



ZHEJIANG GEYA ELECTRICAL CO.,LTD

ELECTRICAL

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GEYA
www.geya.net



CHINA GEYA
ELECTRICAL
Product catalog



2005

Company profile

Geya Electrical was established in 2005, and our head office is based in Wenzhou China.

Our products are exported to more than 20 countries and regions such as South America, Western Europe, the Middle East, Africa, Australia, South Asia, East Asia, etc.

Geya is ISO9001 Quality Assurance accredited and both quality and safety are of paramount importance to us. Our products have SEMKO VDE and CE certificates.

Our experience and expertise Modern, innovative products design, Vast OEM experience, Constant new products development, Strong R&D capabilities, Competitive prices, Excellent international market knowledge, Professional dynamic and customer focused staff, Flexible trading terms, Quality and timely deliveries.

GEYA

ZHEJIANG GEYA ELECTRICAL CO.,LTD



Everything for your electricity safety!



ELECTRICAL

CHINA GEYA

GEYA company are focus on the development of low-voltage electrical with main sprit of research, technology, quality, service, and hosnesty, we are sticking to the profession road of industrial, making GEYA as one of the most famous brand in the world.



Certificate



The product complies with the standard(s)

Date of expiry

EU Directive information

27 April 2017

The product satisfies the provisions for CE marking according to the Low Voltage Directive 2006/95/EC.

Qualification certificate

GEYA

Kista - Stockholm

Additional information in Appendix.
Intertek Semko AB, Product Certification

Date 27 April 2017
Page 1



General

GYM8 miniature circuit breaker is mainly used for protection against overload and short circuit under the AC 50Hz/60Hz, rated voltage 230V/400V and rated current from 1A to 63A. It also can be used for non-frequent on-and-off switch operation under normal circumstance.

- ▲ In compliance with IEC/EN60898-1
- ▲ With indicator function in the contact position.
- ▲ Transparent cover designed to carry label.
- ▲ Bilateral busbar wiring capabilities to adapt to the wider use of premises.
- ▲ Maximum connecting ability of 25mm², wiring torque 3N·m, applicable to a variety of installing equipments, wiring stronger
- ▲ Protection class: IP20

Technical Data

Electrical features

Rated current In	1-63A
Poles	1P 2P 3P 4P
Rated voltage Ue	1P: 230/400V~ 2/3/4P:400~
Insulation voltage Ui	500V
Rated frequency	50/60Hz
Rated breaking capacity	4500/6000A
Rated impulse withstand voltage(1.2/50) Uimp	6kV
Dielectric test voltage at and ind. freq.for 1 min	2kV
Pollution degree	2
Thermo-magnetic release characteristic	B C D
Electrical life	4000
Mechanical life	10000

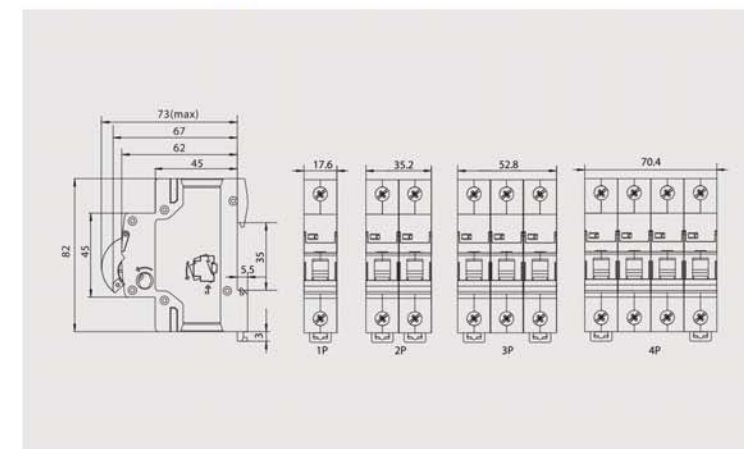
Installation

Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature (with daily average ≤35℃)	-5~+40℃
Storage temperature	-25~+70℃
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Terminal size top/bottom for cable	25mm ² 18-3
Tightening torque	3.0N·m 22
Mounting	On DIN rail FN 60715 (35mm) by means of fast clip device
Connection	Top and bottom

Combination with accessories

Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

Overall and mounting dimensioned chart





General

GYM9 miniature circuit breaker is mainly used for protection against overload and short circuit under the AC 50Hz/60Hz, rated voltage 230V/400V and rated current from 1A to 63A. It also can be used for non-frequent on-and-off switch operation under normal circumstance.

- ▲ In compliance with IEC/EN60898-1
- ▲ With indicator function in the contact position.
- ▲ Bilateral busbar wiring capabilities to adapt to the wider use of premises.
- ▲ Maximum connecting ability of 25mm², wiring torque 3N*m, applicable to a variety of installing equipments, wiring stronger
- ▲ Protection class: IP20

Technical Data

Electrical features

Rated current In	1-63A
Poles	1P 2P 3P 4P
Rated voltage Ue	1P: 230/400V~ 2/3/4P: 400V~
Insulation voltage Ui	500V
Rated frequency	50/60Hz
Rated breaking capacity	6000/10000A
Rated impulse withstand voltage(1.2/50) Uimp	6kV
Dielectric test voltage at and ind. freq. for 1min	2kV
Pollution degree	2
Thermo-magnetic release characteristic	B C D
Electrical life	8000
Mechanical life	20000

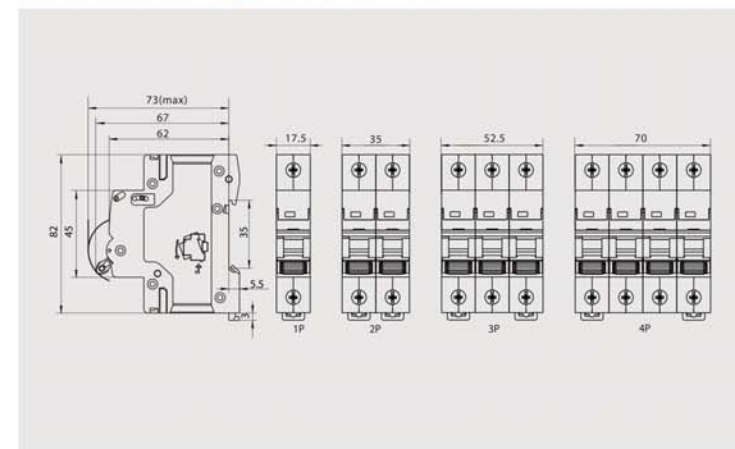
Installation

Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature (with daily average ≤35℃)	-5~+40℃
Storage temperature	-25~+70℃
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Terminal size top/bottom for cable	25mm ² 18-3
Tightening torque	3.0N·m 22
Mounting	On DIN rail FN 60715 (35mm) by means of fast clip device
Connection	Top and bottom

Combination with accessories

Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

Overall and mounting dimensioned chart





General

GYM10 miniature circuit breaker is mainly used for protection against overload and short circuit under the AC 50Hz/60Hz, rated voltage 230V/400V and rated current from 1A to 63A. It also can be used for non-frequent on-and-off switch operation under normal circumstance.

- ▲ In compliance with IEC/EN60898-1
- ▲ With indicator function in the contact position.
- ▲ Bilateral busbar wiring capabilities to adapt to the wider use of premises.
- ▲ Maximum connecting ability of 25mm², wiring torque 3N*m, applicable to a variety of installing equipments, wiring stronger
- ▲ Protection class: IP20

Technical Data

Electrical features

Rated current In	1-63A
Poles	1P 2P 3P 4P
Rated voltage Ue	1P: 230/400V~ 2/3/4P: 400~
Insulation voltage Ui	500V
Rated frequency	50/60Hz
Rated breaking capacity	6000/10000A
Rated impulse withstand voltage(1.2/50) Uimp	6kV
Dielectric test voltage at and ind. freq.for 1min	2kV
Pollution degree	2
Thermo-magnetic release characteristic	B C D
Electrical life	8000
Mechanical life	20000

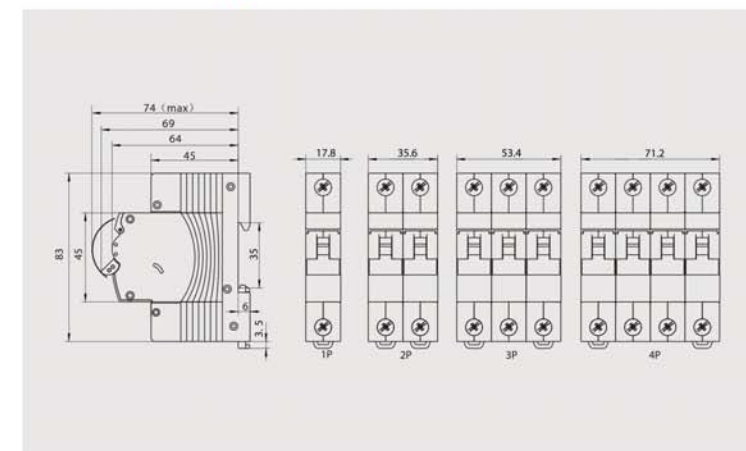
Installation

Contact position indicator	Yes
Protection degree	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature (with daily average ≤35℃)	-5~+40℃
Storage temperature	-25~+70℃
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Terminal size top/bottom for cable	25mm ² 18-3
Tightening torque	3.0N·m 22
Mounting	On DIN rail FN 60715 (35mm) by means of fast clip device
Connection	Top and bottom

Combination with accessories

Auxiliary contact	NO
Alarm contact	NO
Shunt release	NO
Under voltage release	NO

Overall and mounting dimensioned chart





General

GYL8 earth leakage circuit breaker is suitable to the circuit of AC50/60Hz, rated voltage 230V for 2 poles and 400V for 4 poles, and rated current up to 63A. When people come across the electric shock or the leakage current of the electrical network exceeds the fixed value, this product can cut off the fault current in short period so as to protect person and the equipments. It also can be used in the infrequent starting of the circuit and motors.

The circuit breaker is suitable to industry, commerce, high-rise building, household and other kinds of places. This product meets the standard of IEC/EN61008-1.

It has the following features:

- ▲ In compliance with IEC/EN61008-1
- ▲ Bilateral busbar wiring capabilities to adapt to the wider use of premises.
- ▲ With functions of fault indicator.
- ▲ Maximum connecting ability of 25mm² wiring torque 3N·m, applicable to a variety of installing equipments, wiring stronger.
- ▲ Protection class: IP20

Technical Data

Electrical features

Rated current I_n	16A、25、40、63A
Poles	2P 4P
Rated voltage U_e	2P:230V~ 4P:400V~
Insulation voltage U_i	500V
Rated frequency	50/60Hz
Rated sensitivity $I_{\Delta n}$	0.03A 0.1A 0.3A
Rated residual making and breaking capacity I_m	500($I_n=25-40A$) 630($I_n=63A$)
Short-circuit current $I_{nc}=I_{\Delta c}$	6000A
SCPD fuse	[6000]
Break time under $I_{\Delta n}$	≤0.1S
Rated impulse withstand voltage(1.2/50) U_{imp}	6000V
Dielectric test voltage at and ind. Freq. for 1min	2.5kV
Electrical life and Mechanical life	4000
Pollution degree	2

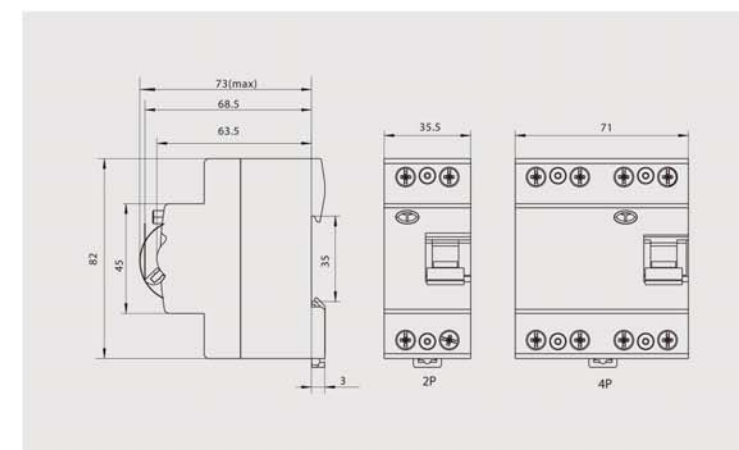
Installation

Fault current indicator	NO
Protection degree	IP20
Ambient temperature(with daily average ≤35℃)	-5~+40℃
Storage temperature	-25~+70℃
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Terminal size top/bottom for busbar	25mm ² 18-3
Tightening torque	3N·m 22
Mounting	On DIN rail FN 60715 (35mm) by means of fast clip device
Connection	From top and bottom

The wiring diagram



Overall and mounting dimensioned chart





General

GYL9 earth leakage circuit breaker is suitable to the circuit of AC50/60Hz, rated voltage 230V for 2 poles and 400V for 4 poles, and rated current up to 63A. When people come across the electric shock or the leakage current of the electrical network exceeds the fixed value, this product can cut off the fault current in short period so as to protect person and the equipments. It also can be used in the infrequent starting of the circuit and motors.

The circuit breaker is suitable to industry, commerce, high-rise building, household and other kinds of places. This product meets the standard of IEC/EN61008-1.

It has the following features:

- ▲ In compliance with IEC/EN61008-1
- ▲ Bilateral busbar wiring capabilities to adapt to the wider use of premises.
- ▲ With functions of fault indicator.
- ▲ Maximum connecting ability of 35mm², wiring torque 3.5N·m, applicable to a variety of installing equipments, wiring stronger.
- ▲ Protection class: IP20

Technical Data

Electrical features

Rated current I _n	16、25、40、63、80、100A
Poles	2P 4P
Rated voltage U _e	2P:230V~ 4P:400V~
Insulation voltage U _i	500V
Rated frequency	50/60Hz
Rated sensitivity I _{Δn}	0.03A 0.1A 0.3A
Short-circuit current I _{nc} =I _{Δc}	10000A
SCPD fuse	10000
Break time under I _{Δn}	≤0.1S
Rated impulse withstand voltage(1.2/50)U _{imp}	6000V
Dielectric test voltage at and ind.Freq.for 1min	2.5kV
Electrical life(time)	4000
Mechanical life(time)	8000
Pollution degree	2

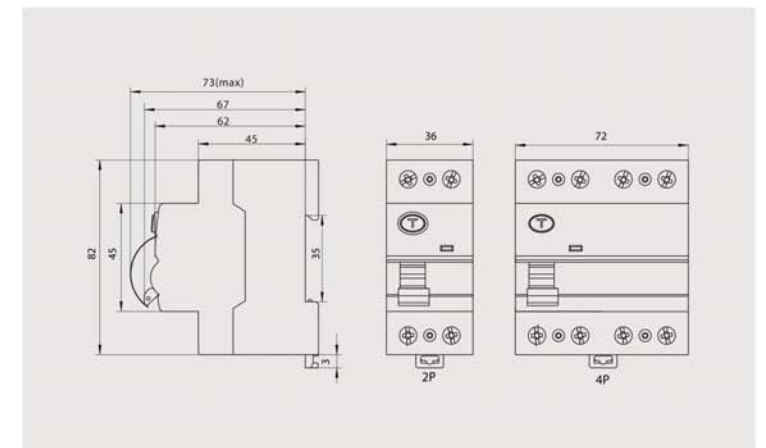
Installation

Fault current indicator	YES
Protection degree	IP20
Ambient temperature(with daily average≤35℃)	-5~+40℃
Storage temperature	-25~+70℃
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Terminal size top/bottom for busbar	25mm ² 18-3
Tightening torque	3N·m 22
Mounting	On DIN rail FN 60715 (35mm) by means of fast clip device
Connection	From top and bottom

The wiring diagram



Overall and mounting dimensioned chart





General

GYL10 earth leakage circuit breaker is suitable to the circuit of AC50/60Hz, rated voltage 230V for 2 poles and 400V for 4 poles, and rated current up to 63A. When people come across the electric shock or the leakage current of the electrical network exceeds the fixed value, this product can cut off the fault current in short period so as to protect person and the equipments. It also can be used in the infrequent starting of the circuit and motors.

The circuit breaker is suitable to industry, commerce, high-rise building, household and other kinds of places. This product meets the standard of IEC/EN61008-1.

It has the following features:

- ▲ In compliance with IEC/EN61008-1
- ▲ Bilateral busbar wiring capabilities to adapt to the wider use of premises.
- ▲ With functions of fault indicator.
- ▲ Maximum connecting ability of 25mm², wiring torque 3N·m, applicable to a variety of installing equipments, wiring stronger.
- ▲ Protection class: IP20

Technical Data

Electrical features

Rated current I _n	25、40、63A
Poles	2P 4P
Rated voltage U _e	2P:230V~ 4P:400V~
Insulation voltage U _i	500V
Rated frequency	50/60Hz
Rated sensitivity I _{Δn}	0.03A 0.1A 0.3A
Rated residual making and breaking capacity I _m	500(I _n =25-40A) 630(I _n =63A)
Short-circuit current Inc=I _{Δc}	6000A
SCPD fuse	6000
Break time under I _{Δn}	≤0.1S
Rated impulse withstand voltage(1.2/50)U _{imp}	6000V
Dielectric test voltage at and ind.Freq.for 1min	2.5kV
Electrical life and Mechanical life	4000
Pollution degree	2

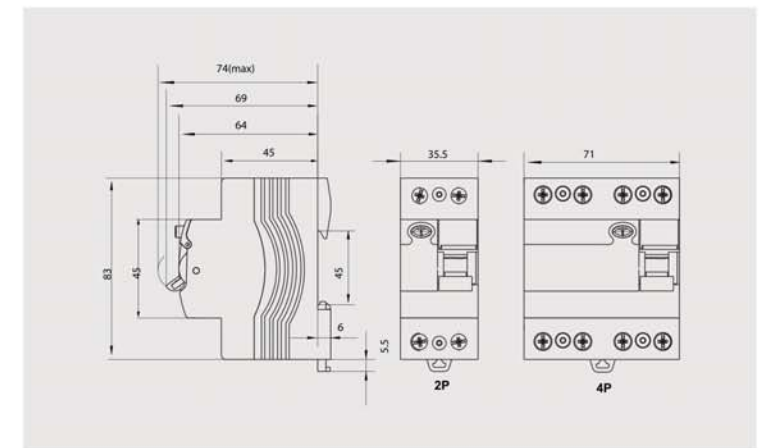
Installation

Fault current indicator	NO
Protection degree	IP20
Ambient temperature(with daily average≤35℃)	-5~+40℃
Storage temperature	-25+70℃
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Terminal size top/bottom for busbar	25mm ² 18-3
Tightening torque	3N·m 22
Mounting	On DIN rail FN 60715 (35mm) by means of fast clip device
Connection	From top and bottom

The wiring diagram



Overall and mounting dimensioned chart





General

As the main switch in the combination of electrical terminal apparatus, GYH8 isolator is suitable for circuit of 50Hz, rated voltage 230V/400V, rated current up to 125A for isolating, it also can be used for infrequent on-and-off circuit, and is widely used in industry, mine, high-building, commerce and household and so on.

- ▲ In conformity to IEC/EN60947-3
- ▲ Double-point direct-moving structure
- ▲ With indicator function in the contact position
- ▲ Bilateral busbar wiring capabilities to adapt to the wider use of premises
- ▲ Maximum connecting ability of 35/50mm², wiring torque 3.5N·m, applicable to a variety of installing equipments, wiring stronger.
- ▲ Protection class: IP20

Technical Data

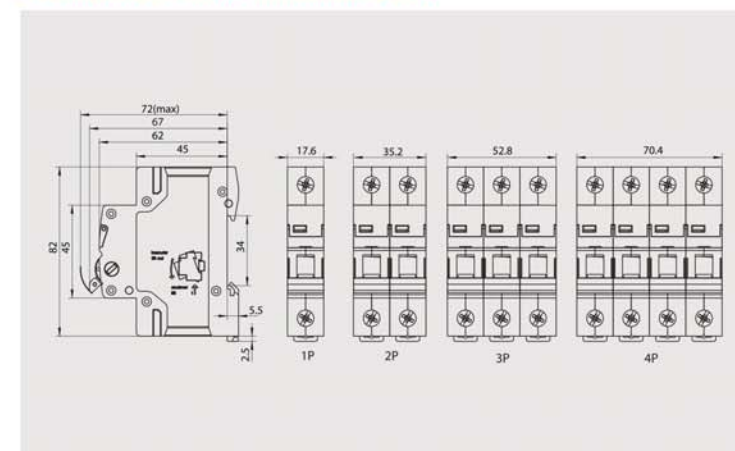
Electrical features

Rated current In	32、63、100、125A
Poles	1P 2P 3P 4P
Rated voltage Ue	1P:230V~ 2P,3P,4P:400V~
Insulation voltage Ui	500V
Rated frequency	50/60Hz
Rated short-time withstand current I _{st}	12I _e 1s
Rated making and breaking capacity	3I _e , 1.05U _e , cos φ = 0.65
Rated short circuit making capacity	20I _e , t = 0.1s
Using the categories	AC-22A
Rated impulse withstand voltage (1.2/50)U _{imp}	6000V
Dielectric test voltage at and ind. Freq. for 1min	2.5kV
Electrical life	1500
Mechanical life	8500
Pollution degree	2

Installation

Protection degree	IP20
Ambient temperature (with daily average ≤ 35℃)	-5~+40℃
Storage temperature	-25~+70℃
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	50mm ² 18-1/0
Terminal size top/bottom for busbar	50mm ² 18-1/0
Tightening torque	3.5N·m 22
Connection	From top and bottom

Overall and mounting dimensioned chart



General

This series circuit breaker electrical achment is my company specially designed for the M8 series circuit breaker auxiliary function element, in the electric lamp line or household, building,can according to need to choose a diffe-rent electrical accessories with M8 series circuit breaker, so as to realize the remote control, breaker points status indication, alarm signals and undervoltage, overvoltage protecon function.

This product meets the standard of IEC/EN60947-2.

Model and meaning

- ▲ AU8:the auxiliary contact
- ▲ AL8:Alarm contacts
- ▲ SH8:The shunt tripping device
- ▲ SH8+AU8:The shunt tripping device+the auxiliary contact
- ▲ UV8:Undervoltage tripping
- ▲ OV8:Overvoltage trip
- ▲ UV8+OV8:Undervoltage tripping +Overvoltage trip

Usage

- ▲ AU8:To provide auxiliary signal, control of auxiliary circuit
- ▲ AL8:When the circuit breaker for protected line fault points away, provide alarm signal
- ▲ SH8:When the control voltage exceeds the 70% ~ 110% of the rated voltage, the circuit breaker tripping, realize the line protection.
- ▲ SH8+AU8:Remote breaking circuit, and through the auxiliary contact to achieve control of the auxiliary circuit
- ▲ UV8:Line voltage drop to 35% ~ 70% of the rated voltage, the circuit breaker tripping, until the voltage recovery to more than 85%, the breaker can be manually switched on

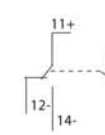
The main technical parameters

AU8+AL8 Technical parameters

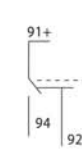
		Voltage (AC or DC)	Working current
AU8 AL8		415V AC	3
		240V AC	6
		130V DC	1
		48V DC	2
		24 DC	6
SH8+AU8 and SH Technical parameters			
		Rated supply voltage(Us)	pull-in voltage
SH8+AU8 SH8		AC/DC 220~380V	(0.7~1.1)Us
		AC/DC 110~220V	
		AC/DC 24~48V	
UV8 and UV8+OV 8 Technical parameters			
		The rated working voltage(Ue)	Action is the voltage
UV8		AC 230- 48V	(0.35~0.75)Ue
		DC 48V	
UV8+OV8		AC 230	Overvoltage: 275±5%V
			Under voltage: 170±7V
Wiring Screw-type thread pressed terminal. connent with 1 or 2 conducting wire of 2.5"mm max. cross sectional area. Obvious marks upon terminal.			



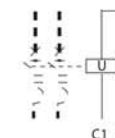
AU8



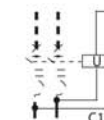
AL8



SH8



UV8



General

This series circuit breaker electrical attachment is my company specially designed for the M9 series circuit breaker auxiliary function element, in the electric lamp line or household, building, can according to need to choose a different electrical accessories with M8 series circuit breaker, so as to realize the remote control, breaker points status indication, alarm signals and undervoltage, overvoltage protection function.

This product meets the standard of IEC/EN60947-2.

Model and meaning

- ▲ AU9: the auxiliary contact
- ▲ AL9: Alarm contacts
- ▲ SH9: The shunt tripping device
- ▲ SH9+AU9: The shunt tripping device+the auxiliary contact
- ▲ UV9: Undervoltage tripping
- ▲ OV9: Overvoltage trip
- ▲ UV9+OV9: Undervoltage tripping +Overvoltage trip

Usage

- ▲ AU9: To provide auxiliary signal, control of auxiliary circuit
- ▲ AL9: When the circuit breaker for protected line fault points away, provide alarm signal
- ▲ SH9: When the control voltage exceeds the 70% ~ 110% of the rated voltage, the circuit breaker tripping, realize the line protection.
- ▲ SH9+AU9: Remote breaking circuit, and through the auxiliary contact to achieve control of the auxiliary circuit
- ▲ UV9: Line voltage drop to 35% ~ 70% of the rated voltage, the circuit breaker tripping, until the voltage recovery to more than 85%, the breaker can be manually switched on

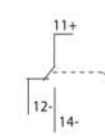
The main technical parameters

AU9+AL9 Technical parameters

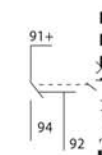
	Voltage (AC or DC)	Working current
AU9 AL9	415V AC	3
	240V AC	6
	130V DC	1
	48V DC	2
	24 DC	6
SH9+AU9 and SH Technical parameters		
	Rated supply voltage(Us)	pull-in voltage
SH9+AU9 SH9	AC/DC 220~380V	(0.7~1.1)Us
	AC/DC 110~220V	
	AC/DC 24~48V	
UV9 and UV9+OV 9 Technical parameters		
	The rated working voltage(Ue)	Action is the voltage
UV9	AC 230, 48V	(0.35~0.75)Ue
	DC 48V	
UV9+OV9	AC 230	Overvoltage: 275±5% V
		Under voltage: 170±7 V
Wiring Screw-type thread pressed terminal. connent with 1 or 2 conducting wire of 2.5*mm max. cross sectional area. Obvious marks upon terminal		



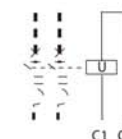
AU9



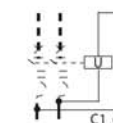
AL9



SH9



UV9





General

R8 residual current circuit breaker is mainly used for 230 v and below, the rated current to 32A distribution lines and electrical equipment, to direct or indirect contact charged body and the leakage, fire accident and insulation damage lamp fault for effective protection. Its main characteristic is electronic structure, high sensitivity; Widely used in the civil, public and industrial areas such as buildings, building, hotel, etc.

This product meets the standard of IEC/EN61009-1.

It has the following features:

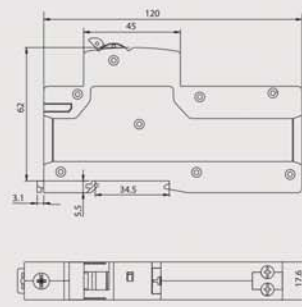
- ▲ Electronic structure and high sensitivity
- ▲ Maximum connecting ability of 16mm, wiring torque 2.5N·m, applicable to a variety of installing equipments, wiring stronger.
- ▲ Protection class: IP20

Technical Data

Electrical features

Rated current I_n	6~32A
Poles	1P+N
Rated voltage U_e	230V~
Insulation voltage U_i	500V
Rated frequency	50/60Hz
Rated sensitivity $I_{\Delta n}$	0.03A 0.1A 0.3A
Rated residual making and breaking capacity $I_{\Delta n}$	500A
Rated breaking capacity	4500/6000A
Break time under $I_{\Delta n}$	$\leq 0.1S$
Rated impulse withstand voltage (1.2/50) U_{imp}	4KV
Dielectric test voltage at and ind. Freq. for 1 min	2.5kV
Pollution degree	2
Thermo-magnetic release characteristic	B, C
Electrical life and Mechanical life	4000

overall and mounting dimensioned chart



Electromagnetic trip is a trip, it only provides magnetic protection, short circuit protection, it is actually a magnetic back, the magnetic field generated when the current is large enough force to overcome the reaction springs and armature strikes traction rod driven by action to cut off the circuit.

Electromagnetic trip fault is only provide short circuit protection, its advantage is low cost, long life, small affected by the environment.

Electronic tripping device is to use electronic components constitute a circuit, testing the main circuit, current amplification, push the trip mechanism.

Electronic tripping device has the advantage of high sensitivity, accurate action value.

Technical Data

Electromagnetic trip

The magnetization power	8000~10000WA
Tripping force	160 turn: 0.4~0.6N, Wire diameter: $\Phi 0.21$, resistance: 1.6 Ω
	500 turn: 0.5~0.7N, Wire diameter: $\Phi 0.15$, resistance: 6.4 Ω
Reset button force	160 turn: 0.4~0.6N
	500 turn: 0.5~0.7N
Trip itinerary	$\geq 1.8mm$
The electronic trip	
Enameled wire brand	Qz-2
Wire diameter:	$\Phi 0.21$
Number of turns	1200 turn



General

SK series of sockets are mainly used in household, hotel, airport, wharf, architectural places and terminal power distribution system, which can be combined for using with the same series of circuit breakers and lighting distribution box.

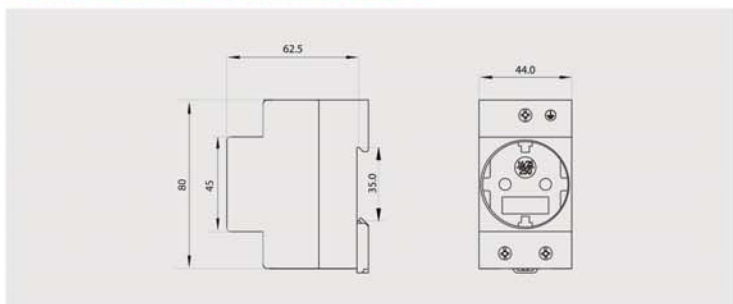
- ▲ Maximum connecting ability of 16mm², wiring torque 2Nm,
- ▲ Protection class: IP20

Technical Data

Electrical features

Rated current I _n	16 25A
Poles	2
Rated voltage U _e	250/440V
Cross sectional area of the conducting wire	16mm ²
Degree of protection	IP20
Ambient air temperature	-25~+55℃
Temperature-rise	40~60K
Payload	3kW
Plug performance	7000 times

Overall and mounting dimensioned chart



General

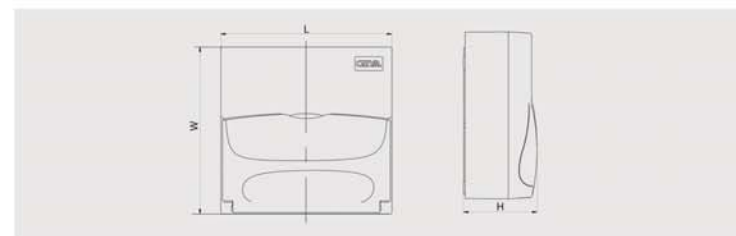
DBS series distribution box (hereinafter referred to as the distribution box) is mainly composed of casing and modular terminal apparatus, suitable for ac 50/60Hz, rated voltage of 230V, the load current is less than 100A single-phase three-wire terminal of the circuit, as to control the power distribution, electrical equipment, at the same time also on line overload, short circuit, leakage protection, can be widely used in

Technical Data

Insulation voltage U _i	500V
Rated voltage U _e	230/400V
Rated current I _n	100A
Dielectric test voltage at and ind. Freq. for 1min	2500/1min
Enclosure protection class	IP30
Opening mode	Up and down
Work back to the way	8, 10, 14, 18, 28, 36
Standard	IEC/EN 60439-3

Overall and mounting dimensions(mm)

Model	L	W	H	Remark
DBS-8	220±2.5	230±2.5	100±2.5	Single-row
DBS-10	256±2.5	230±2.5		
DBS-14	328±2.5	230±2.5		
DBS-18	400±2.5	230±2.5		Double-rows
DBS-28	328±2.5	470±2.5		
DBS-36	400±2.5	470±2.5		



S-SPD Series surge protection device



Description for products

S-PRD pluggable surge protection device is the same as fixed surge protection device in the working principle and selection rule. It is composed of base a neutral core and one or several phase core bodies. When the service life of core body ends, it may be changed. It is needless to break or connect again, so the time is saved much. In addition, its technical performance is improved to a large extent; and the voltage protection level up is far lower that ensures the reliable protection.

Features of pluggable surge protection device

It is extremely safe to change the damaged core body

- ▲ To change the core body, the door of switch cabinet must be opened (completed by professional person).
- ▲ Because the side of core body is made of plastic, the charged contact is not touched when the core body is withdrawn.
- ▲ Due to unique arrow at bottom of the core body, it is not likely to exchange the position of phase core body and neutral core body when mounting.
- ▲ With large discharge capacity, the single module can reach as high as 65KA(8/20), it can form 3+1 mode, more suitable for different modes of power grids.

Working state indication of S-PRD base

The obvious character of S-PRD products that it has an auxiliary control contact, when the service life of one or several core bodies mounted on the base ends, it will make the alarm lamp or buzzer turn on with the help of remote control of a change-over contact. The core body also has the indication (red/white/indicator).

S-PRD Series replaceable surge protection device

Incoming line protection	Class II protection	Pole NO	Width (mm)	UP(V)	In(KA)	I _{max} (ka) (8/20 μs)	U _c (V) MC	MD	Remote signaling
S-PRD		1P	18	2000	20	65	440	275	Optional
		1P	18	1500	20	65	275		
		1P+N	36	1200	20	65	440		
		3P	54	2000	20	65	440		
		3P+N	72	1200	20	65	440		
S-PRD		1P	18	2000	15	40	440	275	Optional
		1P	18	1200	15	40	275		
		1P+N	36	1200	15	40	440		
		3P	54	1800	15	40	440		
		3P+N	72	1200	15	40	440		
S-PRD		1P	18	2000	5	15	440	275	Optional
		1P	18	1200	5	15	275		
		1P+N	36	1200	5	15	440		
		3P	54	1800	5	15	440		
		3P+N	72	1200	5	15	440		
S-PRD		1P	18	2000	2	8	440	275	Optional
		1P	18	1200	2	8	275		
		1P+N	36	1200	2	8	440		
		3P	54	1800	2	8	440		
		3P+N	72	1200	2	8	440		

S-PR1 surge protection device(module)



Description for products

- ▲ This series of products is suitable for protecting the power circuit against the lightning and surge in the lightning-protection area.
- ▲ The advanced large-capacity surge absorption element MOV with stable quality, which is sifted strictly on the aspect of aging is taken as core element of this product.
- ▲ With noticeable advantages such as large discharge capacity, low output residual voltage, quick response against over voltage (the operating time less than 25ns), it can protect the powered device effectively.
- ▲ The added failure trip, can help protection device separate from the power grid when the protection device fails in breakdown for overheat.
- ▲ With complete function, modular encapsulation as well as electric mounting guide rail of 35mm width, the product is convenient in installation and replacement.
- ▲ The housing is made of reinforced flame-resistance PBT material, according to electrical safety standard.
- ▲ The alarm remote-signaling function may be added.

Installation position and application of product

- ▲ The modular series products usually are mounted at the juncture of power circuit, and generally in the branch distribution cabinets.
- ▲ Devices combined single poles are suitable for kinds of power supply systems.
- ▲ This device is used for secondary lightning protection of power supply, mounted in branch distribution cabinets of following locations such as floor, computer center, communication room, security monitor center, CATV room, floor auto-control room, elevator control room, fire control center, industrial autocontrol room, hospital operating room, wardship room as well as area mounted with the electronic medical equipment, it also can be installed in the general illuminating distribution box of residential houses less than 6 floors and in the distribution box of decentralized villas.
- ▲ In the front of surge protection device must be mounted with a 25A fuse, to be used as backup protection device.
- ▲ The protection device is suitable for indoor installation, if mounted outdoors, it shall be supplied with the water-tight measures.
- ▲ All electric connections shall be firm and reliable, the lightning-protection grounding shall accord to the lightning-protection specifications (less than 10Ω arthing resistance is the best), and the earth line shall be as possible as short and straight ($\leq 0.5m$). The conductor diameter is shown in the conductor specification table.



General

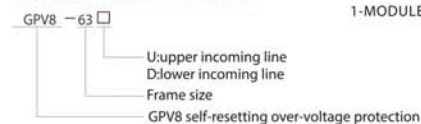
Applications

Overvoltage and undervoltage protection for household equipment.

Function Features

Supply voltage measurement and protection.
Double bus wiring design stronger ability.
Self reset after fault.
Relay status is indicated by LED.
1-MODULE, DIN rail mounting.

Model and connotation

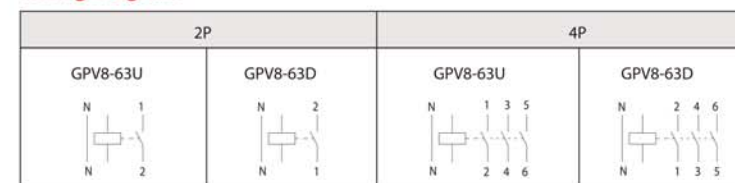


Note: 4P products such as the need to phase protection function can be customized.

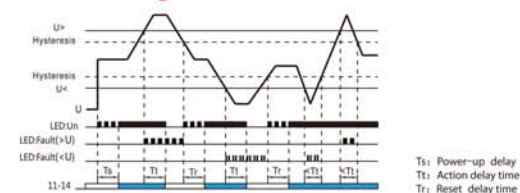
Technical parameters

Technical parameters	2P	4P
Rated supply voltage	AC220V	AC220V(L-N)
Rated supply frequency	50/60Hz	
Rated operational current	32A, 40A, 50A, 63A (AC1)	
Burden	AC max.3VA	
Over voltage operation value	265V	265V (L-N)
Over voltage reset value	257V	257V(L-N)
Under voltage operation value	175V	175V(L-N)
Under voltage reset value	180V	180V(L-N)
Action delay time	1s	
Power-up delay	2s	
Reset time	30s	
Measurement error	≤1%	
Operating temperature	-20°C to +55°C (-4°F to 131°F)	
Storage temperature	-35°C to +75°C (-22°F to 158°F)	
Mounting/DIN rail	Din rail EN/IEC 60715	
Protection degree	IP40 for front panel/IP20 terminals	
Operating position	any	
Overvoltage category	III	
Pollution degree	2	
Dimensions	82×36×68mm	82×72×68mm
Weight	120g	250g
Standards	IEC/EN 60255-1, IEC/EN 61010-1	

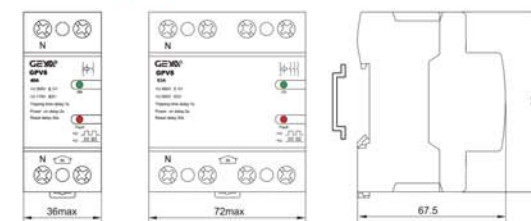
Wiring Diagram



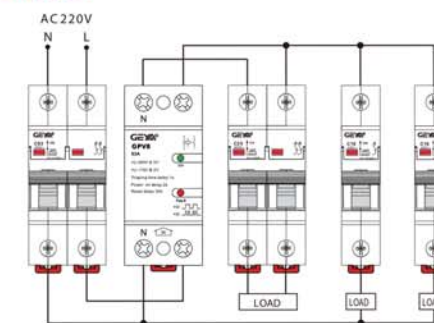
Functions Diagram



Dimensions(mm)



Example





Product introduction

LYD4 series surge protective device (hereinafter called SPD) is suitably used in the IT, TT, TN-C, TN-S, TN-C-S and etc power supply system of AC 50/60Hz, rated voltage up to 380V, to protect from direct and indirect lightning impulse and other transient over voltage. SPD meets with GB18802.1/IEC61643-1 standard.

Installation

- ▲ To be mounted in joint of LPZ1 or LPZ2 zone, adopts 35mm standard mounting rail. The cross sectional area of multi-strand soft copper conductor: 2.5~35 mm².
- ▲ Every pole of SPD shall be protected by fuse or mini circuit breaker.

Operation Elements

- ▲ SPD as only one side of terminals, able to prevent from being electric touching, indoor fixedly mounted, limiting voltage.
- ▲ SPD has built-in disconnecter, when SPD is invalid due to overheating or breakdown, the disconnecter can automatically separate SPD from the network, meanwhile send an indication signal. The visible window show white color in normal service, if to be separated from network, it will show red color.
- ▲ Fast response time, low residual voltage.

The Contact

SPD can provide the NO contact for remote communication, if one or more modules of SPD is invalid, the NO and NC contact will be closed and send fault information.

Model and Signification

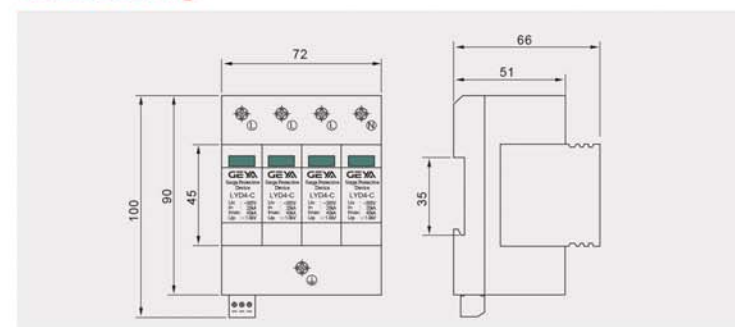
LY D 4 - 40 - 385

- Maxi continuous operating voltage Uc(V)
- Maxi discharging current I_{max}(8/20 s)(kA)
- Design No
- Surge Protective Device (SPD)
- Enterprise code

Technical Parameter

Model and specification	LYD4-20		LYD4-40	
Maxi continuous operating voltage	420	275	420	275
Voltage protective level	1.8	1.2	2.0	1.5
Maxi discharging current	20		40	
Nominal discharging current	10		20	
Response time	<25			
Protection grade	IP20			
Indication of invalidation	Aging invalidation: white; Normal, red: invalidation			
Application	Protection for in line			
Remote signal Function	Can also picking			
Remarks	Other maxi continuous working voltage U _c (AC) can be supplied if required.			

Outside Size Fig





Product introduction

LYD5 series surge protective device (hereinafter called SPD) is suitable for the IT, TT, TN-C, TN-S, TN-C-S and etc power supply system of AC 50/60Hz, rated voltage 380V and below, to protect from lightning impulse and other transient over voltage, it is applicable in class I lightning proof system where there has higher danger of lightning strikes. As per the conditions of IEC61643-1:1998-02 standard, Class I surge protective device, it is category B surge protective device. SPD meets with GB18802.1/IEC61643-1 standards.

Operation Elements

- ▲ Fast response time: less than 25ns
- ▲ Low limited voltage
- ▲ Large current carrying capacity
- ▲ Normal state: white color, invalid state: red color
- ▲ Kelvin wiring mode available.

The Contact

SPD can provide the NO contact for remote communication, if one or more modules of SPD is invalid, the NO and NC contact will be closed and send fault information.

install

- ▲ Category B surge protective device (SPD), used in the connection between equal potential electrodes while thunder occur.
- ▲ Generally to be installed in low voltage main incoming distribution panel, overhead incoming.
- ▲ To adopt 35mm standard mounting rail for SPD mounting.
- ▲ When to place an order, please indicate the model, specification and quantity of SPD.
- ▲ It shall adopt 10~35mm² copper conductor to be connected with SPD, earthing wire shall be dual color
- ▲ multi-strand soft copper conductor more than 16mm².

Model and Signification

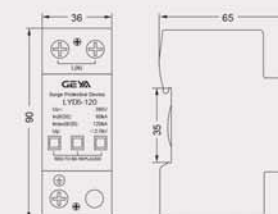
LY D 5 - 120 - 385 - □

- Number of poles: 1P 2P 3P 4P
- Maxi continuous operating voltage U_c (V)
- Maxi discharging current $I_{max}(8/20\text{ s})$ (kA)
- Design No
- Surge Protective Device (SPD)
- Enterprise code

Technical Parameter

Model and specification	LYD5-100			LYD5-120				LYD5-150			
Maxi continuous operating voltage	420	385	275	420	385	320	275	420	385	320	275
Voltage protective level	2.5	2.3	1.8	2.5	2.3	2.0	1.8	3.5	3.2	2.5	2
Maxi discharging current	100			120				150			
Nominal discharging current	50			60				80			
Response time	<25										
Protection grade	IP20										
Indication of invalidation	Aging invalidation: white; Normal, red: invalidation										
Application	Primary protection for in line										
Remote signal Function	Can also picking										
Remarks	Other maxi continuous operating voltage UC175,440,690V Can be customized										

Outside Size Fig





Certification Mark

The scope of WCT contactor is large enough to meet the vast majority of applications.
WCT contactor can be extended to auxiliary control, protection and indication functions.

Contactor

WCT 2P



Manual manipulation

WCT 4P



WCT contactor can be used for remote control:
Lighting, heating, ventilation, roller shutters,
public hot water
Mechanical ventilation system, etc.

Contactor



Indicative accessory WACTs
It is used to indicate the "on" or "off" status of the main contact of the contactor.

Dual signal control accessory WACTc
It can contact two types of commands, thus realizing the control of the contactor

Contactor Accessories

Model Selection of 50Hz Contactor

Type	Contactor						Manually Operated Contactor			
Rated Current A	16	20	25	40	63	100	16	20	25	63
Accessories							Contactor that accessories can be installed			
WCTs Indicative accessory	●	●					●			
WCTc Control accessory Through the yellow card holder		●					●			
WCT24 Control accessory Through the yellow card holder				● [Contactor 230V-50Hz]					● [Contactor 230V-50Hz]	

EN61095


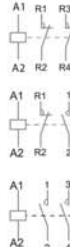

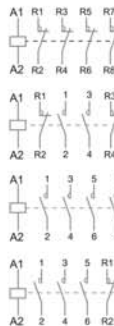
IEC1095

GB17885

There are two types of WCT contactor:
Contactor without manual operation
Contactor with manual operation

Product Model

50Hz WCT Contactor

Type	Rated Current(In)		Control Voltage (V ACN50Hz)	Contact	Width (Multiple of 9mm)
	AC-7a	AC-7b			
1P 	25A	8.5A	230...240	1NO	2
2P 	16A 25A 40A 63A	6A 8.5A 15A 20A	230...240 230...240 230...240 230...240 230...240	2NO 1NO+1NC 2NO 2NO 2NO	2 2 2 2 4 4 6
3P 	25A 40A 63A	8.5A 15A 20A	220...240 220...240 220...240	3NO 3NO 3NO	4 6 6
4P 	16A 25A 40A 63A 100A	6A 8.5A 15A 20A -	220...240 24 220...240 24 220...240 220...240 220...240 220...240 220...240 220...240	2NO+2NC 4NO 4NO 4NC 4NC 2NO+2NC 4NO 4NC 2NO+2NC 3NO+1NC 4NO	4 4 4 4 4 4 6 6 6 6 12

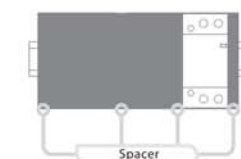
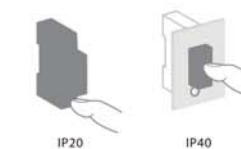
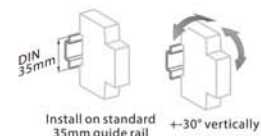
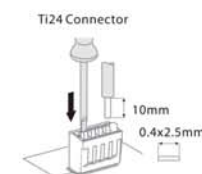
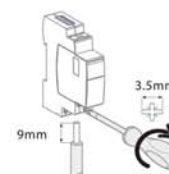
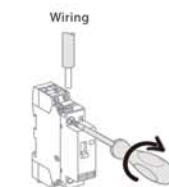
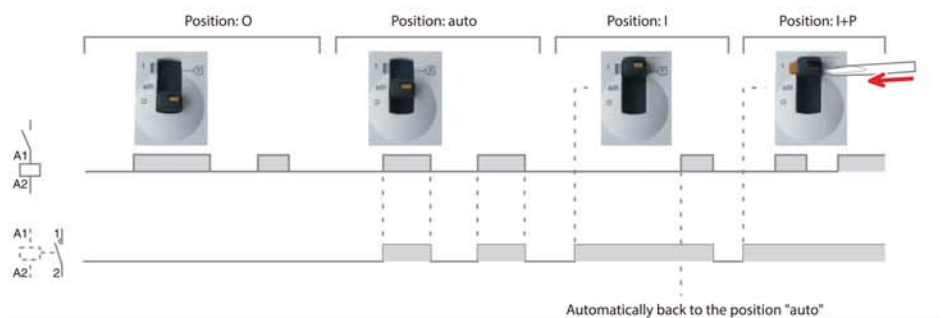
Product Model

En61095

Manually Operated WCT Contactor-50Hz

Type	Rated Current(In)		Control Voltage (V ACN50Hz)	Contact	Width (Multiple of 9mm)
	AC-7a	AC-7b			
2P	25A	8.5A	230...240	2NO	2
	40A	15A	220...240	2NO	4
	63A	20A	220...240	2NO	4
4P	25A	8.5A	220...240	4NO	4
	40A	15A	220...240	4NO	6
	63A	20A	220...240	4NO	6

Operation (Manually Operated Contactor)



Type	Rated Current	Stripping Length	Circuit	Torque	Copper Line Hard Line	Flexible Line or Haze Line Terminal
WCT	PZ1:4mm	16-100A	Control Loop	0.8Nm	1.5~2.5mm ² 2x 1.5mm ²	1.5~2.5mm ² 2x 2.5mm ²
		16825A			1.5 x 6mm ²	1 x 4mm ²
	PZ2:6mm	40A-63A	Power Loop	3.5Nm	6 x 2.5mm ²	6 x 16mm ²
		100A			6 x 3.5mm ²	6 x 35mm ²
WACTs, WACTc	PZ1:4mm	-	-	0.8Nm	1.5x2.5mm ² 2 x 1.5mm ²	1.5x2.5mm ² 2 x 2.5mm ²

Type	Wiring Terminal	Rated Torque	Copper Line Hard Line	Flexible Line	Haze Line Terminal
WACT24	Power supply(N/P)	1Nm	0.5~10mm ² 2x0.5~ 2 x 2.5mm ²	0.5~6mm ² 2x0.5~ 2 x 2.5mm ²	0.5~4mm ² 2x0.5~ 2 x 2.5mm ²
	Input(Y1/Y2)				

Type	Wiring Terminal	Copper Line Hard Line	Flexible Line
TI24 Connector	Spring clamp terminal	1x0.5~1.5mm ²	1x0.5~1.5mm ²

Technical Parameters

Main Circuit		
Rated Voltage(Ue)	1P,2P 3P,4P	250V AC 400V AC
Frequency		50Hz
Service Life (O-C)		
Electrical Life		30000 Times
Max Switching Frequency (per day)		100
Additional Features		
Isolation Voltage(Ui)		500 V AC
Class of Pollution		2
Rated Impulse Withstand Voltage {Uimp}		2.5kV(4kV@ 12/24/48VAC)
Protection Grade (IEC 60529)	Breaker body Installed inside the distribution box	IP20 IP40
Operating Temperature		-5℃~+60℃ (1)
Storage Temperature		-40℃~+70℃
Wet and Heat Resistance(IEC 60068.1)		Class 2 (relative humidity is 95% when the temperature is 55℃)
ELSV (extra low safety voltage)conforms to version 12/24/48VAC		
Product control conforms to the requirement of SELV (safety extra low voltage)		

(1) When the contactor is installed inside the distribution box, distance piece should be assembled on both sides of it, to facilitate heat dissipation.

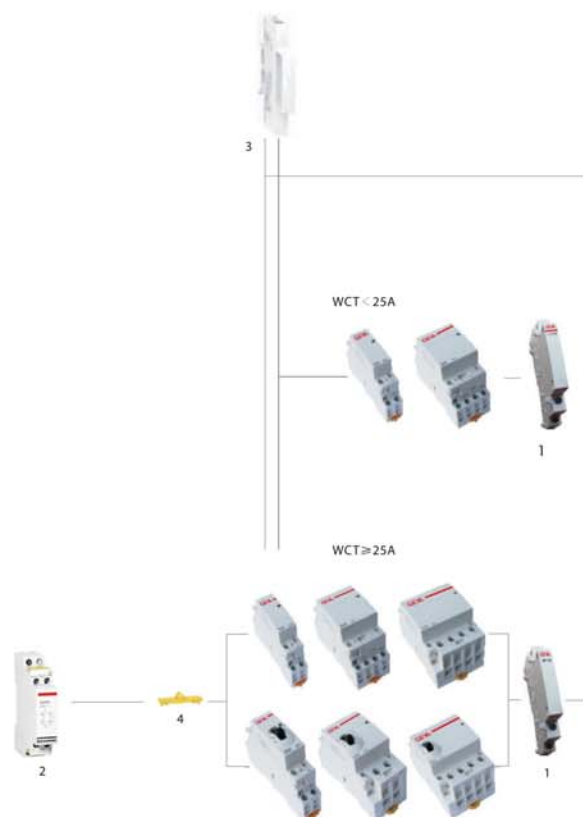
Electrical Accessories

EN61095



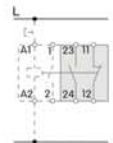
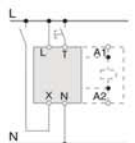
Signal Type	
1 WACTs	1N0+1NC
Control Type	
2 WACTc	230V AC
	24V AC

Install Accessories

- 3 9mm Distance Piece
- 4 Yellow Card Holders



Electrical Accessories of GYHC Contactor

Signal Type		Control Type
Accessory	WACTs	WACTs
Type	Signal contact	Pulse/constant signal control
		
Function	Used to indicate the "on" or "off" status of the main contact of the contactor.	Connect to the contactor of this accessory so that it can be controlled by two kinds of commands: Pulse command is used for local control (Input TI); Continuous signal command is used for centralized control (Input XI); Commands finally received have priority over all other commands;
Wiring Diagram		
Installation	Install on the right side of WCT	Install on the left side of WCT through yellow card holder 4
Use	-	power supply circuit is disconnected; Keep in the initial state; Restart when manually operating in X or T; Min pulse duration: 250ms;
Technical Specifications		
Control Voltage(Ue)	VAC	24...240
	VDC	24...130
Operating Frequency	Hz	50
Width (Multiple of 19mm)		1
Auxiliary Contact (Breaking Capacity)	Min: 10mA when 24VDC/AC-COS=1 Max:5A when 240V DC-COS=1 1A in 130VDC	-
Contact Number	1N0+1NC	-
Operating Temperature	℃	-5℃~+50℃
Storage Temperature	℃	-40℃~+70℃

Power Dissipation

WCT Contactor-50Hz

Type

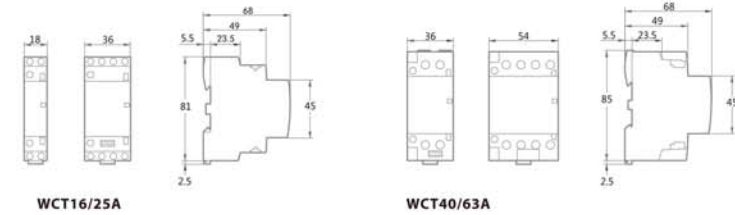
	Rated Current(In)		Control Voltage (VAC)(50Hz)	Rated Power	Actuation	Max Power
	AC7-a	AC7-b				
1P	25A	8.5A	230...240	2.7VA	9.2VA	1.2W
2P	16A	6A	230...240	2.7VA	9.2VA	1.2W
			230...240	2.7VA	9.2VA	1.2W
	25A	8.5A	24	3.8VA	15VA	1.3W
			230...240	2.7VA	9.2VA	1.2W
			230...240	2.7VA	9.2VA	1.2W
	40A	15A	220...240	4.6VA	34VA	1.6W
	63A	20A	220...240	4.6VA	34VA	1.6W
	100A	-	220...240	6.5VA	53VA	2.1W
	25A	8.5A	220...240	4.6VA	34VA	1.6W
	40A	15A	220...240	6.5VA	53VA	2.1W
3P	63A	20A	220...240	6.5VA	53VA	2.1W
	16A	6A	220...240	4.6VA	34VA	1.6W
	25A	8.5A	24	4.6VA	34VA	1.6W
4P			220...240	4.6VA	34VA	1.6W
			24	4.6VA	34VA	1.6W
			220...240	4.6VA	34VA	1.6W
			220...240	4.6VA	34VA	1.6W
			220...240	4.6VA	34VA	1.6W
	40A	15A	220...240	6.5VA	53VA	2.1W
			220...240	6.5VA	53VA	2.1W
	63A	20A	220...240	6.5VA	53VA	2.1W
			220...240	6.5VA	53VA	2.1W
			220...240	6.5VA	53VA	2.1W
			220...240	6.5VA	53VA	2.1W
	100A	-	220...240	13VA	106VA	4.2W

Power Dissipation

Manually Operated Contactor-50Hz

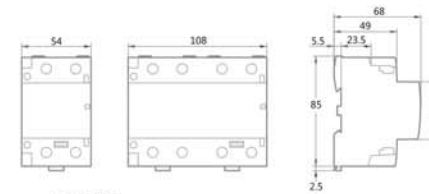
Type

	Rated Current(In)		Control Voltage (VAC)(50Hz)	Rated Power	Actuation	Max Power
	AC-7a	AC-7b				
2P	25A	8.5A	230...240	2.7VA	9.2VA	1.2W
	40A	15A	220...240	4.6VA	34VA	1.6W
	63A	20A	220...240	4.6VA	34VA	1.6W
4P	25A	8.5A	220...240	4.6VA	34VA	1.6W
	40A	15A	220...240	6.5VA	53VA	2.1W
	63A	20A	220...240	6.5VA	53VA	2.1W

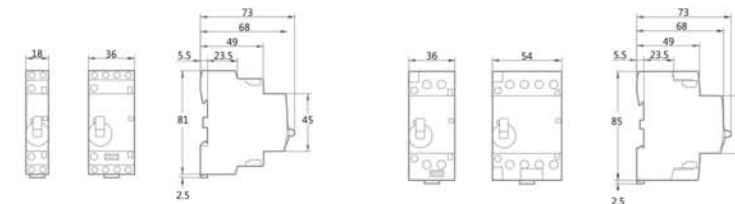


WCT16/25A

WCT40/63A

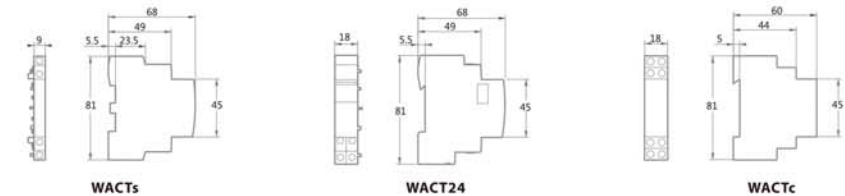


WCT100A



Manually Operated Contactor 25A

Manually Operated Contactor 40/63A



WACTs

WACT24

WACTc