types	C: Basic type S: Standard type M: Higher breaking type H: High breaking type Note: Conventional production is M-type; 400, 630, 800, 1250 and 2000 only have M and H types	No code: direct operation P1: DC3 electric operation (market standard) P2: DC6 series electric operation (as shown in the picture) ZY1: Rotating handle (manual center type - circular handle)-(Preferred for regular factory use) ZF1: Rotating handle (manual center type - square handle) ZY2: Rotating handle (hand operated eccentric circular handle) Zf2: Rotating handle (manual eccentric square handle) Z3: Rotating handle (hand operated integrated) (Only available in 160 and 250) Note: The electric operating voltage is divided into DC24, DC110V, DC220V, AC230V, AC400V; Conventional production is AC230V	GYHC Contactors GLC1 Contactors GYC1 Contactors GYC1M Mini Contactors GYPV DC Fuse Holder GYCM8 MCCB

4	3	0	2	B
Pole number:	Optional code for release method:	Internal accessory optional code:	Usage code:	Quadrupole product optional code:
2 : 2pole 3 : 3pole 4 : 4pole Note: The second pole is only 160, and the conventional production is for the fourth pole	2: Only electromagnetic release 3: Thermal+electromagnetic release		No code: for distribution protection 2: Motor protection note: ≤ 40A 8.5In does not operate, 500A operates 700-800A No motor protection type	A: The N-pole is not equipped with an overcurrent release, and the N-pole is always connected B: The N-pole is not equipped with an overcurrent release, and the N-pole is opened and closed together with the other three poles C: Install an overcurrent release on the N-pole and connect the N-pole with the other three poles D: Install overcurrent release on N-pole and keep N-pole connected at all times

- GYHC Contactors
- GLC1 Contactors
- GYC1 Contactors
- GYC1M Mini Contactors
- GYPV DC Fuse Holder
- GYCM8 MCCB**
- G2R ATS
- GATS-GA ATS
- GATS-G ATS
- HGL Isolation Switches
- GYW1 ACB

II	/ P	Z	In=100A
Additional function code:	Optional installation and wiring method code:	Protective accessory code:	Rated current:
No code: regular product I: Leakage alarm and trip II: Leakage alarm does not trip T:Communication function (Modbus protocol)	No code: Board front wiring (fixed type) P: Connection bar (extended copper bar) Z1: Rear board wiring (fixed type) Z2Q: Plug in front wiring (split type) Z2H: Plug in board rear wiring (split type) Z3Q: Plug in front wiring (integrated)Z3H: Plug in board rear wiring (integrated) DF: withdrawable front panel wiring DR: Pull out board rear wiring Note: 160 and 250 without extraction type	No code: regular product Z: Terminal cover Note: Terminal covers are only threeExtremely abundant; 400, 630Divided into narrow and long styles, wide and long stylesDefault to wide and long styles;	125: 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A 160: 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A, 160A 250 : 100A, 125A, 160A, 180A, 200A, 225A, 250A 400 : 250A, 315A, 350A, 400A 800 : 500A, 630A, 700A, 800A 1250 : 900A, 1000A, 1250A

External attachments

Molded case circuit breaker:		GYCM8LY-125		GYCM8LY-160		GYCM8LY-250		GYCM8LY-400		GYCM8LY-630		GYCM8LY-800		GYCM8LY-1250	
Number of poles		2P	3P	4P	2P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
GYCM8LY External Accessories:	Electric operation	-	■	■	-	■	■	■	■	■	■	■	■	■	■
	Hand operation	-	■	■	-	■	■	■	■	■	■	■	■	■	■
	Expansion copper bar	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Mechanical interlocking	-	■	■	-	■	■	■	■	■	■	■	■	-	-
	Insert type front split type	-	■	■	-	■	■	■	■	■	■	■	■	-	-
	Insert type front integrated panel	-	■	■	-	■	■	■	■	■	■	■	■	-	-
	Insert type front fixed type	-	■	■	-	■	■	■	■	■	■	■	■	-	-
	Insert type rear split type	-	■	■	-	■	■	■	■	■	■	■	■	-	-
	Insert type rear integrated board	-	■	■	-	■	■	■	■	■	■	■	■	-	-
	Insert type rear fixed type	-	■	■	-	■	■	■	■	■	■	■	■	-	-
After the pull-out board	-	-	-	-	-	-	-	-	■	-	-	-	-	-	

Main performance indicators

Molded case circuit breaker	GYCM8LY-125				GYCM8LY-160				GYCM8LY-250				GYCM8LY-400		
Shell level current In:	16A, 20A, 25A, 30A, 32A, 40A, 50A, 60A, 63A, 75A, 80A, 90A, 100A, 125A				16A, 20A, 25A, 30A, 32A, 40A, 50A, 60A, 63A, 75A, 80A, 90A, 100A, 125A, 140A, 150A, 160A				100A, 125A, 140A, 150A, 160A, 175A, 180A, 200A, 225A, 250A				250A, 315A, 350A, 400A		
Short circuit breaking capacity code:	C	S	M	H	C	S	M	H	C	S	M	H	M	H	
Number of poles:	2P; 3P; 4P				2P; 3P; 4P				3P; 4P				3P; 4P		
Rated working voltage Ue (V), AC:	AC230V(2P), AC400V(3P, 3P+N, 4P)				AC230V(2P), AC400V(3P, 3P+N, 4P)				AC400V				AC400V		
Rated insulation voltage Ui (V):	1000V				1000V				1000V				1000V		
Rated impulse withstand voltage Uimp (kV):	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	
Rated operating short-circuit segmentation capacity Ics(%Icu):	AC400V	3kA	5kA	18kA	35kA	10kA	15kA	25kA	35kA	10kA	18kA	25kA	35kA	35kA	42kA
Rated ultimate short-circuit segmentation capacity Icu(kA)	AC400V	5kA	8kA	25kA	35kA	15kA	20kA	25kA	35kA	15kA	25kA	35kA	50kA	50kA	65kA
Δ m:	12.5kA	12.5kA	12.5kA	12.5kA	-	-	12.5kA	12.5kA	-	-	12.5kA	12.5kA	-	16.25kA	
Rated residual action type:	AC type														
Selective categories:	Class A														
Type of overcurrent release:	Thermomagnetic type														
Leakage release type:	Electronic														
GYCM8LY External dimensions (mm)width (W)*Length (L)*height(H)	Shell level current	GYCM8LY-125				GYCM8LY-160				GYCM8LY-250				GYCM8LY-400	
	poles Number	2P	3P	4P	2P	3P	4P	3P	4P	3P	14P	3P	4P		
	wide	50	75	100	60	90	120	105	140	140	184				
	length	130	130	130	155	155	155	165	165	257	257				
	height/Face cover	68	68	68	68	68	68	68	68	103	103				
	height/Handle	94.5	94.5	94.5	94	94	94	96	96	152	152				

Note: The height from the bottom of the base to the (cover/handle)

- GYHC Contactors
- GLC1 Contactors
- GYC1 Contactors
- GYC1M Mini Contactors
- GYPV DC Fuse Holder
- GYCM8 MCCB
- G2R ATS
- GATS-GA ATS
- GATS-G ATS
- HGL Isolation Switches
- GYW1 ACB

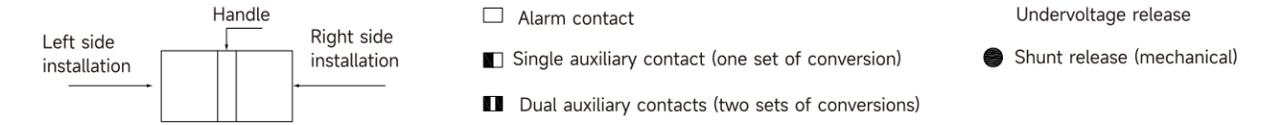
Main performance indicators

Molded case circuit breaker	GYCM8LY-630		GYCM8LY-800		GYCM8LY-125	
Shell level current In:	400A、500A、630A		500A、630A、700A、800A		0	
Short circuit breaking capacity code:	M	H	M	H	M 1000A、1250A	
Number of poles:	3P; 4P		3P; 4P		3P; 4P	
Rated working voltage Ue (V), AC:	AC400V	AC400V	AC400V	AC400V	AC400V	AC400V
Rated insulation voltage Ui (V):	1000V	1000V	1000V	1000V	1000V	1000V
Rated impulse withstand voltage Uimp (kV):	8kV	8kV	8kV	8kV	8kV	8kV
Rated operating short-circuit segmentation capacity Ics(%Icu):	AC400V: 35kA	50kA	35kA	50kA	35kA	50kA
Rated ultimate short-circuit segmentation capacity Icu(kA)	AC400V: 50kA	65kA	50kA	65kA	50kA	65kA
Rated residual operating current IΔ n (mA) :	50mA、100mA、200mA、300mA、500mA、800mA、1000mA (Choose any four adjustable gears)					
IΔ m:	16.25kA	16.25kA	16.25kA	16.25kA	16.25kA	16.25kA
Rated residual action type:	AC type					
Selective categories:	Class A					
Type of overcurrent release:	Thermomagnetic type					
Leakage release type:	Electronic					

Shell level current	GYCM8LY-630		GYCM8LY-800		GYCM8LY-1250		
	poles Number	3P	4P	3P	4P	3P	4P
wide		140	184	210	280	210	280
length		257	257	275.5	275.5	275.5	275.5
height/Face cover		103	103	103	103	103	103
height/Handle		152	152	152	152	152	152

Note: The height from the bottom of the base to the (cover/handle)

The inner accessories code



Note 1:
Code 50: 125, 160 require customized left undervoltage; 250 requires customized left shunt, with optional range of shunt and undervoltage voltage: DC24V, DC110V, DC220V, AC230V, AC400V; Conventional production is AC230V.

Code	Name	GYCM8LY-125		GYCM8LY-160		GYCM8LY-250		GYCM8LY-400		GYCM8LY-800/1250	
		3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
00	nothing	—	—	—	—	—	—	—	—	—	—
08	Alarm contact	□	□	□	□	□	□	□	□	□	□
10	Shunt release	—	●	—	●	●	●	●	●	●	●
18	Shunt release+ alarm contact	—	□●	—	□●	—	□●	●	□●	●	□●
20	Single auxiliary contact	□	□	□	□	□	□	□	□	□	□
27	Dual auxiliary contacts	□	□	□	□	□	□	□	□	□	□
28	Single auxiliary contact+ alarm contact	□	□●	□	□●	□	□●	□	□●	□	□●
29	Dual auxiliary contacts+ alarm contacts	—	□●	—	□●	—	□●	□	□●	□	□●
30	Undervoltage release	○	○	○	○	○	○	○	○	○	○
38	Undervoltage release+ alarm contact	—	○□	—	○□	—	○□	○	○□	○	○□
40	Shunt release+single auxiliary contact	—	□●	—	□●	—	□●	●	□●	●	□●
41	Shunt release+dual auxiliary contacts	—	□●	—	□●	—	□●	●	□●	●	□●
48	Shunt release+auxiliary alarm contact	—	□●	—	□●	—	□●	●	□●	●	□●
50	Shunt release+ undervoltage release	—	○●	—	○●	—	○●	—	○●	—	○●
60	Two sets of single auxiliary contacts	—	□□	—	□□	—	□□	□	□□	□	□□
61	Single auxiliary contact+ double auxiliary contact	—	□□	—	□□	—	□□	□	□□	□	□□
62	Two sets of double auxiliary contacts	—	□□	—	□□	—	□□	—	□□	—	□□
68	Single auxiliary contact+ auxiliary alarm contact	—	□□	—	□□	—	□□	□	□□	□	□□
69	Dual auxiliary contacts+ auxiliary alarm contacts	—	□□	—	□□	—	□□	□	□□	□	□□
70	Undervoltage release+ single auxiliary contact	—	○□	—	○□	—	○□	○	○□	○	○□
71	Undervoltage release+ dual auxiliary contacts	—	○□	—	○□	—	○□	—	○□	—	○□
78	Undervoltage release+ auxiliary alarm contact	—	○□	—	○□	—	○□	○	○□	○	○□

GYHC Contactors
GLC1 Contactors
GYC1 Contactors
GYC1M Mini Contactors
GYPV DC Fuse Holder
GYCM8 MCCB
G2R ATS
GATS-GA ATS
GATS-G ATS
HGL Isolation Switches
GYW1 ACB



GYCM8E series electronic plastic case circuit breaker

- Low temperature rise
- Integrated
- Small volume
- Adopting a multi blade design Equipped with electronic and thermal magnetic dual protection functions

Product model and definition

GYCM8E-	160	M	P1	/
Product code:	Shell level current Optional code:	Optional code for short-circuit breaking capacity:	Optional operation code:	
GYCM8RT series electronic plastic case circuit breaker	160 250 400 630 800 1250 2000	C: Basic type S: Standard type M: Higher breaking type H: High breaking type Note: Conventional production is M-type; 400, 630, 800, 1250 and 2000 only have M and H types	No code: direct operation P1: DC3 electric operation (market standard) P2: DC6 series electric operation (as shown in the picture) ZY1: Rotating handle (manual center type - circular handle)-(Preferred for regular factory use) ZF1: Rotating handle (manual center type - square handle) ZY2: Rotating handle (hand operated eccentric circular handle) Zf2: Rotating handle (manual eccentric square handle) Z3: Rotating handle (hand operated integrated) (Only available in 160 and 250) Note: The electric operating voltage is divided into DC24, DC110V, DC220V, AC230V, AC400V; Conventional production is AC230V	

4	3	00	2	B	G	/
Pole number:	Knob optional code:	Internal accessory optional code:	Usage code:	Quadrupole product optional code:	Additional function code:	
3 : 3pole 4 : 4pole	3: 3 knobs 6: 6 knobs		No code: for distribution protection 2: For motor protection Note: Magnetic protection 14In does not operate, 20In operates 700A-2000A without motor protection type	A: The N-pole is not equipped with an overcurrent release, and the N-pole is always connected B: The N-pole is not equipped with an overcurrent release, and the N-pole is opened and closed together with the other three poles C: Install an overcurrent release on the N- pole, and the N-pole will be combined and disconnected with the other three poles D: Install an overcurrent release on the N- pole and ensure that the N-pole is always connected	No code: regular product G: With grounding protection III: Overload alarm does not trip R: Thermal magnetic protection function V: Low temperature upgrade 40K VI: Low temperature upgrade 50K VII: Low temperature upgrade 60K	

P	Z	In=100A
Optional installation and wiring method code:	Protective accessory code:	Rated current:
No code: Board front wiring (fixed type) P: Connection bar (extended copper bar) Z1: Rear board wiring (fixed type) Z2Q: Plug in front wiring (split type) Z2H: Plug in board rear wiring (split type) Z3Q: Plug in front wiring (integrated) Z3H: Plug in board rear wiring (integrated) DF: withdrawable front panel wiring DR: Pull out board rear wiring Note: 160, 250 non withdrawable; 1250 and 2000 only have connecting bars	No code: regular product Z: Terminal cover Note: The terminal cover only has three poles; 400, 630 points narrow length, wide length, default to wide length; 2000 Not available at the moment	160: 32A (adjustable from 0.4 to 1.0 In); 63A (adjustable from 0.4 to 1.0 In); 100A (adjustable from 0.4 to 1.0 In); 125A (adjustable from 0.4 to 1.0 In); 160A (adjustable from 0.4 to 1.0 In); 250 #: 250A (0.4-1.0In adjustable) 400 #: 400A (adjustable from 0.4 to 1.0 In) 630 #: 630A (0.4-1.0 In adjustable) 400 #: 400A (adjustable from 0.4 to 1.0 In) 800 #: 630A (adjustable from 0.4 to 1.0 In); 800A (adjustable from 0.4 to 1.0In); 1250 #: 1000A (adjustable from 0.4 to 1.0 In); 1250A (adjustable from 0.4 to 1.0 In); 2000 #: 1250A (adjustable from 0.4 to 1.0 In); 1600A (adjustable from 0.4 to 1.0 In); 2000A: (0.4-1.0 In adjustable)

External attachments

Molded case circuit breaker:	GYCM8E- 160	GYCM8E- 250	GYCM8E- 400	GYCM8E- 630	GYCM8E- 800	GYCM8E- 1250	GYCM8E- 2000	
Number of poles	3P	4P	3P	4P	3P	4P	3P	4P
GYCM8LY External Accessories:	Electric operation	■	■	■	■	■	■	■
	Hand operation	■	■	■	■	■	■	■
	Expansion copper bar	■	■	■	■	■	■	■
	Mechanical interlocking	■	■	■	■	■	■	■
	Insert type front split type	■	■	■	■	■	■	■
	Insert type front integrated panel	■	■	■	■	■	■	■
	Insert type front fixed type	■	■	■	■	■	■	■
	Insert type rear split type	■	■	■	■	■	■	■
	Insert type rear integrated board	■	■	■	■	■	■	■
	Insert type rear fixed type	■	■	■	■	■	■	■
After the pull-out board	-	-	-	-	-	-	-	-

- GYHC
Contactors
- GLC1
Contactors
- GYC1
Contactors
- GYC1M
Mini
Contactors
- GYPV
DC Fuse
Holder
- GYCM8
MCCB
- G2R
ATS
- GATS-GA
ATS
- GATS-G
ATS
- HGL
Isolation
Switches
- GYW1
ACB

Main performance indicators

Molded case circuit breaker	GYCM8E-160			GYCM8E-250			GYCM8E-400		GYCM8E-630		
Shell level current In:	32A(12A-32A Adjustable), 100A(40A-100A Adjustable), 160A(63A-160A Adjustable)			250A (100A-250A Adjustable)			400A (160A-400A Adjustable) (200A-400A Adjustable)		630A (250A-630A Adjustable) (400A-630A Adjustable)		
Short circuit breaking capacity code:	S	M	H	S	M	H	M	H	M	H	
Number of poles:	3P; 4P			3P; 4P			3P; 4P		3P; 4P		
Rated working voltage Ue (V), AC:	AC400V; AC690V			AC400V; AC690V			AC400V; AC690V		AC400V; AC690V		
Rated insulation voltage Ui (V):	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	1000V	
Rated impulse withstand voltage Uimp (kV):	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	8kV	
Rated short-circuit breaking capacity Ics (kA):	AC400V	18kA	35kA	65kA	18kA	35kA	65kA	35kA	70kA	35kA	70kA
	AC690V	4kA	8kA	8kA	8kA	8kA	8kA	8kA	8kA	8kA	8kA
Rated ultimate short-circuit breaking capacity Icu (kA):	AC400V	25kA	50kA	65kA	25kA	50kA	65kA	50kA	70kA	50kA	70kA
	AC690V	8kA	8kA	8kA	4kA	8kA	8kA	8kA	8kA	8kA	8kA
Rated short-term withstand current Icw (kA)	-	-	-	-	-	-	10kA/1s	10kA/1s	10kA/1s	10kA/1s	
Applicable frequency:	50/60Hz			50/60Hz			50/60Hz		50/60Hz		
Selective categories:	Class A	Class A	Class A	Class B	Class B	Class B	Class B	Class B	Class B	Class B	
Type of overcurrent release:	Electronic										
GYCM8E External dimensions (mm)width (W)*Length (L)*height(H)	Shell level current	GYCM8E-160			GYCM8E-250			GYCM8E-400		GYCM8E-630	
	poles Number	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
	wide	90	120	105	140	140	184	140	184	140	184
	length	155	155	165	165	257	257	257	257	257	257
	height/Face cover	68/82	68/82	68/88	68/88	103	103	103	103	103	103
height/Handle	94/108	94/108	96/116	96/116	152	152	152	152	152	152	

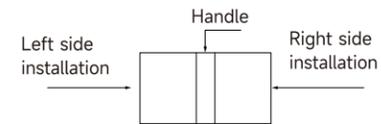
Note: The height from the bottom of the base to the (cover/handle)

Main performance indicators

Molded case circuit breaker	GYCM8E-800		GYCM8E-1250		GYCM8E-2000		
Shell level current In:	630A (400A-630A Adjustable) 800A (500A-800A Adjustable)		1000A (630A-1000A Adjustable) 1250A (850A-1250A Adjustable)		1250A (500A-1250A Adjustable) 1600A (630A-1600A Adjustable) 2000A (800A-2000A Adjustable)		
Short circuit breaking capacity code:	M	H	M	H	M	H	
Number of poles:	3P; 4P		3P; 4P		3P; 4P		
Rated working voltage Ue (V), AC:	AC400V, AC690V		AC400V, AC690V		AC400V, AC690V		
Rated insulation voltage Ui (V):	1000V	1000V	1000V	1000V	1000V	1000V	
Rated impulse withstand voltage Uimp (kV):	8kV	8kV	8kV	8kV	8kV	8kV	
Rated short-circuit breaking capacity Ics (kA):	AC400V	50kA	50kA	50kA	50kA	50kA	85kA
	AC690V	10kA	10kA	10kA	10kA	20kA	20kA
Rated ultimate short-circuit breaking capacity Icu (kA):	AC400V	65kA	65kA	65kA	65kA	50kA	100kA
	AC690V	20kA	20kA	20kA	20kA	20kA	20kA
Rated short-term withstand current Icw (kA)	20kA/1s	20kA/1s	20kA/1s	20kA/1s	20kA/1s	20kA/1s	
Applicable frequency:	50/60Hz		50/60Hz		50/60Hz		
Selective categories:	Class B						
Type of overcurrent release:	Electronic						
GYCM8E External dimensions (mm)width (W)*Length (L)*height(H)	Shell level current	GYCM8E-800		GYCM8E-1250		GYCM8E-2000	
	poles Number	3P	4P	3P	4P	3P	4P
	wide	210	280	210	280	210	280
	length	275.5	275.5	275.5	275.5	340	340
	height/Face cover	103	103	103	103	141	141
	height/Handle	152	152	152	152	244	244

Note: The height from the bottom of the base to the (cover/handle)

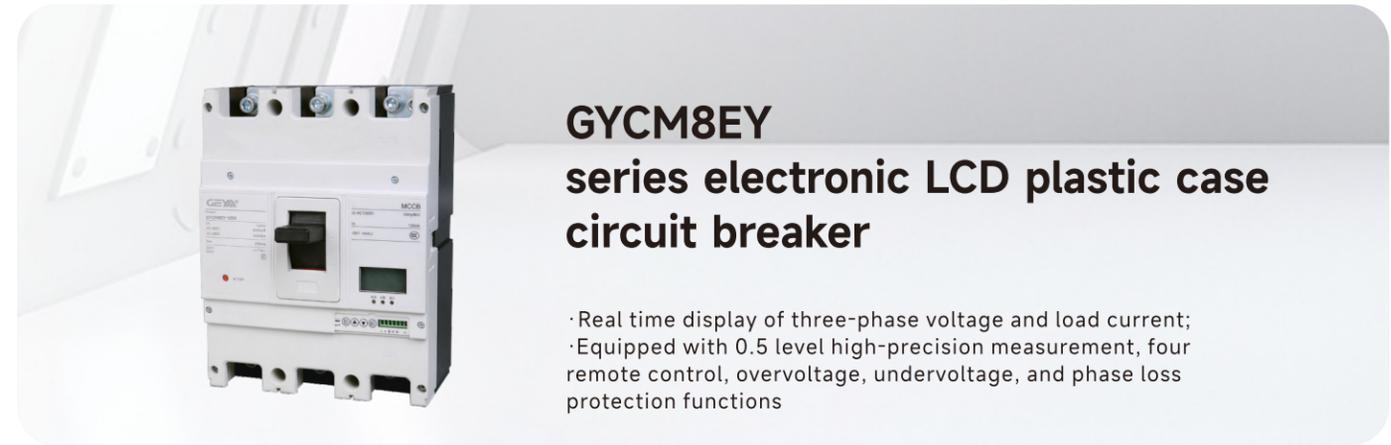
The inner accessories code



- Alarm contact
- Single auxiliary contact (one set of conversion)
- Dual auxiliary contacts (two sets of conversions)
- Undervoltage release
- Shunt release (mechanical)

Note 1:
Code 50: 125, 160 require customized left undervoltage; 250 requires customized left shunt, with optional range of shunt and undervoltage voltage: DC24V, DC110V, DC220V, AC230V, AC400V; Conventional production is AC230V

Code	Name	model									
		GYCM8E-160		GYCM8E-250		GYCM8E-400/630		GYCM8E-800/1250		GYCM8E-2000	
		3P	4P								
00	nothing	—	—	—	—	—	—	—	—	—	—
08	Alarm contact	<input type="checkbox"/>									
10	Shunt release	<input checked="" type="checkbox"/>									
18	Shunt release+ alarm contact	<input checked="" type="checkbox"/>									
20	Single auxiliary contact	<input checked="" type="checkbox"/>									
27	Dual auxiliary contacts	<input checked="" type="checkbox"/>									
28	Single auxiliary contact+ alarm contact	<input checked="" type="checkbox"/>									
29	Dual auxiliary contacts+ alarm contacts	—	—	—	—	<input checked="" type="checkbox"/>					
30	Undervoltage release	<input type="checkbox"/>									
38	Undervoltage release+ alarm contact	—	—	—	—	<input type="checkbox"/>					
40	Shunt release+single auxiliary contact	<input checked="" type="checkbox"/>									
41	Shunt release+dual auxiliary contacts	<input checked="" type="checkbox"/>									
48	Shunt release+auxiliary alarm contact	<input checked="" type="checkbox"/>									
50	Shunt release+ undervoltage release	<input checked="" type="checkbox"/>									
60	Two sets of single auxiliary contacts	—	—	—	—	<input checked="" type="checkbox"/>					
61	Single auxiliary contact+ double auxiliary contact	—	—	—	—	<input checked="" type="checkbox"/>					
62	Two sets of double auxiliary contacts	—	—	—	—	<input checked="" type="checkbox"/>					
68	Single auxiliary contact+ auxiliary alarm contact	—	—	—	—	<input checked="" type="checkbox"/>					
69	Dual auxiliary contacts+ auxiliary alarm contacts	—	—	—	—	<input checked="" type="checkbox"/>					
70	Undervoltage release+ single auxiliary contact	—	—	—	—	<input type="checkbox"/>					
71	Undervoltage release+ dual auxiliary contacts	—	—	—	—	<input type="checkbox"/>					
78	Undervoltage release+ auxiliary alarm contact	—	—	—	—	<input type="checkbox"/>					



GYCM8EY series electronic LCD plastic case circuit breaker

- Real time display of three-phase voltage and load current;
- Equipped with 0.5 level high-precision measurement, four remote control, overvoltage, undervoltage, and phase loss protection functions

Product model and definition

GYCM8EY-	160	M	P1	/
Product code:	Shell level current Optional code:	Optional code for short-circuit breaking capacity:	Optional operation code:	
GYCM8LY series electronic LCD plastic case circuit breaker	250 400 630 800 1250	M: Higher breaking type H: High breaking type Note:Conventional production is M-type	No code: direct operation P1: DC3 electric operation (market standard) P2: DC6 series electric operation (as shown in the picture) P3: DC6 series electrically operated LCD type Zy1: Rotating handle (manual center type - circular handle)-(Preferred for regular factory use) Zf1: Rotating handle (manual center type - square handle) Zy2: Rotating handle (hand operated eccentric circular handle) Zf2: Rotating handle (manual eccentric square handle) Z3: Rotating handle (hand operated integrated)(Only 250 available) Note:The electric operating voltage is divided into DC24, DC110VDC220V, AC230V, AC400V;Conventional production is AC230V.	GYHC Contactors GLC1 Contactors GYC1 Contactors GYC1M Mini Contactors GYPV DC Fuse Holder GYCM8 MCCB

4	3	00	2	B	JL	/
Pole number:	Knob optional code:	Internal accessory optional code:	Usage code:	Quadrupole product optional code:	Additional function code:	
3 : 3pole 4 : 4pole	3: 3 knobs 6: 6 knobs		No code: for distribution protection 2: For motor protection Note:Magnetic protection 14In does not operate, 20In operates 700A-2000A without motor protection type	A: The N-pole is not equipped with an overcurrent release, and the N-pole is always connected B: The N-pole is not equipped with an overcurrent release, and the N-pole is opened and closed together with the other three poles C: Install an overcurrent release on the N-pole, and the N-pole will be combined and disconnected with the other three poles D: Install an overcurrent release on the N-pole and ensure that the N-pole is always connected	No code: regular product JL: Measurement function WD: Temperature display function	G2R ATS GATS-GA ATS GATS-G ATS HGL Isolation Switches GYW1 ACB

P	Z	In=100A
Optional installation and wiring method code:	Protective accessory code:	Rated current:
No code: Board front wiring (fixed type) P: Connection bar (extended copper bar) Z1: Rear board wiring (fixed type) Z2Q: Plug in front wiring (split type) Z2H: Plug in board rear wiring (split type) Z3Q: Plug in front wiring (integrated) Z3H: Plug in board rear wiring (integrated) DF: withdrawable front panel wiring DR: Pull out board rear wiring Note:250 non withdrawable; 1250 only has connecting bars	No code: regular product Z: Terminal cover Note:The terminal cover only has three poles;400, 630 points narrow length, wide length, default to wide length;	250#: 125A (0.4-1.0In) ; 250A (0.4-1.0In) ; 400#: 400A (0.4-1.0In) ; 630#: 630A (0.4-1.0In) ; 800#: 630A (0.4-1.0In) ; 800A (0.4-1.0In) ; 1250#: 1000A (0.4-1.0In) ; 1250A (0.4-1.0In) ;

External attachments

Molded case circuit breaker:	GYCM8EY-250	GYCM8EY-400	GYCM8EY-630	GYCM8EY-800	GYCM8EY-1250						
Number of poles	3P 4P	3P 4P	3P 4P	3P 4P	3P 4P						
GYCM8EY External Accessories:	Electric operation	■	■	■	■	■	■	■	■	■	■
	Hand operation	■	■	■	■	■	■	■	■	■	■
	Expansion copper bar	■	■	■	■	■	■	■	■	■	■
	Mechanical interlocking	■	■	■	■	■	■	■	■	-	-
	Insert type front split type	■	■	■	■	■	■	■	■	-	-
	Insert type front integrated panel	■	■	■	■	■	■	■	■	-	-
	Insert type front fixed type	■	■	■	■	■	■	■	■	-	-
	Insert type rear split type	■	■	■	■	■	■	■	■	-	-
	Insert type rear integrated board	■	■	■	■	■	■	■	■	-	-
	Insert type rear fixed type	■	■	■	■	■	■	■	■	-	-
After the pull-out board	-	-	■	-	■	-	■	-	-	-	

Main performance indicators

Molded case circuit breaker:	GYCM8EY-250	GYCM8EY-400	GYCM8EY-630	
Shell level current In:	125A (0.4-1.0In) ; 250A (0.4-1.0In) ;	400A (0.4-1.0In) ;	630A (0.4-1.0In) ;	
Short circuit breaking capacity code:	M H	M H	M H	
Number of poles:	3P, 4P	3P, 4P	3P, 4P	
Rated working voltage Ue (V), AC:	AC400V	AC400V	AC400V	
Rated insulation voltage Ui (V):	1000V	1000V	1000V	
Rated impulse withstand voltage Uimp (kV):	8kV	8kV	8kV	
Rated operating short-circuit breaking capacity Ics (kA):	AC400V 35kA 65kA	50kA 70kA	50kA 70kA	
Rated ultimate short-circuit breaking capacity Icu (kA):	AC400V 50kA 65kA	50kA 70kA	50kA 70kA	
Rated short-term withstand current Icw (kA):	-	-	10kA/1s 10kA/1s 10kA/1s 10kA/1s	
Selective categories:	Class B			
Type of overcurrent release:	Electronic			
GYCM8EY External dimensions (mm)width (W)*Length (L)*height(H)	Shell level current	GYCM8EY-250	GYCM8EY-400	GYCM8EY-630
	poles Number	3P 4P	3P 4P	3P 4P
	wide	105 140	140 184	210 280
	length	165	257	275.5
	height/Face cover	88	103	103
height/Handle	116	152	152	

Note: The height from the bottom of the base to the (cover/handle)

- GYHC Contactors
- GLC1 Contactors
- GYC1 Contactors
- GYC1M Mini Contactors
- GYPV DC Fuse Holder
- GYCM8 MCCB
- G2R ATS
- GATS-GA ATS
- GATS-G ATS
- HGL Isolation Switches
- GYW1 ACB

Main performance indicators

Molded case circuit breaker:		GYCM8EY-800		GYCM8EY-1250	
Shell level current In:		630A (0.4-1.0In) ; 800A (0.4-1.0In) ;		1000A (0.4-1.0In) ; 1250A (0.4-1.0In) ;	
Short circuit breaking capacity code:		M	H	M	H
Number of poles:		3P, 4P		3P, 4P	
Rated working voltage Ue (V), AC:		AC400V		AC400V	
Rated insulation voltage Ui (V):		1000V		1000V	
Rated impulse withstand voltage Uimp (kV):		8kV		8kV	
Rated operating short-circuit breaking capacity Ics (kA):	AC400V	50kA	65kA	50kA	65kA
Rated ultimate short-circuit breaking capacity Icu (kA):	AC400V	50kA	85kA	50kA	85kA
Rated short-term withstand current Icw (kA):		20kA/1s	20kA/1s	20kA/1s	20kA/1s
Selective categories:		Class B			
Type of overcurrent release:		Electronic			
GYCM8EY External dimensions (mm)width (W)*Length (L)*height(H)	Shell level current	GYCM8EY-800		GYCM8EY-1250	
	poles Number	3P	4P	3P	4P
	wide	210	280	210	280
	length	275.5		275.5	
	height/Face cover	103		103	
height/Handle	152		152		

Note: The height from the bottom of the base to the (cover/handle)

The inner accessories code

Left side installation Handle Right side installation

- Alarm contact
- Single auxiliary contact (one set of conversion)
- ▣ Dual auxiliary contacts (two sets of conversions)
- Undervoltage release
- Shunt release (mechanical)

Note 1:
Code 50: 125, 160 require customized left undervoltage; 250 requires customized left shunt, with optional range of shunt and undervoltage voltage: DC24V, DC110V, DC220V, AC230V, AC400V; Conventional production is AC230V.

Code	Name	model		GYCM8EY-250		GYCM8EY-400/630		GYCM8EY-800/1250	
		poles number	3P	4P	3P	4P	3P	4P	
00	nothing		—	—	—	—	—	—	—
08	Alarm contact		□	□	□	□	□	□	□
10	Shunt release		●	●	●	●	●	●	●
18	Shunt release+alarm contact		●	●	●	●	●	●	●
20	Single auxiliary contact		■	■	■	■	■	■	■
27	Dual auxiliary contacts		▣	▣	▣	▣	▣	▣	▣
28	Single auxiliary contact+alarm contact		■	■	■	■	■	■	■
29	Dual auxiliary contacts+alarm contacts		▣	▣	▣	▣	▣	▣	▣
30	Undervoltage release		○	○	○	○	○	○	○
38	Undervoltage release+alarm contact		○	○	○	○	○	○	○
40	Shunt release+single auxiliary contact		●	●	●	●	●	●	●
41	Shunt release+dual auxiliary contacts		●	●	●	●	●	●	●
48	Shunt release+auxiliary alarm contact		●	●	●	●	●	●	●
50	Shunt release+undervoltage release		●	○	●	○	●	○	●
60	Two sets of single auxiliary contacts		■	■	■	■	■	■	■
61	Single auxiliary contact+double auxiliary contact		■	■	■	■	■	■	■
62	Two sets of double auxiliary contacts		▣	▣	▣	▣	▣	▣	▣
68	Single auxiliary contact+auxiliary alarm contact		■	■	■	■	■	■	■
69	Dual auxiliary contacts+auxiliary alarm contacts		▣	▣	▣	▣	▣	▣	▣
70	Undervoltage release+single auxiliary contact		○	○	○	○	○	○	○
71	Undervoltage release+dual auxiliary contacts		○	○	○	○	○	○	○
78	Undervoltage release+auxiliary alarm contact		○	○	○	○	○	○	○

GYHC Contactors
GLC1 Contactors
GYC1 Contactors
GYC1M Mini Contactors
GYPV DC Fuse Holder
GYCM8 MCCB
G2R ATS
GATS-GA ATS
GATS-G ATS
HGL Isolation Switches
GYW1 ACB



G2R-63 Automatic transfer switch

G2R-63 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 6A-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 <50 milliseconds), which can effectively solve the troubles caused by power outages.

Product model and meaning

G	2	R	—	63	□	□
Company code	Product Category	Din-rail installation	Case grade	Pole	Rated working voltage: AC220V, AC110V Rated working current: 6A/10A/16A/20A 25A/32A/40A 50A/63A	

Working Conditions

The temperature range of the operating environment is -5°C~+40°C, and the average temperature within 24 hours shall be lower than +35°C, and the temperature range of the storage environment is -25°C~+55°C, which can be reached +70°C in a short time (within 24 hours)

The altitude of the installation site should be lower than 2000m.

The relative humidity at the installation site shall not exceed 50% when the ambient air temperature is +40°C. Higher relative humidity is possible at lower temperatures. For example: when the average minimum temperature of the wettest month is +20°C, the monthly average maximum relative humidity of that month can reach 90%. Appropriate measures should be taken to prevent condensation due to temperature changes.

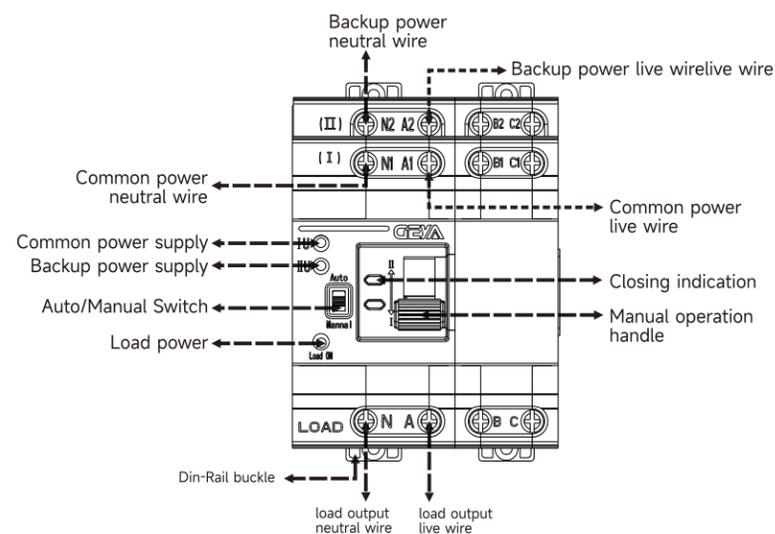
Pollution level 3 (conductive pollution, or dry non-conductive pollution becomes conductive due to condensation). ATS can be installed vertically or horizontally in the cabinet, if there are special installation requirements, contact us.

The protection grade of ATS case is IP30.

Overvoltage category

Main circuit category III; control and auxiliary circuit category II.

Wiring instructions



Technical Specification

Case grade	63								
Rated operating current Ie(A)	06A	10A	16A	20A	25A	32A	40A	50A	63A
Rated insulation voltage UI	690V								
Rated impulse withstand voltage Uimp	8kV								
Rated working voltage Ue	AC220V/AC110V								
Rated frequency	50/60Hz								
Class	PC class: can be switched on and loaded without generating short-circuit current								
Pole number	2P				4P				
Rated short-circuit current Iq	5kA								
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								
Contact change-over time	<50ms								
Operation change-over time	<50ms								
Return change-over time	<50ms								
Power off time	<50ms								
Change-over operation time	<50ms								
Mechanical life	≥8000 times								
Electrical life	≥1500 times								
Usage category	AC-31B								

GYHC Contactors

GLC1 Contactors

GYC1 Contactors

GYC1M Mini Contactors

GYPV DC Fuse Holder

GYCM3 MCCB

G2R ATS

GATS-GA ATS

GATS-G ATS

HGL Isolation Switches

GYW1 ACB

Notes

Manual/automatic operation can ensure the opening and closing performance of electrical operation, but in manual operation, there is no guarantee due to the different opening/closing speeds of the operators. In manual operation, there's possible for excessive silver alloy loss. Therefore, the selector switch should only be pulled to the manual position after all power has been cut off for inspection and maintenance of the operating system and contact information.

Normally, pull the selector switch to the electric position. When manual operation is required, pull the selector switch to the manual position. After manual operation is complete, pull the selector switch from the manual position to the automatic position. The control circuit TSE is immediately energized. After the change over is completed, the internal switch will damage the coil in the control circuit, and the coil can work normally at 85%-110% of the rated operating voltage. Too low input voltage may cause the coil to overheat and burn out.

Installation

Before installation and wiring, please ensure that professionals have read this manual. Before installation, please check the integrity of ATS. Then turn on the ATS with the operating handle, check the flexibility of the operating mechanism, and check the opening and closing status of each phase and normal power and backup power loads. Please equip the ATS with a suitable circuit breakers according to the installation requirements of the power distribution system to ensure that personnel and equipment safety.

Maintenance

Maintenance and inspection should be carried out by professionals. In order to ensure the good performance of the ATS, the first maintenance and inspection should be carried out within 6 months after use. Then do the maintenance and inspection at least once a year. In harsh installation conditions, the frequency of maintenance and inspection should be increased. If the maintenance and inspection items fail, please remove the dust. b: Please check whether the electrical contact parts are deformed and damaged, and clean the surface. c: metal particles and burnt around it. Rust, acidification and dust on the contact surfaces can cause poor contact, so do some manual work and measure the necessary contact resistance. d: If the ATS is wet or left unused for a long time, please dry it before turning on the power. After removing the dust, use a 500V megohmmeter to measure the insulation resistance of the normal power supply and the AC power supply. The load side and two poles, including the insulation resistance, when using live parts and metal plates, the insulation resistance should not be less than 10MQ.



GATS-GA Isolated automatic transfer switch

Control mode: built-in relay, external controller Product structure: small size, large current, simple structure, ATS integration features: low failure rate, easy maintenance, reliable performance

Technical Specification

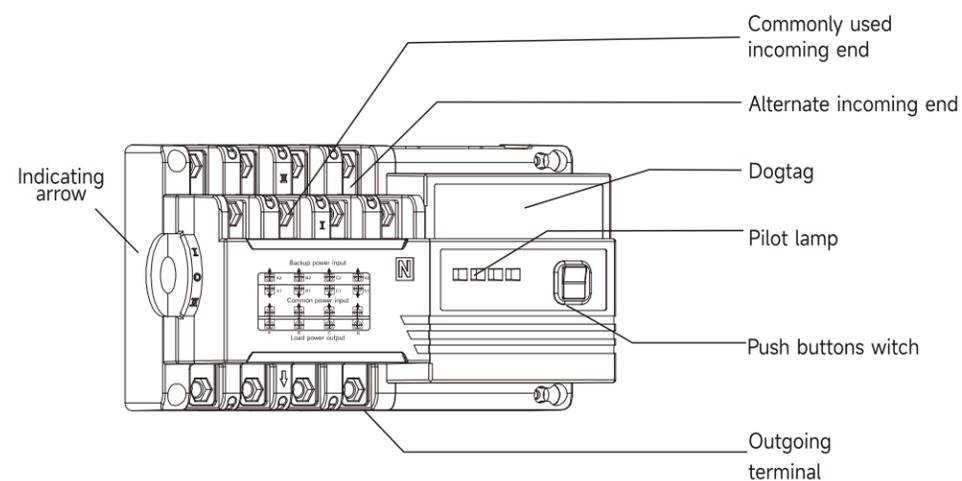
Dual power automatic transfer switch is a new type of automatic transfer switch that integrates switch and logic control in one and truly realizes mechatronics integration. It is suitable for rated insulation voltage to 1000V, rated frequency 50Hz, rated voltage to 400V, and agreed heating current to 800A power distribution equipment of industrial enterprises. The automatic conversion of the main power supply and the standby power supply used as a power supply system or the automatic conversion pole of two load devices are safely isolated; Widely used in hospitals, shopping malls, banks, high-rise buildings, coal mines, telecommunications, iron ore, highways, airports, industrial assembly lines and military facilities do not allow power outage important occasions.

GATS-GA	
Product shell	125 250 800
Product current	16 20 32 40 50 63 80 100 125 160 180 200 225 250 300 315 400 500 630 800A
Product classification	Load switch type
Product standard	GB/T14048.11-2016
ATSE	PC grade
Switch attachment	IEC947-6-1 GB14048.11
Rated operating voltage(Ue)	AC400V
Rated switching capacity(AEms)	10le
Rated Breaking capacity(AEms)	8le

Switch control type and corresponding function (automatic switching)

- 1).Basic type: self-recovery, I route priority, with starting generator signal;
- 2).Fire type: self-recovery, I priority,DC24V strong cutting, with start generator signal;
- 3).Intelligent type: split external wiring intelligent controller, with overvoltage, undervoltage, lack of phase, broken equal detection protection, can set I priority, II priority, no priority (self-throw not self-recovery) automatic fire 24V double, fire broken line double, fire feedback signal, start generator signal.
- 4).Self-recovery: when the usual power is off (or out of phase), the switch automatically switches to the standby power supply, and when the usual power supply returns to normal, the switch automatically returns to the usual power supply.
- 5).Fire double: In an emergency or equipment maintenance, start the fire power supply (constant voltage), the switch automatically switches to "0" to cut off the power:
- 6).With generator (oil engine): when the mains power supply is off (or out of phase), it sends a signal to start the oil engine, so that the oil engine automatically starts, such as normal power generation, the switch will automatically convert to the power supply and when the mains power supply returns to normal, the double power switch will automatically return to the mains power supply, and the generator signal will automatically turn off and start, the generator will stop generating power.

Switch structure description



Electrical button switch: control switch internal control line power supply, button switch open, switch to achieve automatic conversion;
Operating handle: When manually operating with the operating handle, the button switch must be turned off first;
Indicator: Indicates the position of the three states (I, O, and II) of the arrow, indicating that the arrow pointing to "I" indicates that the switch I is on, indicating that the arrow pointing to "II" indicates that the switch II is on, indicating that the arrow pointing to "O" indicates that the switch I and the switch II are off (fire fighting).

Switch instruction

1. non-professionals, do not install; Do not open it without our permission to avoid damage.
2. Please read this manual carefully before installation to avoid improper use.
3. the rated voltage of the internal control power supply of the switch is 220V, from the C1.N1 of the common power supply and the C2.N2 of the standby power supply, within the rated control voltage range of 85%-110%, the switch can work normally.
4. the switch into the wire end power supply should have overvoltage protection, so as not to damage the internal circuit board control motor.
5. the switch outlet power supply should have short-circuit protection, so as not to short-circuit the current is too large and burn the switch body.
6. when using the installation, please turn off the electric button switch, and switch to: "0".
7. When wiring the switch, please measure and distinguish the A.B.C.N of the power input line and connect it to the corresponding pole of the switch.
8. before power use, please measure again whether the C.N voltage is within the rated control voltage range of 85%-110%, and then turn on the electrical button switch and formally put into work.

GYHC
Contactors

GLC1
Contactors

GYC1
Contactors

GYC1M
Mini
Contactors

GYPV
DC Fuse
Holder

GYCM3
MCCB

G2R
ATS

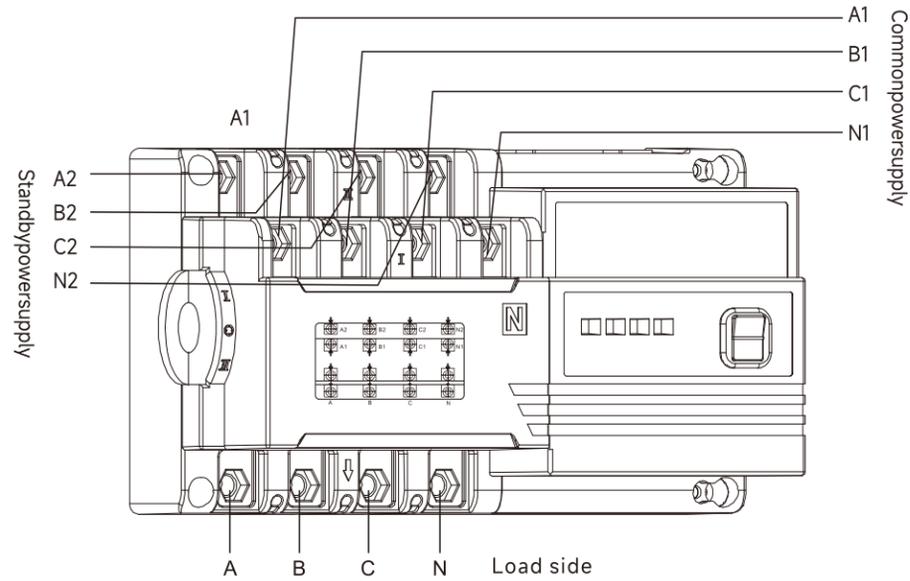
GATS-GA
ATS

GATS-G
ATS

HGL
Isolation
Switches

GYW1
ACB

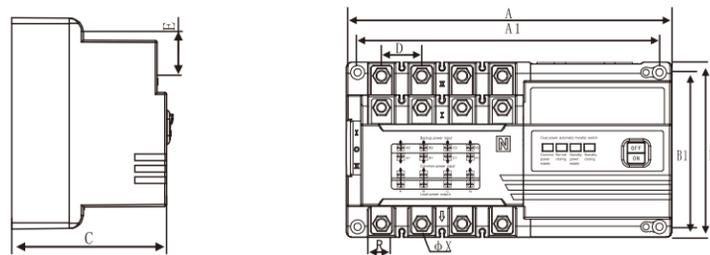
▶ Switch connection method



▶ Switch debugging instruction

- 1、 use the operating handle, repeatedly operate the switch three times, the switch should operate flexibly
- 2、 automatic debugging: according to the wiring diagram to connect the corresponding line, confirm and then open the button switch and switch on the dual power supply, the switch should be switched to "I" : then disconnect the common power supply, the switch should be switched to "II" : then switch on the common power supply, the switch should return to "I".
- 3、 fire debugging: in any case, start the fire power button, the switch should be turned to "0" file
- 4、 detection signal indicator: normal/standby power on/off, switch "I/II" when the signal indicator should be given the corresponding indication.
- 5、 after debugging, please turn off the power first, and then use the handle to switch to "0".

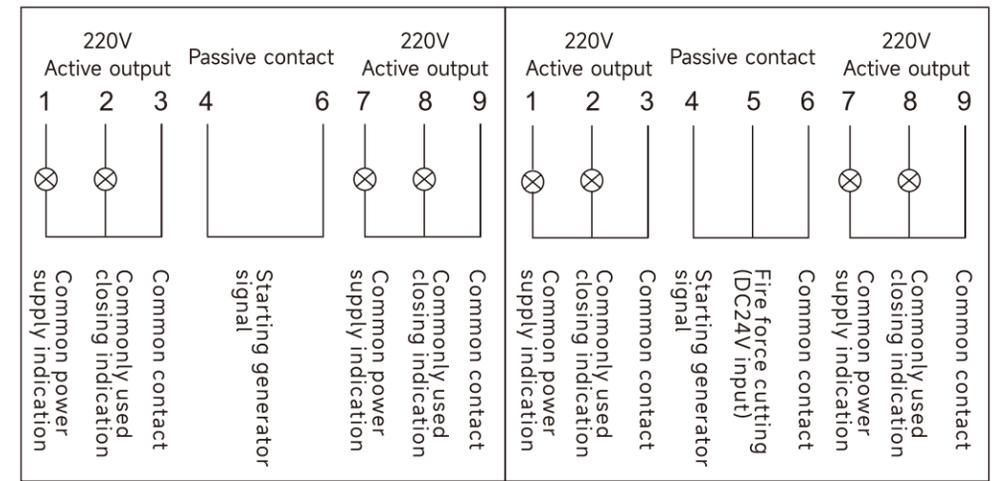
▶ Outline Overall And Installing Dimensions



Mounting size table Unit (mm)

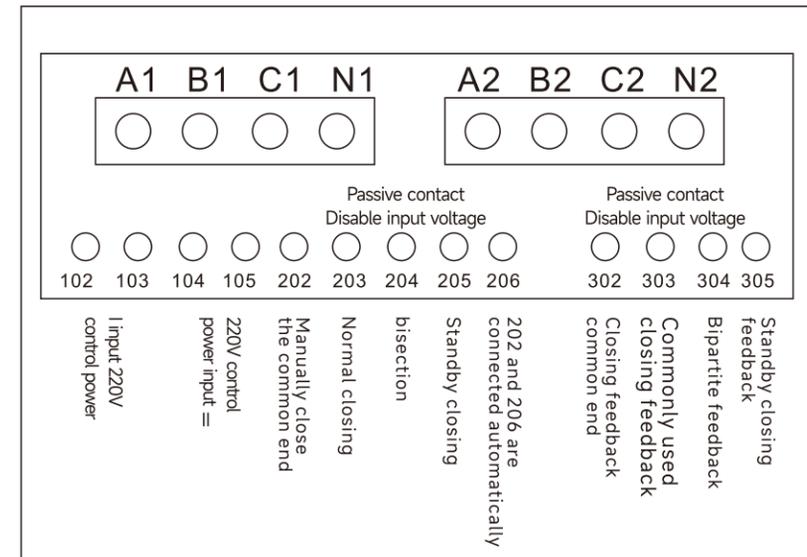
Type specification	dimension	A	A1	B	B1	C	D	R	φ X
125/4P		235	217	129	113	95	29	14	6
250/4P		310	291	176	150	131	46	25	8
630/4P		452	429	255	221	199	65	40	12

▶ External terminal wiring diagram



Basic type

Fire protection type



intelligent

GYHC
Contactors

GLC1
Contactors

GYC1
Contactors

GYC1M
Mini
Contactors

GYPV
DC Fuse
Holder

GYCM3
MCCB

G2R
ATS

GATS-GA
ATS

GATS-G
ATS

HGL
Isolation
Switches

GYW1
ACB



GATS-G Automatic Transfer Switch

This product is a PC-class automatic transfer switch (hereinafter ATS). It is mainly used for AC 50Hz/60Hz, rated voltage of 400V and below, and rated working current of 1250A in a two-neutral grounded power supply system. Switch between them to ensure the reliability and safety of power supply. The ATS has "normally closed", "backup closed" and "two-way open" positions. It is widely used in automatic conversion of common power supply and backup power supply of power supply system or automatic conversion and safety isolation of two load devices. The product is compliant with the standard of GB/T14048.14 "Low-voltage switchgear and control equipment - Part 6-1 Multifunctional electrical transfer switch electrical appliances".

Product use precautions

- 1) This device can only be installed, tested and maintained by professionals.
- 2) Before installation, testing, setting and maintenance, the two power supplies of the device must be cut off.
- 3) It must be checked with a voltmeter to confirm that the power supply has been disconnected.
- 4) The device must be grounded reliably as required.
- 5) Before the device is powered on, the cabinet door and arc extinguishing cover (sheet) should be reset.
- 6) Illegal operation may result in electric shock, burning or explosion.

Working conditions

- ▾ Ambient temperature: The ambient temperature is -5°C~+40°C, and the average temperature should not exceed +35°C within 24 hours.
- ▾ Atmospheric humidity: When the maximum temperature is +40°C, the relative humidity should not exceed 50%, and the monthly maximum relative humidity is 90%. Higher relative humidity can be allowed at lower temperatures. Special measures should be taken for the occasional condensation caused by temperature changes.
- ▾ Installation height: The altitude of the installation site should not exceed 2000 meters.
- ▾ Pollution level: The environmental pollution level of the installation site is level 3.
- ▾ Usage category: The use category is: AC-33B.
- ▾ Electromagnetic environment: Applicable to environment A. The use of this product in environment 8 will cause harmful electromagnetic interference, in which case the user needs to take appropriate protective measures.

Transportation and storage conditions

- ▾ The product shall not be affected by rain and snow during transportation.
- ▾ The storage environment temperature is between -25°C~+55°C, and the relative humidity should be lower than 95% (at 25°C).

Model and Meaning

G	ATS	—	G	□	□
Firm code	Product name				Poles number
GEYA ELECTRICAL	automatic transfer switch		A basic type (not shown) C basic type (with fire-fighting power generation) D basic type (with three-phase detection + fire-fighting power generation)		3P 4P

Product functions

Controller code	Features
type A	1.Common power indication and closing status indication 2.backup power indication and closing status indication 3.Single-phase(A-phase)phase loss detection
Type C	1.Common power indication and closing status indication 2.backup power indication and closing status indication 3.Single-phase(A-phase)phase loss detection 4.Fire-fighting linkage, power generation start and stop function
Type D	1.Common power indication and closing status indication 2.backup power indication and closing status indication 3.Fire protection linkage, power generation start and stop function, three-phase phase loss detection

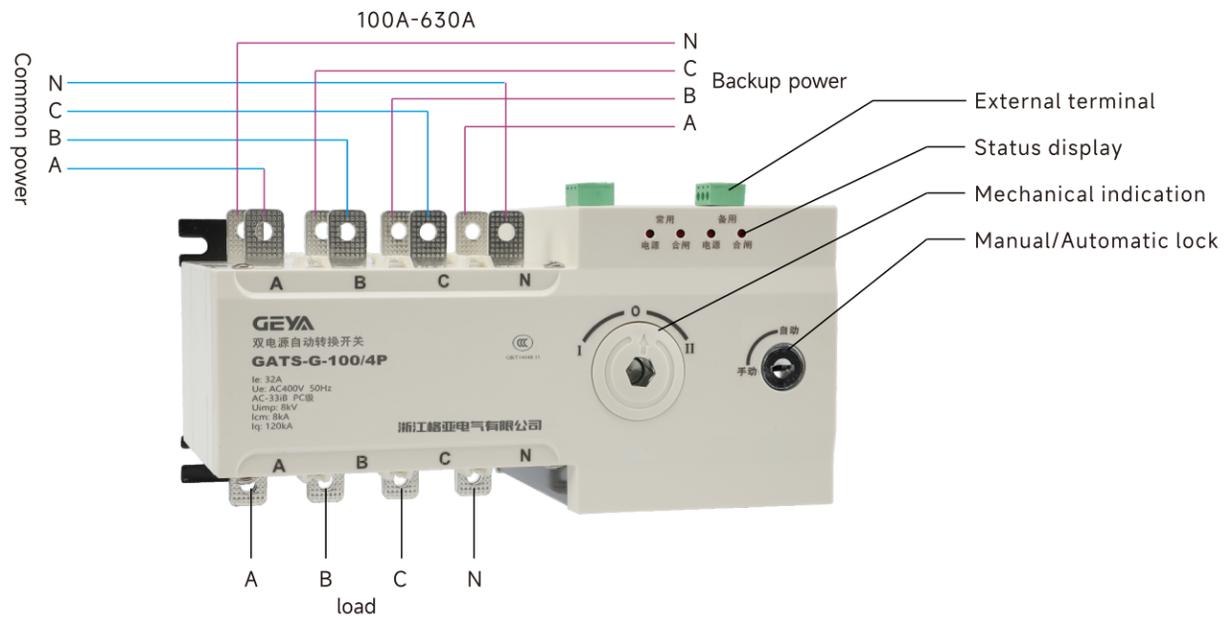
Function parameter sheet

Item	Function code	Type A	Type C	Type D
Working power		AC230V 50/60Hz		
Auxiliary working voltage		AC230V		
Power consumption		≤10W		
Working positions		Three working positions		
Operation		Automatic, manual and manual remote control operation		
Working mode		automatic switching and automatic recovery/automatic switching without automatic recovery		
Display		Only the power supply and closing signal LED display integrated single-phase detection		
Installation		All-in-one		
Voltage monitoring		Single phase detection	Single phase detection	Three-phase phase loss detection
Generator control		--	√	
Fire-fighting linkage control		--	√ (Passive contact input)	

Technical Specification

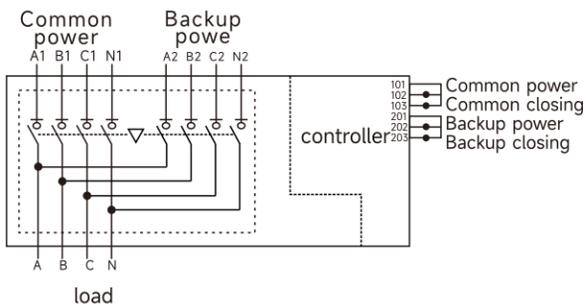
Frame current(A)	100	150	250	400	630	1000	1250
Rated insulation voltage	690V						
Rated impulse withstand voltage	8KV						
Rated working current(A)	16A,20A,25A,30A 32A,40A,50A,60A 63A,70A,75A,80A,100A	125A 140A 160A	200A 225A 250A	315A 350A 400A	500A 630A	800A 1000A	1250A
Rated short-circuit making capacity	8KA	17KA	26KA	50KA			
Rated limited short-circuit current	120KA						
Control voltage	AC230V						

▶ **Wiring diagram**



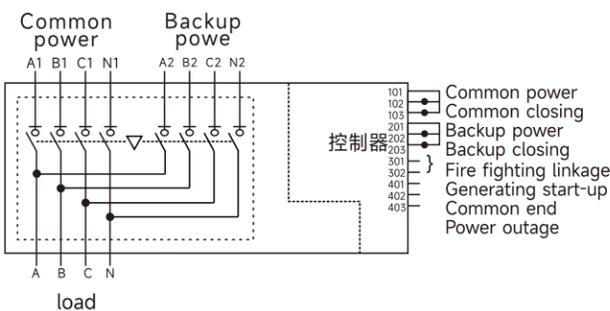
▶ **Terminal definition**

100A~630A type A wiring diagram



- 101-103: Common power supply external status indicator signal output (active AC220V0.5A)
- 101---Common neutral line for signal light
- 102---Common power signal output
- 103---Common closing signal output
- 201-203: External status indicator signal output of backup power supply (active AC220V0.5A)
- 201---Common neutral line for signal light
- 202---Backup power signal output
- 203---Backup closing signal output

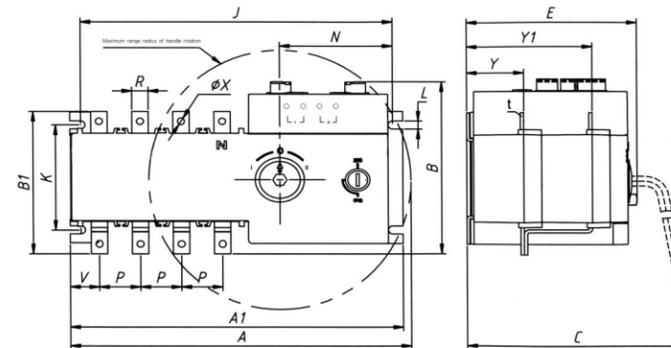
100A~630A type C/type D wiring diagram



- 301302: Fire linkage signal input passive short-circuit
- 1. When the load fire occurs, the 301 and 302 short-circuit control switch to zero and cut off the load power supply
- 401-403: The generator starts and stops the passive output of the control signal.
- 1. When the mains is faulty 402.401 closes, start the generator
- 2. When the mains returns to normal, 402.403 closes and the generator stops working.

▶ **Outline Overall And Installing Dimensions**

100A~630A



Specification	Product and Installation Dimension																
	In	A	A1	B	B1	C	E	J	K	L	N	P	R	V	X	Y	Y1
100A/4P	330	244	142	123	165	125	228	85	6.5	83	30	14	21	6.5	41.5	91.5	2.5
160A/4P	374	301	175	140	200	166	285	102	7	94	36	20	32	8.5	55.5	125.5	3.5
250A/4P	436	373	175	178	250	198	350	108	6.5	105	50	24	37	11	72	157	3.5
630A/4P	502	433	260	260	295	244	416	180	9	101	65	40	47.5	12	83	193	5
1000A/4P	1050	636	365	355	373	320	612	220	11	83.5	120	60	71	13	109	241	8
1250A/4P	1050	636	375	366	373	320	612	220	11	83.5	120	80	71	13	109	241	8

GYHC Contactors

GLC1 Contactors

GYC1 Contactors

GYC1M Mini Contactors

GYPV DC Fuse Holder

GYCM3 MCCB

G2R ATS

GATS-GA ATS

GATS-G ATS

HGL Isolation Switches

GYW1 ACB

▶ **Use and Maintenance**

1、 Working voltage
The rated working voltage of this product is: AC230V 50/60Hz.

2、 Wiring
When wiring the product, it should be strictly in accordance with the wiring mark, and the neutral wire should be connected to the neutral terminal for three-pole products. Carry out the wiring of fire linkage and power generation control according to the actual situation. Finally, make sure that the product is well grounded.

3、 Inspection and maintenance
During the use of the product, general inspection should be carried out regularly, and the power supply should be manually or automatically converted once to check whether the product is running normally. Regular maintenance to remove dust and maintain the insulating properties of the product



HGL Isolation Switches

Modular design structure with flexible and diverse combinations, using glass fiber reinforced unsaturated polyester resin to manufacture the shell, with high dielectric performance, protective ability, and reliable safety. The operating mechanism is an acceleration mechanism with spring energy storage and instantaneous release. The speed of the operating handle is independent of the instantaneous connection and disconnection double break point contact structure. The switch has multiple structures and operating modes, including a window for directly observing the on/off status of the contacts, operations inside, outside, and behind the cabinet, front and side operations, and wiring in front and behind the board.

▶ Applicable scope

The personnel load isolation switch is mainly used for AC 50Hz, rated voltage 660V, DC rated voltage 440V, and rated current up to 3150A. Used for infrequent connection and disconnection of circuits and lines for isolation purposes.

▶ Product Feature

- ▶ The acceleration mechanism with instantaneous release of spring energy storage achieves fast connection or disconnection (13.8 meters/second), independent of the speed of the operating handle, greatly improving the ability to extinguish arcs.
- ▶ The shell made of glass fiber reinforced unsaturated polyester resin has good flame retardancy, dielectric properties, carbonization resistance, and impact resistance.
- ▶ Parallel double break point contacts have self-cleaning effects.
- ▶ All contact materials are copper plated silver alloy with two separate contact surfaces.
- ▶ Large isolation distance.
- ▶ When in the "O" position, three locks can be used simultaneously to lock the handle, reliably avoiding accidental operation.

▶ Model and Meaning

□		— □A / □	□	□	K	□	B	H
Isolation switch		Agreed heating current	Number of poles: 3 levels, 4 poles	J: Operation outside the cabinet C: Side operated isolation switch	Directly observe the contact window without paying attention	Auxiliary contact code (see table), does not need to be specified	Rear board wiring, front board wiring not noted	Operation behind the cabinet, not in front of the cabinet
One normally open and one normally closed	F11 F1NO+F1NC							
Two normally open and two normally closed	F22 F2NO+F2NC							

▶ Compliant with standards

- ▶ international standard
IEC60947-1 (1998) "Low voltage switchgear and control equipment Part 1 General principles"
IEC60947-3 (1999) "Low voltage switchgear and control equipment, switches, isolators, isolating switches, and fuse assemblies"
- ▶ national standards
GB/T14048.1-2000 General Principles for Low Voltage Switchgear and Control Equipment
GB/T14048.3-2002 "Low voltage switchgear and control equipment, switches, isolators, isolating switches, and fuse assemblies"

▶ Usage environment

The load isolation switch can work reliably under the following conditions:

- ▶ The altitude does not exceed 2000 meters;
- ▶ The ambient temperature shall not be higher than 40 °C, not lower than -5 °C, and the relative humidity shall not exceed 95%;
- ▶ No explosive hazardous media;
- ▶ No rain or snow invading the environment.

Note: If it is expected to be used under conditions where the ambient air temperature is above +40 °C or below -5 °C~45 °C, the user should explain to the manufacturer.

▶ Main Technical Parameters

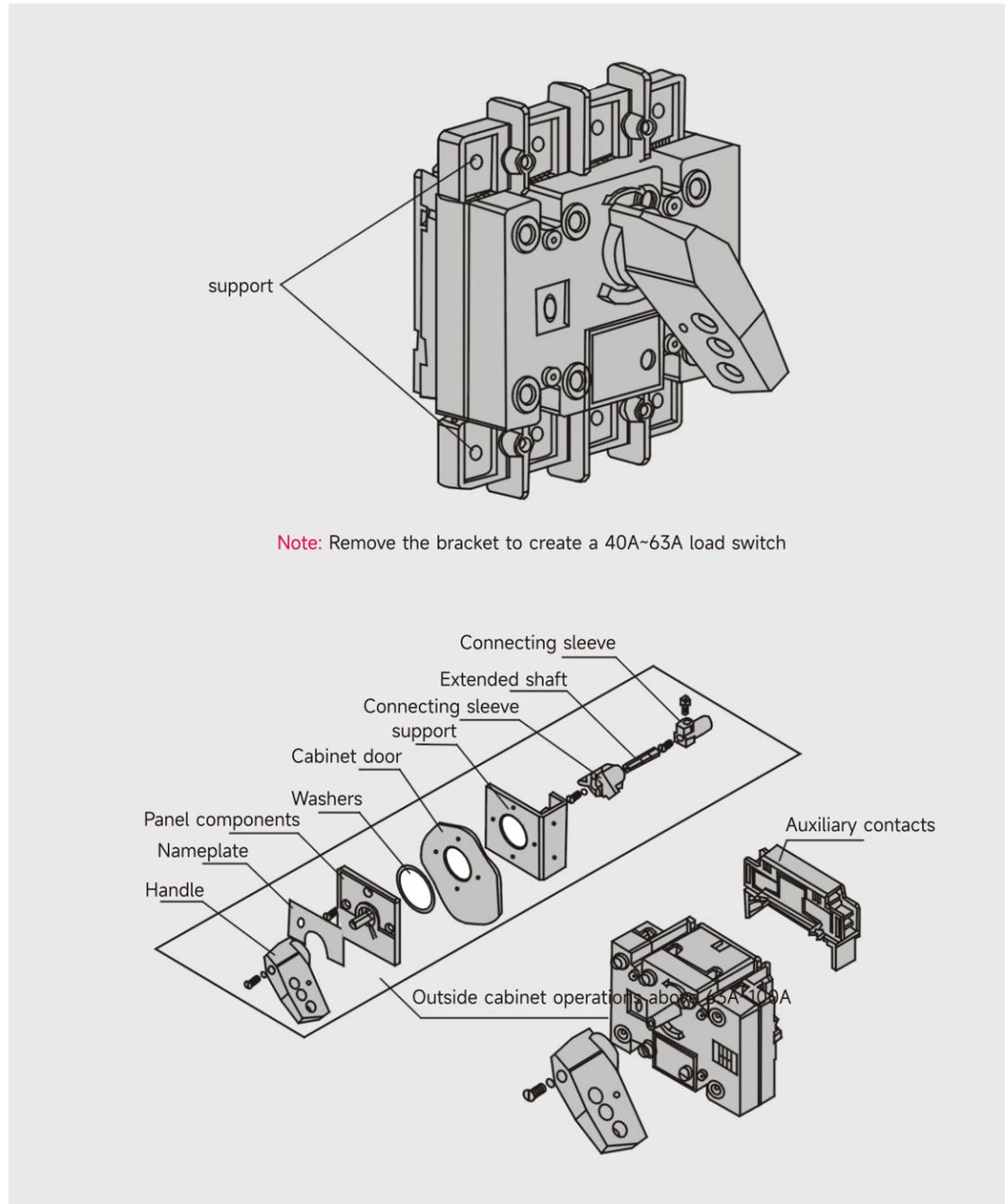
Rated Thermal Current I _{th} (A)		63A	100A	160A	250A	400A	630A	1000A	1250A	1600A	2000A	2500A	3150A			
Rated Insulation Voltage U _I (V)		750		800		1000										
Dielectric Strength(V)		3000				3500										
Rated Impulse Withstand Voltage U _{imp} (kV)		6		8		12										
Rated Operational Voltage U _e (V)		AC400、600														
Rated Frequency		50Hz														
Utilization Category		AC-21、22、23														
Rated Operational Current I _e (A)	AC440V	AC-21	63	100	160	250	400	630	1000	1250	1600	2000	2500	3150	GYHC Contactors	
		AC-22	63	100	160	250	400	630	1000	1250	1600	2000	2500	3150		GLC1 Contactors
		AC-23	50	80	160	250	400	630	800	1000	1250	1250	2000	2500		
	AC660V	AC-21	63	100	160	250	400	630	1000	1250	1600	2000	2500	3150	GYC1 Contactors	
AC-22		63	80	100	200	315	400	630	630	800	1000	1000	1250			
AC-23		40	63	63	125	200	250	250	400	500	/	/	/			
Rated Making Capacity(A)		10I _e														
Rated Breaking Capacity(A)		8I _e														
Rated Short-Circuit Making Capacity I _{cm} (kA Rms)		1.7	1.7	12	17	30	40	70			70			GYC1M Mini Contactors		
1S Short-Time Withstand Current I _{cw} (kA Rms)		3	3	10	12	20	25	50			50			GYPV DC Fuse Holder		
Mechanical Life (Times)		5000	5000	5000			3000		2000			1000			GYCM3 MCCB	
Electrical Life (Times)		1000	1000	1000			600		300			/				
Operating Torque (N·m)		3.5	3.5	6.5	10	15			27			60			G2R ATS	
Weight kg (excluding handle)	3Pole	0.32	0.39	0.88	1.6	3.8	4.2	10.5	10.5	16	31	31	42	GATS-GA ATS		
	4Pole	0.34	0.41	1.1	2	4.6	5	13	13	20	40	40	49			

▶ 63-3150A compliant with isolating switch

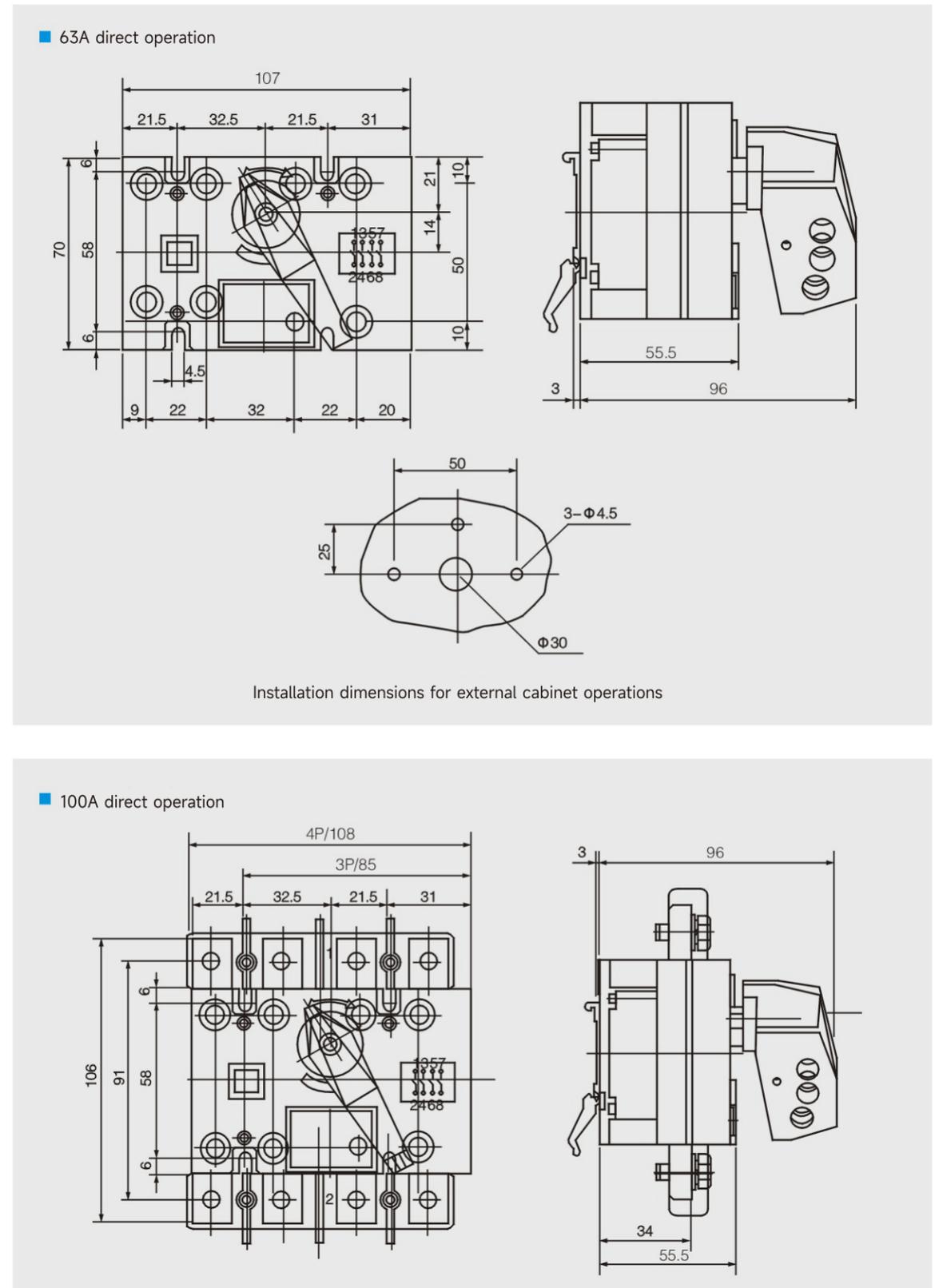
- ▶ The load isolation switch is divided into 7 specifications from 63 to 3150A, which is a modular design basic type with three poles and four poles (three poles+neutral pole that can be turned on or off). It is mainly used for circuit connection and disconnection or electrical isolation, and only for electrical isolation above 1000A.
- ▶ There is a marking window on the front to indicate the on/off status of the contacts.
- ▶ According to the needs, a rear observation window can be provided to directly observe the on/off status of the contacts. The window style can be found in the operating load isolation switch behind the 160A~1600A/H cabinet.
- ▶ Can be equipped with two sets of auxiliary contacts.
- ▶ Cable insulation cover can be configured.

▶ **63~100A load isolation switch**

- ▶ 63A~100A is suitable for making and breaking circuits or electrical isolation.
- ▶ 63A~100A have three poles and four poles (three poles+neutral pole that can be turned on or off).
- ▶ Two sets of auxiliary contacts can be installed as needed.
- ▶ Side cabinet inside and outside operations can be provided as needed.

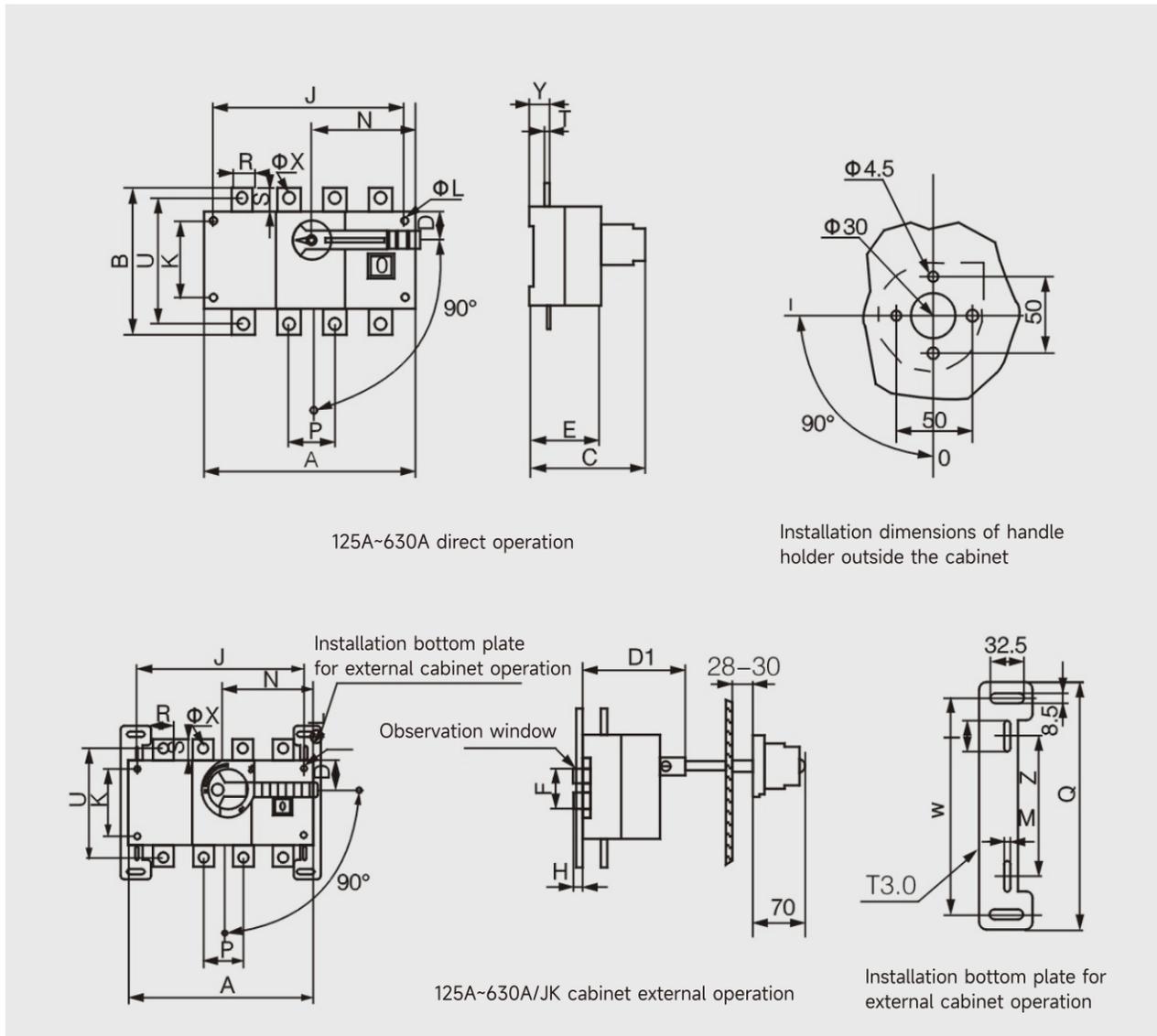


▶ **Outline and installation dimensions of 63~100A load isolation switches**



GYHC	Contactors
GLC1	Contactors
GYC1	Contactors
GYC1M	Mini Contactors
GYPV	DC Fuse Holder
GYCM3	MCCB
G2R	ATS
GATS-GA	ATS
GATS-G	ATS
HGL	Isolation Switches
GYW1	ACB

▶ Appearance and installation dimensions of 125~630A load isolation switches

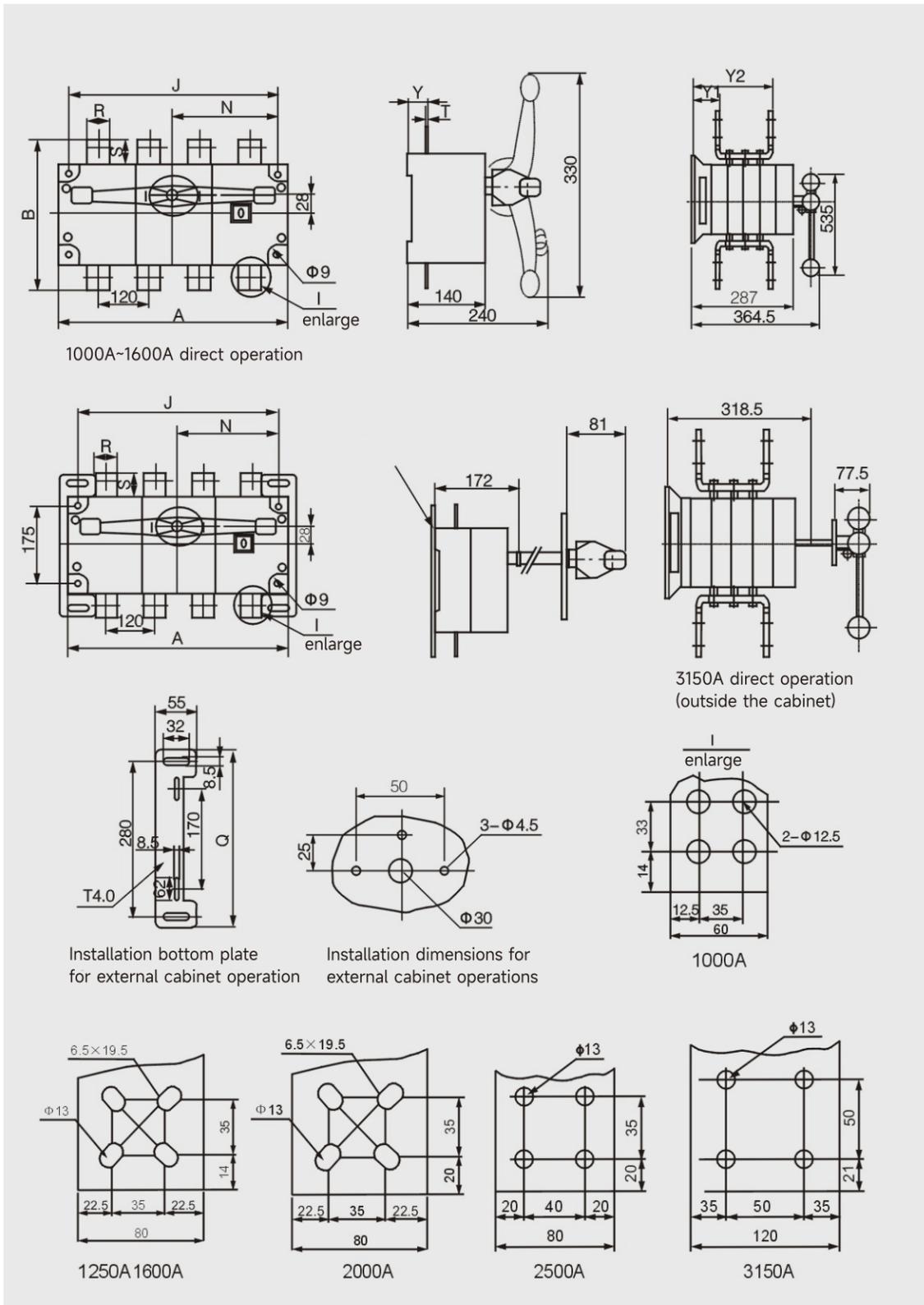


specifications	plate size				
125~630A	I	M	Z	W	Q
125A	55	5.5	85	190	218
160A	55	5.5	85	190	218
200A	55	5.5	85	190	218
250A	55	5.5	85	190	218
315A	60	6.5	130	240	270
400A	60	6.5	130	240	270
500A	60	6.5	130	240	270
630A	60	6.5	130	240	270

specifications	External dimensions and installation dimensions																						
	H	F	Y	ΦX	U	T	S	R	P	N	K	J1	J	ΦL	E	D1	D	C	B	A	A1	A	In
125A/3	10	52	24	9	85	3.5	235	20	36	85	65	120	120	5.5	71	92	27	116	135	50	140	140	10
125A/4	10	52	24	9	85	3.5	235	20	36	85	65	150	150	5.5	71	92	27	116	135	50	170	170	125A/4
160A/3	10	52	24	9	85	3.5	235	20	36	85	65	120	120	5.5	71	92	27	116	135	140	140	140	160A/3
160A/4	10	52	24	9	85	3.5	235	20	36	85	65	150	150	5.5	71	92	27	116	135	170	170	170	160A/4
200A/3	13	79	25	11	110	3.5	290	25	50	115	90	160	160	5.5	83	104	35	128	170	180	180	200A/3	
200A/4	13	79	25	11	110	3.5	290	25	50	115	90	210	210	5.5	83	104	35	128	170	230	230	200A/4	
250A/3	13	79	25	11	110	3.5	290	25	50	115	90	160	160	5.5	83	104	35	128	180	180	180	250A/3	
250A/4	13	79	25	11	110	3.5	290	25	50	115	90	210	210	5.5	83	104	35	128	180	230	230	250A/4	
315A/3	24	100	36	11	160	5	400	30	65	145	140	210	210	7	113	133	50	169	240	240	240	315A/3	
315A/4	24	100	36	11	160	5	400	30	65	145	140	270	270	7	113	133	50	169	240	240	240	315A/4	
400A/3	24	100	36	11	160	5	400	30	65	145	140	210	210	7	113	133	50	169	260	260	260	400A/3	
400A/4	24	100	36	11	160	5	400	30	65	145	140	270	270	7	113	133	50	169	260	260	260	400A/4	
500A/3	24	100	36	12	160	6	400	40	65	145	140	210	210	7	113	133	50	169	260	260	260	500A/3	
500A/4	24	100	36	12	160	6	400	40	65	145	140	270	270	7	113	133	50	169	260	260	260	500A/4	
630A/3	24	100	36	12	160	6	400	40	65	145	140	210	210	7	113	133	50	169	260	260	260	630A/3	
630A/4	24	100	36	12	160	6	400	40	65	145	140	270	270	7	113	133	50	169	260	260	260	630A/4	

- GYHC Contactors
- GLC1 Contactors
- GYC1 Contactors
- GYC1M Mini Contactors
- GYPV DC Fuse Holder
- GYCM3 MCCB
- G2R ATS
- GATS-GA ATS
- GATS-G ATS
- HGL Isolation Switches
- GYW1 ACB

▶ Appearance and installation dimensions of 125~630A load isolation switches



specifications	External dimensions and installation dimensions																		
	In	A	A1	B	D	E	F	G	J	J1	N	R	S	T	U	Y	Y1	Y2	Q
1000A/3	378	105	105	312	-	-	-	-	353	353	186	60	480	8	200	48	-	-	311
1000A/4	492	105	105	312	-	-	-	-	467	467	246	60	480	8	200	48	-	-	311
1250A/3	378	105	105	338	20	40	16	35	353	353	186	80	480	8	200	48	-	-	311
1250A/4	492	105	105	338	20	40	16	35	467	467	246	80	480	8	200	48	-	-	311
1600A/3	378	105	105	338	20	40	16	35	353	353	186	80	480	10	200	49	-	-	311
1600A/4	492	105	105	338	20	40	16	35	467	467	246	80	480	10	200	49	-	-	311
2000A/3	378	-	-	455	20	40	20	40	353	353	186	80	560	10	200	-	75.5	227.5	311
2000A/4	492	-	-	455	20	40	20	40	467	467	246	80	560	10	200	-	75.5	227.5	311
2500A/3	378	-	-	455	20	40	20	40	353	353	186	80	560	10	200	-	75.5	227.5	311
2500A/4	492	-	-	455	20	40	20	40	467	467	246	80	560	10	200	-	75.5	227.5	311
3150A/3	378	-	-	505	25	50	25	50	353	353	186	100	560	14	200	-	78	230	311
3150A/4	492	-	-	505	25	50	25	50	467	467	246	100	560	14	200	-	78	230	311

- GYHC Contactors
- GLC1 Contactors
- GYC1 Contactors
- GYC1M Mini Contactors
- GYPV DC Fuse Holder
- GYCM3 MCCB
- G2R ATS
- GATS-GA ATS
- GATS-G ATS
- HGL Isolation Switches
- GYW1 ACB



GYW1 Intelligent Circuit Breaker

Intelligent circuit breakers are used to control and protect low-voltage distribution networks, and are generally installed in low-voltage distribution box as the main switch for overall protection. AC rated current 200A-6300A; short-circuit breaking capacity 80KA-120KA(effective value);rated working voltage AC690V and below; The breakers comply with the demands of the following standards: IEC60947-2,GB14048.2

▶ Technical Specification

Model		2000					
Frame rating current rating Inm(A)		2000					
Rated current In(A)		200/400/630	800	1000	1250	1600	2000
Rated working voltage Ue		AC400,690 50Hz					
Rated insulation voltage Ui		AC1000,50Hz					
Rated impulse withstand voltage Uimp		8000					
Power frequency tolerance voltage U		AC350V/1min,50Hz					
Poles		3/4					
Pole N rated current IN(A)		50%In 100%In					
Rated ultimate short-circuit segment capacity Icu(kA)(RMS)	AC400V	80					
	AC690V	50					
Rated operating short-circuit segment capacity Ics(kA)(RMS)	AC400V	50					
	AC690V	40					
Rated short-circuit connecting capacity Icm(kA)(peak)	AC400V	176					
	AC690V	105					
Rated short-time tolerance current(1s)Icw(kA)(RMS)	AC400V	50					
	AC690V	40					
Full breaking time (without additional delay)		25-30					
Closing time		Max70					
Operational performance	Electric life	AC400V	500				
		AC690V	500				
	Mechanical life	No maintenance	2500				
		Have maintenance	10000				

Model		4000				6300			
Frame rating current rating Inm(A)		4000				6300			
Rated current In(A)		2500	2900	3200	3600	4000	4000	5000	6300
Rated working voltage Ue		AC400,690 50Hz							
Rated insulation voltage Ui		AC1000,50Hz							
Rated impulse withstand voltage Uimp		8000							
Power frequency tolerance voltage U		AC350V/1min,50Hz							
Poles		3/4							
Pole N rated current IN(A)		50%In 100%In							
Rated ultimate short-circuit segment capacity Icu(kA)(RMS)	AC400V	100				120			
	AC690V	65				75			
Rated operating short-circuit segment capacity Ics(kA)(RMS)	AC400V	65				100			
	AC690V	20				65			
Rated short-circuit connecting capacity Icm(kA)(peak)	AC400V	220				264			
	AC690V	143				165			
Rated short-time tolerance current(1s)Icw(kA)(RMS)	AC400V	65				85			
	AC690V	50				65			
Full breaking time (without additional delay)		25-30							
Closing time		Max70							
Operational performance	Electric life	AC400V	500						
		AC690V	500						
	Mechanical life	No maintenance	2500				2000		
		Have maintenance	10000				8000		

GYHC Contactors

GLC1 Contactors

GYC1 Contactors

GYC1M Mini Contactors

GYPV DC Fuse Holder

GYCM3 MCCB

G2R ATS

GATS-GA ATS

GATS-G ATS

HGL Isolation Switches

GYW1 ACB

▶ Normal Operating Conditions

The ambient temperature is -5°C or +40°C, and the daily average maximum temperature is +35°C.

The altitude of the installation site should be lower than 2000m.

Relative humidity: The maximum value is 50% at 40°C, and the maximum value is 90% at 25°C.

Considering the condensation on the surface due to temperature changes, special measures should be taken.

The pollution level is 3

The installation category of the main circuit of the circuit breaker, the voltage trip coil, and the primary coil of the power transformer is IV, and the installation category of the remaining auxiliary circuits and control circuits is III.

The vertical inclination of the circuit breaker should be smaller than +5.

GEYA®