

For the content contained in this manual, Gandian Lightning Protection has the final right to interpret. For more detailed information, please inquire; our company's technical engineers will serve you wholeheartedly. Because of the continuous innovation of product technology, please refer to the actual product or the manual; Subject to change without notice.

Use environmentally friendly materials



GA&DA

DC/AC CIRCUIT BREAKER

Solutions Catalogue

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Better life, better electricity

不辜负每一份电力，让电尽其所能

GANDIAN
LANGYONG

有品质才有市场，有改进才有进步，有创新才有发展

坚守专业与责任，做行业的领跑者

Stick to professionalism and responsibility,
and be the leader of the industry.公司简介
COMPANY PROFILE

Gandian Lightning Protection Electric Co., Ltd. is a modern high-tech enterprise dedicated to the design, research and development, production, sales and service of lightning safety protection equipment. The company is located in the economic and technological development zone of Jiujiang City, the only international trade port city in Jiangxi Province. The total plant construction area is 39,960 square meters, the factory covers an area of 29,970.16 square meters, and there are more than 200 employees.

Through continuous reform and innovation, the company develops its own brand, showing a new look of internationalization, modernization and informationization. Break through high-end industries with focus, upgrade traditional industries with automation, actively build automated electrical equipment bases, gather a team of highly skilled experts, strengthen the simultaneous development of advanced equipment industry and modern service industry, have a variety of fully functional product performance testing laboratories, 8/20us 150kA compatible with 10/350us 25kA simulated lightning laboratory, 10/350us 120kA simulated lightning laboratory, 1.2/50us combined wave generator, 1.2/50us voltage generator, gap, discharge tube detector, thermal stability test system, lightning online monitoring system, intelligent lightning protection detection system, SPD backup protector power frequency current test, lightning non-trip current test system and a series of advanced detection equipment, to ensure the stability and innovation of our products!

Independently develop a number of advanced production and processing automatic assembly lines, which integrate automatic glue filling, automatic soldering, automatic laminating, pad printing, laser marking, automatic detection and uploading of data, automatic sealing and packaging and other automatic equipment to ensure each product consistency, fully guarantee efficient production and high-quality management, with unified planning of logistics, production, life and other service facilities, and strive to build a first-class intelligent production industrial base with international competitiveness.

The company took the lead in passing ISO9001 quality system certification, ISO14001 environmental management system certification, OHSAS18001 occupational health and safety management system, CQC certification, European Community CE certification, TUV Rheinland certification, CB certification, Rohs certification, and established a system from software and hardware. A strict quality management system can meet the various needs of new and old customers with the fastest speed, the best products, and the best services; sales points are set up throughout the country, and the sales scope radiates to all provinces in China, Southeast Asia, South America, and Europe, Africa and many other places, the service scope is all over the country, and the high-quality products and good service have won the favor of the majority of customers.

The main products are power surge protector series, smart lightning protection series, smart surge protector series, smart lightning protection box series, signal lightning protection series, fuses, circuit breakers, photovoltaic connectors, transfer switches, photovoltaic cables, etc. The products are mainly used in the construction of urban and rural power grids, urban infrastructure construction, factory construction stages, major domestic and foreign oil fields, petrochemical companies, shipbuilding industry, offshore oil drilling platforms, military power construction, photovoltaic power generation, wind power generation, coal, petroleum, chemical, industrial and mining, hospitals, airports and other fields.

The company adheres to the corporate culture of "integrity first, happiness in the world, sharing and win-win", adheres to the spirit of "pragmatism, hard work, and dedication", and has the dream of "revitalizing national industry and assuming social morality". With the principle of trust, persist in realizing the new situation of "sustainable development, cooperative innovation", with the attitude of "professional, dedicated, rigorous, and eager to learn", always practice the glorious mission of "based on Rael Dunwei and build a world brand together".

Staff living area

The staff living area has 4360 square meters, 42 single rooms, 28 suites, supporting internal canteen, fitness area, outdoor activity area

Stamping and injection molding area

The stamping and injection molding area has 6800 square meters, 30 injection molding machines, 7 45T stamping machines, 5 35T stamping machines, 8 25 stamping machines, and the remaining 18 stamping machines of each tonnage

Comprehensive production area

The comprehensive production area has 8,100 square meters, dozens of production lines for various products, a simulation laboratory for lightning strikes, and various lightning protection products test instruments, etc.



实验设备 Laboratory And Testing



Lab 1



Lab 2



Lab 3



R&D Center No. 1



R&D Center No. 2



Glow Wire Tester



SPD thermal stability test system



Programmable salt spray test machine



Simulated lightning test platform



Programmable constant temperature and humidity test chamber



1.2/50μs voltage wave generator



Coupling and decoupling online cabinet



1.2/50μs combined wave generator

证书 Certificate And International Patents



ISO14001



ISO9001



OHSAS18001



CB



CQC



RoHS



TUV-CE



TUV



CE

GDC1-63 Miniature Circuit Breaker

● GDC1-63 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.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.

The main technical parameters

Electrical Features	
Type	GDC1-63-C1-63A/1P,2P,3P,4P
Order code	C1-63A/1P(260001-260010),C1-63A/2P(260011-260020) C1-63A/3P(260021-260030),C1-63A/4P(260031-260040)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	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	4500A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C,D
Electrical life	4000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-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
Tightening torque	3.0N · m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxillary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

GDC1-63 Miniature Circuit Breaker

● GDC1-63 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.

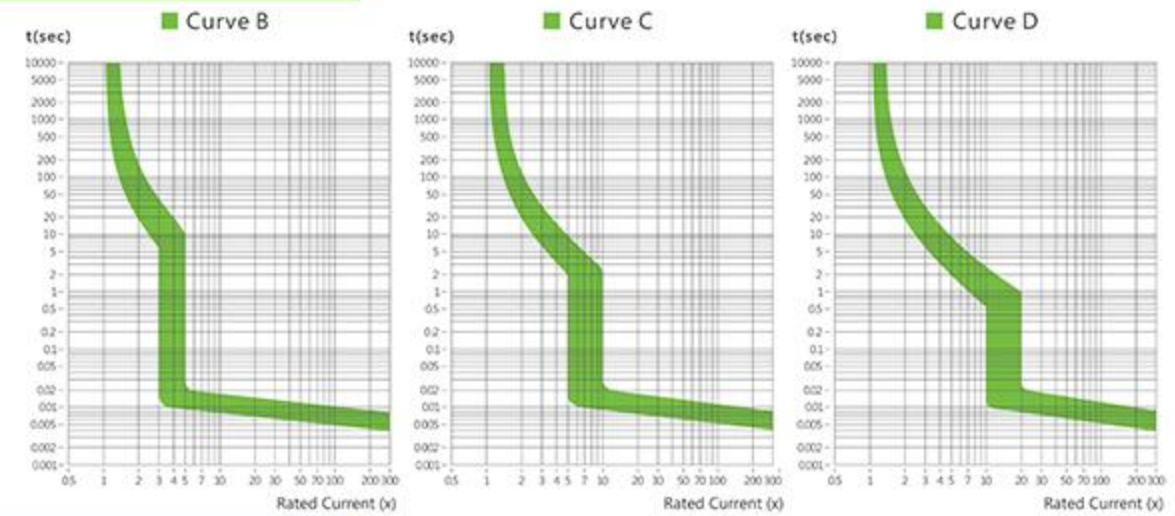


Temperature compensation

Ambient temperature	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

When the ambient temperature is not a benchmark of 30 degrees,the reference correction factor is as follows.

Characteristics Curve

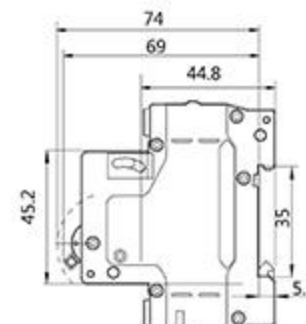


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



Weight (g)

Circuit breaker				
Type	1P	2P	3P	4P
	120	240	360	480

GDC1LE-63 Leakage Circuit Breaker

● GDC1LE-63 series leakage circuit breakers are suitable for AC 50/60Hz, rated voltage 230/400V, rated current 1-63A lines, with leakage, shock, overload, short circuit protection functions. and can be used to protect the overload and short circuit of the line.



- In compliance with IEC/EN60898-1.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- with leakage, shock, overload, short circuit protection functions.

The main technical parameters

Electrical Features	
Type	GDC1LE-63-C6-63A/1P+N,2P,3P,3P+N,4P
Order code	C6-63A/1P+N(260041-260048),C6-63A/2P(260049-260056) C6-63A/3P+N(260057-260064),C6-63A/4P(260065-260072)
Residual current protection type	Electronic
Residual current work type	AC type/A type
Rated current	6A,10A,16A,20A,32A,40A,50A,63A
Pole	1P+N,2P,3P,3P+N,4P
Rated voltage Ue	1P+N/2P:230/400V,3P/3P+N/4P:400V~
Insulation voltage Ui	500V
Rated frequency	50/60HZ
Rated sensitivity I _{Δn}	0.01A,0.03A,0.1A,0.3A
Rated breaking capacity	4500A
Rated impulse withstand voltage(1.2/50)U _{imp}	6kV
Dielectric test voltage at and ind.freq.for.1min	2.5kV
Thermo-magnetic release characteristic	B,C
Electrical life	4000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-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
Tightening torque	3.0N · m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom

GDC1LE-63 Leakage Circuit Breaker

● GDC1LE-63 series leakage circuit breakers are suitable for AC 50/60Hz, rated voltage 230/400V, rated current 1-63A lines, with leakage, shock, overload, short circuit protection functions. and can be used to protect the overload and short circuit of the line.

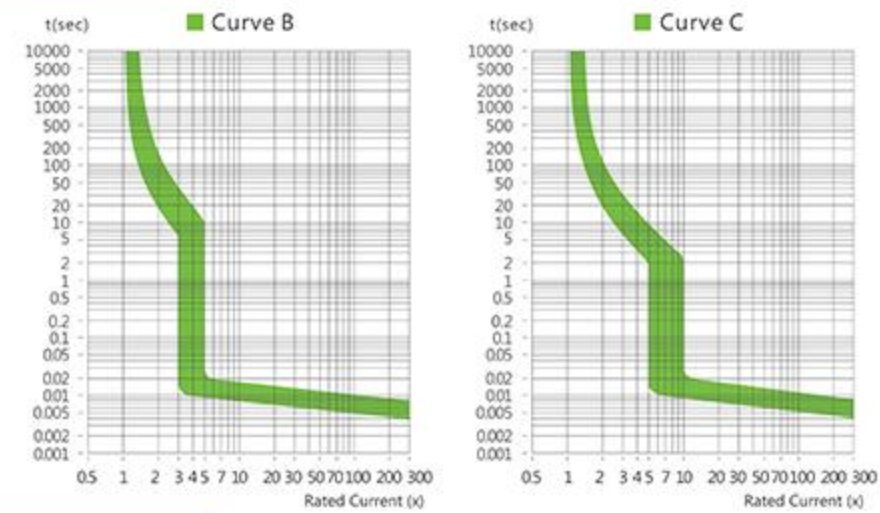


Temperature compensation

Ambient temperature	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

When the ambient temperature is not a benchmark of 30 degrees,the reference correction factor is as follows.

Characteristics Curve

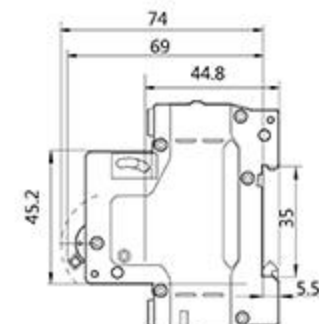


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



Weight (g)

Circuit breaker				
Type	1P+N	2P	3P+N	4P
	180	360	540	720

GDC1-125 Miniature Circuit Breaker

● GDC1-125 miniature circuit breakers are mainly used in distribution lines with AC 50Hz, rated working voltage of 230V/400V, rated current of 100A and below, and rated ultimate short-circuit - breaking capacity not exceeding 10000A, as overload and short-circuit protection.



- In compliance with IEC/EN60898-1.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.

The main technical parameters

Electrical Features	
Type	GDC1-125-D63-125A/1P,2P,3P,4P
Order code	D63-125A/1P(260073-260076),D63-125A/2P(260077-260080) D63-125A/3P(260081-260084),D63-125A/4P(260085-260088)
Rated current	63A,80A,100A,125A
Pole	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	4500A
Rated impulse withstand voltage(1.2/50)Uimp	8kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	D
Electrical life	4000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-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
Tightening torque	3.0N · m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

GDC1-125 Miniature Circuit Breaker

● GDC1-125 miniature circuit breakers are mainly used in distribution lines with AC 50Hz, rated working voltage of 230V/400V, rated current of 100A and below, and rated ultimate short-circuit - breaking capacity not exceeding 10000A, as overload and short-circuit protection.

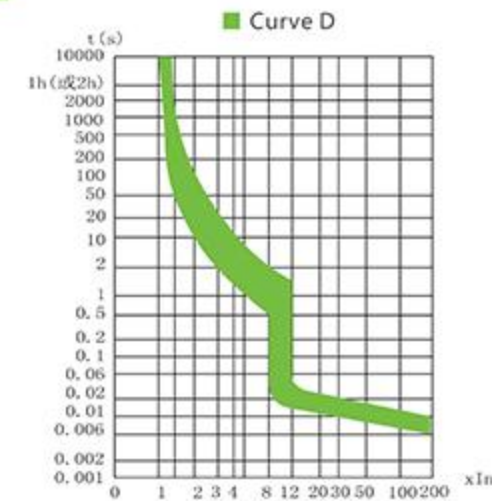


Temperature compensation

Ambient temperature	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

When the ambient temperature is not a benchmark of 30 degrees,the reference correction factor is as follows.

Characteristics Curve

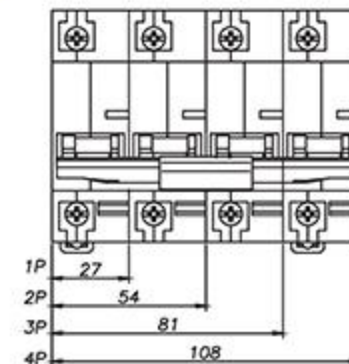
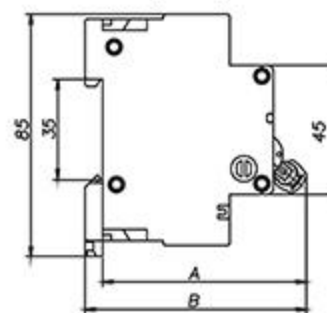


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



Weight (g)

Circuit breaker				
Type	1P	2P	3P	4P
	180	360	540	720

GDC1LE-125 Leakage Circuit Breaker

GDC1LE-125 series leakage circuit breakers are suitable for AC 50/60Hz, rated voltage 230/400V, rated current 63-125A lines, with leakage, shock, overload, short circuit protection functions. and can be used to protect the overload and short circuit of the line.



- In compliance with IEC/EN60898-1.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm².
- with leakage, shock, overload, short circuit protection functions.

The main technical parameters

Electrical Features	
Type	GDC1LE-125-D80-125A/1P+N.2P.3P.3P+N.4P
Order code	C63-125A/1P+N(260089-260092).C63-125A/2P(260093-260096) C63-125A/3P+N(260097-260100).C63-125A/4P(260101-260104)
Residual current protection type	Electronic
Residual current work type	AC type/A type
Rated current	63A,80A,100A,125A
Pole	1P+N,2P,3P,3P+N,4P
Rated voltage Ue	1P+N/2P:230/400V,3P/3P+N/4P:400V~
Insulation voltage Ui	500V
Rated frequency	50/60HZ
Rated sensitivity I _{Δn}	0.03A,0.1A,0.3A
Rated breaking capacity	4500A
Rated impulse withstand voltage(1.2/50)U _{imp}	6kV
Dielectric test voltage at and ind.freq.for.1min	2.5kV
Thermo-magnetic release characteristic	B,C
Electrical life	4000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-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
Tightening torque	3.0N·m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom

GDC1LE-125 Leakage Circuit Breaker

GDC1LE-125 series leakage circuit breakers are suitable for AC 50/60Hz, rated voltage 230/400V, rated current 63-125A lines, with leakage, shock, overload, short circuit protection functions. and can be used to protect the overload and short circuit of the line.

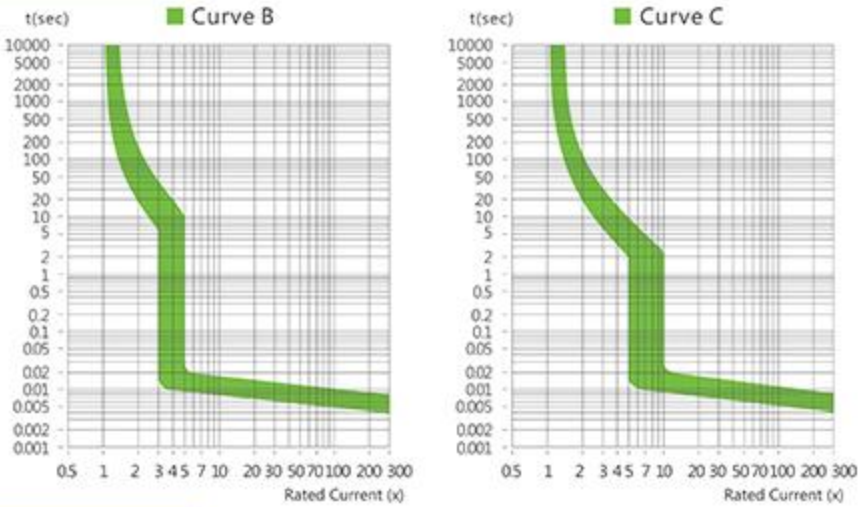


Temperature compensation

Ambient temperature	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

When the ambient temperature is not a benchmark of 30 degrees,the reference correction factor is as follows.

Characteristics Curve

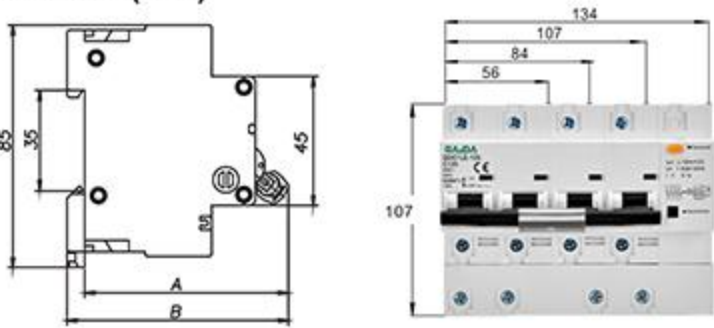


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



Weight (g)

Circuit breaker				
Type	1P+N	2P	3P+N	4P
	220	440	660	880

GDC2-63 AC Miniature Circuit Breaker

● GDC2-63 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/EN60947-2.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.

The main technical parameters

Electrical Features	
Type	GDC2-63-C1-63A/1P,2P,3P,4P
Order code	C1-63A/1P(260105-260115),C1-63A/2P(260116-260126) C1-63A/3P(260127-260137),C1-63A/4P(260138-260148)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	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	6000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C,D
Electrical life	8000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-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
Tightening torque	3.0N·m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

GDC2-63 AC Miniature Circuit Breaker

● GDL7-63 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.

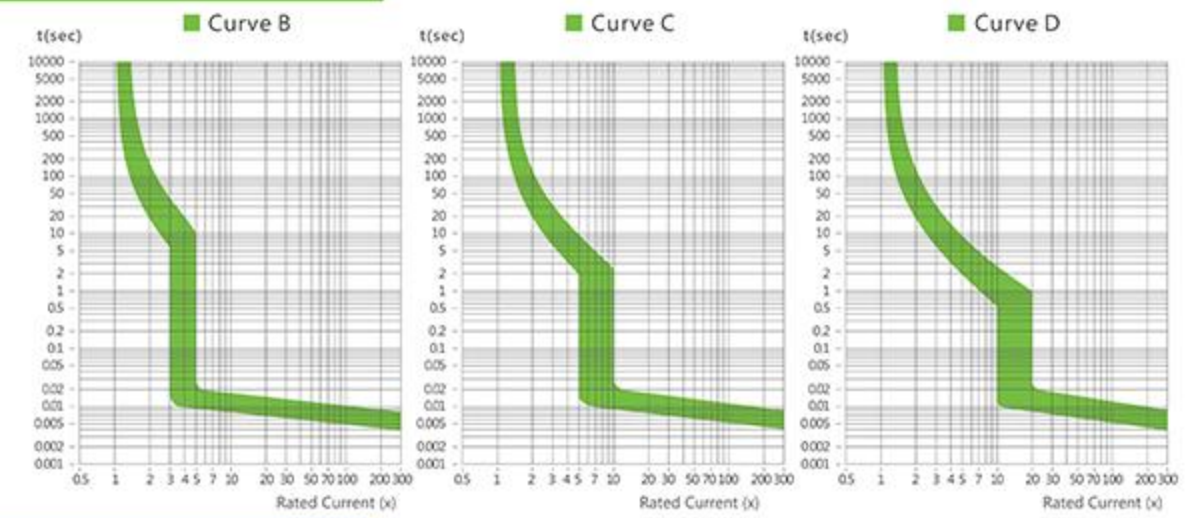


Temperature compensation

Ambient temperature	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.96	0.92	0.88

When the ambient temperature is not a benchmark of 30 degrees,the reference correction factor is as follows.

Characteristics Curve

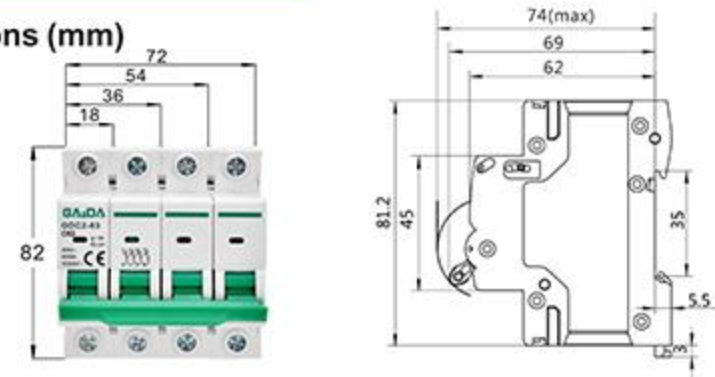


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



Weight (g)

Circuit breaker				
Type	1P	2P	3P	4P
	120	240	360	480

GDC3-63 AC Miniature Circuit Breaker

GDC3-63 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/EN60947-2.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.

The main technical parameters

Electrical Features	
Type	GDC3-63-C1-63A/1P.2P.3P.4P
Order code	C1-63A/1P(260149-260159),C1-63A/2P(260160-260170) C1-63A/3P(260171-260181),C1-63A/4P(260182-260192)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	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	6000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C,D
Electrical life	8000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-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
Tightening torque	3.0N · m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxillary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES



GDC3-63 AC Miniature Circuit Breaker

GDC3-63 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.

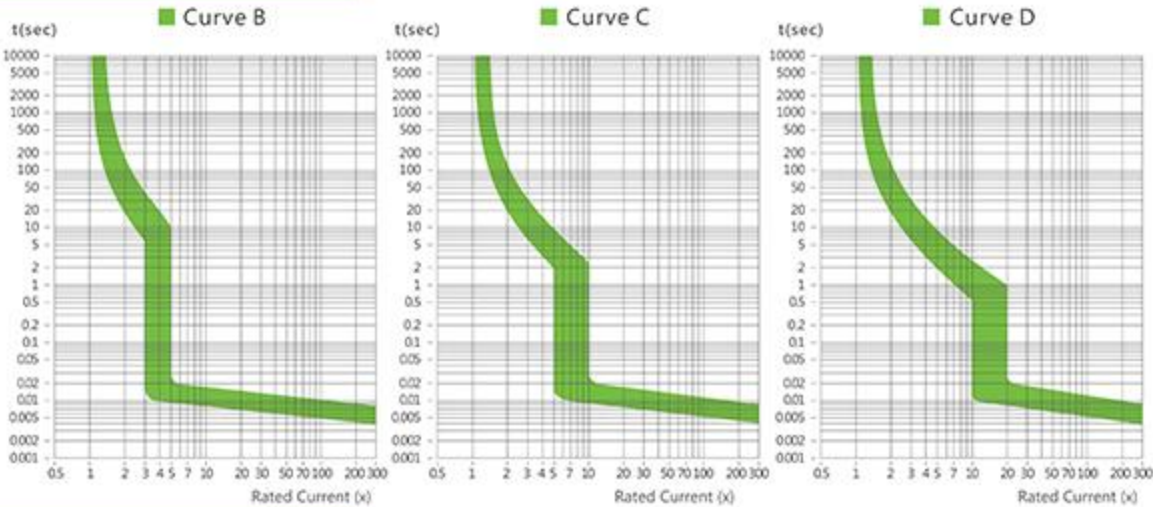


Temperature compensation

Ambient temperature	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.96	0.92	0.88

When the ambient temperature is not a benchmark of 30 degrees,the reference correction factor is as follows.

Characteristics Curve

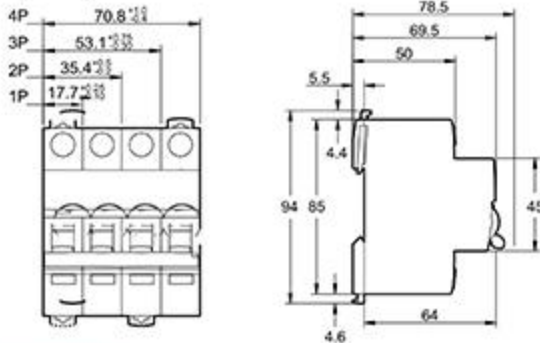


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



Weight (g)

Circuit breaker				
Type	1P	2P	3P	4P
	125	250	375	500

GDC3LE-63 Leakage Circuit Breaker

● GDC3LE-63 series leakage circuit breakers are suitable for AC 50/60Hz, rated voltage 230/400V, rated current 1-63A lines, with leakage, shock, overload, short circuit protection functions. and can be used to protect the overload and short circuit of the line.



- In compliance with IEC/EN60898-1.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- with leakage, shock, overload, short circuit protection functions.

The main technical parameters

Electrical Features	
Type	GDC3LE-63-C6-63A/1P+N,2P,3P,3P+N,4P
Order code	C6-63A/1P+N(260193-260200),C6-63A/2P(260201-260208) C6-63A/3P+N(260209-260216),C6-63A/4P(260217-260224)
Residual current protection type	Electronic
Residual current work type	AC type/A type
Rated current	6A,10A,16A,20A,32A,40A,50A,63A
Pole	1P+N,2P,3P,3P+N,4P
Rated voltage Ue	1P+N/2P:230/400V,3P/3P+N/4P:400V~
Insulation voltage Ui	500V
Rated frequency	50/60HZ
Rated sensitivity I _{Δn}	0.01A,0.03A,0.1A,0.3A
Rated breaking capacity	6000A
Rated impulse withstand voltage(1.2/50)U _{imp}	6kV
Dielectric test voltage at and ind.freq.for.1min	2.5kV
Thermo-magnetic release characteristic	B,C
Electrical life	8000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-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
Tightening torque	3.0N · m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom

GDC3LE-63 Leakage Circuit Breaker

● GDC3LE-63 series leakage circuit breakers are suitable for AC 50/60Hz, rated voltage 230/400V, rated current 1-63A lines, with leakage, shock, overload, short circuit protection functions. and can be used to protect the overload and short circuit of the line.

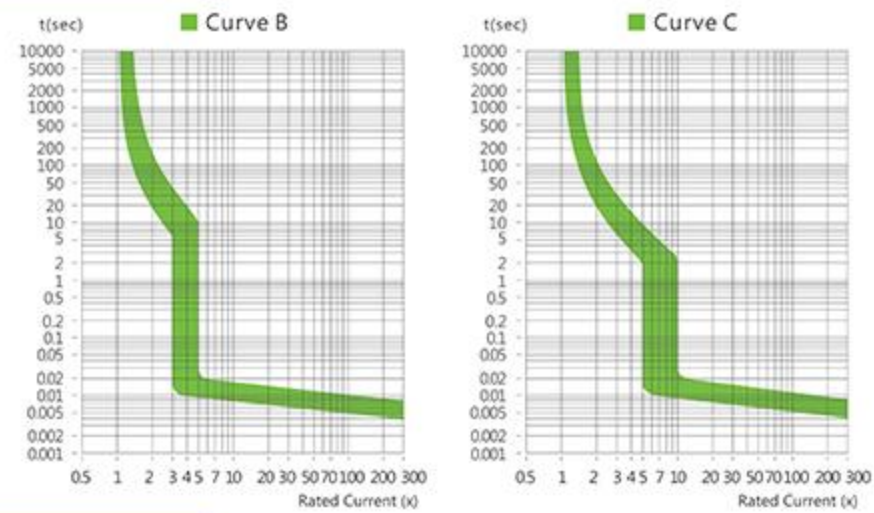


Temperature compensation

Ambient temperature	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.95	0.90	0.85

When the ambient temperature is not a benchmark of 30 degrees,the reference correction factor is as follows.

Characteristics Curve

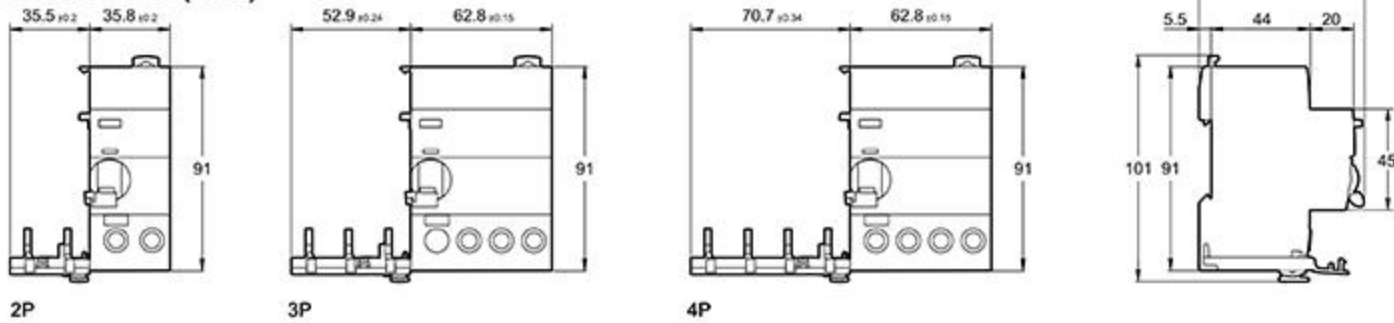


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)

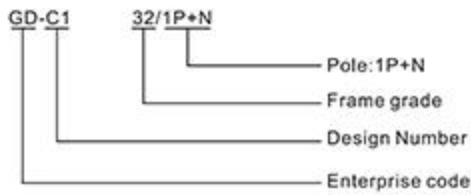


GDC1-32 Miniature Circuit Breaker

- GDC1-32 series miniature circuit breakers are mainly suitable for over-current protection of power line facilities and electrical equipment in buildings and similar places with a rated voltage of 230V and a rated operating current of up to 40A. It can also be used for infrequent on-off operations.



Type



Normal working conditions

- The upper limit of ambient air temperature does not exceed +40C. T limit is not lower than -5C The average temperature within 24h does not exceed 35C
- The altitude of the installation site should not exceed 2000m.
- The relative humidity of the installation site, the highest temperature is 40C, the relative humidity of the air does not exceed 50%, and it is allowed to have a higher temperature at a lower temperature.High relative humidity, such as up to 90 at 20 C, special measures should be taken for the occasional condensation caused by temperature changes.
- Pollution degree: Level 2.
- Installation category of the circuit breaker: IN III category.
- The circuit breaker adopts TH35-7, 5 standard rail installation.
- The circuit breaker should generally be installed vertically, and the handle upwards is the current-on position.
- There should be no significant impact and vibration at the installation site.

Structure

The product is small in size, effective in current limiting, and high in breaking capacity. It has 1P+N double break points, and the two poles are separated by an insulator. Under the premise of synchronous connection and breaking, the N-level always keeps the first connection and then the disconnection, which is guaranteed It has the ability to protect the pole breaking arc, and effectively protect the safety of the controlled circuit and electrical equipment. There is a clear indication of the status of the contact position. The lifting terminal is used for convenient wiring, ensuring reliable wiring of wires of 1~16mm². The accessories are complete, which can be equipped with auxiliary alarm contacts, shunt releases, and undervoltage releases, which provide great convenience for intelligent applications.

The main technical parameters

1: Basic parameters

Frame grade	Rated voltage	Rated current	Rated breaking capacity(Icn)(A)	Pole	Trip type	Life (times)	
						Mechanical life	Electrical life
32	50HZ 230V	6A,10A,16A,20A 25A,32A,	6000	1P+N	B C D	8000	4000
Order code:C6-32A/1P+N(260225-260230)							

2: Tripping characteristics

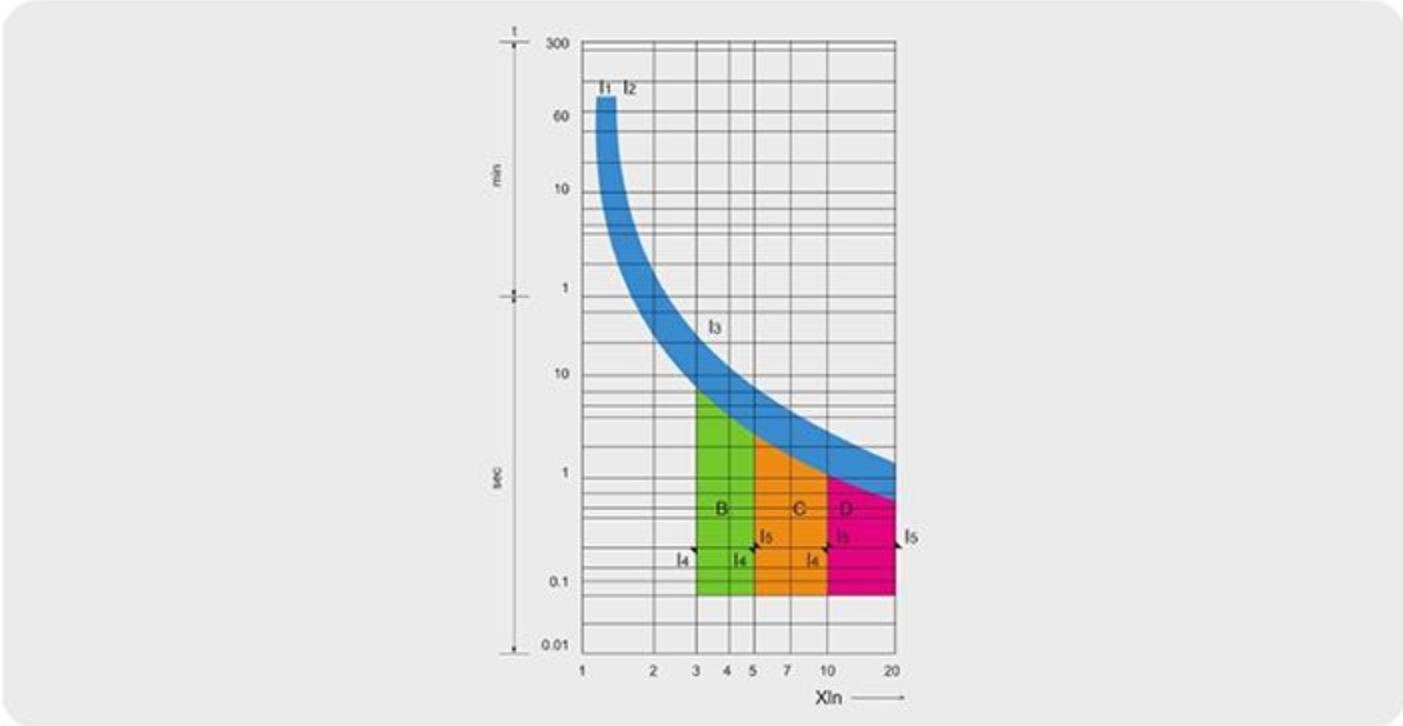
Type of release		B	C	D	Trip time	Result	Ambient temperature
Thermal trip	I1	1.13In	1.13In	1.13In	≤1h	No tripping	30℃~35℃
	I2	1.45In	1.45In	1.45In	<1h	Trip	
Magnetic trip	I3	3In	5In	10In	≤0.1s	No tripping	Homoeothermy
	I4	5In	10In	20In	<0.1s	Trip	

GDC1-32 Miniature Circuit Breaker

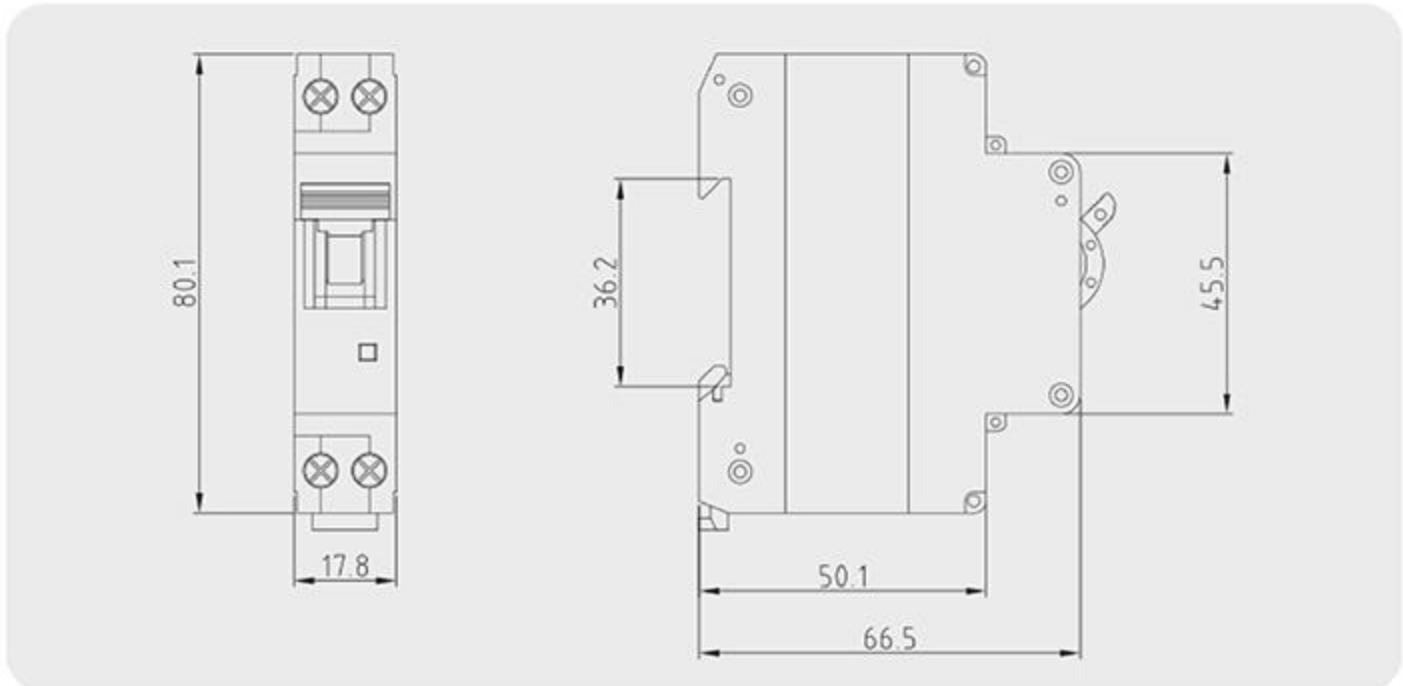
- GDC1-32 series miniature circuit breakers are mainly suitable for over-current protection of power line facilities and electrical equipment in buildings and similar places with a rated voltage of 230V and a rated operating current of up to 40A. It can also be used for infrequent on-off operations.



Tripping characteristic curve



Shape and installation dimensions

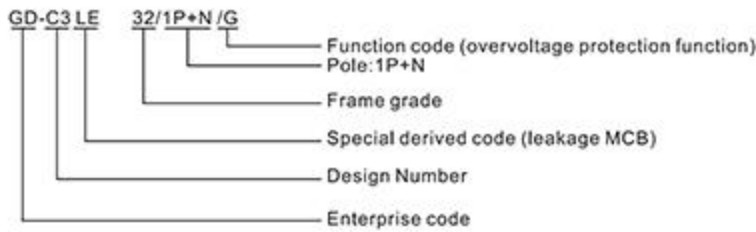


GDC3LE-32 Leakage Circuit Breaker

- GDC3LE-63 series Leakage Circuit Breaker are mainly suitable for over-current protection of power line facilities and electrical equipment in buildings and similar places with a rated voltage of 230V and a rated operating current of up to 32A. It can also be used for infrequent on-off operations.



Type



Normal working conditions

- The upper limit of ambient air temperature does not exceed +40C. T limit is not lower than -5C The average temperature within 24h does not exceed 35C
- The altitude of the installation site should not exceed 2000m.
- The relative humidity of the installation site, the highest temperature is 40C, the relative humidity of the air does not exceed 50%, and it is allowed to have a higher temperature at a lower temperature.High relative humidity, such as up to 90 at 20 C, special measures should be taken for the occasional condensation caused by temperature changes.
- Pollution degree: Level 2.
- Installation category of the circuit breaker: IN III category.
- The circuit breaker adopts TH35-7. 5 standard rail installation.
- The circuit breaker should generally be installed vertically, and the handle upwards is the current-on position.
- There should be no significant impact and vibration at the installation site.

Structure

GDC3LE-32 small leakage circuit breaker is a current-operated electronic leakage circuit breaker. When there is leakage or personal electric shock in the protected circuit, as long as the leakage current reaches the operating current value, the leakage circuit breaker will act immediately to cut off the power supply. In order to protect the leakage and electric shock, the leakage circuit breaker can also protect the electrical overload and short circuit.

The main technical parameters

1: Basic parameters

Frame grade	Rated voltage	Rated current	Rated breaking capacity(Icn)(A)	Rated residual making and breaking capacity	Trip type	Rated residual operating current IΔn (mA)	Rated residual non-operation current IΔno (mA)
32	50HZ 230V	6A,10A,16A,20A 25A,32A	6000	3000	B C D	30、50	15、25
Order code:C6-32A/1P+N(260231-260236)							

2: Tripping characteristics

Type of release		B	C	D	Trip time	Result	Ambient temperature
Thermal trip	I1	1.13In	1.13In	1.13In	≤1h	No tripping	30℃~35℃
	I2	1.45In	1.45In	1.45In	<1h	Trip	
Magnetic trip	I3	3In	5In	10In	≤0.1s	No tripping	Homoeothermy
	I4	5In	10In	20In	<0.1s	Trip	

3: Residual current breaking time of leakage circuit breaker

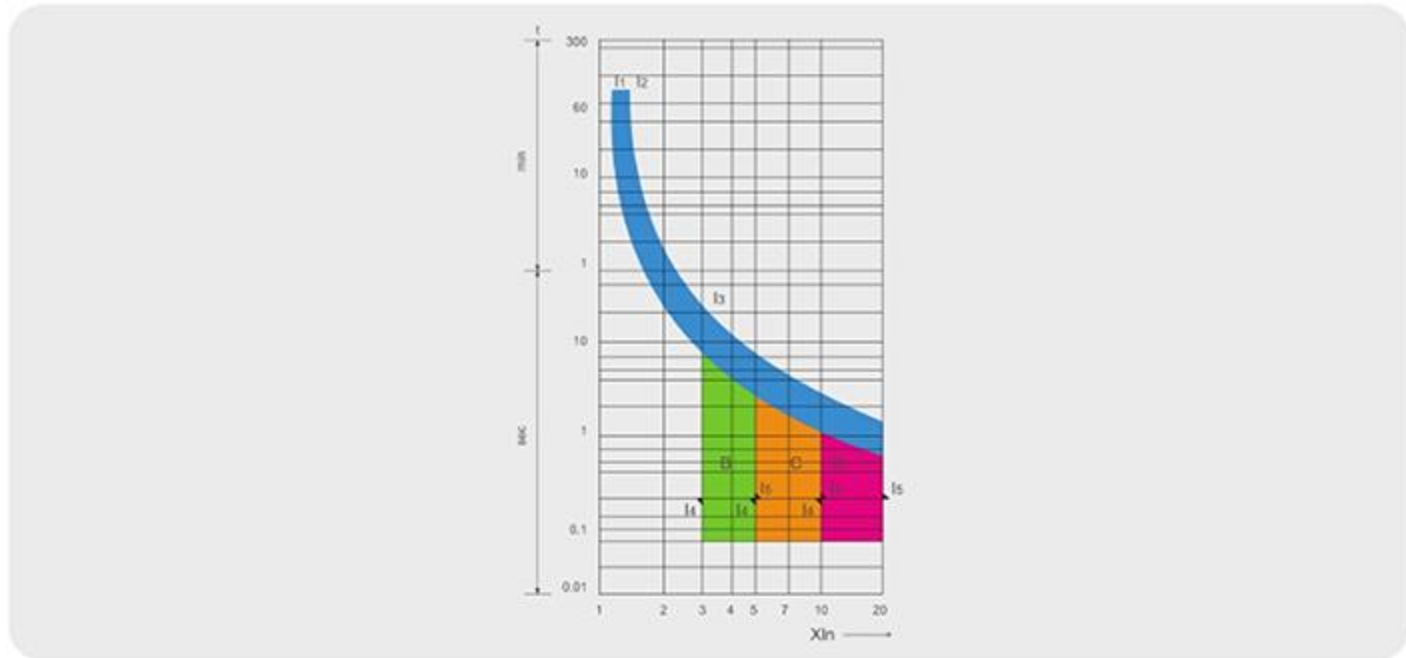
Category	IΔn (mA)	In(A)	IΔn	/	Maximum (residual current) breaking time (S)		
					2IΔn	5IΔn	250mA
Indirect contact	>30	Any value	0.2	/	0.1	0.04	/
Direct contact	≤30	Any value	0.1	/	0.1	/	0.04

GDC3LE-32 Leakage Circuit Breaker

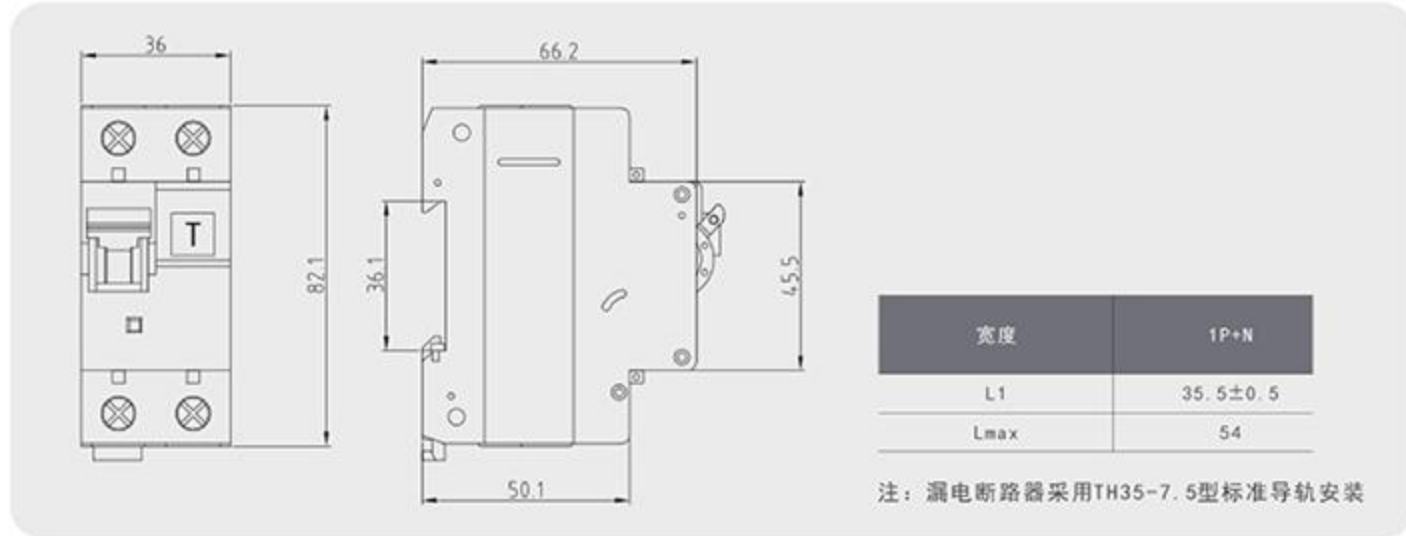
- GDC3LE-63 series Leakage Circuit Breaker are mainly suitable for over-current protection of power line facilities and electrical equipment in buildings and similar places with a rated voltage of 230V and a rated operating current of up to 32A. It can also be used for infrequent on-off operations.



Tripping characteristic curve



Shape and installation dimensions



- In addition to the leakage protection function, the leakage circuit breaker can also protect against excessive voltage rise caused by grid faults. The overvoltage rating is Uvo=280V, and the overall range is Uvo±5% (only used in circuits with a rated voltage of AC230V).

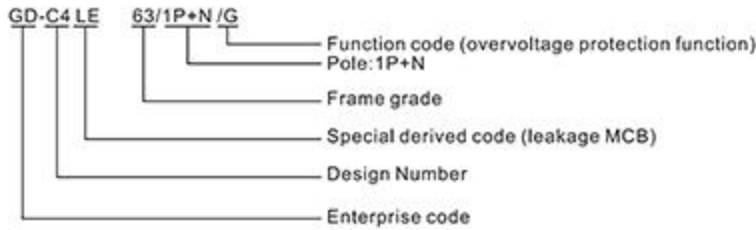
- The leakage circuit breaker has a complete set of accessories, including shunt release, overvoltage release, overvoltage and undervoltage release, undervoltage release, auxiliary contacts and alarm contacts.

GDC4LE-63 Leakage Circuit Breaker

- GDC4LE-63 series Leakage Circuit Breaker are mainly suitable for over-current protection of power line facilities and electrical equipment in buildings and similar places with a rated voltage of 230V and a rated operating current of up to 63A. It can also be used for infrequent on-off operations.



Type



Structure and working principle

This product series leakage circuit breaker. The circuit breaker part is mainly composed of contacts, housing, operating mechanism, electromagnetic system, tripping mechanism, arc extinguishing device, etc., with overload and short-circuit protection functions.

The residual current component part is mainly composed of a zero-sequence transformer made of high-permeability materials, an electronic discrimination control circuit, an electromagnetic trip system and a trip link.

The working principle of this product: When a leakage fault occurs in the protected circuit, the current vector sum of the zero-sequence current transformer is not equal to zero. The buckle connecting rod pushes the circuit breaker to trip and cuts off the power within 0.1s, thereby playing a role in leakage protection.

application

GDC4LE-80 series leakage circuit breakers are widely used in single-phase lighting distribution and single-phase circuit terminal distribution protection component systems. Beautiful and small appearance, light weight, excellent and reliable performance, high breaking capacity, quick tripping and other advantages, its guide rail installation, the shell and parts are made of high flame retardant and impact resistant plastic, and the service life is long. It is mainly used for overload, short circuit, and leakage protection of AC 230V 50Hz lines, and to prevent leakage and fire accidents. Cut off the power supply at the same time for the live wire and the neutral wire.

The main technical parameters

1: Basic parameters

Frame grade	Rated voltage	Rated current	Rated breaking capacity(Icn)(A)	Rated residual making and breaking capacity	Trip type	Rated residual operating current IΔn (mA)	Rated residual non-operation current IΔno (mA)
63	50HZ 230V	6A,10A,20A,25A 32A,40A,50A,63A	6000	3000	C D	30, 50	15, 25
Order code:C6-32A/1P+N(260237-260244)							

2: Tripping characteristics

Type of release		B	C	D	Trip time	Result	Ambient temperature
Thermal trip	I1	1.13In	1.13In	1.13In	≤1h	No tripping	30℃~35℃
	I2	1.45In	1.45In	1.45In	<1h	Trip	
Magnetic trip	I3	3In	5In	10In	≤0.1s	No tripping	Homoeothermy
	I4	5In	10In	20In	<0.1s	Trip	

3: Residual current breaking time of leakage circuit breaker

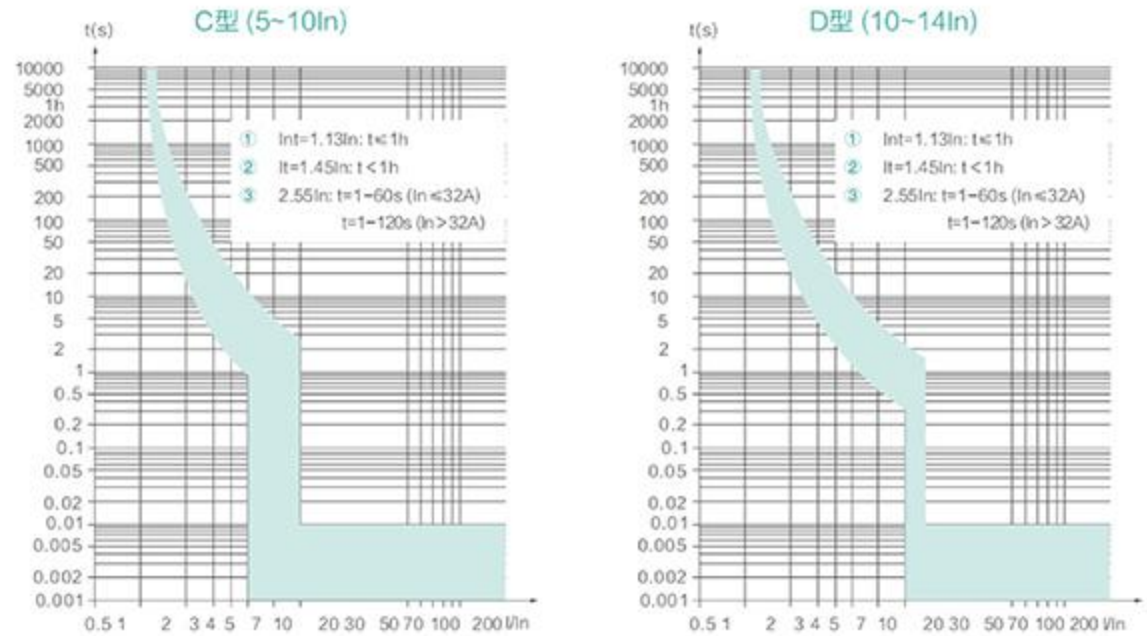
Category	IΔn (mA)	In(A)	IΔn	/	Maximum (residual current) breaking time (S)		
					2IΔn	5IΔn	250mA
Indirect contact	>30	Any value	0.2	/	0.1	0.04	/
Direct contact	≤30	Any value	0.1	/	0.1	/	0.04

GDC4LE-63 Leakage Circuit Breaker

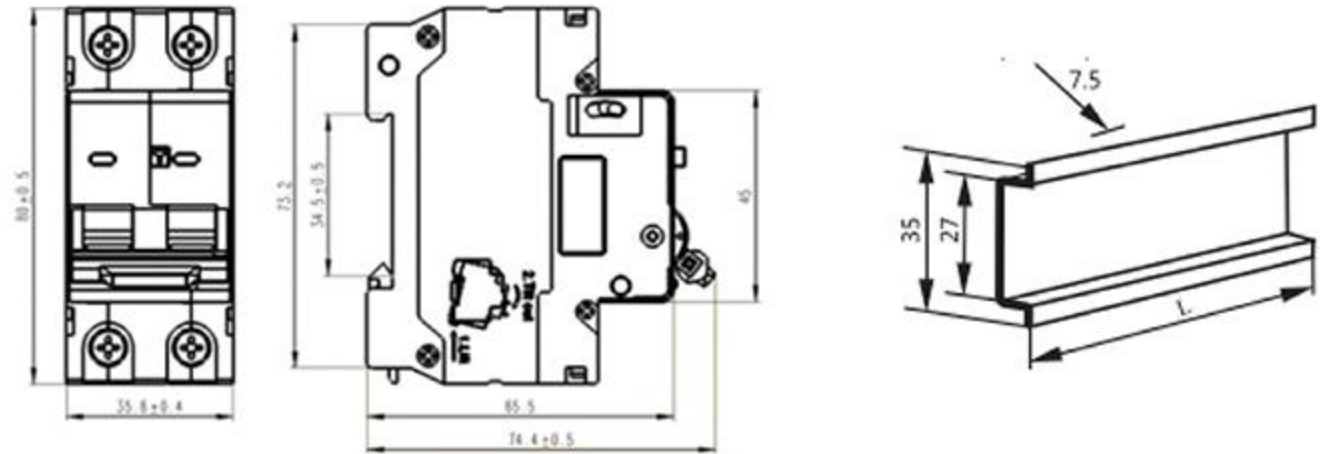
- GDC4LE-63 series Leakage Circuit Breaker are mainly suitable for over-current protection of power line facilities and electrical equipment in buildings and similar places with a rated voltage of 230V and a rated operating current of up to 63A. It can also be used for infrequent on-off operations.



Tripping characteristic curve



Shape and installation dimensions



- In addition to the leakage protection function, the leakage circuit breaker can also protect against excessive voltage rise caused by grid faults. The overvoltage rating is Uvo=280V, and the overall range is Uvo±5% (only used in circuits with a rated voltage of AC230V).

- The leakage circuit breaker has a complete set of accessories, including shunt release, overvoltage release, overvoltage and undervoltage release, undervoltage release, auxiliary contacts and alarm contacts.

GDL7-63 AC Miniature Circuit Breaker

GDL7-63 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/EN60947-2.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.

The main technical parameters

Electrical Features	
Type	GDL7-63-C1-63A/1P.2P.3P.4P
Order code	C1-63A/1P(260245-260254), C1-63A/2P(260255-260264) C1-63A/3P(260265-260274), C1-63A/4P(260275-260284)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	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	6000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C,D
Electrical life	8000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-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
Tightening torque	3.0N • m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

GDL7-63 AC Miniature Circuit Breaker

GDL7-63 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.

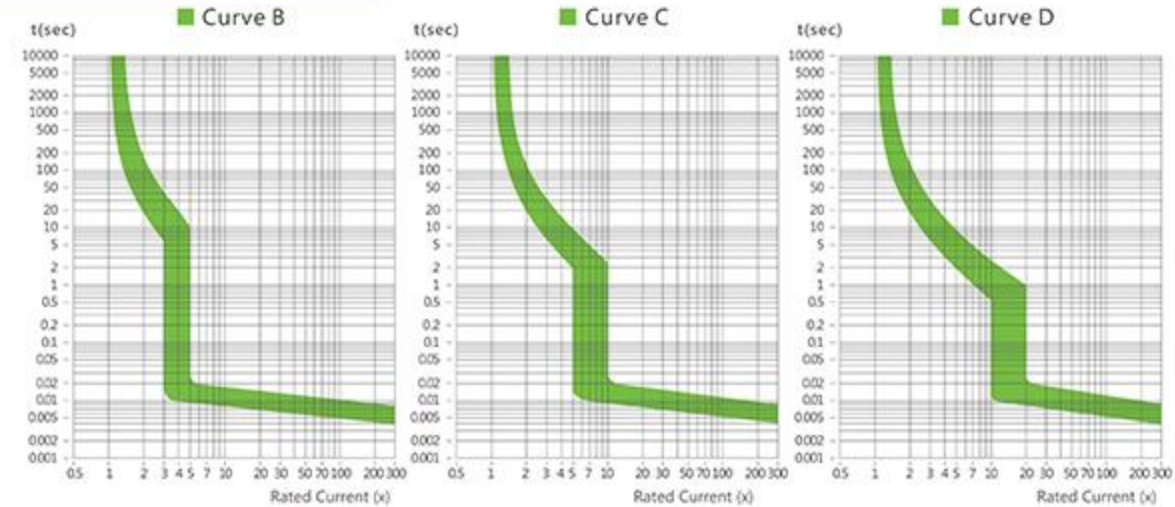


Temperature compensation

Ambient temperature	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.96	0.92	0.88

When the ambient temperature is not a benchmark of 30 degrees,the reference correction factor is as follows.

Characteristics Curve

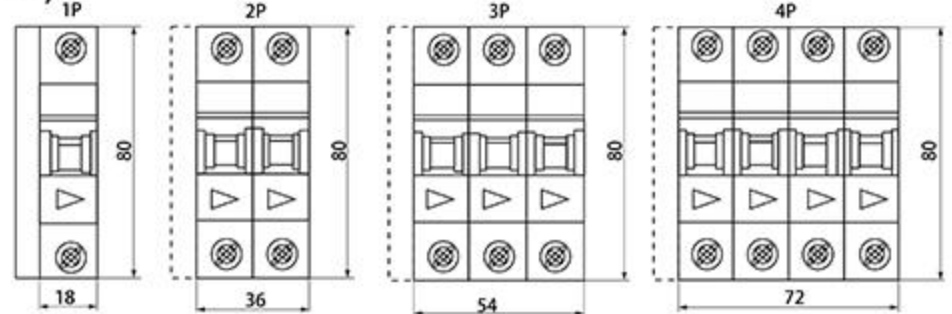


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



GDL7-H-63 AC Miniature Circuit Breaker

GDL7-63 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/EN60947-2.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.

The main technical parameters

Electrical Features	
Type	GDL7-H-63-C1-63A/1P,2P,3P,4P
Order code	C1-63A/1P(260285-260294), C1-63A/2P(260295-260304) C1-63A/3P(260305-260314), C1-63A/4P(260315-260324)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	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	10000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C,D
Electrical life	8000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-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
Tightening torque	3.0N • m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

GDL7-H-63 AC Miniature Circuit Breaker

GDL7-63 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.

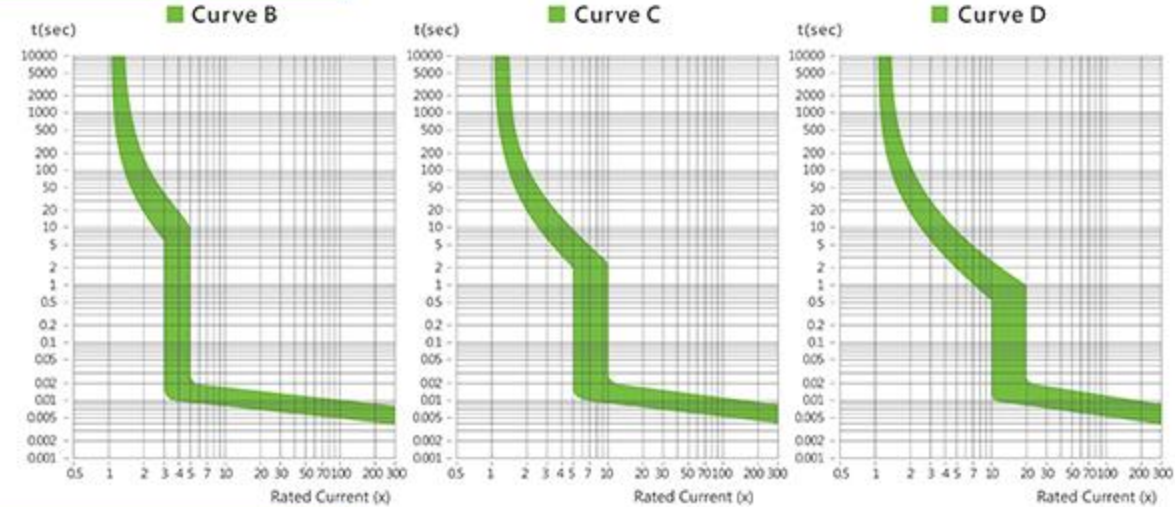


Temperature compensation

Ambient temperature	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.96	0.92	0.88

When the ambient temperature is not a benchmark of 30 degrees,the reference correction factor is as follows.

Characteristics Curve

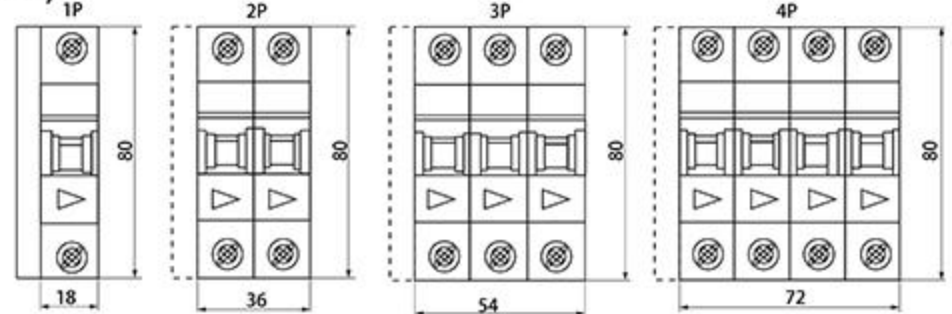


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

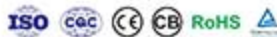
Characteristics Curve

Dimensions (mm)

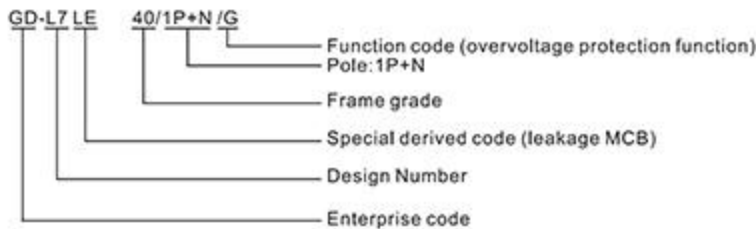


GDL7LE-40 Leakage Circuit Breaker

- GDL7LE-63 series Leakage Circuit Breaker are mainly suitable for over-current protection of power line facilities and electrical equipment in buildings and similar places with a rated voltage of 230V and a rated operating current of up to 40A. It can also be used for infrequent on-off operations.



Type



Normal working conditions

- The upper limit of ambient air temperature does not exceed +40C. T limit is not lower than -5C The average temperature within 24h does not exceed 35C
- The altitude of the installation site should not exceed 2000m.
- The relative humidity of the installation site, the highest temperature is 40C, the relative humidity of the air does not exceed 50%, and it is allowed to have a higher temperature at a lower temperature.High relative humidity, such as up to 90 at 20 C, special measures should be taken for the occasional condensation caused by temperature changes.
- Pollution degree: Level 2.
- Installation category of the circuit breaker: IN III category.
- The circuit breaker adopts TH35-7. 5 standard rail installation.
- The circuit breaker should generally be installed vertically, and the handle upwards is the current-on position.
- There should be no significant impact and vibration at the installation site.

Structure

GDL7LE-40 small leakage circuit breaker is a current-operated electronic leakage circuit breaker. When there is leakage or personal electric shock in the protected circuit, as long as the leakage current reaches the operating current value, the leakage circuit breaker will act immediately to cut off the power supply. In order to protect the leakage and electric shock, the leakage circuit breaker can also protect the electrical overload and short circuit.

The main technical parameters

1: Basic parameters

Frame grade	Rated voltage	Rated current	Rated breaking capacity(Icn)(A)	Rated residual making and breaking capacity	Trip type	Rated residual operating current IΔn (mA)	Rated residual non-operation current IΔno (mA)
40	50HZ 230V	6A,10A,16A,20A 25A,32A,40A,50A,63A	6000	3000	B C D	30、 50	15、 25
Order code:C6-63A/1P+N(260325-260333)							

2: Tripping characteristics

Type of release		B	C	D	Trip time	Result	Ambient temperature
Thermal trip	I1	1.13In	1.13In	1.13In	≤1h	No tripping	30℃~35℃
	I2	1.45In	1.45In	1.45In	<1h	Trip	
Magnetic trip	I3	3In	5In	10In	≤0.1s	No tripping	Homoeothermy
	I4	5In	10In	20In	<0.1s	Trip	

3: Residual current breaking time of leakage circuit breaker

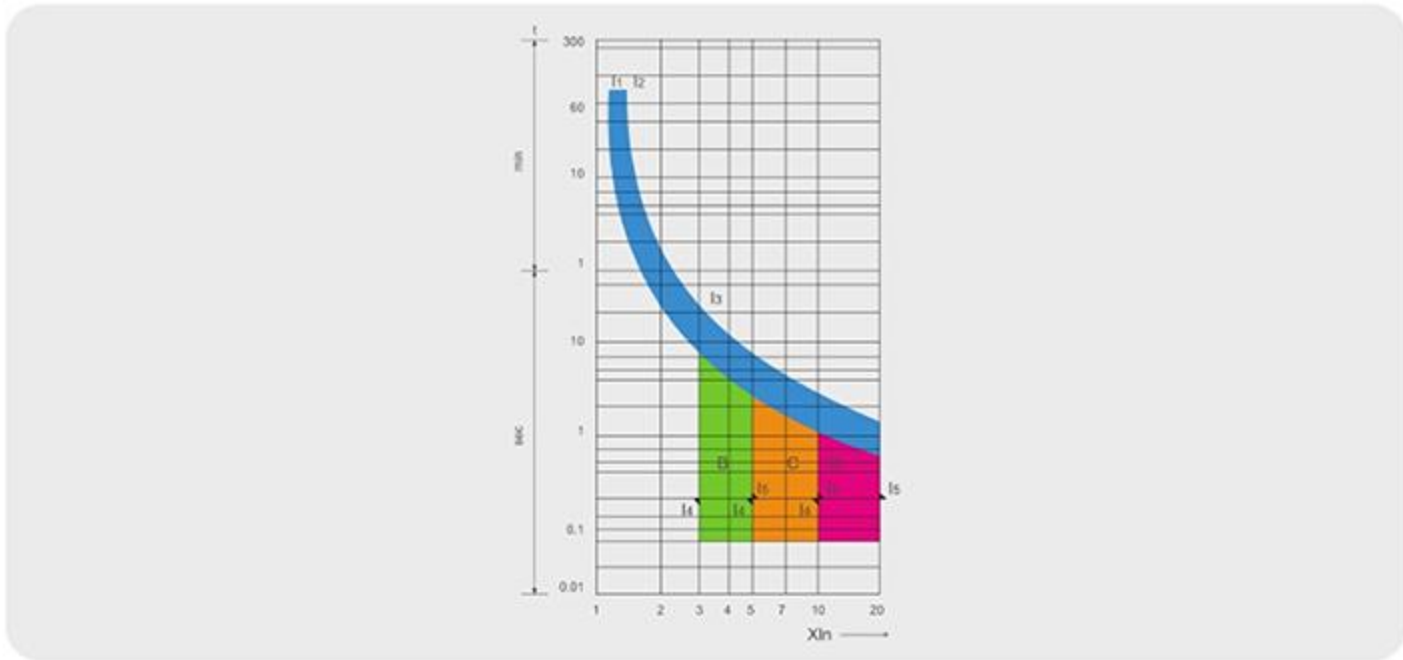
Category	IΔn (mA)	In(A)	IΔn	I	Maximum (residual current) breaking time (S)		
					2IΔn	5IΔn	250mA
Indirect contact	>30	Any value	0.2	/	0.1	0.04	/
Direct contact	≤30	Any value	0.1	/	0.1	/	0.04

GDL7LE-40 Leakage Circuit Breaker

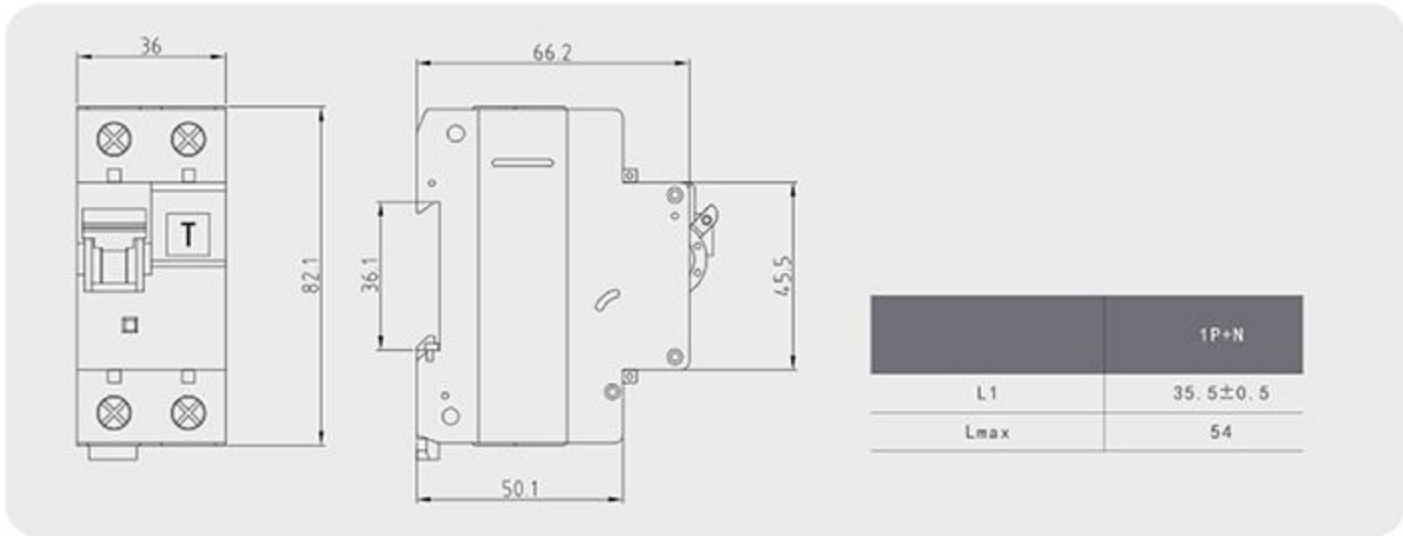
- GDL7LE-63 series Leakage Circuit Breaker are mainly suitable for over-current protection of power line facilities and electrical equipment in buildings and similar places with a rated voltage of 230V and a rated operating current of up to 40A. It can also be used for infrequent on-off operations.



Tripping characteristic curve



Shape and installation dimensions



- In addition to the leakage protection function, the leakage circuit breaker can also protect against excessive voltage rise caused by grid faults. The overvoltage rating is Uvo=280V, and the overall range is Uvo±5% (only used in circuits with a rated voltage of AC230V).

- The leakage circuit breaker has a complete set of accessories, including shunt release, overvoltage release, overvoltage and undervoltage release, undervoltage release, auxiliary contacts and alarm contacts.

GDM1 Moulded Case Circuit Breaker(AC MCCB)

● GDM1 series moulded case circuit breaker is a new type product developed and manufactured by Adopting international advanced technology. It is supplied with rated insulation voltage 800V and used for circuit of AC 50Hz, rated operation voltage AC 400V or below rated operation current up to 1600A for infrequent changing over and starting of the motors.



- In compliance with IEC/EN60947-2.
- With indicator function in the contact position.
- The circuit breaker can also be installed vertically or horizontally.
- Small size, high breaking capacity, short arcing.

The main technical parameters

Type	Frame class Rated current In (A)	Rated current In (A)	Rated working voltage Ue(V)	Rated insulation voltage Ui(V)	Rated ultimate short-circuit breaking capacity Icu (kA) 400/690V	Rated operating short-circuit breaking capacity Iou (kA) 400/690V	Pole	Order code
GDM1-63L	63	6,10,16, 20,25,32, 40,50,63,	400	690	25*	18*	2	L:260334-260 342,M:260343 -260351
GDM1-63M	63				50*	35*	3	
GDM1-125L	125	10,16,20, 25,32,40, 50,63,80, 100,125,	400	690	35/8	22/4	3	L:260352-260 362,M:260363 -260373,H:26 0374-260384
GDM1-125M	125				50/10	35/5	2,3,4	
GDM1-125H	125				85/20	50/10	3	
GDM1-250L	250	125,140, 160,180, 200,225, 250,	400	690	35/8	25/4	3	L:260385-260 391,M:260392 -260398,H:26 0399-260405
GDM1-250M	250				50/10	35/5	2,3,4	
GDM1-250H	250				85/20	50/10	3	
GDM1-400L	400	250,315, 350,400,	400	690	50/10	35/5	3,4	L:260406-260 409,M:260410 -260413,H:26 0414-260417
GDM1-400M	400				80/10	50/5	3,4	
GDM1-400H	400				100/20	65/10	3,4	
GDM1-630L	630	400,500, 630,	400	690	50/10	35/5	3,4	L:260418-260 420,M:260421 -260423,H:26 0424-260427
GDM1-630M	630				80/10	50/5	3,4	
GDM1-630H	630				100/20	65/10	3,4	
GDM1-800L	800	630,700, 800	400	690	100/30	65/15	3,4	L:260428-260 430,M:260431 -260433
GDM1-800M	800				100*	65*	3	
GDM1-1250L	1250	800,1000, 1250,	400	690	50/10	35/5	3,4	L:260434-260 436,M:260437 -260439
GDM1-1250M	1250				80/10	50/5	3	

Action characteristics

No.	Test current name	I/Ir	Appointment time	Starting state
1	Conventional non-tripping current	1.05	2h(In>63A), 1h(In≤63A)	Cold state
2	Conventional tripping current	1.30	2h(In>63A), 1h(In≤63A)	Immediately after Test 1

Action characteristics

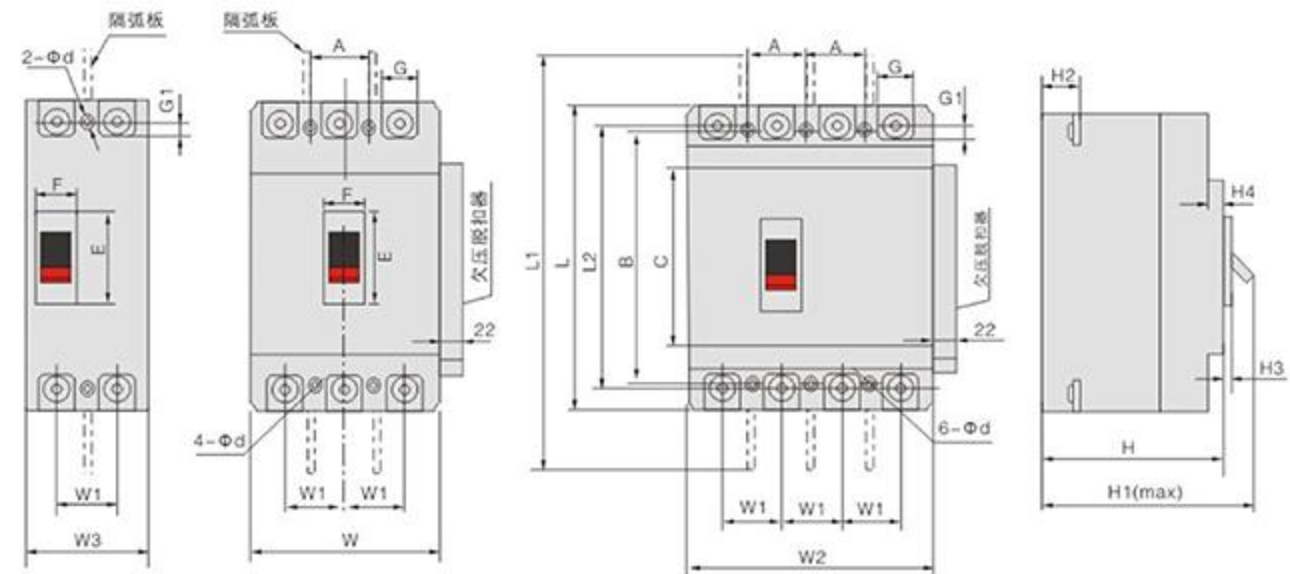
No.	Set current	appointment time	Starting state	Remark
1	1.0In	>2h	Cold state	
2	1.2In	≤2h	Immediately after Test 1	
3	1.5In	≤4min	Cold state	10≤In≤225
		≤8min	Cold state	225≤In≤630
4	7.2In	4s≤T≤10s	Cold state	10≤In≤225
		6s≤T≤20s	Cold state	225≤In≤630

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● GDM1 series moulded case circuit breaker is a new type product developed and manufactured by Adopting international advanced technology. It is supplied with rated insulation voltage 800V and used for circuit of AC 50Hz, rated operation voltage AC 400V or below rated operation current up to 1600A for infrequent changing over and starting of the motors.



Outline installation dimension



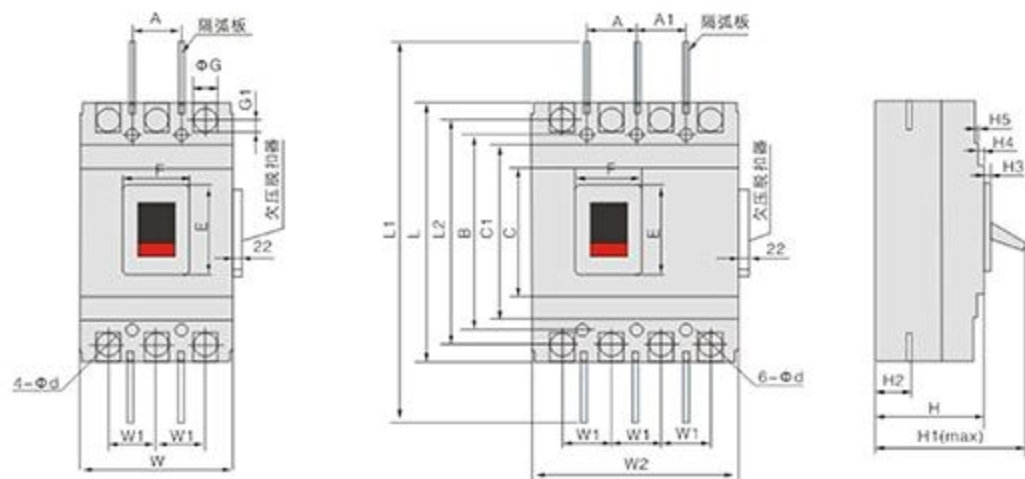
Type	GDM1-63L	GDM1-63M	GDM1-125L	GDM1-125M GDM1-125H	GDM1-250L	GDM1-250M GDM1-250H
Product Size	C	85	85	84	102	102
	E	48	48	50.5	50	50
	F	22	22	22	22	22
	G	14	14	17.5	23	23
	G1	6.5	6.5	7.5	11.5	11.5
	H	72	82	67	86	103
	H1	90	100	84	110	127
	H2	18	28	24	24	24
	H3	4	4	4	4	4
	H4	6	6	7	5	5
	L	135	135	155	165	165
	L1	233	235	255	360	360
	L2	117	117	136	144	144
	W	76	76	90	105	105
	W1	25	25	30	35	35
Installation size	W2	-	102.5	120	-	140
	W3	-	-	65	-	74.5
	A	25	25	30	35	35
	B	117	117	130.5	126	126
	φd	3.5	3.5	4.5	5	5

GDM1 Moulded Case Circuit Breaker(AC MCCB)

GDM1 series moulded case circuit breaker is a new type product developed and manufactured by Adopting international advanced technology. It is supplied with rated insulation voltage 800V and used for circuit of AC 50Hz, rated operation voltage AC 400V or below rated operation current up to 1600A for infrequent changing over and starting of the motors.



Outline installation dimension



Type		GDM1-400L/3P GDM1-400M/3P GDM1-400H/3P	GDM1-400L/4P GDM1-400M/4P GDM1-400H/4P	GDM1-630L/3P GDM1-630M/3P GDM1-630H/3P	GDM1-630L/4P GDM1-630M/4P GDM1-630H/4P	GDM1-800L/3P GDM1-800M/3P	GDM1-800L/4P
Product Size	C	127.5	127.5	134	134	154	136
	C1	173.5	173.5	184.5	184.5	204	204
	E	88.5	88.5	89	89	104	81
	F	65	65	65.5	65	66	66
	ΦG	30.5	30.5	44	44	45	45
	G1	11	12	13.5	15.5	10.5	12
	H	107	107	112	112	106	106
	H1	150	150	153	160	150	162
	H2	38	40	41.5	41	34.5	41.5
	H3	6.5	6	7	6.5	4.5	4.5
	H4	5.5	5	3.5	3.5	5	5
	H5	5	4.5	4.5	4.5	8	8
	L	257	257	270.5	270.5	280	280
	L1	457	457	470	470	470	485
	L2	224	224	234	234	243	243
	W	150	-	182	-	210	-
	W1	48	48	58	58	70	70
	W2	-	197.5	-	240	-	280
Installation size	A	44	44	58	58	70	70
	A1	-	50	-	58	-	-
	B	194	194	200	200	243	243
	Φd	7	7	7	7	7	7

GDM1 Moulded Case Circuit Breaker(AC MCCB)

GDM1 series moulded case circuit breaker is a new type product developed and manufactured by Adopting international advanced technology. It is supplied with rated insulation voltage 800V and used for circuit of AC 50Hz, rated operation voltage AC 400V or below rated operation current up to 1600A for infrequent changing over and starting of the motors.



Accessories



Shunt release series



Auxiliary Contact Series



Plug-in series



Plug-in series

GDDC1-63 DC Miniature Circuit Breaker

● GDDC1-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.



- In compliance with IEC/EN60947-2.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.

The main technical parameters

Electrical Features	
Type	GDDC1-63-C1-63A/1P,2P,3P,4P
Order code	C1-63A/1P(260440-260449), C1-63A/2P(260450-260459) C1-63A/3P(260460-260469), C1-63A/4P(260470-260479)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	1P,2P,3P,4P
Rated voltage Ue	1P:250V,2P:500V,3P:750V,4P:1000V,
Insulation voltage Ui	1000V
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.1min	2kV
Thermo-magnetic release characteristic	B,C
Electrical life	4000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30°C
Ambient temperature	-5~+40°C
Storage temperature	-25~+70°C
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Tightening torque	3.0N · m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES



GDDC1-63 DC Miniature Circuit Breaker

● GDDC1-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.

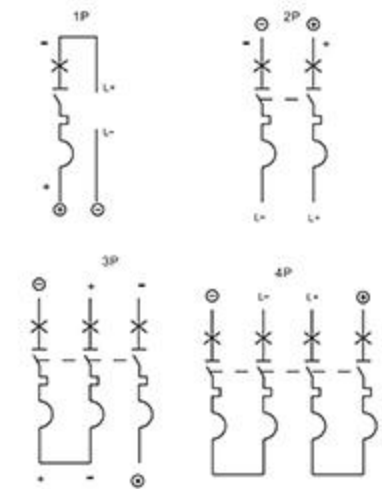
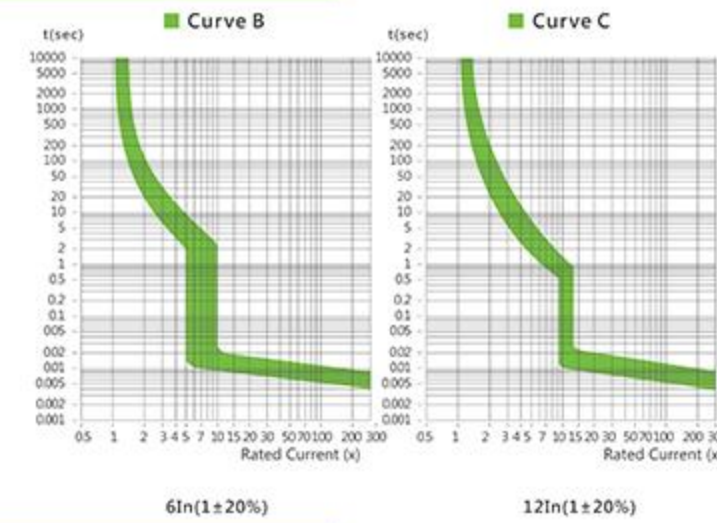


Temperature compensation

Ambient temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.96	0.92	0.88

When the ambient temperature is not a benchmark of 30 degrees, the reference correction factor is as follows.

Characteristics Curve

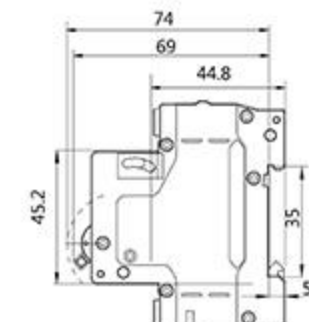
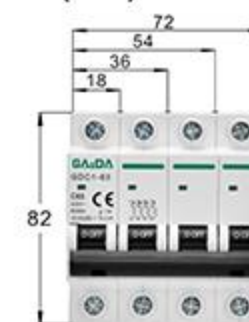


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



Weight (g)

Circuit breaker				
Type	1P	2P	3P	4P
	120	240	360	480

GDDC2-63 DC Miniature Circuit Breaker

GDDC2-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.



- In compliance with IEC/EN60947-2.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.

The main technical parameters

Electrical Features	
Type	GDDC2-63-C1-63A/1P,2P,3P,4P
Order code	C1-63A/1P(260480-260489), C1-63A/2P(260490-260499) C1-63A/3P(260500-260509), C1-63A/4P(260510-260519)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	1P,2P,3P,4P
Rated voltage Ue	1P:250V,2P:500V,3P:750V,4P:1000V,
Insulation voltage Ui	1000V
Rated frequency	50/60HZ
Rated breaking capacity	6000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C
Electrical life	8000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30°C
Ambient temperature	-5~+40°C
Storage temperature	-25~+70°C
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Tightening torque	3.0N · m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES



GDDC2-63 DC Miniature Circuit Breaker

GDDC2-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.

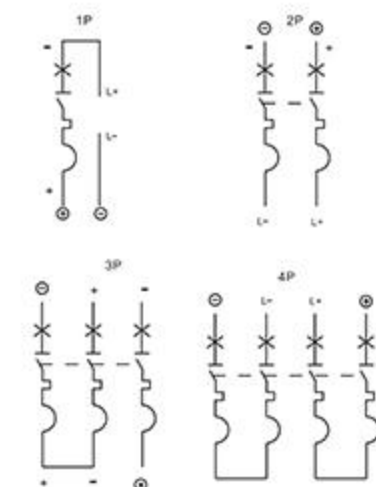
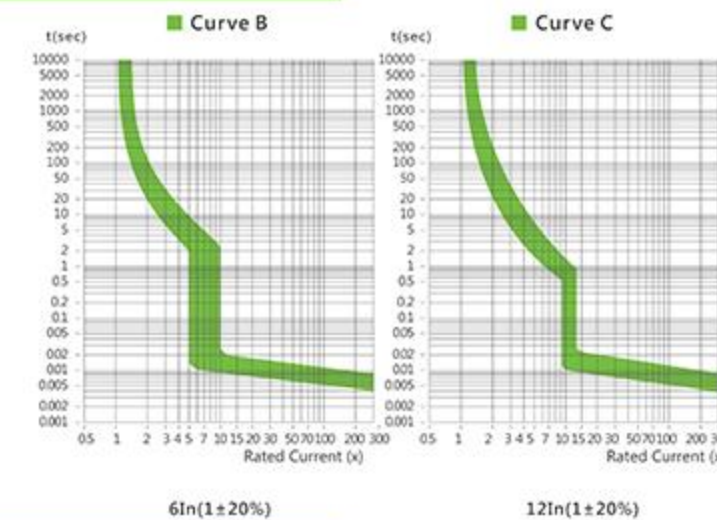


Temperature compensation

Ambient temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.96	0.92	0.88

When the ambient temperature is not a benchmark of 30 degrees, the reference correction factor is as follows.

Characteristics Curve

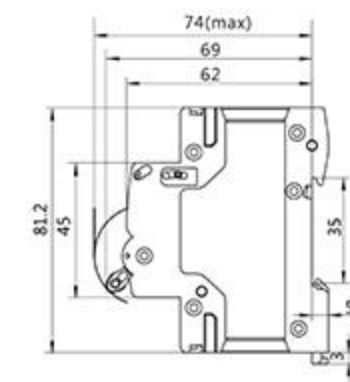
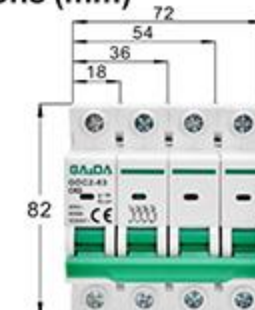


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



Weight (g)

Circuit breaker				
Type	1P	2P	3P	4P
	120	240	360	480

GDDC3-63 DC Miniature Circuit Breaker

GDDC3-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.



- In compliance with IEC/EN60947-2.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.

The main technical parameters

Electrical Features	
Type	GDDC3-63-C1-63A/1P,2P,3P,4P
Order code	C1-63A/1P(260520-260529), C1-63A/2P(260530-260539) C1-63A/3P(260540-260549), C1-63A/4P(260550-260559)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	1P,2P,3P,4P
Rated voltage Ue	1P:250V,2P:500V,3P:750V,4P:1000V,
Insulation voltage Ui	1000V
Rated frequency	50/60HZ
Rated breaking capacity	6000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C
Electrical life	8000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30℃
Ambient temperature	-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
Tightening torque	3.0N · m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

GDDC3-63 DC Miniature Circuit Breaker

GDDC3-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.

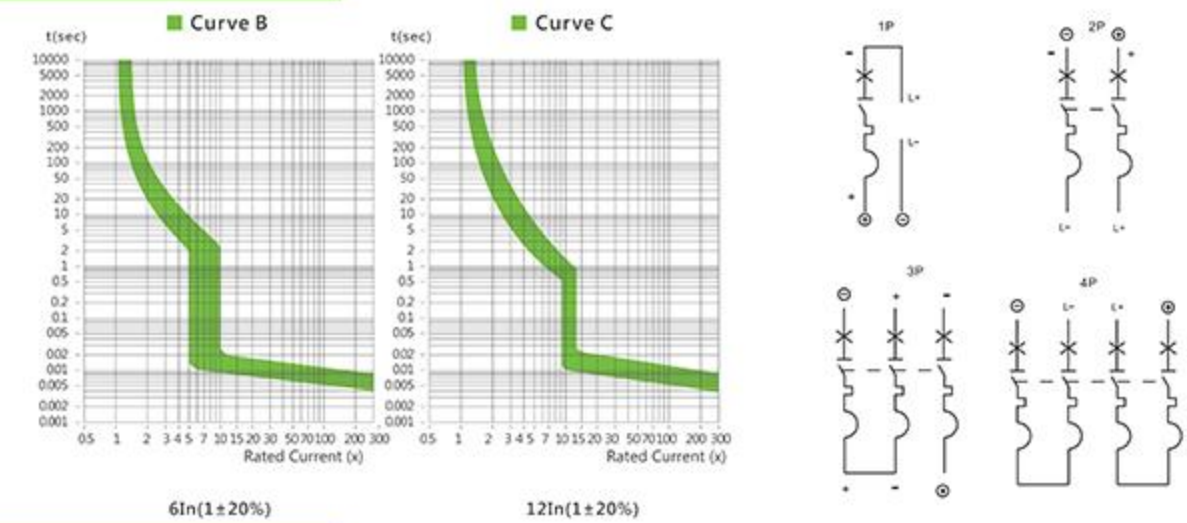


Temperature compensation

Ambient temperature	-20℃	-10℃	0℃	10℃	20℃	30℃	40℃	50℃	60℃
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.96	0.92	0.88

When the ambient temperature is not a benchmark of 30 degrees, the reference correction factor is as follows.

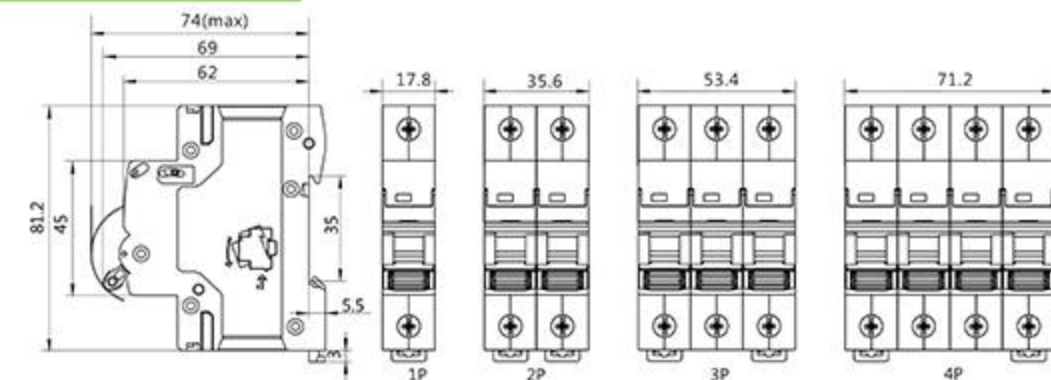
Characteristics Curve



Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve



GDDC4-63 DC Miniature Circuit Breaker

GDDC4-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.

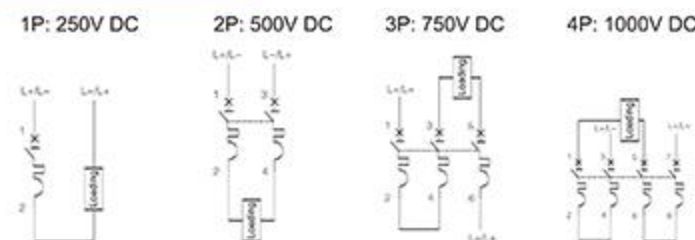


- In compliance with IEC/EN60947-2.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.

The main technical parameters

Electrical Features	
Type	GDDC4-63-C1-63A/1P,2P,3P,4P
Order code	C1-63A/1P(260560-260569), C1-63A/2P(260570-260579) C1-63A/3P(260580-260589), C1-63A/4P(260590-260599)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	1P,2P,3P,4P
Rated voltage Ue	1P:250V,2P:500V,3P:750V,4P:1000V,
Insulation voltage Ui	1000V
Rated frequency	50/60HZ
Rated breaking capacity	10000A
Rated impulse withstand voltage(1.2/50)Uimp	4kV
Dielectric test voltage at and ind.freq.for,1min	2kV
Thermo-magnetic release characteristic	C,K
Electrical life	10000
Mechanical life	20000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30°C
Ambient temperature	-5~+40°C
Storage temperature	-25~+70°C
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Tightening torque	3.0N • m 22
Mounting	On DIN rail FN60715(35mm)

Wiring diagram



GDDC4-63 DC Miniature Circuit Breaker

GDDC4-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.

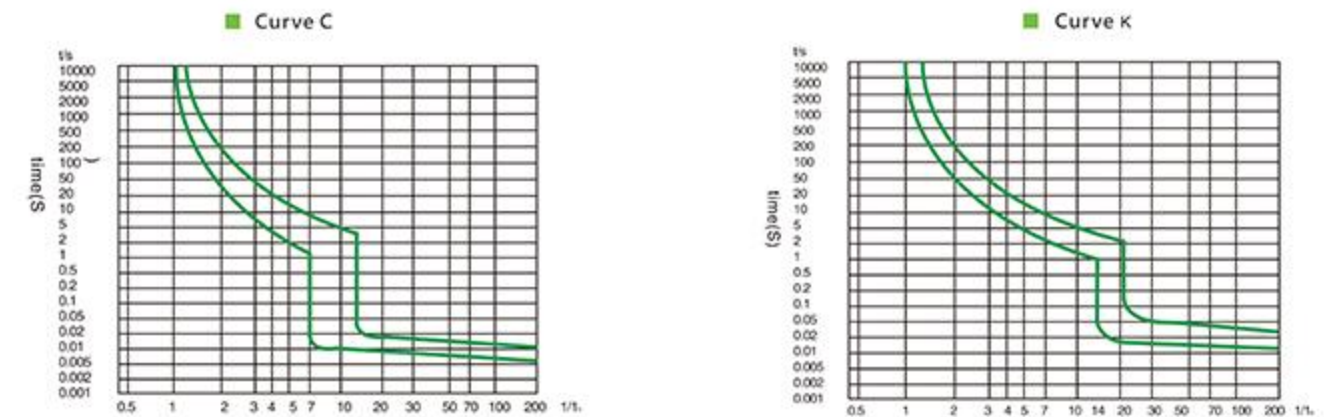


Temperature compensation

Ambient temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.96	0.92	0.88

When the ambient temperature is not a benchmark of 30 degrees, the reference correction factor is as follows.

Characteristics Curve

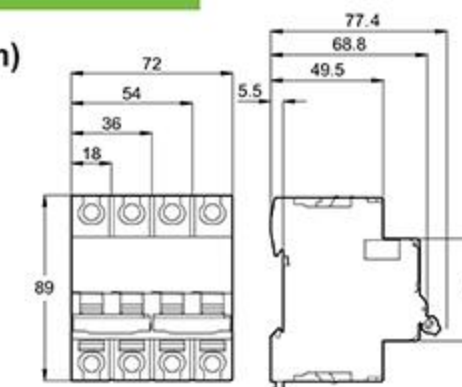


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Mounting & dimension

Dimensions (mm)



Weight (g)

Circuit breaker				
Type	1P	2P	3P	4P
	120	240	360	480

GDDCL7-63 DC Miniature Circuit Breaker

GDDCL7-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.



- In compliance with IEC/EN60947-2.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.

The main technical parameters

Electrical Features	
Type	GDDCL7-63-C1-63A/1P,2P,3P,4P
Order code	C1-63A/1P(260600-260609), C1-63A/2P(260610-260619) C1-63A/3P(260620-260629), C1-63A/4P(260630-260639)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	1P,2P,3P,4P
Rated voltage Ue	1P:250V,2P:500V,3P:750V,4P:1000V,
Insulation voltage Ui	1000V
Rated frequency	50/60HZ
Rated breaking capacity	6000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C
Electrical life	8000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30°C
Ambient temperature	-5~+40°C
Storage temperature	-25~+70°C
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Tightening torque	3.0N · m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

GDDCL7-63 DC Miniature Circuit Breaker

GDDCL7-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.

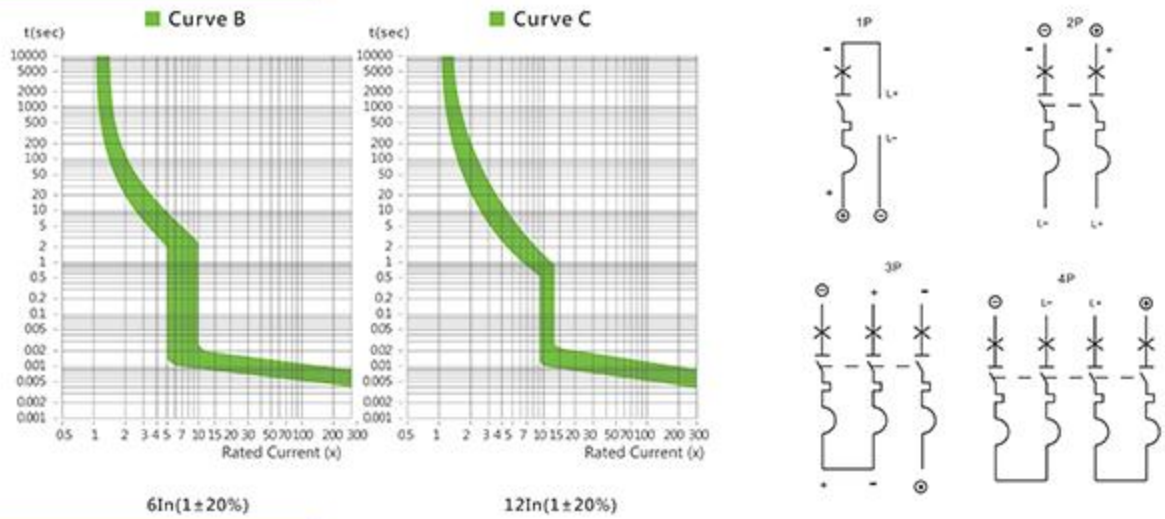


Temperature compensation

Ambient temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.96	0.92	0.88

When the ambient temperature is not a benchmark of 30 degrees, the reference correction factor is as follows.

Characteristics Curve

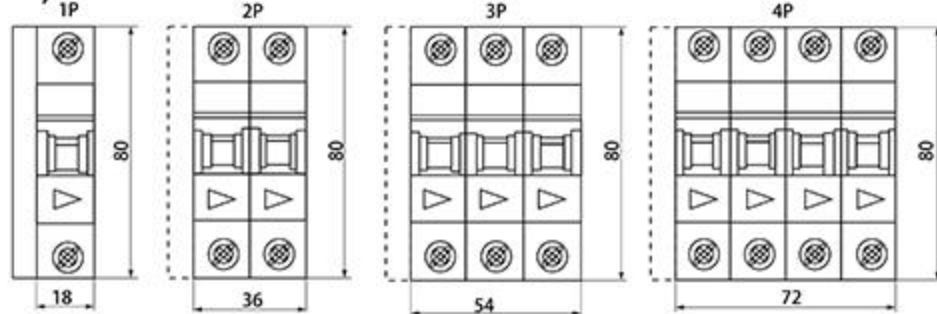


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



GDDCL7-H-63 DC Miniature Circuit Breaker

GDDCL7-H-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.



- In compliance with IEC/EN60947-2.
- With indicator function in the contact position.
- Maximum connecting ability of 25mm²,
- wiring torque 3N*m, applicable to a variety of installing equipment.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.

The main technical parameters

Electrical Features	
Type	GDDCL7-H-63-C1-63A/1P,2P,3P,4P
Order code	C1-63A/1P(260640-260649), C1-63A/2P(260650-260659) C1-63A/3P(260660-260669), C1-63A/4P(260670-260679)
Rated current	1A,2A,6A,10A,16A,20A,32A,40A,50A,63A
Pole	1P,2P,3P,4P
Rated voltage Ue	1P:250V,2P:500V,3P:750V,4P:1000V,
Insulation voltage Ui	1000V
Rated frequency	50/60HZ
Rated breaking capacity	10000A
Rated impulse withstand voltage(1.2/50)Uimp	6kV
Dielectric test voltage at and ind.freq.for.1min	2kV
Thermo-magnetic release characteristic	B,C
Electrical life	8000
Mechanical life	10000
Installation	
Contact position indicator	YES
Protection Class	IP20
Reference temperature for setting of thermal element	30°C
Ambient temperature	-5~+40°C
Storage temperature	-25~+70°C
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	25mm ² 18-3
Tightening torque	3.0N · m 22
Mounting	On DIN rail FN60715(35mm)
Connection	Top and bottom
Combination with accessories	
Auxiliary contact	YES
Alarm contact	YES
Shunt release	YES
Under voltage release	YES

GDDCL7-H-63 DC Miniature Circuit Breaker

GDDCL7-H-63 circuit breaker is used for DC rated voltage to 1000V, rated current to 63A line, for overload and short circuit protection, and can also be used as an infrequent operation of the line. Circuit breakers are used in DC applications such as communications and photovoltaic system.

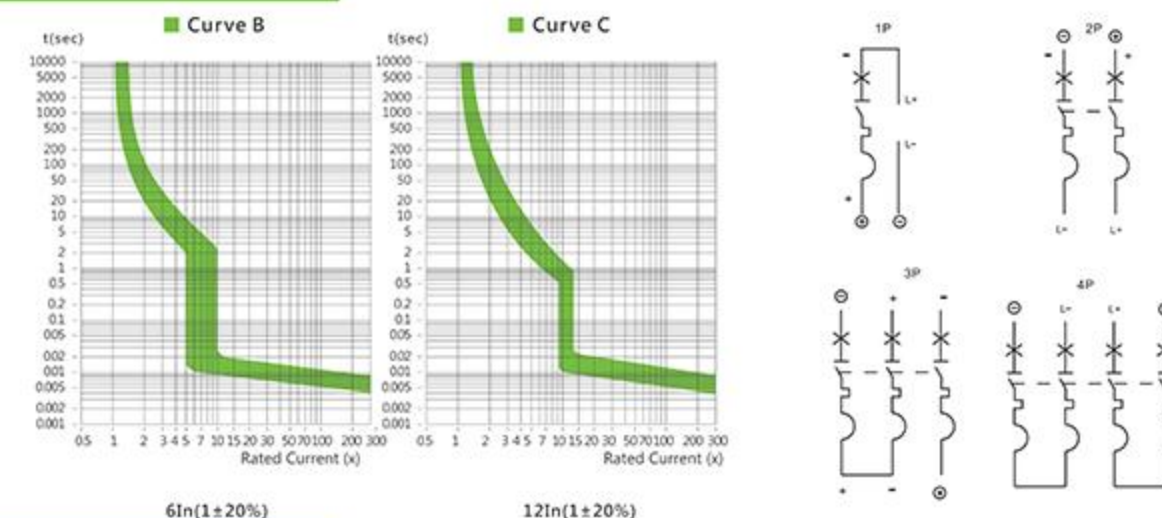


Temperature compensation

Ambient temperature	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
Current Correction Coefficient	1.25	1.2	1.15	1.10	1.05	1.00	0.96	0.92	0.88

When the ambient temperature is not a benchmark of 30 degrees, the reference correction factor is as follows.

Characteristics Curve

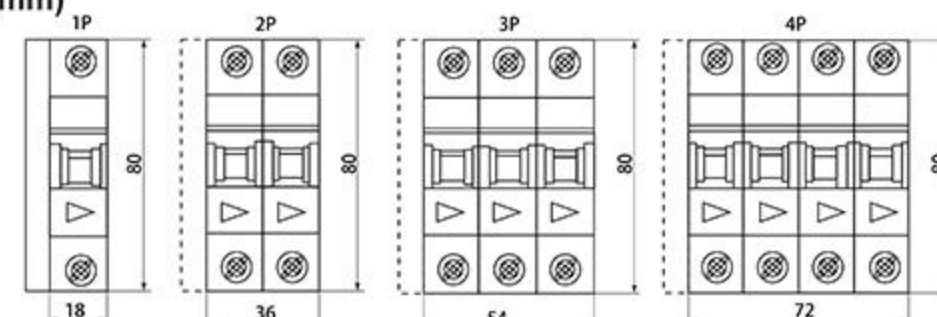


Characteristics Curve

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16

Characteristics Curve

Dimensions (mm)



GDDCM1 Solar DC Moulded Case Circuit Breaker(DC MCCB)

● GDDCM1 series Moulded Case Circuit Breaker is designed to distribute power and protect the circuit and power equipment against overload in solar system. It is apply to rating current 1250A or less, direct current rating voltage 1500V or less. Products according IEC60947-2 standard,



- In compliance with IEC/EN60947-2.
- With indicator function in the contact position.
- The circuit breaker can also be installed vertically or horizontally,
- Small size, high breaking capacity, short arcing.

The main technical parameters

Type	GDDCM1-125	GDDCM1-250	GDDCM1-400	GDDCM1-630	GDDCM1-800	GDDCM1-1250													
Rated Continuous Current	125	250	400	630	800	1250													
Rated Current In (A)	16,20,25 32,40, 50,63,80, 100,125,	100,125, 140,160, 180,200, 225,250,	250,315, 350,400,	400,500, 630,	630,700, 800,	800,1000, 1250,													
Rated Operating Voltage Ue (V) DC	550V 1000V 1500V	550V 1000V 1500V	1000V 1500V	1000V 1500V	1000V 1500V	1000V 1500V													
Rated Insulation Voltage Ui (V)	1500V																		
Uimp (kV)	8kV																		
Test Voltage One Minute (V)	3550																		
Mechanical Life	7000	7000	4000	4000	2500	2000													
Electrical Life	2000	2000	1000	1000	800	600													
Breaking Times (ms)	20																		
Installation Location	Any place																		
Isolator Capacity	Yes																		
Standard	IEC60947-2,IEC60947-1,																		
Temperature (℃)	-25℃~+50℃																		
Protection Degree	IP20																		
Accessory	OF/SD/MX																		
Arcing Distance (mm)	≥50																		
Breaking Capacity (kA) Icu (1cs= 75% Icu)		L	M	H	L	M	H	L	M	H	L	M	H	L	M	H	L	M	H
	250V	25	35	50	35	50	65	35	50	65	35	50	65	50	65	80	50	65	80
	500V	25	25	50	35	35	65	35	35	65	35	35	65	50	50	80	50	50	80
	750V	25	15	50	35	25	65	35	25	65	35	25	65	50	35	80	50	35	80
	1000V	25	10	50	35	15	65	35	15	65	35	15	65	50	20	80	50	20	80
Arcing Distance (mm)	2P:180x76x126mm. 3P:180x107x126mm,4P:258x200x107mm																		

Application conditions

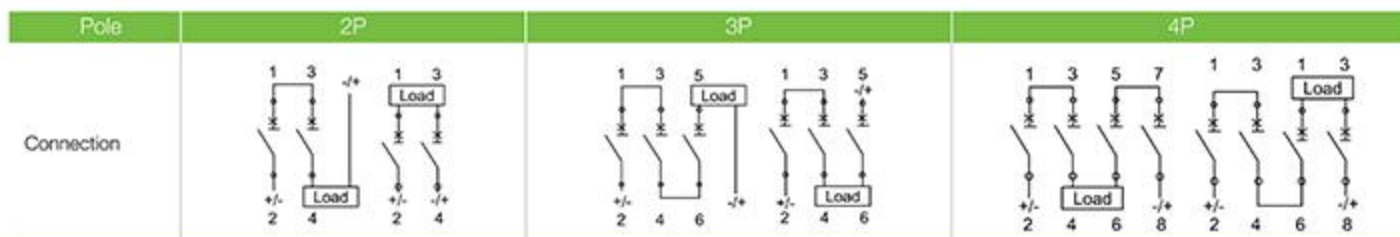
- Altitude : less than 2000m (please specify when it's higher than 2000m).
- Ambient temperature : -40~+70
- Dampproof Moisture-resistant

GDDCM1 Solar DC Moulded Case Circuit Breaker(DC MCCB)

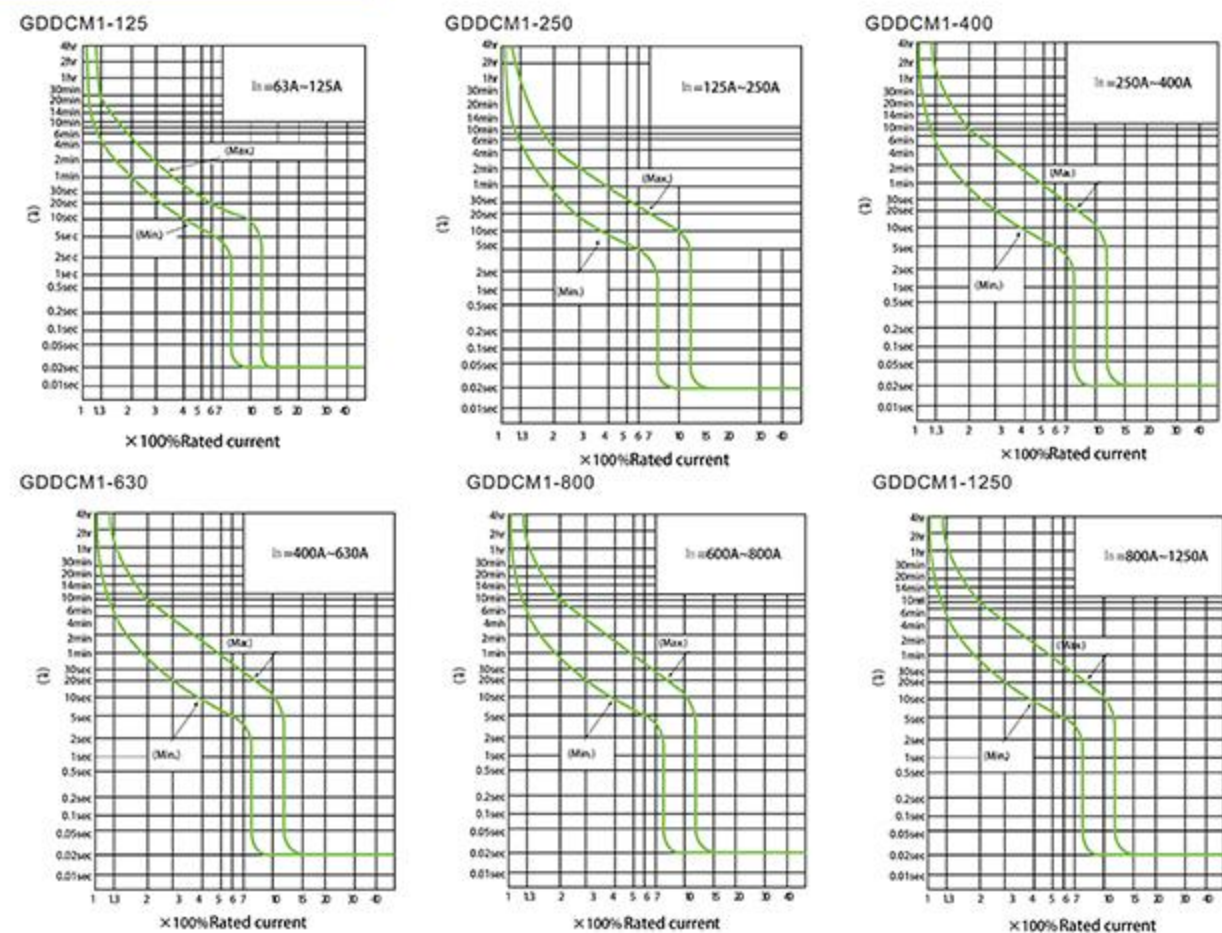
● GDDCM1 series Moulded Case Circuit Breaker is designed to distribute power and protect the circuit and power equipment against overload in solar system. It is apply to rating current 1250A or less, direct current rating voltage 1500V or less. Products according IEC60947-2 standard,



Connection



Characteristic Curve



Order Code

	GDDCM1-125	GDDCM1-250	GDDCM1-400	GDDCM1-630	GDDCM1-800	GDDCM1-1250
2P 500V	16-125A:260680-260689	100-250A:260720-260727	250-400A:260752-260755	400-630A:260768-260770	630-800A:260780-260782	630-1250A:260792-260794
2P 1000V	16-125A:260690-260699	100-250A:260728-260735	250-400A:260756-260759	400-630A:260771-260773	630-800A:260783-260785	630-1250A:260795-260797
3P 1500V	16-125A:260700-260709	100-250A:260736-260743	250-400A:260760-260763	400-630A:260774-260776	630-800A:260786-260788	630-1250A:260798-260800
4P 1500V	16-125A:260710-260719	100-250A:260744-260751	250-400A:260764-260767	400-630A:260777-260779	630-800A:260789-260791	630-1250A:260801-260803