MAXGE
Intelligence beyond vision

Committed to becoming a world-class intelligent electric brand

SIGMA+ DIN rail Modular Devices

ISO9001 ISO14001 OHSAS18001

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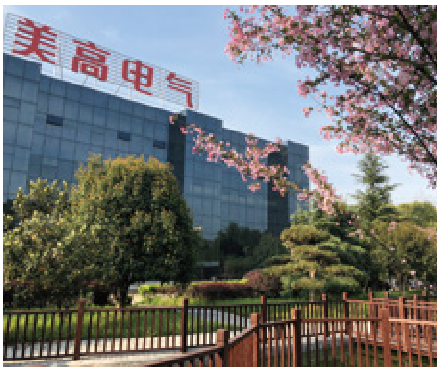
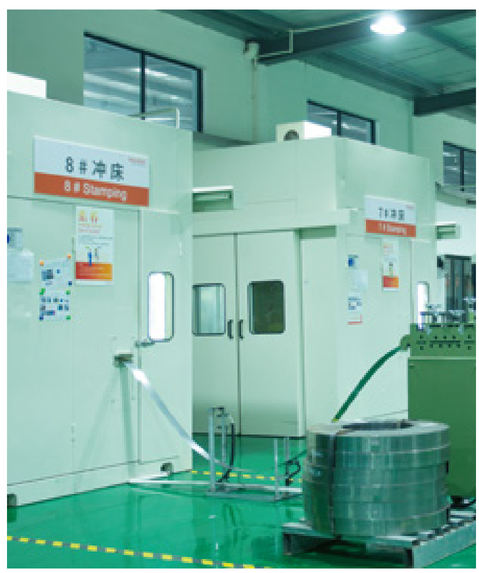
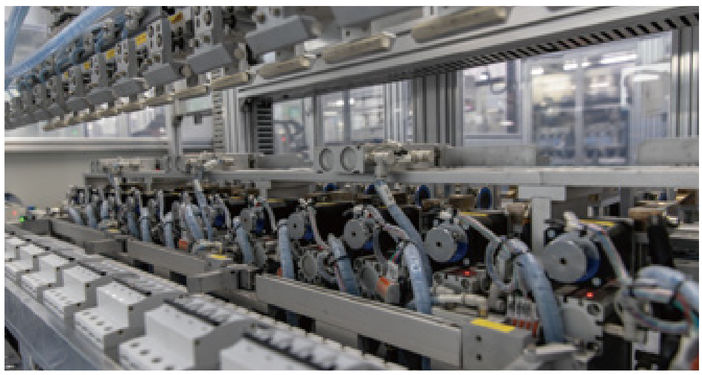


ABOUT US

MAXGE Electric is one of the most specialized manufacturers and exporters for modular electric terminal devices for household and similar installations in China. The wide range products under manufacturing covers Miniature Circuit Breaker(MCB),Residual Current Circuit Breaker(RCCB),Residual Current Circuit Breakers With Overcurrent Protection (RCBO),Switch-disconnector,Distribution Box, Moulded Case Circuit Breaker(MCCB)， Air Circuit Breaker(ACB),AC Contactor,Magnetic Starter,Motor Protection Circuit Breaker,Thermal Relay and K.W.H meter etc. The company takes the reputation as one of the largest manufacturers of electro-magnetic type RCCB and RCBO.OEM or ODM projects are fully accepted, currently the company is co-operating with a number of renowend international corporations for such projects.

R&D CENTER AUTOMATIC PRODUCTION LINE





MAXGE Electric possesses full line of high-tech production equipment and great strength of technology support besides advanced designation forces powered by the first class engineering teams with super industrial computer systems.Thus, our products are novel in design, excellent in workmanship and top reliable in quality.

Experience in manufacturing under customer’ s design,trade,building project, OEM and competitive cooperation related to the new products & technology. Won approvals of CE, SEMKO, KEMA, VDE, FI, CCC, ASTA, INMETRO and ISO9001 Quality System Certificate etc.Products are popular around the world, such as Europe, America, Southeast Asia, Middle East, Africa, etc.

R&D CENTER AUTOMATIC PRODUCTION LINE

THE BRAND CULTURE OF MAXGE

BRAND INTERPRETATION

Chinese Name: Mei Gao
Mei: Pursue perfection
Gao: Ascend to virtue
English Name: MAXGE
MAX: Maximum
GE: Global Electric

CORPORATE VISION

Committed to becoming a world-class intelligent electric brand

CORPORATE MISSION

Smart Manufacturing
Smart Electric
Smart Life

CORPORATE VALUES

Pursue perfection
Ascend to virtue

BRAND SLOGANS

Survive on quality
Develop on innovation
Focus on customers

PRODUCT CONCEPT

Secure and Reliable
Energy saving and Environment protection
Technology innovation
Artificial intelligence

CORPORATE SPIRIT

Integrity
Focus
Pragmatism
Innovation

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Products Overview of Residual Current Protective Devices

Product name	RCCB				RCBO		
Product range	SGR		SGRi		SGBR-63M/H	SGBRi	SGBR-32M
Product picture							
Standard	IEC/EN 61008-1		IEC/EN 61008-1		IEC/EN 61009-1	IEC/EN 61009-1	IEC/EN 61009-1
Number of poles	2 (1P+N)	4 (3P+N)	2 (1P+N)	4 (3P+N)	2 (1P+N)	1P+N	1P+N
Electrical characteristics							
Rated current(A) In	16~80		25~125		6~63	6~40	6~32
Rated voltage(V)	240VAC	415VAC	240VAC	415VAC	240VAC	240VAC	240VAC
Rated residual current(mA)	10,30,100,300		10,30,100,300		10,30,100,300	10,30,100,300	10,30,100,300
Breaking capacity(kA)	6,10		6,10		6,10	6,10	4.5 , 6
Overload protection function	Without		Without		With	With	With
Tripping curve	______		______		B,C	B,C	B,C
Residual current operating characteristic	AC,A		AC,A		AC,A	AC,A	AC,A
Residual current protection mode	Electro-magnetic		Electro-magnetic		Electronic/ Electro-magnetic	Electronic	Electronic
Catalogue page No	01-03		04-06		7-10	11-14	15-17

SGR Series
Residual Current Circuit Breaker

Technical data

Standard	EN / IEC61008-1
Rated conditional short-circuit current,Inc	6kA, 10kA
Protection	Ground fault
Rated current,In	16,20,25,32,40,50,63,80A
Number of poles	2(1+N),4(3+N)pole
Rated sensitivity currents,I△n	10,30,100,300mA
Rated residual non-operating current	0.5 X I△n
Rated impulse withstand voltage Uimp	4kV
Rated voltage 2pole	240VAC
4pole	415 VAC
Ambient temperature (°C)	-25~+40,Max. 95%humidity
Residual current off--time at I△n	⩽0.1s
Rated residual current making & breaking capacity, I△m	500A for In=16,25,32,40,50A 630A for In=63A 800A for In=80A
Type of trip	Electro-magnetic release
Type of terminal	Lug type and Pin type
Terminal capacity	Cables up to $25mm^2$
Protection degree	IP20
Installation	35mm DIN rail

SGR-2P

SGR-4P

SGR RCD

SGR-2P

SGR-4P

Rated current(A)	I△n	Type AC	Type A	Packing unit
16		SGR/2/16/10	SGR/2/16/10-A	1
20	10mA	SGR/2/20/10	SGR/2/20/10-A	1
25		SGR/2/25/10	SGR/2/25/10-A	1
16		SGR/2/16/30	SGR/2/16/30-A	1
20		SGR/2/20/30	SGR/2/20/30-A	1
25		SGR/2/25/30	SGR/2/25/30-A	1
32		SGR/2/32/30	SGR/2/32/30-A	1
40	30mA	SGR/2/40/30	SGR/2/40/30-A	1
50		SGR/2/50/30	SGR/2/50/30-A	1
63		SGR/2/63/30	SGR/2/63/30-A	1
80		SGR/2/80/30	SGR/2/80/30-A	1
16		SGR/2/16/100	SGR/2/16/100-A	1
20		SGR/2/20/100	SGR/2/20/100-A	1
25		SGR/2/25/100	SGR/2/25/100-A	1
32		SGR/2/32/100	SGR/2/32/100-A	1
40	100mA	SGR/2/40/100	SGR/2/40/100-A	1
50		SGR/2/50/100	SGR/2/50/100-A	1
63		SGR/2/63/100	SGR/2/63/100-A	1
80		SGR/2/80/100	SGR/2/80/100-A	1
16		SGR/2/16/300	SGR/2/16/300-A	1
20		SGR/2/20/300	SGR/2/20/300-A	1
25		SGR/2/25/300	SGR/2/25/300-A	1
32	300mA	SGR/2/32/300	SGR/2/32/300-A	1
40		SGR/2/40/300	SGR/2/40/300-A	1
50		SGR/2/50/300	SGR/2/50/300-A	1
63		SGR/2/63/300	SGR/2/63/300-A	1
80		SGR/2/80/300	SGR/2/80/300-A	1
16		SGR/4/16/10	SGR/4/16/10-A	1
20	10mA	SGR/4/20/10	SGR/4/20/10-A	1
25		SGR/4/25/10	SGR/4/25/10-A	1
16		SGR/4/16/30	SGR/4/16/30-A	1
20		SGR/4/20/30	SGR/4/20/30-A	1
25		SGR/4/25/30	SGR/4/25/30-A	1
32		SGR/4/32/30	SGR/4/32/30-A	1
40	30mA	SGR/4/40/30	SGR/4/40/30-A	1
50		SGR/4/50/30	SGR/4/50/30-A	1
63		SGR/4/63/30	SGR/4/63/30-A	1
80		SGR/4/80/30	SGR/4/80/30-A	1
16		SGR/4/16/100	SGR/4/16/100-A	1
20		SGR/4/20/100	SGR/4/20/100-A	1
25		SGR/4/25/100	SGR/4/25/100-A	1
32		SGR/4/32/100	SGR/4/32/100-A	1
40	100mA	SGR/4/40/100	SGR/4/40/100-A	1
50		SGR/4/50/100	SGR/4/50/100-A	1
63		SGR/4/63/100	SGR/4/63/100-A	1
80		SGR/4/80/100	SGR/4/80/100-A	1
16		SGR/4/16/300	SGR/4/16/300-A	1
20		SGR/4/20/300	SGR/4/20/300-A	1
25		SGR/4/25/300	SGR/4/25/300-A	1
32		SGR/4/32/300	SGR/4/32/300-A	1
40	300mA	SGR/4/40/300	SGR/4/40/300-A	1
50		SGR/4/50/300	SGR/4/50/300-A	1
63		SGR/4/63/300	SGR/4/63/300-A	1
80		SGR/4/80/300	SGR/4/80/300-A	1

1. Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
16,20,25,32	2000	2000	240
40,50,63,80	2000	1000	120

2. Breaking time of residual current

Max.breaking time					
In(A)	IΔn(A)	IΔn	2IΔn	5IΔn	5A,10A,20A,50A,100A,200A,500A
16,20,25,32, 40,50,63,80	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

3. Wiring The suitable conductors should be used for connection,see table below for relative parameters.

Rated current In (A)	Cross section area s (mm^2)	Tightening torque (N.m)
16	2.5	2.5
20	2.5	2.5
25	4	2.5
32	6	2.5
40	10	2.5
50	16	2.5
63	16	2.5
80	25	2.5

4. Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 61008-1 standards were considered. Important features are:

Up to date design

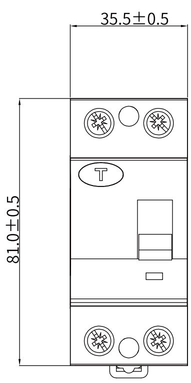
User-friendly connection of conductors and busbars

Resistance to current surges; unwanted tripping excluded

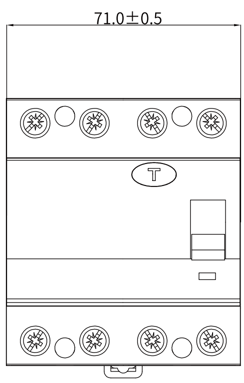
Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715

Additional colour display of main contacts position (red:contacts closed, green:contacts open)

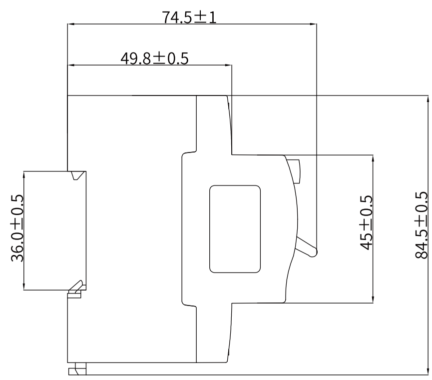
5. Overall and mounting dimensions



SGR-2P



SGR-4P



SGRi Series
Residual Current Circuit Breaker

Technical data

Standard	EN/ IEC61008-1
Rated conditional short-circuit current, Inc	6kA, 10kA
Protection	Ground fault
Rated current, In	25,32,40,63,80, 100,125 A
Number of poles	2(1+N),4(3+N)pole
Rated sensitivity currents, I△n	10,30, 100,300mA
Rated residual non-operating current	0.5 X I△n
Rated impulse withstand voltage Uimp	4kV
Rated voltages 2pole	240 VAC
4pole	415 VAC
Ambient temperature (℃)	-25~+40,Max. 95%humidity
Residual current off-time at I△n	⩽0.1s
Rated residual current making & breaking capacity, I△m	500A for In=16,25,32,40A 630A for In=63A 800A for In=80A 1000A for In=100A
Type of trip	Electro-magnetic release
Type of terminal	Lug type and Pin type
Terminal capacity	Cables up to 35mm^2
Protection degree	IP20
Installation	35mm DIN rail

Intertek CE CB

SGRi-2P

SGRi-4P

SGRi RCD

SGRi-2P

SGRi-4P

Rated current(A)	$I_{\Delta}n$	Type AC	Type A	Packing unit
25	10mA	SGRi-2/25/10	SGRi-2/25/10-A	1
25	30mA	SGRi-2/25/30	SGRi-2/25/30-A	1
32		SGRi-2/32/30	SGRi-2/32/30-A	1
40		SGRi-2/40/30	SGRi-2/40/30-A	1
63		SGRi-2/63/30	SGRi-2/63/30-A	1
80		SGRi-2/80/30	SGRi-2/80/30-A	1
100		SGRi-2/100/30	SGRi-2/100/30-A	1
125		SGRi-2/125/30	SGRi-2/125/30-A	1
25	100mA	SGRi-2/25/100	SGRi-2/25/100-A	1
32		SGRi-2/32/100	SGRi-2/32/100-A	1
40		SGRi-2/40/100	SGRi-2/40/100-A	1
63		SGRi-2/63/100	SGRi-2/63/100-A	1
80		SGRi-2/80/100	SGRi-2/80/100-A	1
100		SGRi-2/100/100	SGRi-2/100/100-A	1
125		SGRi-2/125/100	SGRi-2/125/100-A	1
25	300mA	SGRi-2/25/300	SGRi-2/25/300-A	1
32		SGRi-2/32/300	SGRi-2/32/300-A	1
40		SGRi-2/40/300	SGRi-2/40/300-A	1
63		SGRi-2/63/300	SGRi-2/63/300-A	1
80		SGRi-2/80/300	SGRi-2/80/300-A	1
100		SGRi-2/100/300	SGRi-2/100/300-A	1
125		SGRi-2/125/300	SGRi-2/125/300-A	1
25	10mA	SGRi-4/25/10	SGRi-4/25/10-A	1
25	30mA	SGRi-4/25/30	SGRi-4/25/30-A	1
32		SGRi-4/32/30	SGRi-4/32/30-A	1
40		SGRi-4/40/30	SGRi-4/40/30-A	1
63		SGRi-4/63/30	SGRi-4/63/30-A	1
80		SGRi-4/80/30	SGRi-4/80/30-A	1
100		SGRi-4/100/30	SGRi-4/100/30-A	1
125		SGRi-4/125/30	SGRi-4/125/30-A	1
25	100mA	SGRi-4/25/100	SGRi-4/25/100-A	1
32		SGRi-4/32/100	SGRi-4/32/100-A	1
40		SGRi-4/40/100	SGRi-4/40/100-A	1
63		SGRi-4/63/100	SGRi-4/63/100-A	1
80		SGRi-4/80/100	SGRi-4/80/100-A	1
100		SGRi-4/100/100	SGRi-4/100/100-A	1
125		SGRi-4/125/100	SGRi-4/125/100-A	1
25	300mA	SGRi-4/25/300	SGRi-4/25/300-A	1
32		SGRi-4/32/300	SGRi-4/32/300-A	1
40		SGRi-4/40/300	SGRi-4/40/300-A	1
63		SGRi-4/63/300	SGRi-4/63/300-A	1
80		SGRi-4/80/300	SGRi-4/80/300-A	1
100		SGRi-4/100/300	SGRi-4/100/300-A	1
125		SGRi-4/125/300	SGRi-4/125/300-A	1

1. Life

In	Operating cycles		Operating frequency (operations/h)
	On-load operating cycles	Off-load operating cycles	
25,32	2000	2000	240
40,63,80,100,125	2000	1000	120

2. Breaking time of residual current

Max.breaking time					
In(A)	$I_{\Delta n}$(A)	$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	5A,10A,20A,50A,100A,200A,500A
25,32,40,63,80,100,125	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

3. Wiring

The suitable conductors should be used for connection,see table below for relative parameters.

Rated current In (A)	Cross section area s (mm^2)	Tightening torque (N.m)
25	4	2.5
32	6	2.5
40	10	2.5
63	16	2.5
80	25	2.5
100	35	2.5
125	35	2.5

4. Features

When designing residual current devices, manufacturing technology and type of routine tests, the IEC / EN 61008-1 standards were considered. Important features are:

Up to date design

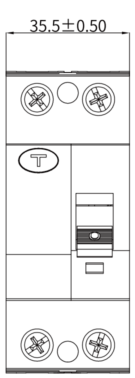
User-friendly connection of conductors and busbars

Resistance to current surges; unwanted tripping excluded

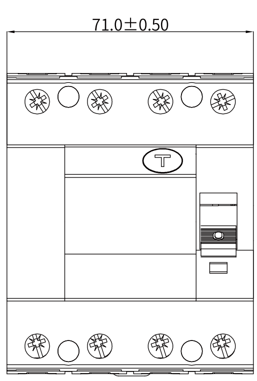
Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715

Additional colour display of main contacts position (red:contacts closed, green:contacts open)

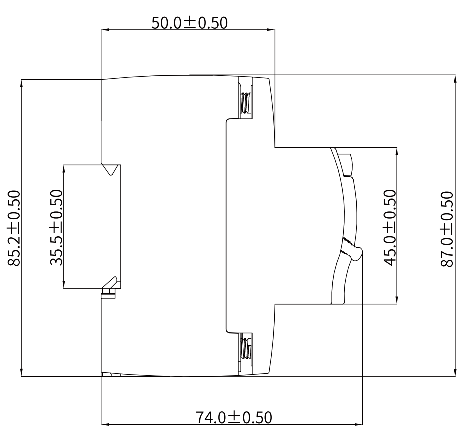
5. Overall and mounting dimensions



SGRi-2P



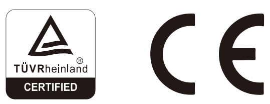
SGRi-4P



SGBR-63M/H Series
(Electronic/Electro-magnetic)
Residual Current Operated Circuit Breaker(RCBO)

Technical data

Standard		EN/IEC61009-1
Breaking capacity		6kA ,10kA
Protection		Ground fault, overcurrent and short circuit
Rated current,In		6,10,13, 16,20,25,32,40A,50A,63A
Operating,I△n		10,30,100,300mA
Characteristic		B,C Curve
Rated residual current operated making & breaking capacity I△m		500A
Rated residual non-operated current I△n		0.5I△n
Rated impulse withstand voltage Uimp		4kV
Number of poles		1P+N
Rated voltages 2pole		240VAC
Ambient temperature (℃)		-25~+40,Max. 95%humidity
Residual current off-time		⩽0.1 sec
Type of trip	**Ground fault**	Electronic/Electro-magnetic
	Over current	Thermal-magnetic
Protection degree		IP20
Terminal capacity		$10mm^2$ flexible/$16mm^2$ rigid
Installation		35mm DIN rail
Width		2 modules
Type of terminal		Lug type and Pin type



SGBR-63M

SGBR-63H

SGBR-63M-RCBO

Type AC

Type A

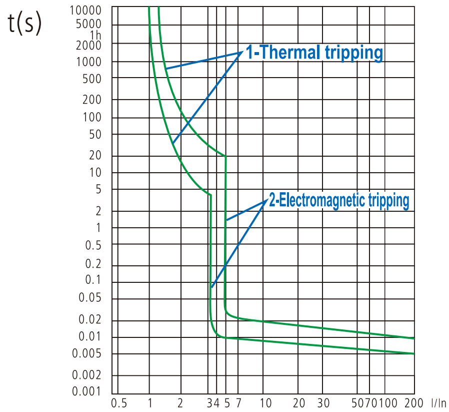
Rated current(A)	$I_{\Delta n}$	Type AC B curve	Type AC C curve	Type A B curve	Type A C curve	Packing unit
6		SGBR-63M-B6/10	SGBR-63M-C6/10	SGBR-63M-B6/10-A	SGBR-63M-C6/10-A	1
10		SGBR-63M-B10/10	SGBR-63M-C10/10	SGBR-63M-B10/10-A	SGBR-63M-C10/10-A	1
13		SGBR-63M-B13/10	SGBR-63M-C13/10	SGBR-63M-B13/10-A	SGBR-63M-C13/10-A	1
16		SGBR-63M-B16/10	SGBR-63M-C16/10	SGBR-63M-B16/10-A	SGBR-63M-C16/10-A	1
20	10mA	SGBR-63M-B20/10	SGBR-63M-C20/10	SGBR-63M-B20/10-A	SGBR-63M-C20/10-A	1
25		SGBR-63M-B25/10	SGBR-63M-C25/10	SGBR-63M-B25/10-A	SGBR-63M-C25/10-A	1
32		SGBR-63M-B32/10	SGBR-63M-C32/10	SGBR-63M-B32/10-A	SGBR-63M-C32/10-A	1
40		SGBR-63M-B40/10	SGBR-63M-C40/10	SGBR-63M-B40/10-A	SGBR-63M-C40/10-A	1
50		SGBR-63M-B50/10	SGBR-63M-C50/10	SGBR-63M-B50/10-A	SGBR-63M-C50/10-A	1
63		SGBR-63M-B63/10	SGBR-63M-C63/10	SGBR-63M-B63/10-A	SGBR-63M-C63/10-A	1
6		SGBR-63M-B6/30	SGBR-63M-C6/30	SGBR-63M-B6/30-A	SGBR-63M-C6/30-A	1
10		SGBR-63M-B10/30	SGBR-63M-C10/30	SGBR-63M-B10/30-A	SGBR-63M-C10/30-A	1
13		SGBR-63M-B13/30	SGBR-63M-C13/30	SGBR-63M-B13/30-A	SGBR-63M-C13/30-A	1
16		SGBR-63M-B16/30	SGBR-63M-C16/30	SGBR-63M-B16/30-A	SGBR-63M-C16/30-A	1
20	30mA	SGBR-63M-B20/30	SGBR-63M-C20/30	SGBR-63M-B20/30-A	SGBR-63M-C20/30-A	1
25		SGBR-63M-B25/30	SGBR-63M-C25/30	SGBR-63M-B25/30-A	SGBR-63M-C25/30-A	1
32		SGBR-63M-B32/30	SGBR-63M-C32/30	SGBR-63M-B32/30-A	SGBR-63M-C32/30-A	1
40		SGBR-63M-B40/30	SGBR-63M-C40/30	SGBR-63M-B40/30-A	SGBR-63M-C40/30-A	1
50		SGBR-63M-B50/30	SGBR-63M-C50/30	SGBR-63M-B50/30-A	SGBR-63M-C50/30-A	1
63		SGBR-63M-B63/30	SGBR-63M-C63/30	SGBR-63M-B63/30-A	SGBR-63M-C63/30-A	1
6		SGBR-63M-B6/100	SGBR-63M-C6/100	SGBR-63M-B6/100-A	SGBR-63M-C6/100-A	1
10		SGBR-63M-B10/100	SGBR-63M-C10/100	SGBR-63M-B10/100-A	SGBR-63M-C10/100-A	1
13		SGBR-63M-B13/100	SGBR-63M-C13/100	SGBR-63M-B13/100-A	SGBR-63M-C13/100-A	1
16		SGBR-63M-B16/100	SGBR-63M-C16/100	SGBR-63M-B16/100-A	SGBR-63M-C16/100-A	1
20	100mA	SGBR-63M-B20/100	SGBR-63M-C20/100	SGBR-63M-B20/100-A	SGBR-63M-C20/100-A	1
25		SGBR-63M-B25/100	SGBR-63M-C25/100	SGBR-63M-B25/100-A	SGBR-63M-C25/100-A	1
32		SGBR-63M-B32/100	SGBR-63M-C32/100	SGBR-63M-B32/100-A	SGBR-63M-C32/100-A	1
40		SGBR-63M-B40/100	SGBR-63M-C40/100	SGBR-63M-B40/100-A	SGBR-63M-C40/100-A	1
50		SGBR-63M-B50/100	SGBR-63M-C50/100	SGBR-63M-B50/100-A	SGBR-63M-C50/100-A	1
63		SGBR-63M-B63/100	SGBR-63M-C63/100	SGBR-63M-B63/100-A	SGBR-63M-C63/100-A	1
6		SGBR-63M-B6/300	SGBR-63M-C6/300	SGBR-63M-B6/300-A	SGBR-63M-C6/300-A	1
10		SGBR-63M-B10/300	SGBR-63M-C10/300	SGBR-63M-B10/300-A	SGBR-63M-C10/300-A	1
13		SGBR-63M-B13/300	SGBR-63M-C13/300	SGBR-63M-B13/300-A	SGBR-63M-C13/300-A	1
16		SGBR-63M-B16/300	SGBR-63M-C16/300	SGBR-63M-B16/300-A	SGBR-63M-C16/300-A	1
20		SGBR-63M-B20/300	SGBR-63M-C20/300	SGBR-63M-B20/300-A	SGBR-63M-C20/300-A	1
25	300mA	SGBR-63M-B25/300	SGBR-63M-C25/300	SGBR-63M-B25/300-A	SGBR-63M-C25/300-A	1
32		SGBR-63M-B32/300	SGBR-63M-C32/300	SGBR-63M-B32/300-A	SGBR-63M-C32/300-A	1
40		SGBR-63M-B40/300	SGBR-63M-C40/300	SGBR-63M-B40/300-A	SGBR-63M-C40/300-A	1
50		SGBR-63M-B50/300	SGBR-63M-C50/300	SGBR-63M-B50/300-A	SGBR-63M-C50/300-A	1
63		SGBR-63M-B63/300	SGBR-63M-C63/300	SGBR-63M-B63/300-A	SGBR-63M-C63/300-A	1

Type AC

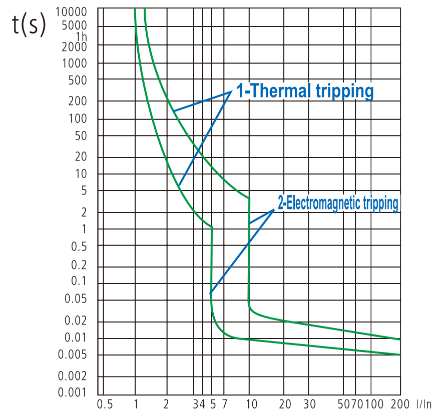
Type A

SGBR-63H-RCBO Rated current(A)	I△n	Type AC B curve	Type AC C curve	Type A B curve	Type A C curve	Packing unit
6	10mA	SGBR-63H-B6/10	SGBR-63H-C6/10	SGBR-63H-B6/10-A	SGBR-63H-C6/10-A	1
10		SGBR-63H-B10/10	SGBR-63H-C10/10	SGBR-63H-B10/10-A	SGBR-63H-C10/10-A	1
13		SGBR-63H-B13/10	SGBR-63H-C13/10	SGBR-63H-B13/10-A	SGBR-63H-C13/10-A	1
16		SGBR-63H-B16/10	SGBR-63H-C16/10	SGBR-63H-B16/10-A	SGBR-63H-C16/10-A	1
20		SGBR-63H-B20/10	SGBR-63H-C20/10	SGBR-63H-B20/10-A	SGBR-63H-C20/10-A	1
25		SGBR-63H-B25/10	SGBR-63H-C25/10	SGBR-63H-B25/10-A	SGBR-63H-C25/10-A	1
32		SGBR-63H-B32/10	SGBR-63H-C32/10	SGBR-63H-B32/10-A	SGBR-63H-C32/10-A	1
40		SGBR-63H-B40/10	SGBR-63H-C40/10	SGBR-63H-B40/10-A	SGBR-63H-C40/10-A	1
50		SGBR-63H-B50/10	SGBR-63H-C50/10	SGBR-63H-B50/10-A	SGBR-63H-C50/10-A	1
63		SGBR-63H-B63/10	SGBR-63H-C63/10	SGBR-63H-B63/10-A	SGBR-63H-C63/10-A	1
6	30mA	SGBR-63H-B6/30	SGBR-63H-C6/30	SGBR-63H-B6/30-A	SGBR-63H-C6/30-A	1
10		SGBR-63H-B10/30	SGBR-63H-C10/30	SGBR-63H-B10/30-A	SGBR-63H-C10/30-A	1
13		SGBR-63H-B13/30	SGBR-63H-C13/30	SGBR-63H-B13/30-A	SGBR-63H-C13/30-A	1
16		SGBR-63H-B16/30	SGBR-63H-C16/30	SGBR-63H-B16/30-A	SGBR-63H-C16/30-A	1
20		SGBR-63H-B20/30	SGBR-63H-C20/30	SGBR-63H-B20/30-A	SGBR-63H-C20/30-A	1
25		SGBR-63H-B25/30	SGBR-63H-C25/30	SGBR-63H-B25/30-A	SGBR-63H-C25/30-A	1
32		SGBR-63H-B32/30	SGBR-63H-C32/30	SGBR-63H-B32/30-A	SGBR-63H-C32/30-A	1
40		SGBR-63H-B40/30	SGBR-63H-C40/30	SGBR-63H-B40/30-A	SGBR-63H-C40/30-A	1
50		SGBR-63H-B50/30	SGBR-63H-C50/30	SGBR-63H-B50/30-A	SGBR-63H-C50/30-A	1
63		SGBR-63H-B63/30	SGBR-63H-C63/30	SGBR-63H-B63/30-A	SGBR-63H-C63/30-A	1
6	100mA	SGBR-63H-B6/100	SGBR-63H-C6/100	SGBR-63H-B6/100-A	SGBR-63H-C6/100-A	1
10		SGBR-63H-B10/100	SGBR-63H-C10/100	SGBR-63H-B10/100-A	SGBR-63H-C10/100-A	1
13		SGBR-63H-B13/100	SGBR-63H-C13/100	SGBR-63H-B13/100-A	SGBR-63H-C13/100-A	1
16		SGBR-63H-B16/100	SGBR-63H-C16/100	SGBR-63H-B16/100-A	SGBR-63H-C16/100-A	1
20		SGBR-63H-B20/100	SGBR-63H-C20/100	SGBR-63H-B20/100-A	SGBR-63H-C20/100-A	1
25		SGBR-63H-B25/100	SGBR-63H-C25/100	SGBR-63H-B25/100-A	SGBR-63H-C25/100-A	1
32		SGBR-63H-B32/100	SGBR-63H-C32/100	SGBR-63H-B32/100-A	SGBR-63H-C32/100-A	1
40		SGBR-63H-B40/100	SGBR-63H-C40/100	SGBR-63H-B40/100-A	SGBR-63H-C40/100-A	1
50		SGBR-63H-B50/100	SGBR-63H-C50/100	SGBR-63H-B50/100-A	SGBR-63H-C50/100-A	1
63		SGBR-63H-B63/100	SGBR-63H-C63/100	SGBR-63H-B63/100-A	SGBR-63H-C63/100-A	1
6	300mA	SGBR-63H-B6/300	SGBR-63H-C6/300	SGBR-63H-B6/300-A	SGBR-63H-C6/300-A	1
10		SGBR-63H-B10/300	SGBR-63H-C10/300	SGBR-63H-B10/300-A	SGBR-63H-C10/300-A	1
13		SGBR-63H-B13/300	SGBR-63H-C13/300	SGBR-63H-B13/300-A	SGBR-63H-C13/300-A	1
16		SGBR-63H-B16/300	SGBR-63H-C16/300	SGBR-63H-B16/300-A	SGBR-63H-C16/300-A	1
20		SGBR-63H-B20/300	SGBR-63H-C20/300	SGBR-63H-B20/300-A	SGBR-63H-C20/300-A	1
25		SGBR-63H-B25/300	SGBR-63H-C25/300	SGBR-63H-B25/300-A	SGBR-63H-C25/300-A	1
32		SGBR-63H-B32/300	SGBR-63H-C32/300	SGBR-63H-B32/300-A	SGBR-63H-C32/300-A	1
40		SGBR-63H-B40/300	SGBR-63H-C40/300	SGBR-63H-B40/300-A	SGBR-63H-C40/300-A	1
50		SGBR-63H-B50/300	SGBR-63H-C50/300	SGBR-63H-B50/300-A	SGBR-63H-C50/300-A	1
63		SGBR-63H-B63/300	SGBR-63H-C63/300	SGBR-63H-B63/300-A	SGBR-63H-C63/300-A	1

1. Curves



B type



C type

2. Wiring

The suitable conductors should be used for connection,see table below for relative parameters.

Rated current In (A)	Cross section area s (mm^2)	Tightening torque (N.m)
6	1	2
10	1.5	2
13	1.5	2
16-20	2.5	2
25	4	2
32	6	2
40	10	2
63	16	2

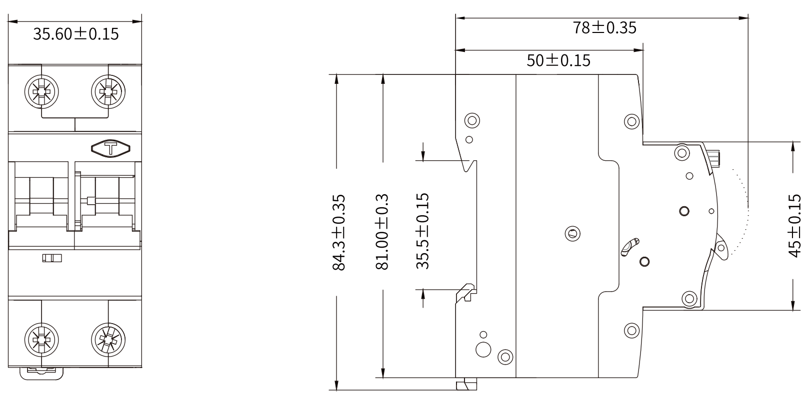
3. Types

Both RCCBs and RCBOs are devided into types depending on the operating function:
Type AC: For which tripping is ensured for residual sinusoidal alternating currents, whether suddenly applied or slowly rising.
Type A : For which tripping is ensued for residual sinusoidal alternating currents and residual pulsating direct currents, whether suddenly applied or slowly rising.

4. Tripping sensitivity data

RCD with a rated residual current of maximum 30mA are used for personnel,material and fire protection, as well as for protection against direct contact.
RCD with a rated residual current of maximum 300mA are used as preventative fire protection in case of insulation faults.
RCD with a rated residual current of 100mA co-ordinated with the earth system according to the formula $I_{\triangle n}$<50/R, to provide protection again indirect contacts.

5. Overall and mounting dimensions



SGBR-63M/H

SGBRi Series (Electronic)
Residual Current Operated Circuit Breaker(RCBO)

Technical data

Standard	EN/ IEC61009-1
Breaking Capacity	6kA,10kA
Number of poles	1 P+N(1 module)
Rated current,In	6, 10, 13, 16, 20, 25, 32, 40A
Rated voltage	240VAC
Rated Tripping Current	10,30,100,300mA
Residual current off time	⩽0.1s
Characteristic	B,C Curve
Electrical endurance	4000
Mechanical endurance	10000
Ambient temperature (℃)	-25~+40, Max. 95%humidity
Connection terminal	Flexible conductor 16mm^2 Rigid conductor 25mm^2
Type of terminal	Lug type and Pin type
Width	17.8mm

Intertek CE CB

SGBRi-6K

SGBRi-10K

SGBRi-6K RCBO

Type AC

Type A

Rated current(A)	I△n	Type AC B curve	Type AC C curve	Type A B curve	Type A C curve	Packing unit
6		SGBRi-6K/B6/10	SGBRi-6K/C6/10	SGBRi-6K/B6/10-A	SGBRi-6K/C6/10-A	5
10		SGBRi-6K/B10/10	SGBRi-6K/C10/10	SGBRi-6K/B10/10-A	SGBRi-6K/C10/10-A	5
13		SGBRi-6K/B13/10	SGBRi-6K/C13/10	SGBRi-6K/B13/10-A	SGBRi-6K/C13/10-A	5
16		SGBRi-6K/B16/10	SGBRi-6K/C16/10	SGBRi-6K/B16/10-A	SGBRi-6K/C16/10-A	5
20	10mA	SGBRi-6K/B20/10	SGBRi-6K/C20/10	SGBRi-6K/B20/10-A	SGBRi-6K/C20/10-A	5
25		SGBRi-6K/B25/10	SGBRi-6K/C25/10	SGBRi-6K/B25/10-A	SGBRi-6K/C25/10-A	5
32		SGBRi-6K/B32/10	SGBRi-6K/C32/10	SGBRi-6K/B32/10-A	SGBRi-6K/C32/10-A	5
40		SGBRi-6K/B40/10	SGBRi-6K/C40/10	SGBRi-6K/B40/10-A	SGBRi-6K/C40/10-A	5
6		SGBRi-6K/B6/30	SGBRi-6K/C6/30	SGBRi-6K/B6/30-A	SGBRi-6K/C6/30-A	5
10		SGBRi-6K/B10/30	SGBRi-6K/C10/30	SGBRi-6K/B10/30-A	SGBRi-6K/C10/30-A	5
13		SGBRi-6K/B13/30	SGBRi-6K/C13/30	SGBRi-6K/B13/30-A	SGBRi-6K/C13/30-A	5
16		SGBRi-6K/B16/30	SGBRi-6K/C16/30	SGBRi-6K/B16/30-A	SGBRi-6K/C16/30-A	5
20	30mA	SGBRi-6K/B20/30	SGBRi-6K/C20/30	SGBRi-6K/B20/30-A	SGBRi-6K/C20/30-A	5
25		SGBRi-6K/B25/30	SGBRi-6K/C25/30	SGBRi-6K/B25/30-A	SGBRi-6K/C25/30-A	5
32		SGBRi-6K/B32/30	SGBRi-6K/C32/30	SGBRi-6K/B32/30-A	SGBRi-6K/C32/30-A	5
40		SGBRi-6K/B40/30	SGBRi-6K/C40/30	SGBRi-6K/B40/30-A	SGBRi-6K/C40/30-A	5
6		SGBRi-6K/B6/100	SGBRi-6K/C6/100	SGBRi-6K/B6/100-A	SGBRi-6K/C6/100-A	5
10		SGBRi-6K/B10/100	SGBRi-6K/C10/100	SGBRi-6K/B10/100-A	SGBRi-6K/C10/100-A	5
13		SGBRi-6K/B13/100	SGBRi-6K/C13/100	SGBRi-6K/B13/100-A	SGBRi-6K/C13/100-A	5
16		SGBRi-6K/B16/100	SGBRi-6K/C16/100	SGBRi-6K/B16/100-A	SGBRi-6K/C16/100-A	5
20	100mA	SGBRi-6K/B20/100	SGBRi-6K/C20/100	SGBRi-6K/B20/100-A	SGBRi-6K/C20/100-A	5
25		SGBRi-6K/B25/100	SGBRi-6K/C25/100	SGBRi-6K/B25/100-A	SGBRi-6K/C25/100-A	5
32		SGBRi-6K/B32/100	SGBRi-6K/C32/100	SGBRi-6K/B32/100-A	SGBRi-6K/C32/100-A	5
40		SGBRi-6K/B40/100	SGBRi-6K/C40/100	SGBRi-6K/B40/100-A	SGBRi-6K/C40/100-A	5
6		SGBRi-6K/B6/300	SGBRi-6K/C6/300	SGBRi-6K/B6/300-A	SGBRi-6K/C6/300-A	5
10		SGBRi-6K/B10/300	SGBRi-6K/C10/300	SGBRi-6K/B10/300-A	SGBRi-6K/C10/300-A	5
13		SGBRi-6K/B13/300	SGBRi-6K/C13/300	SGBRi-6K/B13/300-A	SGBRi-6K/C13/300-A	5
16		SGBRi-6K/B16/300	SGBRi-6K/C16/300	SGBRi-6K/B16/300-A	SGBRi-6K/C16/300-A	5
20	300mA	SGBRi-6K/B20/300	SGBRi-6K/C20/300	SGBRi-6K/B20/300-A	SGBRi-6K/C20/300-A	5
25		SGBRi-6K/B25/300	SGBRi-6K/C25/300	SGBRi-6K/B25/300-A	SGBRi-6K/C25/300-A	5
32		SGBRi-6K/B32/300	SGBRi-6K/C32/300	SGBRi-6K/B32/300-A	SGBRi-6K/C32/300-A	5
40		SGBRi-6K/B40/300	SGBRi-6K/C40/300	SGBRi-6K/B40/300-A	SGBRi-6K/C40/300-A	5

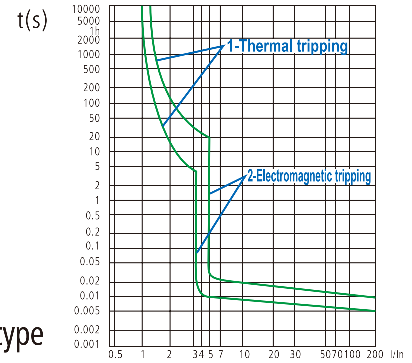
SGBRi-10K RCBO

Type AC

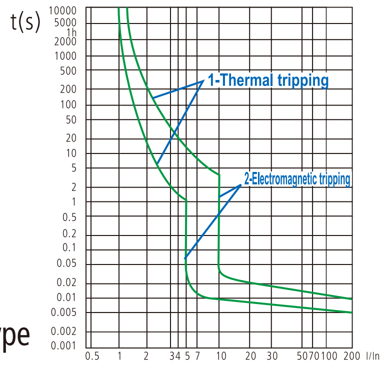
Type A

Rated current(A)	I$_{\Delta}$n	Type AC B curve	Type AC C curve	Type A B curve	Type A C curve	Packing unit
6		SGBRi-10K/B6/10	SGBRi-10K/C6/10	SGBRi-10K/B6/10-A	SGBRi-10K/C6/10-A	5
10		SGBRi-10K/B10/10	SGBRi-10K/C10/10	SGBRi-10K/B10/10-A	SGBRi-10K/C10/10-A	5
13		SGBRi-10K/B13/10	SGBRi-10K/C13/10	SGBRi-10K/B13/10-A	SGBRi-10K/C13/10-A	5
16		SGBRi-10K/B16/10	SGBRi-10K/C16/10	SGBRi-10K/B16/10-A	SGBRi-10K/C16/10-A	5
20	10mA	SGBRi-10K/B20/10	SGBRi-10K/C20/10	SGBRi-10K/B20/10-A	SGBRi-10K/C20/10-A	5
25		SGBRi-10K/B25/10	SGBRi-10K/C25/10	SGBRi-10K/B25/10-A	SGBRi-10K/C25/10-A	5
32		SGBRi-10K/B32/10	SGBRi-10K/C32/10	SGBRi-10K/B32/10-A	SGBRi-10K/C32/10-A	5
40		SGBRi-10K/B40/10	SGBRi-10K/C40/10	SGBRi-10K/B40/10-A	SGBRi-10K/C40/10-A	5
6		SGBRi-10K/B6/30	SGBRi-10K/C6/30	SGBRi-10K/B6/30-A	SGBRi-10K/C6/30-A	5
10		SGBRi-10K/B10/30	SGBRi-10K/C10/30	SGBRi-10K/B10/30-A	SGBRi-10K/C10/30-A	5
13		SGBRi-10K/B13/30	SGBRi-10K/C13/30	SGBRi-10K/B13/30-A	SGBRi-10K/C13/30-A	5
16		SGBRi-10K/B16/30	SGBRi-10K/C16/30	SGBRi-10K/B16/30-A	SGBRi-10K/C16/30-A	5
20	30mA	SGBRi-10K/B20/30	SGBRi-10K/C20/30	SGBRi-10K/B20/30-A	SGBRi-10K/C20/30-A	5
25		SGBRi-10K/B25/30	SGBRi-10K/C25/30	SGBRi-10K/B25/30-A	SGBRi-10K/C25/30-A	5
32		SGBRi-10K/B32/30	SGBRi-10K/C32/30	SGBRi-10K/B32/30-A	SGBRi-10K/C32/30-A	5
40		SGBRi-10K/B40/30	SGBRi-10K/C40/30	SGBRi-10K/B40/30-A	SGBRi-10K/C40/30-A	5
6		SGBRi-10K/B6/100	SGBRi-10K/C6/100	SGBRi-10K/B6/100-A	SGBRi-10K/C6/100-A	5
10		SGBRi-10K/B10/100	SGBRi-10K/C10/100	SGBRi-10K/B10/100-A	SGBRi-10K/C10/100-A	5
13		SGBRi-10K/B13/100	SGBRi-10K/C13/100	SGBRi-10K/B13/100-A	SGBRi-10K/C13/100-A	5
16		SGBRi-10K/B16/100	SGBRi-10K/C16/100	SGBRi-10K/B16/100-A	SGBRi-10K/C16/100-A	5
20	100mA	SGBRi-10K/B20/100	SGBRi-10K/C20/100	SGBRi-10K/B20/100-A	SGBRi-10K/C20/100-A	5
25		SGBRi-10K/B25/100	SGBRi-10K/C25/100	SGBRi-10K/B25/100-A	SGBRi-10K/C25/100-A	5
32		SGBRi-10K/B32/100	SGBRi-10K/C32/100	SGBRi-10K/B32/100-A	SGBRi-10K/C32/100-A	5
40		SGBRi-10K/B40/100	SGBRi-10K/C40/100	SGBRi-10K/B40/100-A	SGBRi-10K/C40/100-A	5
6		SGBRi-10K/B6/300	SGBRi-10K/C6/300	SGBRi-10K/B6/300-A	SGBRi-10K/C6/300-A	5
10		SGBRi-10K/B10/300	SGBRi-10K/C10/300	SGBRi-10K/B10/300-A	SGBRi-10K/C10/300-A	5
13		SGBRi-10K/B13/300	SGBRi-10K/C13/300	SGBRi-10K/B13/300-A	SGBRi-10K/C13/300-A	5
16		SGBRi-10K/B16/300	SGBRi-10K/C16/300	SGBRi-10K/B16/300-A	SGBRi-10K/C16/300-A	5
20	300mA	SGBRi-10K/B20/300	SGBRi-10K/C20/300	SGBRi-10K/B20/300-A	SGBRi-10K/C20/300-A	5
25		SGBRi-10K/B25/300	SGBRi-10K/C25/300	SGBRi-10K/B25/300-A	SGBRi-10K/C25/300-A	5
32		SGBRi-10K/B32/300	SGBRi-10K/C32/300	SGBRi-10K/B32/300-A	SGBRi-10K/C32/300-A	5
40		SGBRi-10K/B40/300	SGBRi-10K/C40/300	SGBRi-10K/B40/300-A	SGBRi-10K/C40/300-A	5

1. Curves



B type



C type

2. Breaking time of residual current

In(A)	I△n(A)	Max.breaking time			
		I△n	2I△n	5I△n	5A,10A,20A,50A,100A,200A,500A
6-40	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

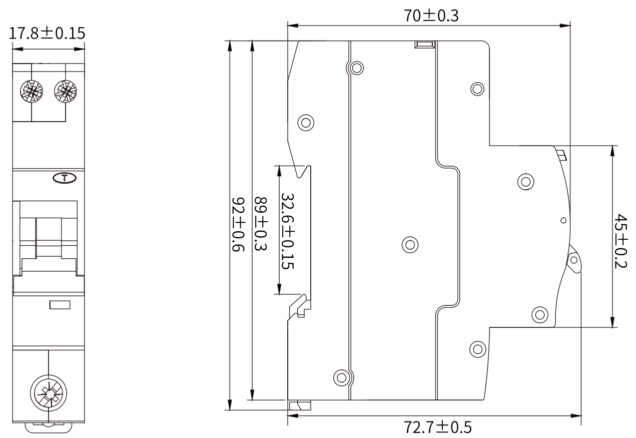
3. Wiring The suitable conductors should be used for connection,see table below for relative parameters.

Rated current In (A)	Cross section area s (mm^2)	Tightening torque (N.m)
6	1	2
10	1.5	2
16-20	2.5	2
25	4	2
32	6	2
40	10	2

4. Features

Switching and isolation function.
Protection against overload and short-circuit currents.
Protection against the effects of sinusoidal alternating earth fault currents.
Protection against indirect contacts and additional protection against direct contacts.
Protection against fire hazard caused by insulation faults.
Used in residential building and distribution boards.

5. Overall and mounting dimensions



SGBRi-6K/SGBRi-10K

SGBR-32M Series (Electronic)

Residual Current Operated Circuit Breaker(RCBO)

Technical data

Standard	EN/ IEC61009-1
Breaking Capacity	4.5kA,6kA
Number of poles	1 P+N(1 module)
Rated current,In	6,10,13,16,20,25,32A
Rated voltage	240VAC
Rated Tripping Current	10,30,100,300mA
Residual current off time	⩽0.1s
Characteristic	B,C Curve
Electrical endurance	4000
Mechanical endurance	10000
Ambient temperature (°C)	-25~+40, Max. 95%humidity
Connection terminal	Flexible conductor 16mm^2 Rigid conductor 25mm^2
Type of terminal	Lug type and Pin type
Width	17.8mm

Intertek

SGBR-32M

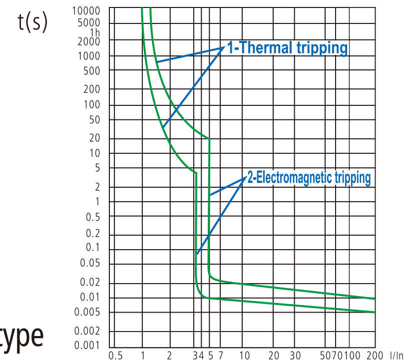
SGBR-32M-RCBO

Type AC

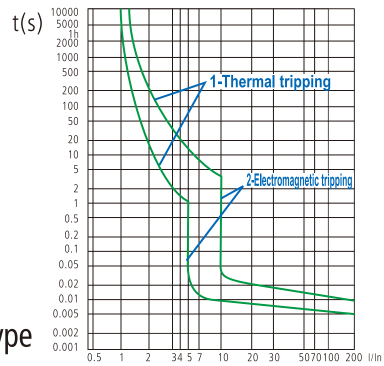
Type A

Rated current(A)	$I_{\Delta n}$	Type AC		Type A		Packing unit
		B curve	C curve	B curve	C curve	
6		SGBR-32M-B6/10	SGBR-32M-C6/10	SGBR-32M-B6/10-A	SGBR-32M-C6/10-A	1
10		SGBR-32M-B10/10	SGBR-32M-C10/10	SGBR-32M-B10/10-A	SGBR-32M-C10/10-A	1
13		SGBR-32M-B13/10	SGBR-32M-C13/10	SGBR-32M-B13/10-A	SGBR-32M-C13/10-A	1
16	10mA	SGBR-32M-B16/10	SGBR-32M-C16/10	SGBR-32M-B16/10-A	SGBR-32M-C16/10-A	1
20		SGBR-32M-B20/10	SGBR-32M-C20/10	SGBR-32M-B20/10-A	SGBR-32M-C20/10-A	1
25		SGBR-32M-B25/10	SGBR-32M-C25/10	SGBR-32M-B25/10-A	SGBR-32M-C25/10-A	1
32		SGBR-32M-B32/10	SGBR-32M-C32/10	SGBR-32M-B32/10-A	SGBR-32M-C32/10-A	1
6		SGBR-32M-B6/30	SGBR-32M-C6/30	SGBR-32M-B6/30-A	SGBR-32M-C6/30-A	1
10		SGBR-32M-B10/30	SGBR-32M-C10/30	SGBR-32M-B10/30-A	SGBR-32M-C10/30-A	1
13		SGBR-32M-B13/30	SGBR-32M-C13/30	SGBR-32M-B13/30-A	SGBR-32M-C13/30-A	1
16	30mA	SGBR-32M-B16/30	SGBR-32M-C16/30	SGBR-32M-B16/30-A	SGBR-32M-C16/30-A	1
20		SGBR-32M-B20/30	SGBR-32M-C20/30	SGBR-32M-B20/30-A	SGBR-32M-C20/30-A	1
25		SGBR-32M-B25/30	SGBR-32M-C25/30	SGBR-32M-B25/30-A	SGBR-32M-C25/30-A	1
32		SGBR-32M-B32/30	SGBR-32M-C32/30	SGBR-32M-B32/30-A	SGBR-32M-C32/30-A	1
6		SGBR-32M-B6/100	SGBR-32M-C6/100	SGBR-32M-B6/100-A	SGBR-32M-C6/100-A	1
10		SGBR-32M-B10/100	SGBR-32M-C10/100	SGBR-32M-B10/100-A	SGBR-32M-C10/100-A	1
13		SGBR-32M-B13/100	SGBR-32M-C13/100	SGBR-32M-B13/100-A	SGBR-32M-C13/100-A	1
16	100mA	SGBR-32M-B16/100	SGBR-32M-C16/100	SGBR-32M-B16/100-A	SGBR-32M-C16/100-A	1
20		SGBR-32M-B20/100	SGBR-32M-C20/100	SGBR-32M-B20/100-A	SGBR-32M-C20/100-A	1
25		SGBR-32M-B25/100	SGBR-32M-C25/100	SGBR-32M-B25/100-A	SGBR-32M-C25/100-A	1
32		SGBR-32M-B32/100	SGBR-32M-C32/100	SGBR-32M-B32/100-A	SGBR-32M-C32/100-A	1
6		SGBR-32M-B6/300	SGBR-32M-C6/300	SGBR-32M-B6/300-A	SGBR-32M-C6/300-A	1
10		SGBR-32M-B10/300	SGBR-32M-C10/300	SGBR-32M-B10/300-A	SGBR-32M-C10/300-A	1
13		SGBR-32M-B13/300	SGBR-32M-C13/300	SGBR-32M-B13/300-A	SGBR-32M-C13/300-A	1
16	300mA	SGBR-32M-B16/300	SGBR-32M-C16/300	SGBR-32M-B16/300-A	SGBR-32M-C16/300-A	1
20		SGBR-32M-B20/300	SGBR-32M-C20/300	SGBR-32M-B20/300-A	SGBR-32M-C20/300-A	1
25		SGBR-32M-B25/300	SGBR-32M-C25/300	SGBR-32M-B25/300-A	SGBR-32M-C25/300-A	1
32		SGBR-32M-B32/300	SGBR-32M-C32/300	SGBR-32M-B32/300-A	SGBR-32M-C32/300-A	1

1. Curves



B type



C type

2. Breaking time of residual current

In(A)	IΔn(A)	Max.breaking time			
		IΔn	2IΔn	5IΔn	5A,10A,20A,50A,100A,200A,500A
6-40	0.01,0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s

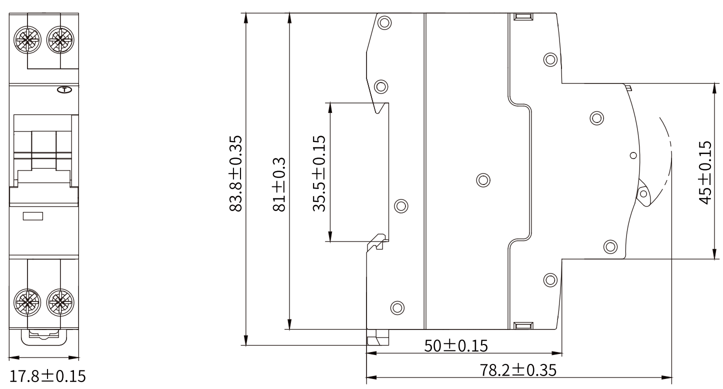
3. Wiring The suitable conductors should be used for connection,see table below for relative parameters.

Rated current In (A)	Cross section area s (mm²)	Tightening torque (N.m)
6	1	2
10	1.5	2
16-20	2.5	2
25	4	2
32	6	2
40	10	2

4. Features

Switching and isolation function.
Protection against overload and short-circuit currents.
Protection against the effects of sinusoidal alternating earth fault currents.
Protection against indirect contacts and additional protection against direct contacts.
Protection against fire hazard caused by insulation faults.
Used in residential building and distribution boards.

5. Overall and mounting dimensions



SGBR-32M

MAXGE

#AFDD

PREVENTS FIRES •

FITS IN NEW AND EXISTING INSTALLATIONS •

SWITCHED NEUTRAL •

4 IN 1 PROTECTION •

OVERLOAD

Test current: In: 6-32A
1.13 x ln No-trip
1.45 x ln Trip

SHORT CIRCUIT

B, C characteristic
B:(3-5) x ln
C:(5-10) x ln

ARC FAULT

Serial Arcing Fault
Parallel Arcing Fault

EARTH LEAKAGE

I △n: 30, 100,300mA
Type A & AC

AFDD Series
Arc Fault Detection Device

Technical data

Standard	IEC/BS EN 62606, IEC/BS EN 61009-1
Rated conditional short-circuit current,Inc	6kA
Protection	Overload,Short circuit, Ground fault,Arc fault
Rated current,In	6,10,16,20,25,32A
Number of poles	1P+N(1 Module)
Rated sensitivity currents,I△n	30,100,300mA
Characteristic	B,C Curve
Rated residual non-operating current	0.5 X I△n
Rated impulse withstand voltage Uimp	4000V
Rated voltage 2pole	240VAC
Ambient temperature (°C)	-25~+40,Max. 95%humidity
Residual current off--time at I△n	⩽0.1s
Type of trip	Electronic release
Type of terminal	Lug type and Pin type
Terminal capacity	Cables up to 25mm^2
Protection degree	IP20
Mechanical Endvrance	10000
Electricac Endvrance	1200
Installation	35mm DIN rail
Application	Consumer Unit

Intertek CE CB

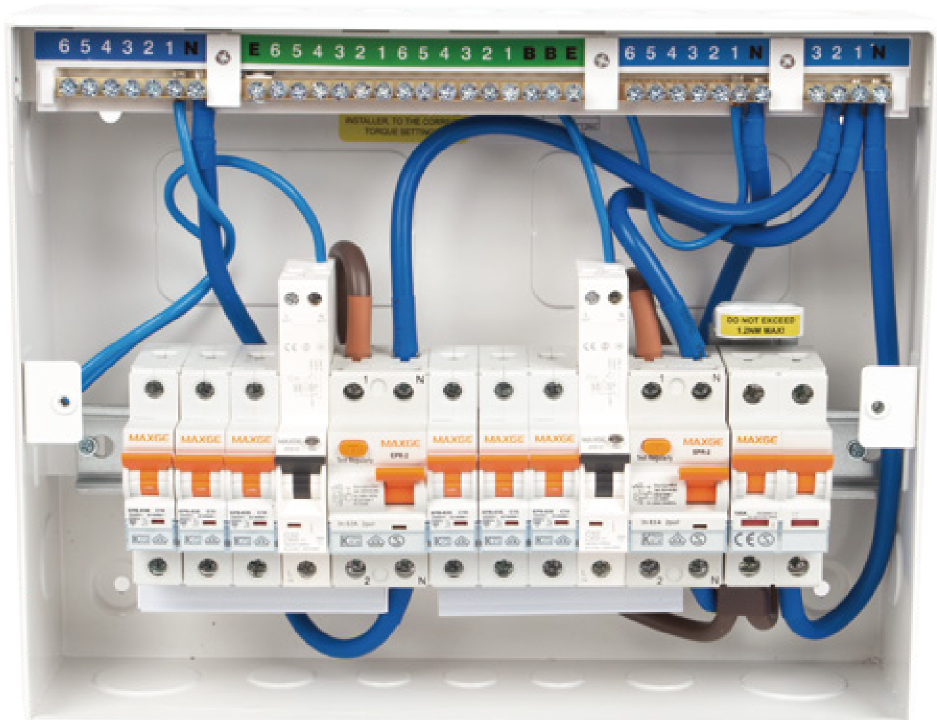
AFDD

Type AC

Type A

Rated current(A)	$I_{\Delta n}$	Type AC		Type A		Packing unit
		B curve	C curve	B curve	C curve	
6	30mA	AFDD-6K/B6/30	AFDD-6K/C6/30	AFDD-6K/B6/30-A	AFDD-6K/C6/30-A	5
10		AFDD-6K/B10/30	AFDD-6K/C10/30	AFDD-6K/B10/30-A	AFDD-6K/C10/30-A	5
16		AFDD-6K/B16/30	AFDD-6K/C16/30	AFDD-6K/B16/30-A	AFDD-6K/C16/30-A	5
20		AFDD-6K/B20/30	AFDD-6K/C20/30	AFDD-6K/B20/30-A	AFDD-6K/C20/30-A	5
25		AFDD-6K/B25/30	AFDD-6K/C25/30	AFDD-6K/B25/30-A	AFDD-6K/C25/30-A	5
32		AFDD-6K/B32/30	AFDD-6K/C32/30	AFDD-6K/B32/30-A	AFDD-6K/C32/30-A	5
6	100mA	AFDD-6K/B6/100	AFDD-6K/C6/100	AFDD-6K/B6/100-A	AFDD-6K/C6/100-A	5
10		AFDD-6K/B10/100	AFDD-6K/C10/100	AFDD-6K/B10/100-A	AFDD-6K/C10/100-A	5
16		AFDD-6K/B16/100	AFDD-6K/C16/100	AFDD-6K/B16/100-A	AFDD-6K/C16/100-A	5
20		AFDD-6K/B20/100	AFDD-6K/C20/100	AFDD-6K/B20/100-A	AFDD-6K/C20/100-A	5
25		AFDD-6K/B25/100	AFDD-6K/C25/100	AFDD-6K/B25/100-A	AFDD-6K/C25/100-A	5
32		AFDD-6K/B32/100	AFDD-6K/C32/100	AFDD-6K/B32/100-A	AFDD-6K/C32/100-A	5
6	300mA	AFDD-6K/B6/300	AFDD-6K/C6/300	AFDD-6K/B6/300-A	AFDD-6K/C6/300-A	5
10		AFDD-6K/B10/300	AFDD-6K/C10/300	AFDD-6K/B10/300-A	AFDD-6K/C10/300-A	5
16		AFDD-6K/B16/300	AFDD-6K/C16/300	AFDD-6K/B16/300-A	AFDD-6K/C16/300-A	5
20		AFDD-6K/B20/300	AFDD-6K/C20/300	AFDD-6K/B20/300-A	AFDD-6K/C20/300-A	5
25		AFDD-6K/B25/300	AFDD-6K/C25/300	AFDD-6K/B25/300-A	AFDD-6K/C25/300-A	5
32		AFDD-6K/B32/300	AFDD-6K/C32/300	AFDD-6K/B32/300-A	AFDD-6K/C32/300-A	5

1. AFDD FOR THE CONSUMER UNIT

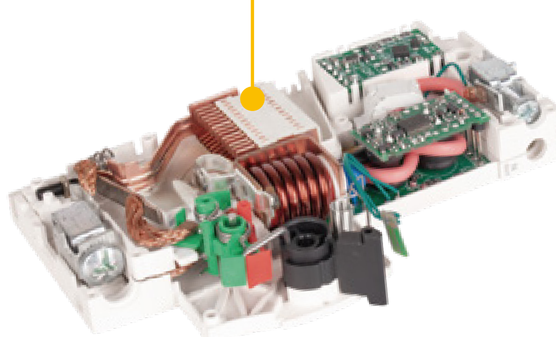


The 18th edition wiring regulations (BS7671) sets out requirements for electrical installations in the UK, including requirements for protection of persons, livestock & property against the risk from fires that may be generated & propagated in electrical installations.
Designers & installers are required to ensure that installations are arranged so that the risk of ignition from high temperatures or electric arc is minimised,Protection requirements include protecting against the risk of fire from insulation faults, arcs & sparks & high temperatures.
Installing arc fault detection devices is recommended in the 18th Edition as a method for mitigating the risk from fire in final AC circuits from arc faults.

2. Features & Benefits

Energy Limiting
Class 3

13 Plates Arc Chamber



- Quick & Efficient Arc Quenching
- Very low let through energy,class 3
- Increases life of Installation & equipment

MAXGE

Products Overview of Circuit Breakers

Product name	MCB				DC MCB
Product range	SGB-63S	SGB-63N	SGB-63L	SGB-63H	SGB-63M DC
Product picture					
Standard	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60898-1	IEC/EN 60947-2
Number of poles	1,2,3,4 (1P+N),(3P+N)				1,2,3,4
Electrical characteristics					
Rated current(A) In	1~63	1~63	1~63	1~63	1~63
Rated voltage(V)	230/400VAC	230/400VAC	230/400VAC	230/400VAC	250/500/750/1000VDC
AC rated short-circuit capacity(KA)					
IEC60898 standard(Icn)	3	4.5	6	10	–
IEC60947-2	–	–	–	–	6
Tripping curve	B,C,D	B,C,D	B,C,D	B,C,D	8 -12In
Type	AC	AC	AC	AC	DC
Electrical auxiliaries	Auxilary contact，Alarm contact，Shunt trip，Over/under voltage trip				
Catalogue page No.	21-26		27-33		34-37

Products Overview of Circuit Breakers

Product name	DPN MCB	HR MCB		ISOLATING SWITCH		MCB ACCESSORIES	
Product range	SG-DPN	SGB-125H		SGI-R		SGSL	SGSO
Product picture							
Standard	IEC/EN 60898-1	IEC/EN 60898-1 IEC/EN 60947-2		IEC/EN 60947-3		IEC/EN 60947-5-1	IEC/EN 61558-1
Number of poles	1P+N	1	2,3,4	1	2,3,4	1	1
Electrical characteristics							
Rated current(A) In	2~32	40~125		16~100		–	–
Rated voltage(V)	240VAC	240VAC	415VAC	240VAC	415VAC	230VAC	230VAC
AC rated short-circuit capacity(KA)							
Breaking Capacity(kA)	3 / 4.5 / 6	IEC60898-1 6	IEC60947-2 10	–		–	–
Tripping curve	B,C	B,C,D	8-12In	–		–	–
Type	AC	AC		AC		AC	AC
Electrical auxiliaries	Auxilary contact Alarm contact Shunt trip Over/under voltage trip			–		–	–
Catalogue page No.	38-40	41-43		44-46		53-54	55-56

SGB-63S/N Series
Miniature Circuit Breaker

Technical data

Standard		EN/ IEC60898-1
Breaking capacity		3kA,4.5kA
Protection		Against overload and short circuit
Rated current In		1,2,3,4,6, 10, 13, 16,20,25,32,40,50,63A
Rated voltage	**AC:**	1,2,3,4 Pole 230/400V Rated insulation voltage Ui: 500V Rated impulse withstand voltage Uimp: 4kV Energy limiting :class 1
Ambient temperature (℃)		-5~+40
Characteristic		Thermal operating limit: (1.13-1.45) x In Magnetic operating: B: (3-5) x In C: (5-10) x In D: (10-20) x In
Number of poles		1P, 1P+N,2P,3P,3P+N and 4P
Type of trip		Thermal / magnetic release
Type of terminal		Lug type and Pin type
Terminal capacity		$16mm^2$ flexible or $25mm^2$ rigid up to 25A ratings $25mm^2$ flexible or $35mm^2$ rigid from 32A to 63A ratings
Protection degree		IP20
Installation		Mounting on 35mm DIN rail
Width		17.8mm per pole

KEMA KEUR CE

SGB-63S-1P

SGB-63S-2P

SGB-63S-3P

SGB-63S-4P

SGB-63S MCB

SGB-63S-1P

SGB-63S-1P+N

SGB-63S-2P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63S/1-B1	SGB-63S/1-C1	SGB-63S/1-D1	12
2	SGB-63S/1-B2	SGB-63S/1-C2	SGB-63S/1-D2	12
3	SGB-63S/1-B3	SGB-63S/1-C3	SGB-63S/1-D3	12
4	SGB-63S/1-B4	SGB-63S/1-C4	SGB-63S/1-D4	12
6	SGB-63S/1-B6	SGB-63S/1-C6	SGB-63S/1-D6	12
10	SGB-63S/1-B10	SGB-63S/1-C10	SGB-63S/1-D10	12
13	SGB-63S/1-B13	SGB-63S/1-C13	SGB-63S/1-D13	12
16	SGB-63S/1-B16	SGB-63S/1-C16	SGB-63S/1-D16	12
20	SGB-63S/1-B20	SGB-63S/1-C20	SGB-63S/1-D20	12
25	SGB-63S/1-B25	SGB-63S/1-C25	SGB-63S/1-D25	12
32	SGB-63S/1-B32	SGB-63S/1-C32	SGB-63S/1-D32	12
40	SGB-63S/1-B40	SGB-63S/1-C40	SGB-63S/1-D40	12
50	SGB-63S/1-B50	SGB-63S/1-C50	SGB-63S/1-D50	12
63	SGB-63S/1-B63	SGB-63S/1-C63	SGB-63S/1-D63	12
1	SGB-63S/1-B1N	SGB-63S/1-C1N	SGB-63S/1-D1N	6
2	SGB-63S/1-B2N	SGB-63S/1-C2N	SGB-63S/1-D2N	6
3	SGB-63S/1-B3N	SGB-63S/1-C3N	SGB-63S/1-D3N	6
4	SGB-63S/1-B4N	SGB-63S/1-C4N	SGB-63S/1-D4N	6
6	SGB-63S/1-B6N	SGB-63S/1-C6N	SGB-63S/1-D6N	6
10	SGB-63S/1-B10N	SGB-63S/1-C10N	SGB-63S/1-D10N	6
13	SGB-63S/1-B13N	SGB-63S/1-C13N	SGB-63S/1-D13N	6
16	SGB-63S/1-B16N	SGB-63S/1-C16N	SGB-63S/1-D16N	6
20	SGB-63S/1-B20N	SGB-63S/1-C20N	SGB-63S/1-D20N	6
25	SGB-63S/1-B25N	SGB-63S/1-C25N	SGB-63S/1-D25N	6
32	SGB-63S/1-B32N	SGB-63S/1-C32N	SGB-63S/1-D32N	6
40	SGB-63S/1-B40N	SGB-63S/1-C40N	SGB-63S/1-D40N	6
50	SGB-63S/1-B50N	SGB-63S/1-C50N	SGB-63S/1-D50N	6
63	SGB-63S/1-B63N	SGB-63S/1-C63N	SGB-63S/1-D63N	6
1	SGB-63S/2-B1	SGB-63S/2-C1	SGB-63S/2-D1	6
2	SGB-63S/2-B2	SGB-63S/2-C2	SGB-63S/2-D2	6
3	SGB-63S/2-B3	SGB-63S/2-C3	SGB-63S/2-D3	6
4	SGB-63S/2-B4	SGB-63S/2-C4	SGB-63S/2-D4	6
6	SGB-63S/2-B6	SGB-63S/2-C6	SGB-63S/2-D6	6
10	SGB-63S/2-B10	SGB-63S/2-C10	SGB-63S/2-D10	6
13	SGB-63S/2-B13	SGB-63S/2-C13	SGB-63S/2-D13	6
16	SGB-63S/2-B16	SGB-63S/2-C16	SGB-63S/2-D16	6
20	SGB-63S/2-B20	SGB-63S/2-C20	SGB-63S/2-D20	6
25	SGB-63S/2-B25	SGB-63S/2-C25	SGB-63S/2-D25	6
32	SGB-63S/2-B32	SGB-63S/2-C32	SGB-63S/2-D32	6
40	SGB-63S/2-B40	SGB-63S/2-C40	SGB-63S/2-D40	6
50	SGB-63S/2-B50	SGB-63S/2-C50	SGB-63S/2-D50	6
63	SGB-63S/2-B63	SGB-63S/2-C63	SGB-63S/2-D63	6

SGB-63S MCB

SGB-63S-3P

SGB-63S-3P+N

SGB-63S-4P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63S/3-B1	SGB-63S/3-C1	SGB-63S/3-D1	4
2	SGB-63S/3-B2	SGB-63S/3-C2	SGB-63S/3-D2	4
3	SGB-63S/3-B3	SGB-63S/3-C3	SGB-63S/3-D3	4
4	SGB-63S/3-B4	SGB-63S/3-C4	SGB-63S/3-D4	4
6	SGB-63S/3-B6	SGB-63S/3-C6	SGB-63S/3-D6	4
10	SGB-63S/3-B10	SGB-63S/3-C10	SGB-63S/3-D10	4
13	SGB-63S/3-B13	SGB-63S/3-C13	SGB-63S/3-D13	4
16	SGB-63S/3-B16	SGB-63S/3-C16	SGB-63S/3-D16	4
20	SGB-63S/3-B20	SGB-63S/3-C20	SGB-63S/3-D20	4
25	SGB-63S/3-B25	SGB-63S/3-C25	SGB-63S/3-D25	4
32	SGB-63S/3-B32	SGB-63S/3-C32	SGB-63S/3-D32	4
40	SGB-63S/3-B40	SGB-63S/3-C40	SGB-63S/3-D40	4
50	SGB-63S/3-B50	SGB-63S/3-C50	SGB-63S/3-D50	4
63	SGB-63S/3-B63	SGB-63S/3-C63	SGB-63S/3-D63	4
1	SGB-63S/3-B1N	SGB-63S/3-C1N	SGB-63S/3-D1N	3
2	SGB-63S/3-B2N	SGB-63S/3-C2N	SGB-63S/3-D2N	3
3	SGB-63S/3-B3N	SGB-63S/3-C3N	SGB-63S/3-D3N	3
4	SGB-63S/3-B4N	SGB-63S/3-C4N	SGB-63S/3-D4N	3
6	SGB-63S/3-B6N	SGB-63S/3-C6N	SGB-63S/3-D6N	3
10	SGB-63S/3-B10N	SGB-63S/3-C10N	SGB-63S/3-D10N	3
13	SGB-63S/3-B13N	SGB-63S/3-C13N	SGB-63S/3-D13N	3
16	SGB-63S/3-B16N	SGB-63S/3-C16N	SGB-63S/3-D16N	3
20	SGB-63S/3-B20N	SGB-63S/3-C20N	SGB-63S/3-D20N	3
25	SGB-63S/3-B25N	SGB-63S/3-C25N	SGB-63S/3-D25N	3
32	SGB-63S/3-B32N	SGB-63S/3-C32N	SGB-63S/3-D32N	3
40	SGB-63S/3-B40N	SGB-63S/3-C40N	SGB-63S/3-D40N	3
50	SGB-63S/3-B50N	SGB-63S/3-C50N	SGB-63S/3-D50N	3
63	SGB-63S/3-B63N	SGB-63S/3-C63N	SGB-63S/3-D63N	3
1	SGB-63S/4-B1	SGB-63S/4-C1	SGB-63S/4-D1	3
2	SGB-63S/4-B2	SGB-63S/4-C2	SGB-63S/4-D2	3
3	SGB-63S/4-B3	SGB-63S/4-C3	SGB-63S/4-D3	3
4	SGB-63S/4-B4	SGB-63S/4-C4	SGB-63S/4-D4	3
6	SGB-63S/4-B6	SGB-63S/4-C6	SGB-63S/4-D6	3
10	SGB-63S/4-B10	SGB-63S/4-C10	SGB-63S/4-D10	3
13	SGB-63S/4-B13	SGB-63S/4-C13	SGB-63S/4-D13	3
16	SGB-63S/4-B16	SGB-63S/4-C16	SGB-63S/4-D16	3
20	SGB-63S/4-B20	SGB-63S/4-C20	SGB-63S/4-D20	3
25	SGB-63S/4-B25	SGB-63S/4-C25	SGB-63S/4-D25	3
32	SGB-63S/4-B32	SGB-63S/4-C32	SGB-63S/4-D32	3
40	SGB-63S/4-B40	SGB-63S/4-C40	SGB-63S/4-D40	3
50	SGB-63S/4-B50	SGB-63S/4-C50	SGB-63S/4-D50	3
63	SGB-63S/4-B63	SGB-63S/4-C63	SGB-63S/4-D63	3

SGB-63N MCB

SGB-63N-1P

SGB-63N-1P+N

SGB-63N-2P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63N/1-B1	SGB-63N/1-C1	SGB-63N/1-D1	12
2	SGB-63N/1-B2	SGB-63N/1-C2	SGB-63N/1-D2	12
3	SGB-63N/1-B3	SGB-63N/1-C3	SGB-63N/1-D3	12
4	SGB-63N/1-B4	SGB-63N/1-C4	SGB-63N/1-D4	12
6	SGB-63N/1-B6	SGB-63N/1-C6	SGB-63N/1-D6	12
10	SGB-63N/1-B10	SGB-63N/1-C10	SGB-63N/1-D10	12
13	SGB-63N/1-B13	SGB-63N/1-C13	SGB-63N/1-D13	12
16	SGB-63N/1-B16	SGB-63N/1-C16	SGB-63N/1-D16	12
20	SGB-63N/1-B20	SGB-63N/1-C20	SGB-63N/1-D20	12
25	SGB-63N/1-B25	SGB-63N/1-C25	SGB-63N/1-D25	12
32	SGB-63N/1-B32	SGB-63N/1-C32	SGB-63N/1-D32	12
40	SGB-63N/1-B40	SGB-63N/1-C40	SGB-63N/1-D40	12
50	SGB-63N/1-B50	SGB-63N/1-C50	SGB-63N/1-D50	12
63	SGB-63N/1-B63	SGB-63N/1-C63	SGB-63N/1-D63	12
1	SGB-63N/1-B1N	SGB-63N/1-C1N	SGB-63N/1-D1N	6
2	SGB-63N/1-B2N	SGB-63N/1-C2N	SGB-63N/1-D2N	6
3	SGB-63N/1-B3N	SGB-63N/1-C3N	SGB-63N/1-D3N	6
4	SGB-63N/1-B4N	SGB-63N/1-C4N	SGB-63N/1-D4N	6
6	SGB-63N/1-B6N	SGB-63N/1-C6N	SGB-63N/1-D6N	6
10	SGB-63N/1-B10N	SGB-63N/1-C10N	SGB-63N/1-D10N	6
13	SGB-63N/1-B13N	SGB-63N/1-C13N	SGB-63N/1-D13N	6
16	SGB-63N/1-B16N	SGB-63N/1-C16N	SGB-63N/1-D16N	6
20	SGB-63N/1-B20N	SGB-63N/1-C20N	SGB-63N/1-D20N	6
25	SGB-63N/1-B25N	SGB-63N/1-C25N	SGB-63N/1-D25N	6
32	SGB-63N/1-B32N	SGB-63N/1-C32N	SGB-63N/1-D32N	6
40	SGB-63N/1-B40N	SGB-63N/1-C40N	SGB-63N/1-D40N	6
50	SGB-63N/1-B50N	SGB-63N/1-C50N	SGB-63N/1-D50N	6
63	SGB-63N/1-B63N	SGB-63N/1-C63N	SGB-63N/1-D63N	6
1	SGB-63N/2-B1	SGB-63N/2-C1	SGB-63N/2-D1	6
2	SGB-63N/2-B2	SGB-63N/2-C2	SGB-63N/2-D2	6
3	SGB-63N/2-B3	SGB-63N/2-C3	SGB-63N/2-D3	6
4	SGB-63N/2-B4	SGB-63N/2-C4	SGB-63N/2-D4	6
6	SGB-63N/2-B6	SGB-63N/2-C6	SGB-63N/2-D6	6
10	SGB-63N/2-B10	SGB-63N/2-C10	SGB-63N/2-D10	6
13	SGB-63N/2-B13	SGB-63N/2-C13	SGB-63N/2-D13	6
16	SGB-63N/2-B16	SGB-63N/2-C16	SGB-63N/2-D16	6
20	SGB-63N/2-B20	SGB-63N/2-C20	SGB-63N/2-D20	6
25	SGB-63N/2-B25	SGB-63N/2-C25	SGB-63N/2-D25	6
32	SGB-63N/2-B32	SGB-63N/2-C32	SGB-63N/2-D32	6
40	SGB-63N/2-B40	SGB-63N/2-C40	SGB-63N/2-D40	6
50	SGB-63N/2-B50	SGB-63N/2-C50	SGB-63N/2-D50	6
63	SGB-63N/2-B63	SGB-63N/2-C63	SGB-63N/2-D63	6

SGB-63N MCB

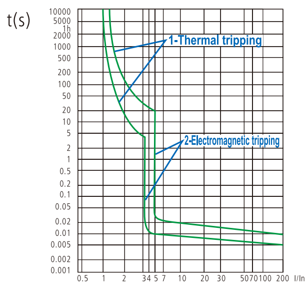
SGB-63N-3P

SGB-63N-3P+N

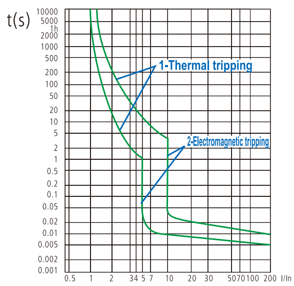
SGB-63N-4P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63N/3-B1	SGB-63N/3-C1	SGB-63N/3-D1	4
2	SGB-63N/3-B2	SGB-63N/3-C2	SGB-63N/3-D2	4
3	SGB-63N/3-B3	SGB-63N/3-C3	SGB-63N/3-D3	4
4	SGB-63N/3-B4	SGB-63N/3-C4	SGB-63N/3-D4	4
6	SGB-63N/3-B6	SGB-63N/3-C6	SGB-63N/3-D6	4
10	SGB-63N/3-B10	SGB-63N/3-C10	SGB-63N/3-D10	4
13	SGB-63N/3-B13	SGB-63N/3-C13	SGB-63N/3-D13	4
16	SGB-63N/3-B16	SGB-63N/3-C16	SGB-63N/3-D16	4
20	SGB-63N/3-B20	SGB-63N/3-C20	SGB-63N/3-D20	4
25	SGB-63N/3-B25	SGB-63N/3-C25	SGB-63N/3-D25	4
32	SGB-63N/3-B32	SGB-63N/3-C32	SGB-63N/3-D32	4
40	SGB-63N/3-B40	SGB-63N/3-C40	SGB-63N/3-D40	4
50	SGB-63N/3-B50	SGB-63N/3-C50	SGB-63N/3-D50	4
63	SGB-63N/3-B63	SGB-63N/3-C63	SGB-63N/3-D63	4
1	SGB-63N/3-B1N	SGB-63N/3-C1N	SGB-63N/3-D1N	3
2	SGB-63N/3-B2N	SGB-63N/3-C2N	SGB-63N/3-D2N	3
3	SGB-63N/3-B3N	SGB-63N/3-C3N	SGB-63N/3-D3N	3
4	SGB-63N/3-B4N	SGB-63N/3-C4N	SGB-63N/3-D4N	3
6	SGB-63N/3-B6N	SGB-63N/3-C6N	SGB-63N/3-D6N	3
10	SGB-63N/3-B10N	SGB-63N/3-C10N	SGB-63N/3-D10N	3
13	SGB-63N/3-B13N	SGB-63N/3-C13N	SGB-63N/3-D13N	3
16	SGB-63N/3-B16N	SGB-63N/3-C16N	SGB-63N/3-D16N	3
20	SGB-63N/3-B20N	SGB-63N/3-C20N	SGB-63N/3-D20N	3
25	SGB-63N/3-B25N	SGB-63N/3-C25N	SGB-63N/3-D25N	3
32	SGB-63N/3-B32N	SGB-63N/3-C32N	SGB-63N/3-D32N	3
40	SGB-63N/3-B40N	SGB-63N/3-C40N	SGB-63N/3-D40N	3
50	SGB-63N/3-B50N	SGB-63N/3-C50N	SGB-63N/3-D50N	3
63	SGB-63N/3-B63N	SGB-63N/3-C63N	SGB-63N/3-D63N	3
1	SGB-63N/4-B1	SGB-63N/4-C1	SGB-63N/4-D1	3
2	SGB-63N/4-B2	SGB-63N/4-C2	SGB-63N/4-D2	3
3	SGB-63N/4-B3	SGB-63N/4-C3	SGB-63N/4-D3	3
4	SGB-63N/4-B4	SGB-63N/4-C4	SGB-63N/4-D4	3
6	SGB-63N/4-B6	SGB-63N/4-C6	SGB-63N/4-D6	3
10	SGB-63N/4-B10	SGB-63N/4-C10	SGB-63N/4-D10	3
13	SGB-63N/4-B13	SGB-63N/4-C13	SGB-63N/4-D13	3
16	SGB-63N/4-B16	SGB-63N/4-C16	SGB-63N/4-D16	3
20	SGB-63N/4-B20	SGB-63N/4-C20	SGB-63N/4-D20	3
25	SGB-63N/4-B25	SGB-63N/4-C25	SGB-63N/4-D25	3
32	SGB-63N/4-B32	SGB-63N/4-C32	SGB-63N/4-D32	3
40	SGB-63N/4-B40	SGB-63N/4-C40	SGB-63N/4-D40	3
50	SGB-63N/4-B50	SGB-63N/4-C50	SGB-63N/4-D50	3
63	SGB-63N/4-B63	SGB-63N/4-C63	SGB-63N/4-D63	3

1. Curves



B type



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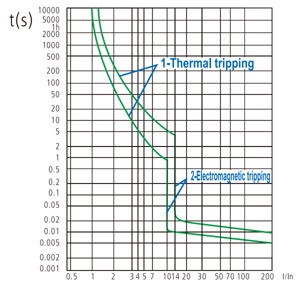
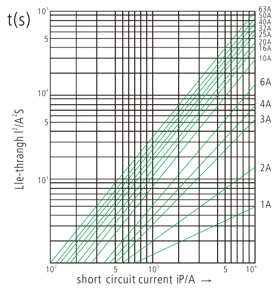


D type



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2. Overcurrent protecting characteristics

No	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1-63	cold state	1.13In	t⩽1 h	Non-trip	
2	1-63	upon the previous test	1.45In	t<1 h	trip	Setting current up to specified value steadily in 5S
3	In⩽32	cold state	2.55In	1s<t<60s	trip	
	In>32	cold state	2.55In	1s<t<120s	trip	
4	1-63	cold state	3In	t⩽0.1s	Non-trip	B type
	1-63	cold state	5In	t<1.1s	trip	B type
	1-63	cold state	5In	t⩽0.1s	Non-trip	C type
	1-63	cold state	10In	t<1.1s	trip	C type
	1-63	cold state	10In	t⩽0.1s	Non-trip	D type
	1-63	cold state	20In	t<1.1s	trip	D type

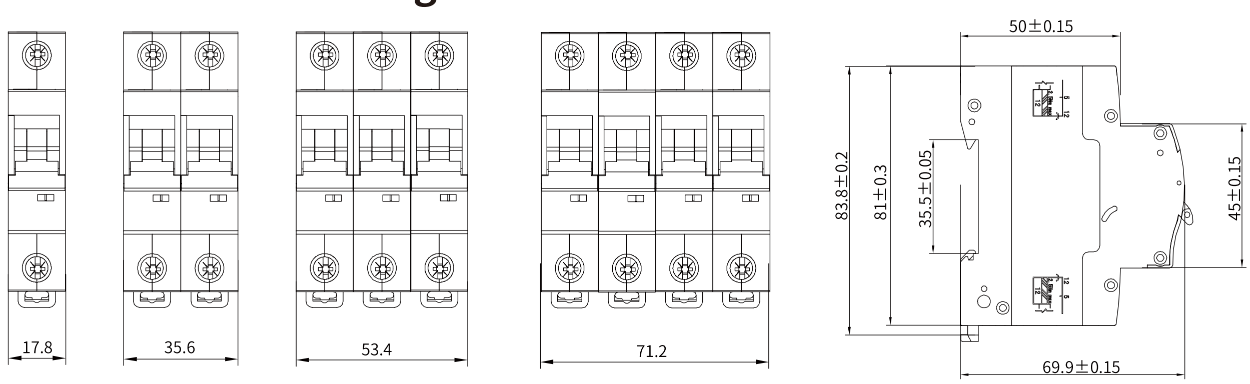
3. Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	8000	240/h	1-32
		120/h	40-63
Mechanical endurance	20000	240/h	1-63

4.Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism.Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties. Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

5. Overall and mounting dimensions



SGB-63S/ SGB-63N

SGB-63L/H Series
Miniature Circuit Breaker

Technical data

Standard		EN/ IEC60898-1
Breaking capacity		6kA,10kA
Protection		Against overload and short circuit
Rated current In		1,2,3,4,6, 10, 13, 16,20,25,32,40,50,63A
Rated voltage	**AC:**	1,2,3,4 Pole 230/400V Rated insulation voltage Ui: 500V Rated impulse withstand voltage Uimp: 4kV Energy limiting :class 3
Ambient temperature (℃)		-5~+40
Characteristic		Thermal operating limit: (1.13-1.45) x In Magnetic operating: B: (3-5) x In C: (5-10) x In D: (10-20) x In
Number of poles		1P, 1P+N,2P,3P,3P+N and 4P
Type of trip		Thermal / magnetic release
Type of terminal		Lug type and Pin type
Terminal capacity		16mm² flexible or 25mm² rigid up to 25A ratings 25mm² flexible or 35mm² rigid from 32A to 63A ratings
Protection degree		IP20
Installation		Mounting on 35mm DIN rail
Width		17.8mm per pole

DVE KEMA KEUR CE CB

SGB-63L-1P SGB-63L-2P SGB-63L-3P SGB-63L-4P

SGB-63L MCB

SGB-63L-1P

SGB-63L-1P+N

SGB-63L-2P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63L/1-B1	SGB-63L/1-C1	SGB-63L/1-D1	12
2	SGB-63L/1-B2	SGB-63L/1-C2	SGB-63L/1-D2	12
3	SGB-63L/1-B3	SGB-63L/1-C3	SGB-63L/1-D3	12
4	SGB-63L/1-B4	SGB-63L/1-C4	SGB-63L/1-D4	12
6	SGB-63L/1-B6	SGB-63L/1-C6	SGB-63L/1-D6	12
10	SGB-63L/1-B10	SGB-63L/1-C10	SGB-63L/1-D10	12
13	SGB-63L/1-B13	SGB-63L/1-C13	SGB-63L/1-D13	12
16	SGB-63L/1-B16	SGB-63L/1-C16	SGB-63L/1-D16	12
20	SGB-63L/1-B20	SGB-63L/1-C20	SGB-63L/1-D20	12
25	SGB-63L/1-B25	SGB-63L/1-C25	SGB-63L/1-D25	12
32	SGB-63L/1-B32	SGB-63L/1-C32	SGB-63L/1-D32	12
40	SGB-63L/1-B40	SGB-63L/1-C40	SGB-63L/1-D40	12
50	SGB-63L/1-B50	SGB-63L/1-C50	SGB-63L/1-D50	12
63	SGB-63L/1-B63	SGB-63L/1-C63	SGB-63L/1-D63	12
1	SGB-63L/1-B1N	SGB-63L/1-C1N	SGB-63L/1-D1N	6
2	SGB-63L/1-B2N	SGB-63L/1-C2N	SGB-63L/1-D2N	6
3	SGB-63L/1-B3N	SGB-63L/1-C3N	SGB-63L/1-D3N	6
4	SGB-63L/1-B4N	SGB-63L/1-C4N	SGB-63L/1-D4N	6
6	SGB-63L/1-B6N	SGB-63L/1-C6N	SGB-63L/1-D6N	6
10	SGB-63L/1-B10N	SGB-63L/1-C10N	SGB-63L/1-D10N	6
13	SGB-63L/1-B13N	SGB-63L/1-C13N	SGB-63L/1-D13N	6
16	SGB-63L/1-B16N	SGB-63L/1-C16N	SGB-63L/1-D16N	6
20	SGB-63L/1-B20N	SGB-63L/1-C20N	SGB-63L/1-D20N	6
25	SGB-63L/1-B25N	SGB-63L/1-C25N	SGB-63L/1-D25N	6
32	SGB-63L/1-B32N	SGB-63L/1-C32N	SGB-63L/1-D32N	6
40	SGB-63L/1-B40N	SGB-63L/1-C40N	SGB-63L/1-D40N	6
50	SGB-63L/1-B50N	SGB-63L/1-C50N	SGB-63L/1-D50N	6
63	SGB-63L/1-B63N	SGB-63L/1-C63N	SGB-63L/1-D63N	6
1	SGB-63L/2-B1	SGB-63L/2-C1	SGB-63L/2-D1	6
2	SGB-63L/2-B2	SGB-63L/2-C2	SGB-63L/2-D2	6
3	SGB-63L/2-B3	SGB-63L/2-C3	SGB-63L/2-D3	6
4	SGB-63L/2-B4	SGB-63L/2-C4	SGB-63L/2-D4	6
6	SGB-63L/2-B6	SGB-63L/2-C6	SGB-63L/2-D6	6
10	SGB-63L/2-B10	SGB-63L/2-C10	SGB-63L/2-D10	6
13	SGB-63L/2-B13	SGB-63L/2-C13	SGB-63L/2-D13	6
16	SGB-63L/2-B16	SGB-63L/2-C16	SGB-63L/2-D16	6
20	SGB-63L/2-B20	SGB-63L/2-C20	SGB-63L/2-D20	6
25	SGB-63L/2-B25	SGB-63L/2-C25	SGB-63L/2-D25	6
32	SGB-63L/2-B32	SGB-63L/2-C32	SGB-63L/2-D32	6
40	SGB-63L/2-B40	SGB-63L/2-C40	SGB-63L/2-D40	6
50	SGB-63L/2-B50	SGB-63L/2-C50	SGB-63L/2-D50	6
63	SGB-63L/2-B63	SGB-63L/2-C63	SGB-63L/2-D63	6

SGB-63L MCB

SGB-63L-3P

SGB-63L-3P+N

SGB-63L-4P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63L/3-B1	SGB-63L/3-C1	SGB-63L/3-D1	4
2	SGB-63L/3-B2	SGB-63L/3-C2	SGB-63L/3-D2	4
3	SGB-63L/3-B3	SGB-63L/3-C3	SGB-63L/3-D3	4
4	SGB-63L/3-B4	SGB-63L/3-C4	SGB-63L/3-D4	4
6	SGB-63L/3-B6	SGB-63L/3-C6	SGB-63L/3-D6	4
10	SGB-63L/3-B10	SGB-63L/3-C10	SGB-63L/3-D10	4
13	SGB-63L/3-B13	SGB-63L/3-C13	SGB-63L/3-D13	4
16	SGB-63L/3-B16	SGB-63L/3-C16	SGB-63L/3-D16	4
20	SGB-63L/3-B20	SGB-63L/3-C20	SGB-63L/3-D20	4
25	SGB-63L/3-B25	SGB-63L/3-C25	SGB-63L/3-D25	4
32	SGB-63L/3-B32	SGB-63L/3-C32	SGB-63L/3-D32	4
40	SGB-63L/3-B40	SGB-63L/3-C40	SGB-63L/3-D40	4
50	SGB-63L/3-B50	SGB-63L/3-C50	SGB-63L/3-D50	4
63	SGB-63L/3-B63	SGB-63L/3-C63	SGB-63L/3-D63	4
1	SGB-63L/3-B1N	SGB-63L/3-C1N	SGB-63L/3-D1N	3
2	SGB-63L/3-B2N	SGB-63L/3-C2N	SGB-63L/3-D2N	3
3	SGB-63L/3-B3N	SGB-63L/3-C3N	SGB-63L/3-D3N	3
4	SGB-63L/3-B4N	SGB-63L/3-C4N	SGB-63L/3-D4N	3
6	SGB-63L/3-B6N	SGB-63L/3-C6N	SGB-63L/3-D6N	3
10	SGB-63L/3-B10N	SGB-63L/3-C10N	SGB-63L/3-D10N	3
13	SGB-63L/3-B13N	SGB-63L/3-C13N	SGB-63L/3-D13N	3
16	SGB-63L/3-B16N	SGB-63L/3-C16N	SGB-63L/3-D16N	3
20	SGB-63L/3-B20N	SGB-63L/3-C20N	SGB-63L/3-D20N	3
25	SGB-63L/3-B25N	SGB-63L/3-C25N	SGB-63L/3-D25N	3
32	SGB-63L/3-B32N	SGB-63L/3-C32N	SGB-63L/3-D32N	3
40	SGB-63L/3-B40N	SGB-63L/3-C40N	SGB-63L/3-D40N	3
50	SGB-63L/3-B50N	SGB-63L/3-C50N	SGB-63L/3-D50N	3
63	SGB-63L/3-B63N	SGB-63L/3-C63N	SGB-63L/3-D63N	3
1	SGB-63L/4-B1	SGB-63L/4-C1	SGB-63L/4-D1	3
2	SGB-63L/4-B2	SGB-63L/4-C2	SGB-63L/4-D2	3
3	SGB-63L/4-B3	SGB-63L/4-C3	SGB-63L/4-D3	3
4	SGB-63L/4-B4	SGB-63L/4-C4	SGB-63L/4-D4	3
6	SGB-63L/4-B6	SGB-63L/4-C6	SGB-63L/4-D6	3
10	SGB-63L/4-B10	SGB-63L/4-C10	SGB-63L/4-D10	3
13	SGB-63L/4-B13	SGB-63L/4-C13	SGB-63L/4-D13	3
16	SGB-63L/4-B16	SGB-63L/4-C16	SGB-63L/4-D16	3
20	SGB-63L/4-B20	SGB-63L/4-C20	SGB-63L/4-D20	3
25	SGB-63L/4-B25	SGB-63L/4-C25	SGB-63L/4-D25	3
32	SGB-63L/4-B32	SGB-63L/4-C32	SGB-63L/4-D32	3
40	SGB-63L/4-B40	SGB-63L/4-C40	SGB-63L/4-D40	3
50	SGB-63L/4-B50	SGB-63L/4-C50	SGB-63L/4-D50	3
63	SGB-63L/4-B63	SGB-63L/4-C63	SGB-63L/4-D63	3

SGB-63H MCB

SGB-63H-1P

SGB-63H-1P+N

SGB-63H-2P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63H/1-B1	SGB-63H/1-C1	SGB-63H/1-D1	12
2	SGB-63H/1-B2	SGB-63H/1-C2	SGB-63H/1-D2	12
3	SGB-63H/1-B3	SGB-63H/1-C3	SGB-63H/1-D3	12
4	SGB-63H/1-B4	SGB-63H/1-C4	SGB-63H/1-D4	12
6	SGB-63H/1-B6	SGB-63H/1-C6	SGB-63H/1-D6	12
10	SGB-63H/1-B10	SGB-63H/1-C10	SGB-63H/1-D10	12
13	SGB-63H/1-B13	SGB-63H/1-C13	SGB-63H/1-D13	12
16	SGB-63H/1-B16	SGB-63H/1-C16	SGB-63H/1-D16	12
20	SGB-63H/1-B20	SGB-63H/1-C20	SGB-63H/1-D20	12
25	SGB-63H/1-B25	SGB-63H/1-C25	SGB-63H/1-D25	12
32	SGB-63H/1-B32	SGB-63H/1-C32	SGB-63H/1-D32	12
40	SGB-63H/1-B40	SGB-63H/1-C40	SGB-63H/1-D40	12
50	SGB-63H/1-B50	SGB-63H/1-C50	SGB-63H/1-D50	12
63	SGB-63H/1-B63	SGB-63H/1-C63	SGB-63H/1-D63	12
1	SGB-63H/1-B1N	SGB-63H/1-C1N	SGB-63H/1-D1N	6
2	SGB-63H/1-B2N	SGB-63H/1-C2N	SGB-63H/1-D2N	6
3	SGB-63H/1-B3N	SGB-63H/1-C3N	SGB-63H/1-D3N	6
4	SGB-63H/1-B4N	SGB-63H/1-C4N	SGB-63H/1-D4N	6
6	SGB-63H/1-B6N	SGB-63H/1-C6N	SGB-63H/1-D6N	6
10	SGB-63H/1-B10N	SGB-63H/1-C10N	SGB-63H/1-D10N	6
13	SGB-63H/1-B13N	SGB-63H/1-C13N	SGB-63H/1-D13N	6
16	SGB-63H/1-B16N	SGB-63H/1-C16N	SGB-63H/1-D16N	6
20	SGB-63H/1-B20N	SGB-63H/1-C20N	SGB-63H/1-D20N	6
25	SGB-63H/1-B25N	SGB-63H/1-C25N	SGB-63H/1-D25N	6
32	SGB-63H/1-B32N	SGB-63H/1-C32N	SGB-63H/1-D32N	6
40	SGB-63H/1-B40N	SGB-63H/1-C40N	SGB-63H/1-D40N	6
50	SGB-63H/1-B50N	SGB-63H/1-C50N	SGB-63H/1-D50N	6
63	SGB-63H/1-B63N	SGB-63H/1-C63N	SGB-63H/1-D63N	6
1	SGB-63H/2-B1	SGB-63H/2-C1	SGB-63H/2-D1	6
2	SGB-63H/2-B2	SGB-63H/2-C2	SGB-63H/2-D2	6
3	SGB-63H/2-B3	SGB-63H/2-C3	SGB-63H/2-D3	6
4	SGB-63H/2-B4	SGB-63H/2-C4	SGB-63H/2-D4	6
6	SGB-63H/2-B6	SGB-63H/2-C6	SGB-63H/2-D6	6
10	SGB-63H/2-B10	SGB-63H/2-C10	SGB-63H/2-D10	6
13	SGB-63H/2-B13	SGB-63H/2-C13	SGB-63H/2-D13	6
16	SGB-63H/2-B16	SGB-63H/2-C16	SGB-63H/2-D16	6
20	SGB-63H/2-B20	SGB-63H/2-C20	SGB-63H/2-D20	6
25	SGB-63H/2-B25	SGB-63H/2-C25	SGB-63H/2-D25	6
32	SGB-63H/2-B32	SGB-63H/2-C32	SGB-63H/2-D32	6
40	SGB-63H/2-B40	SGB-63H/2-C40	SGB-63H/2-D40	6
50	SGB-63H/2-B50	SGB-63H/2-C50	SGB-63H/2-D50	6
63	SGB-63H/2-B63	SGB-63H/2-C63	SGB-63H/2-D63	6

SGB-63H MCB

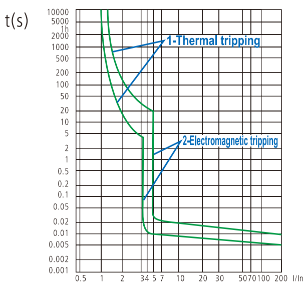
SGB-63H-3P

SGB-63H-3P+N

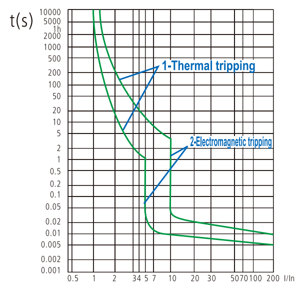
SGB-63H-4P

Rated current(A)	B curve	C curve	D curve	Packing unit
1	SGB-63H/3-B1	SGB-63H/3-C1	SGB-63H/3-D1	4
2	SGB-63H/3-B2	SGB-63H/3-C2	SGB-63H/3-D2	4
3	SGB-63H/3-B3	SGB-63H/3-C3	SGB-63H/3-D3	4
4	SGB-63H/3-B4	SGB-63H/3-C4	SGB-63H/3-D4	4
6	SGB-63H/3-B6	SGB-63H/3-C6	SGB-63H/3-D6	4
10	SGB-63H/3-B10	SGB-63H/3-C10	SGB-63H/3-D10	4
13	SGB-63H/3-B13	SGB-63H/3-C13	SGB-63H/3-D13	4
16	SGB-63H/3-B16	SGB-63H/3-C16	SGB-63H/3-D16	4
20	SGB-63H/3-B20	SGB-63H/3-C20	SGB-63H/3-D20	4
25	SGB-63H/3-B25	SGB-63H/3-C25	SGB-63H/3-D25	4
32	SGB-63H/3-B32	SGB-63H/3-C32	SGB-63H/3-D32	4
40	SGB-63H/3-B40	SGB-63H/3-C40	SGB-63H/3-D40	4
50	SGB-63H/3-B50	SGB-63H/3-C50	SGB-63H/3-D50	4
63	SGB-63H/3-B63	SGB-63H/3-C63	SGB-63H/3-D63	4
1	SGB-63H/3-B1N	SGB-63H/3-C1N	SGB-63H/3-D1N	3
2	SGB-63H/3-B2N	SGB-63H/3-C2N	SGB-63H/3-D2N	3
3	SGB-63H/3-B3N	SGB-63H/3-C3N	SGB-63H/3-D3N	3
4	SGB-63H/3-B4N	SGB-63H/3-C4N	SGB-63H/3-D4N	3
6	SGB-63H/3-B6N	SGB-63H/3-C6N	SGB-63H/3-D6N	3
10	SGB-63H/3-B10N	SGB-63H/3-C10N	SGB-63H/3-D10N	3
13	SGB-63H/3-B13N	SGB-63H/3-C13N	SGB-63H/3-D13N	3
16	SGB-63H/3-B16N	SGB-63H/3-C16N	SGB-63H/3-D16N	3
20	SGB-63H/3-B20N	SGB-63H/3-C20N	SGB-63H/3-D20N	3
25	SGB-63H/3-B25N	SGB-63H/3-C25N	SGB-63H/3-D25N	3
32	SGB-63H/3-B32N	SGB-63H/3-C32N	SGB-63H/3-D32N	3
40	SGB-63H/3-B40N	SGB-63H/3-C40N	SGB-63H/3-D40N	3
50	SGB-63H/3-B50N	SGB-63H/3-C50N	SGB-63H/3-D50N	3
63	SGB-63H/3-B63N	SGB-63H/3-C63N	SGB-63H/3-D63N	3
1	SGB-63H/4-B1	SGB-63H/4-C1	SGB-63H/4-D1	3
2	SGB-63H/4-B2	SGB-63H/4-C2	SGB-63H/4-D2	3
3	SGB-63H/4-B3	SGB-63H/4-C3	SGB-63H/4-D3	3
4	SGB-63H/4-B4	SGB-63H/4-C4	SGB-63H/4-D4	3
6	SGB-63H/4-B6	SGB-63H/4-C6	SGB-63H/4-D6	3
10	SGB-63H/4-B10	SGB-63H/4-C10	SGB-63H/4-D10	3
13	SGB-63H/4-B13	SGB-63H/4-C13	SGB-63H/4-D13	3
16	SGB-63H/4-B16	SGB-63H/4-C16	SGB-63H/4-D16	3
20	SGB-63H/4-B20	SGB-63H/4-C20	SGB-63H/4-D20	3
25	SGB-63H/4-B25	SGB-63H/4-C25	SGB-63H/4-D25	3
32	SGB-63H/4-B32	SGB-63H/4-C32	SGB-63H/4-D32	3
40	SGB-63H/4-B40	SGB-63H/4-C40	SGB-63H/4-D40	3
50	SGB-63H/4-B50	SGB-63H/4-C50	SGB-63H/4-D50	3
63	SGB-63H/4-B63	SGB-63H/4-C63	SGB-63H/4-D63	3

1. Curves



B type



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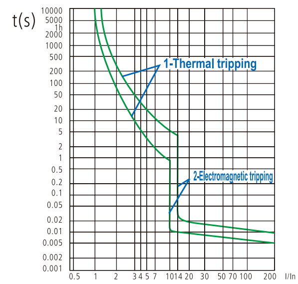

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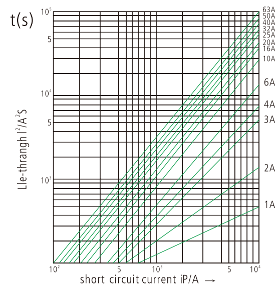


I^2t

2. Overcurrent protecting characteristics

No	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1-63	cold state	1.13In	t≤1 h	Non-trip	
2	1-63	upon the previous test	1.45In	t<1 h	trip	Setting current up to specified value steadily in 5S
3	In≤32	cold state	2.55In	1s<t<60s	trip	
	In>32	cold state	2.55In	1s<t<120s	trip	
4	1-63	cold state	3In	t≤0.1s	Non-trip	B type
	1-63	cold state	5In	t<1.1s	trip	B type
	1-63	cold state	5In	t≤0.1s	Non-trip	C type
	1-63	cold state	10In	t<1.1s	trip	C type
	1-63	cold state	10In	t≤0.1s	Non-trip	D type
	1-63	cold state	20In	t<1.1s	trip	D type

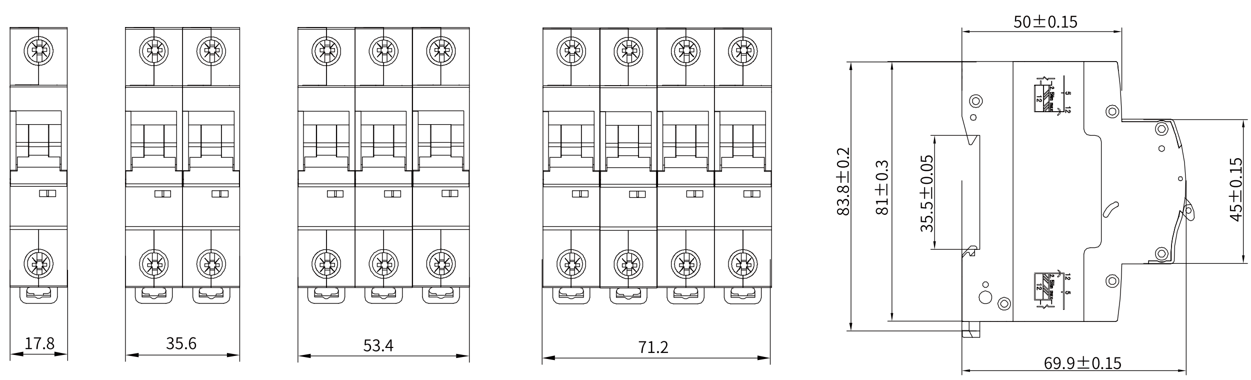
3. Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	8000	240/h	1-32
		120/h	40-63
Mechanical endurance	20000	240/h	1-63

4.Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism.Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties. Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

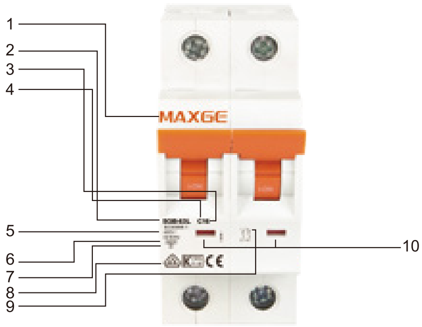
5. Overall and mounting dimensions



SGB-63L/SGB-63H

1. Benefits

1.Brand
2. Type
3. Rated current
4. Tripping type
5. Rated voltage
6. Breaking capacity
7. Energy Limiting
8. Approval
9. Electrical wiring diagram
10. ON/OFF indication



- Attractive device design
- Easily recognized, color-coded switching position
- Indication integrated in the handle.

- Well matched with RCCB SGR

- Well matched with Isolator SGI-R

- Auxiliary contacts can be added on the left side of the MCB

- Ergonomic handle for user-friendly switching

- Safety terminal:
  - easy wiring
  - protection degree IP20.
- Pozidriv and slot screw head. Torque up to 4 N.m.

- MCB and RCCB can be connected with PIN type busbar both at the top and bottom terminals.with easy DIN-rail extraction.

- MCB and RCCB can be connected with FORK type busbar both at the top and bottom terminals.with easy DIN-rail extraction.

SGB-63M-DC Series
Miniature Circuit Breaker

Technical data

Standard		EN/IEC60947-2
Breaking capacity		6kA
Protection		Against overload and short circuit
Rated current In		1,2,3,4,6,10,13,16,20,25,32,40,50,63A
Rated voltage	**DC:**	Rated voltage Ue(VDC): 1P: 250 3P: 750 2P: 500 4P: 1000 Operational volatge(VDC): Min.:12 Max :1P 250 2P 500
Ambient temperature (°C)		-5~+40
Characteristic		Thermal operating limit: (1.05-1.30) x In Magnetic operating: (8-12) x In
Number of poles		1P,2P,3P and 4P
Type of trip		Thermal/magnetic release
Type of terminal		Lug type and Pin type
Terminal capacity		$16mm^2$ flexible or $25mm^2$ rigid up to 25A ratings $25mm^2$ flexible or $35mm^2$ rigid from 32A to 63A ratings
Protection degree		IP20
Installation		Mounting on 35mm DIN rail
Width		17 .8mm per pole

TÜVRheinland CERTIFIED CE

SGB-63M-DC-1P SGB-63M-DC-2P SGB-63M-DC-3P SGB-63M-DC-4P

SGB-63M-DC MCB

EPB-63M-DC-1P

EPB-63M-DC-2P

Rated current(A)	DC type	Packing unit
1	SGB-63M/1-DC1	12
2	SGB-63M/1-DC2	12
3	SGB-63M/1-DC3	12
4	SGB-63M/1-DC4	12
6	SGB-63M/1-DC6	12
10	SGB-63M/1-DC10	12
13	SGB-63M/1-DC13	12
16	SGB-63M/1-DC16	12
20	SGB-63M/1-DC20	12
25	SGB-63M/1-DC25	12
32	SGB-63M/1-DC32	12
40	SGB-63M/1-DC40	12
50	SGB-63M/1-DC50	12
63	SGB-63M/1-DC63	12
1	SGB-63M/2-DC1	6
2	SGB-63M/2-DC2	6
3	SGB-63M/2-DC3	6
4	SGB-63M/2-DC4	6
6	SGB-63M/2-DC6	6
10	SGB-63M/2-DC10	6
13	SGB-63M/2-DC13	6
16	SGB-63M/2-DC16	6
20	SGB-63M/2-DC20	6
25	SGB-63M/2-DC25	6
32	SGB-63M/2-DC32	6
40	SGB-63M/2-DC40	6
50	SGB-63M/2-DC50	6
63	SGB-63M/2-DC63	6

SGB-63M-DC MCB

SGB-63M-DC-3P

SGB-63M-DC-4P

Rated current(A)	DC type	Packing unit
1	SGB-63M/3-DC1	4
2	SGB-63M/3-DC2	4
3	SGB-63M/3-DC3	4
4	SGB-63M/3-DC4	4
6	SGB-63M/3-DC6	4
10	SGB-63M/3-DC10	4
13	SGB-63M/3-DC13	4
16	SGB-63M/3-DC16	4
20	SGB-63M/3-DC20	4
25	SGB-63M/3-DC25	4
32	SGB-63M/3-DC32	4
40	SGB-63M/3-DC40	4
50	SGB-63M/3-DC50	4
63	SGB-63M/3-DC63	4
1	SGB-63M/4-DC1	3
2	SGB-63M/4-DC2	3
3	SGB-63M/4-DC3	3
4	SGB-63M/4-DC4	3
6	SGB-63M/4-DC6	3
10	SGB-63M/4-DC10	3
13	SGB-63M/4-DC13	3
16	SGB-63M/4-DC16	3
20	SGB-63M/4-DC20	3
25	SGB-63M/4-DC25	3
32	SGB-63M/4-DC32	3
40	SGB-63M/4-DC40	3
50	SGB-63M/4-DC50	3
63	SGB-63M/4-DC63	3

1. Overcurrent protecting characteristics

No	Rated current of release(A)	Initial state	Test current	Specified time	Result to be obtained	Remarks
1	1-63	cold state	1.05In	t⩽1 h	Non-trip	
2	1-63	upon the previous test	1.30In	t<1 h	trip	Setting current up to specified value steadily in 5S
3	In⩽32	cold state	2.55In	1s<t<60s	trip	
	In>32	cold state	2.55In	1s<t<120s	trip	
4	1-63	cold state	8In	t⩽0.1s	Non-trip	C type
	1-63	cold state	12In	t<1.1s	trip	C type

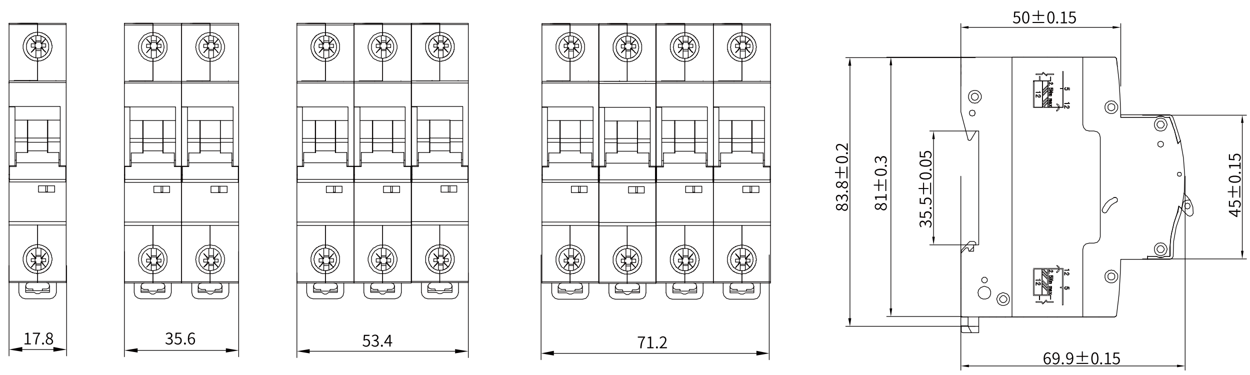
2. Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electrical endurance	4000	240/h	0.5-32
		120/h	40-63
Mechanical endurance	10000	240/h	0.5-63

3.Features

Much higher short circuit breaking capacity, Dual-connection convenient for both standard busbar and conductor connection. Improved safety of operators offered by special design from terminals. Much longer service life thanks to energy-storage operating mechanism.Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties. Higher current-limiting capacity ensuring a cost-effective range of products. Different handle color for different rated current with contactor condition indicator.

4. Overall and mounting dimensions



SGB-63M-DC

SG-DPN Series
"Phase+Neutral" Miniature Circuit Breaker

Technical data

Standard	EN/ IEC60898-1
Breaking capacity	3kA, 4.5kA, 6kA
Protection	Overload and short circuit
Rated insulation voltage Ui	500V
Rated impulse withstand voltage Uimp	4KV
Rated current In	2 ,4, 6,10,13,16,20,25,32A
Rated voltage	240VAC
Characteristic	B,C Curve
Number of poles	1P+N
Type of trip	Thermal / magnetic release
Type of terminal	Pin type
Terminal capacity	1-10mm^2 wire
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole
Electrical endurance	4000
Mechanical endurance	10000
Altitude	≤2000m
Relative humidity	+20°C, ≤95%, ±40°C, ≤50%

SG-DPN3K

SG-DPN4.5K

SG-DPN6K

SG-DPN MCB

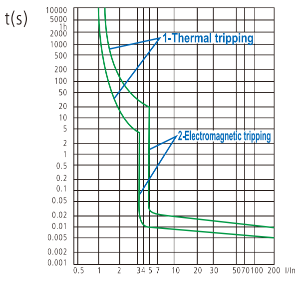
SG-DPN3K

SG-DPN4.5K

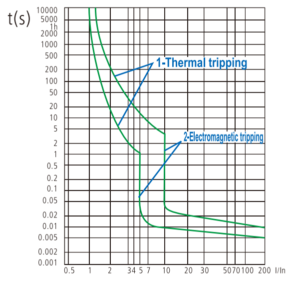
SG-DPN6K

Rated current(A)	B curve	C curve	Packing unit
2	SG-DPN3K-B2	SG-DPN3K-C2	12
4	SG-DPN3K-B4	SG-DPN3K-C4	12
6	SG-DPN3K-B6	SG-DPN3K-C6	12
10	SG-DPN3K-B10	SG-DPN3K-C10	12
13	SG-DPN3K-B13	SG-DPN3K-C13	12
16	SG-DPN3K-B16	SG-DPN3K-C16	12
20	SG-DPN3K-B20	SG-DPN3K-C20	12
25	SG-DPN3K-B25	SG-DPN3K-C25	12
32	SG-DPN3K-B32	SG-DPN3K-C32	12
2	SG-DPN4.5K-B2	SG-DPN4.5K-C2	12
4	SG-DPN4.5K-B4	SG-DPN4.5K-C4	12
6	SG-DPN4.5K-B6	SG-DPN4.5K-C6	12
10	SG-DPN4.5K-B10	SG-DPN4.5K-C10	12
13	SG-DPN4.5K-B13	SG-DPN4.5K-C13	12
16	SG-DPN4.5K-B16	SG-DPN4.5K-C16	12
20	SG-DPN4.5K-B20	SG-DPN4.5K-C20	12
25	SG-DPN4.5K-B25	SG-DPN4.5K-C25	12
32	SG-DPN4.5K-B32	SG-DPN4.5K-C32	12
2	SG-DPN6K-B2	SG-DPN6K-C2	12
4	SG-DPN6K-B4	SG-DPN6K-C4	12
6	SG-DPN6K-B6	SG-DPN6K-C6	12
10	SG-DPN6K-B10	SG-DPN6K-C10	12
13	SG-DPN6K-B13	SG-DPN6K-C13	12
16	SG-DPN6K-B16	SG-DPN6K-C16	12
20	SG-DPN6K-B20	SG-DPN6K-C20	12
25	SG-DPN6K-B25	SG-DPN6K-C25	12
32	SG-DPN6K-B32	SG-DPN6K-C32	12

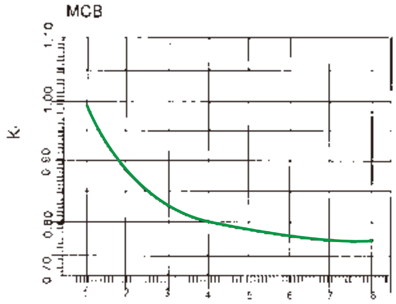
1. Curves



B type



C type



2. Please refer to table below for temperature compensation correction

Rated current	Temperature compensation coefficient under various operational temperature							
(A)	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C
1	1.17	1.13	1.09	1.04	1	0.96	0.91	0.84
2	1.17	1.13	1.09	1.04	2	0.96	0.91	0.84
4	1.17	1.13	1.09	1.04	4	0.96	0.91	0.84
6	1.17	1.13	1.09	1.04	6	0.96	0.91	0.84
10	1.21	1.16	1.09	1.04	10	0.94	0.88	0.82
16	1.18	1.13	1.09	1.04	16	0.94	0.91	0.84
20	1.17	1.13	1.09	1.04	20	0.96	0.91	0.84
25	1.18	1.13	1.09	1.04	25	0.96	0.91	0.84
32	1.17	1.13	1.09	1.04	32	0.96	0.91	0.84

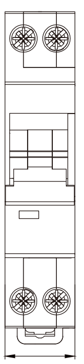
3. Wiring The suitable conductors should be used for connection, see table below for relative parameters.

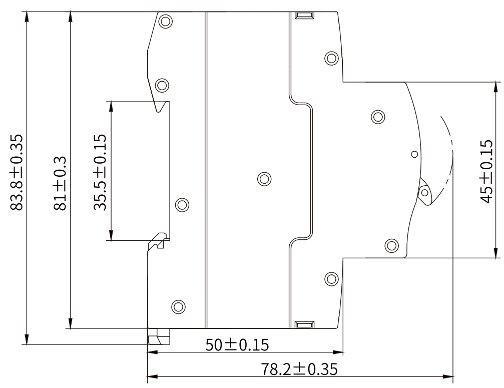
Rated current In (A)	Nominal cross section area s(mm^2)	Tightening torque (N.m)
≤6	1	1.2
10	1.5	1.2
16~20	2.5	1.2
25	4	1.2
32	6	1.2

4.Features

Compact design and cost-effective;
Enclosure and functional parts made from imported plastics with flame-retardant,heat-resistant,and impulse-proof properties; Potential electric shock is avoided thanks to neutral-line being directly connected to the product;
Convenient and time-saving mounting

5. Overall and mounting dimensions





SG-DPN

SGB-125H Series
Miniature Circuit Breaker

Technical data

Standard	EN/ IEC60898-1, EN/ IEC60947-2
Breaking capacity	6kA 10kA
Protection	Against overload and short circuit
Rated current In	40, 50, 63,80, 100, 125A
Rated voltage	1 pole 240V AC 50/60Hz 2,3,4pole 415V AC 50/60Hz
Characteristic	IEC60898-1 / IEC60947-2 Thermal operating limit: (1.13-1.45)xIn / (1.05-1.30)xIn Magnetic operating: B: (3-5)xIn / (8-12)xIn C: (5-10)xIn D: (10-20)xIn
Number of poles	1P,2P,3P,4P
Type of trip	Thermal / magnetic release
Type of terminal	Pin type
Terminal capacity	Flexible cables: 1.5 to 35mm^2 Rigid cables: 1 to 50mm^2
Installation	Mounting on 35mm DIN rail
Width	27mm per pole

Intertek CE CB

SGB-125H-1P SGB-125H-2P SGB-125H-3P SGB-125H-4P

SGB-125H MCB

1P

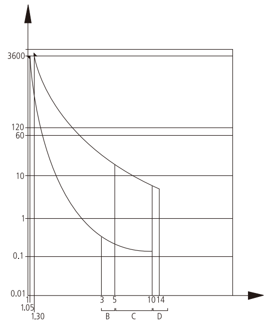
2P

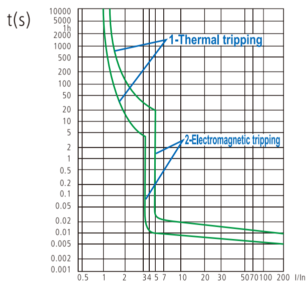
3P

4P

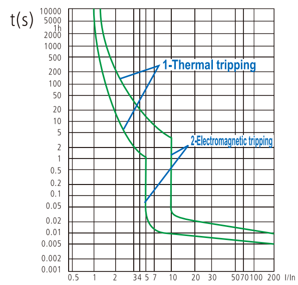
Rated current(A)	IEC60898-1			IEC60947-2	Packing unit
	B curve	C curve	D curve		
40	SGB-125H/1-B40	SGB-125H/1-C40	SGB-125H/1-D40	SGB-125H/1-40	12
50	SGB-125H/1-B50	SGB-125H/1-C50	SGB-125H/1-D50	SGB-125H/1-50	12
63	SGB-125H/1-B63	SGB-125H/1-C63	SGB-125H/1-D63	SGB-125H/1-63	12
80	SGB-125H/1-B80	SGB-125H/1-C80	SGB-125H/1-D80	SGB-125H/1-80	12
100	SGB-125H/1-B100	SGB-125H/1-C100	SGB-125H/1-D100	SGB-125H/1-100	12
125	SGB-125H/1-B125	SGB-125H/1-C125	SGB-125H/1-D125	SGB-125H/1-125	12
40	SGB-125H/2-B40	SGB-125H/2-C40	SGB-125H/2-D40	SGB-125H/2-40	6
50	SGB-125H/2-B50	SGB-125H/2-C50	SGB-125H/2-D50	SGB-125H/2-50	6
63	SGB-125H/2-B63	SGB-125H/2-C63	SGB-125H/2-D63	SGB-125H/2-63	6
80	SGB-125H/2-B80	SGB-125H/2-C80	SGB-125H/2-D80	SGB-125H/2-80	6
100	SGB-125H/2-B100	SGB-125H/2-C100	SGB-125H/2-D100	SGB-125H/2-100	6
125	SGB-125H/2-B125	SGB-125H/2-C125	SGB-125H/2-D125	SGB-125H/2-125	6
40	SGB-125H/3-B40	SGB-125H/3-C40	SGB-125H/3-D40	SGB-125H/3-40	4
50	SGB-125H/3-B50	SGB-125H/3-C50	SGB-125H/3-D50	SGB-125H/3-50	4
63	SGB-125H/3-B63	SGB-125H/3-C63	SGB-125H/3-D63	SGB-125H/3-63	4
80	SGB-125H/3-B80	SGB-125H/3-C80	SGB-125H/3-D80	SGB-125H/3-80	4
100	SGB-125H/3-B100	SGB-125H/3-C100	SGB-125H/3-D100	SGB-125H/3-100	4
125	SGB-125H/3-B125	SGB-125H/3-C125	SGB-125H/3-D125	SGB-125H/3-125	4
40	SGB-125H/4-B40	SGB-125H/4-C40	SGB-125H/4-D40	SGB-125H/4-40	3
50	SGB-125H/4-B50	SGB-125H/4-C50	SGB-125H/4-D50	SGB-125H/4-50	3
63	SGB-125H/4-B63	SGB-125H/4-C63	SGB-125H/4-D63	SGB-125H/4-63	3
80	SGB-125H/4-B80	SGB-125H/4-C80	SGB-125H/4-D80	SGB-125H/4-80	3
100	SGB-125H/4-B100	SGB-125H/4-C100	SGB-125H/4-D100	SGB-125H/4-100	3
125	SGB-125H/4-B125	SGB-125H/4-C125	SGB-125H/4-D125	SGB-125H/4-125	3

1. Curves

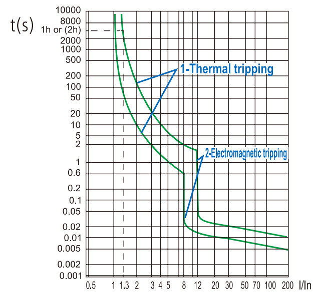




B type



C type



D type

2. Breaking capacity

Type	Voltage	Breaking capacity Icn(A)	Standard
1P	230/240	10000	IEC60947-2
2P,3P,4P	230/240	10000	
	400/415	10000	

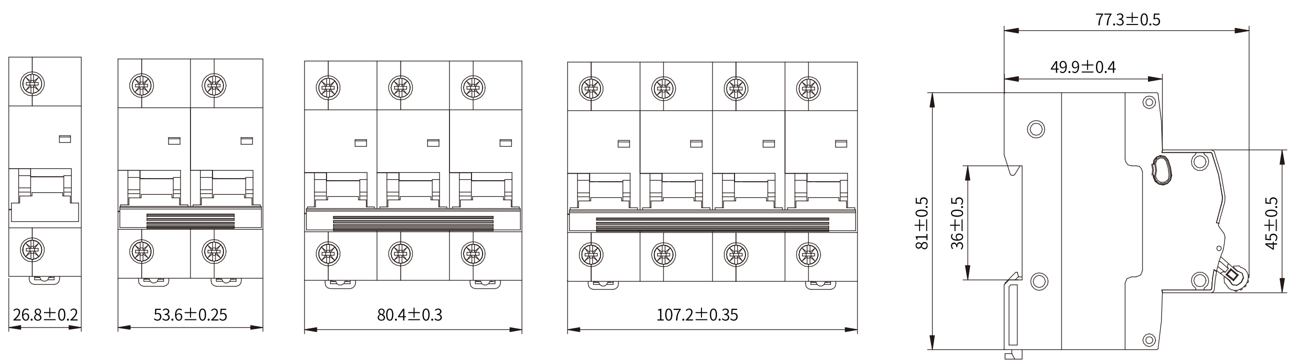
3. Wiring The suitable conductors should be used for connection,see table below for relative parameters.

Rated current In (A)	Nominal cross section area s (mm^2)	Tightening torque (N.m)
63	16	3.5
80	25	3.5
100	35	3.5
125	50	3.5

4.Features

1.High rated short-circuit breaking capacity up to 10000A on IEC60947-2 / IEC60898-1 standard.
2.Service life of product has been greatly enhanced through special designed tripping mechanism.
3.Long-time and reliable operation.
4.Enclosure and functional parts made from imported plastics with flame-retardant, heat-resistant, and impulse-proof properties.
5.Compact and modularized design.
6.Convenient mounting.
7.A wide range of RCD and RCBO.
8.Full sets of additional components and full sets of accessories.

5. Overall and mounting dimensions



SGB-125H

SGI-R Series
Isolating Switch

Technical data

Standard	EN/IEC60947-3
Number of poles	1P,2P,3P,4P
Rated currents	16,20,25,32,40,50,63,80,100A
Rated voltage	1Pole 240VAC 50/60Hz
	2,3,4Pole 415VAC 50/60Hz
Utilization category	AC-22A
Icw	12Ie, t= 1 s
Rated short-circuit making capacity Icm	20Ie
Rated making & breaking capacity	3Ie, 1.05Ue, COSφ=0.65
Rated insulation voltage Ui	690V
Rated impulse withstand voltage Uimp	6KV
Electrical endurance	1500
Mechanical endurance	10000
Type of terminal	Lug type and Pin type
Terminal capacity	Cables up to $50mm^2$
Ambient temperature (℃)	-5~+35, Max.95% humidity
Storage temperature(℃)	-40~+75
Altitude (meters)	Max. 2,000
Protection degree	IP20
Installation	Mounting on 35mm DIN rail
Width	17.8mm per pole

SGI-R-1P

SGI-R-2P

SGI-R-3P

SGI-R-4P

SGI-R Isolating Switch

SGI-R-1P

SGI-R-2P

SGI-R-3P

SGI-R-4P

Pole	In	Model	Packing unit
1P	16A	SGI-R-16/1	12
1P	20A	SGI-R-20/1	12
1P	25A	SGI-R-25/1	12
1P	32A	SGI-R-32/1	12
1P	40A	SGI-R-40/1	12
1P	50A	SGI-R-50/1	12
1P	63A	SGI-R-63/1	12
1P	80A	SGI-R-80/1	12
1P	100A	SGI-R-100/1	12
2P	16A	SGI-R-16/2	6
2P	20A	SGI-R-20/2	6
2P	25A	SGI-R-25/2	6
2P	32A	SGI-R-32/2	6
2P	40A	SGI-R-40/2	6
2P	50A	SGI-R-50/2	6
2P	63A	SGI-R-63/2	6
2P	80A	SGI-R-80/2	6
2P	100A	SGI-R-100/2	6
3P	16A	SGI-R-16/3	4
3P	20A	SGI-R-20/3	4
3P	25A	SGI-R-25/3	4
3P	32A	SGI-R-32/3	4
3P	40A	SGI-R-40/3	4
3P	50A	SGI-R-50/3	4
3P	63A	SGI-R-63/3	4
3P	80A	SGI-R-80/3	4
3P	100A	SGI-R-100/3	4
4P	16A	SGI-R-16/4	3
4P	20A	SGI-R-20/4	3
4P	25A	SGI-R-25/4	3
4P	32A	SGI-R-32/4	3
4P	40A	SGI-R-40/4	3
4P	50A	SGI-R-50/4	3
4P	63A	SGI-R-63/4	3
4P	80A	SGI-R-80/4	3
4P	100A	SGI-R-100/4	3

1. Endurance(operations)

Category	Operations	Operation frequency	Rated current
Electric endurance	1500	120/h	16~100A
Mechanical endurance	10000	120/h	16~100A

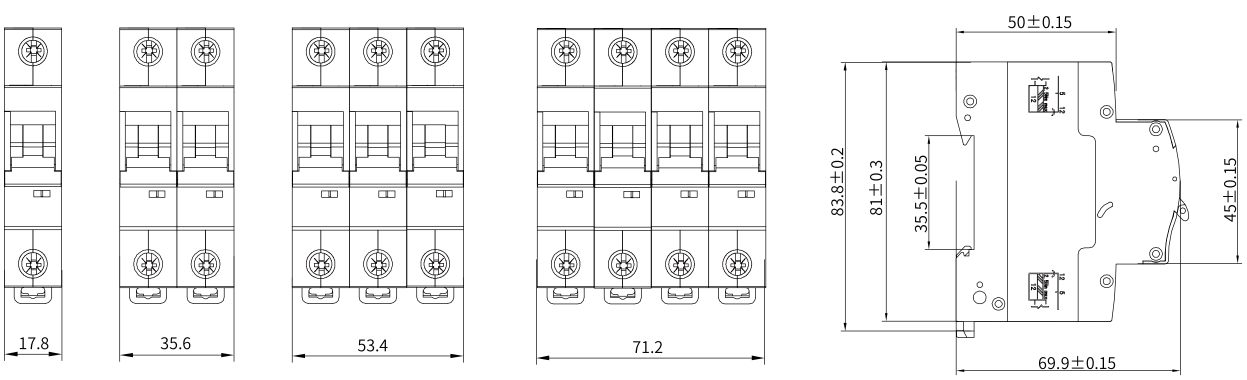
2. Wiring The suitable conductors should be used for connection,see table below for relative parameters.

Rated current In (A)	Cross section area s (mm^2)	Tightening torque (N.m)
16	2.5	3.5
20	2.5	3.5
25	4	3.5
32	6	3.5
40	10	3.5
50	10	3.5
63	16	3.5
80	35	3.5
100	35	3.5

3. Features

1. Current capacity is enhanced and electric drive compensation is fully applied
2. Reliable operation thanks to special designed operating mechanism
3. Safe operation is ensured

4. Overall and mounting dimensions



SGI-R

SGBA Series
Circuit Breaker Accessories

Technical data

Standard	EN/ IEC 62019
Rated insulation voltage Ui	500V
Rated voltage	AC 230V
Rated frequency(Hz)	50/60Hz
Utilization catagory	AC14,AC15
Ambient temperature(°C)	-5~+40, max 95%humidity
Storage temprature (°C)	-40~+75
Electric endurance	4000
Mechanical endurance	10000
Dielectric strength	2000V/1min
Protection degree	IP20

SGBA-OF SGBA-SD SGBA-MN SGBA-MX SGB-63H

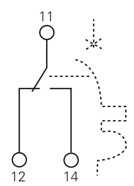
Application

Applicable to MCB model SGB-63,used to control remote signaling device.

Combination scheme

OF	SGB-63

OF	MX	SGB-63

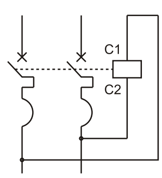


OF

OF Auxiliary Contact

Type code	Rated voltage (V)	Rated current (A)
OF23A	230AC	6
OF40A	400AC	3
OF24D	24 DC	6
OF48D	48 DC	2

Dielectric strength: 2kV/1 min
Electro-mechanical endurance: ⩾5000
Mounted on the left side of the MCB SGB-63,indicating "ON", "OFF" status of combined MCB.
Terminal Connection Height: H1 =31 mm H2= 16mm H3= 1.3mm



MX

MX Shunt Tripper

Type code	Rated voltage (V)
MX23A	230AC
MX40A	400AC
MX24D	24 DC
MX48D	48 DC

Rated insulation voltage(Ui): 500V
Operate voltage range: 70-100% Us
Contact capacity: AC:3A/400V, AC:6A/230V, AC:9A/125V
Dielectric strength: 2kV/1 min
Electro-mechanical endurance:⩾4000
Mounting on the left side of MCB/RCBO, used to trip the combined MCB/RCBO by remote controlling device.
Terminal Connection Height: 19mm

Application

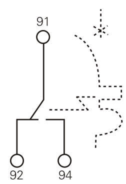
Applicable to MCB model SGB-63,used to control remote signaling device.

Combination scheme

SD	SGB-63

SD	MN	SGB-63

SD Alarm Switch

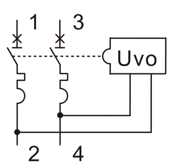


SD

Type code	Rated voltage (V)	Rated current (A)
SD23A	230AC	6
SD40A	400AC	3
SD24D	24 DC	6
SD48D	48 DC	2

Rated insulation voltage (Ui): 500V
Operate voltage range: 70~ 100% Us
Dielectric strength: 2KV/1 min
Electro-mechanical endurance:⩾ 4000
Is used to connect ON/OFF auxiliary contact, work as circuit breaker ON/OFF indicator in case of faulty (tripping)

MN Over-voltage/Under-voltage Tripper



MN

Type code	Rated voltage (V)
MN23A	230AC

Rated insulation voltage (Ui): 500V
Over-voltage tripping range: 280V±5%
Under-voltage tripping range: 170V±5%
Electro-mechanical endurance:⩾ 4000
Mounted on the left side of circuit breaker, actuate the combined device to trip in case of under-voltage or over-voltage, effectively prevent the device from closing operation under abnormal power voltage condition.

SGC1 Series
Modular Contactor

Technical data

Standard	EN/IEC 60947-4-1,EN/IEC 61095
Maximum power	AC1 220/230VAC: 20A 4.5KW(EPC1-20) 25A 16KW(EPC1-25) AC-1/AC-7a 380/400VAC: 63A 40KW(EPC1-63) AC-3/AC-7b 380/400VAC: 25A 15KW(EPC1-63) 4KW(EPC1-25)
Main contacts terminal capacity	1.5-6mm^2(EPC1-10/16/20/25A) 6-35mm^2(EPC1-40/63A)
Coil contact A1, A2 terminal capacity	0. 75-2.5mm^2
Electric endurance	⩾100,000
Mechanical endurance	⩾5000,000
Protection degree	IP20
Terminal tightening torque(N.m)	0.8-3.5
Ambient temperature (℃)	-5~+60, max. 95%humidity
Storage temperature(℃)	-40~+75
Connection capacity(mm²)	1-25

TÜV Rheinland CERTIFIED CE CB

SGC1-2P(10A-25A)

SGC1-2P(32A-63A)

SGC1-4P(10A-25A)

SGC1-4P(32A-63A)

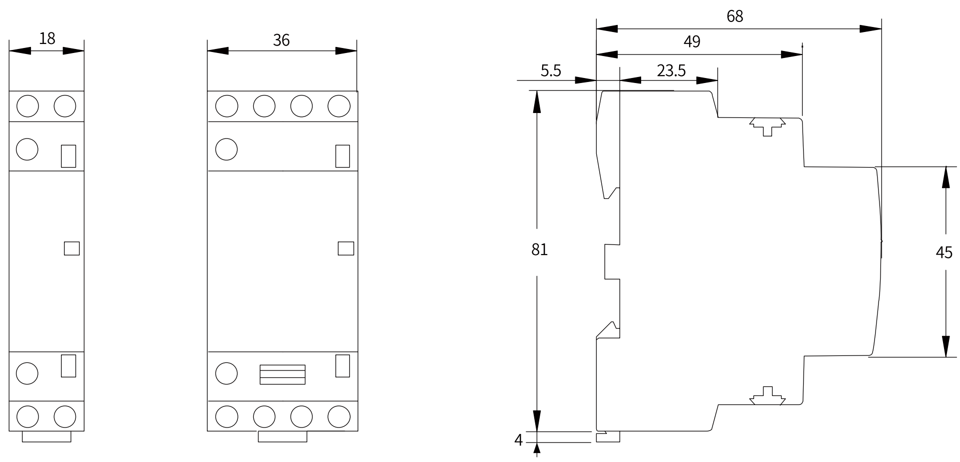
SGC1 Modular Contactor

SGC1-2P(10A-25A)

SGC1-2P(32A-63A)

Code No.	Rated current In(A)		Contact position	Control voltage (Vac)	Rated control power in(KW)	
	Ac-7a/Ac-1	Ac-7b/Ac-1			Ac-7a/230V	Ac-7b/230V
SGC1-10-11C	10	4	1NO+1NC	240	2	0.75
SGC1-10-20C	10	4	2NO	240	2	0.75
SGC1-10-02C	10	4	2NC	240	2	0.75
SGC1-16-11C	16	5.5	1NO+1NC	240	3.2	1.0
SGC1-16-20C	16	5.5	2NO	240	3.2	1.0
SGC1-16-02C	16	5.5	2NC	240	3.2	1.0
SGC1-20-11C	20	7	1NO+1NC	240	4	1.2
SGC1-20-20C	20	7	2NO	240	4	1.2
SGC1-20-02C	20	7	2NC	240	4	1.2
SGC1-25-11C	25	8.5	1NO+1NC	240	5	1.4
SGC1-25-20C	25	8.5	2NO	240	5	1.4
SGC1-25-02C	25	8.5	2NC	240	5	1.4
SGC1-10-22	10	4	2NO+2NC	240	6.2	2.2
SGC1-10-31	10	4	3NO+1NC	240	6.2	2.2
SGC1-10-40	10	4	4NO	240	6.2	2.2
SGC1-10-04	10	4	4NC	240	6.2	2.2
SGC1-16-22	16	5.5	2NO+2NC	240	10	3
SGC1-16-31	16	5.5	3NO+1NC	240	10	3
SGC1-16-40	16	5.5	4NO	240	10	3
SGC1-16-04	16	5.5	4NC	240	10	3
SGC1-20-22	20	7	2NO+2NC	240	13	3.5
SGC1-20-31	20	7	3NO+1NC	240	13	3.5
SGC1-20-40	20	7	4NO	240	13	3.5
SGC1-20-04	20	7	4NC	240	13	3.5
SGC1-25-22	25	8.5	2NO+2NC	240	15	4
SGC1-25-31	25	8.5	3NO+1NC	240	15	4
SGC1-25-40	25	8.5	4NO	240	15	4
SGC1-25-04	25	8.5	4NC	240	15	4

Overall and mounting dimensions



SGC1-10A-25A

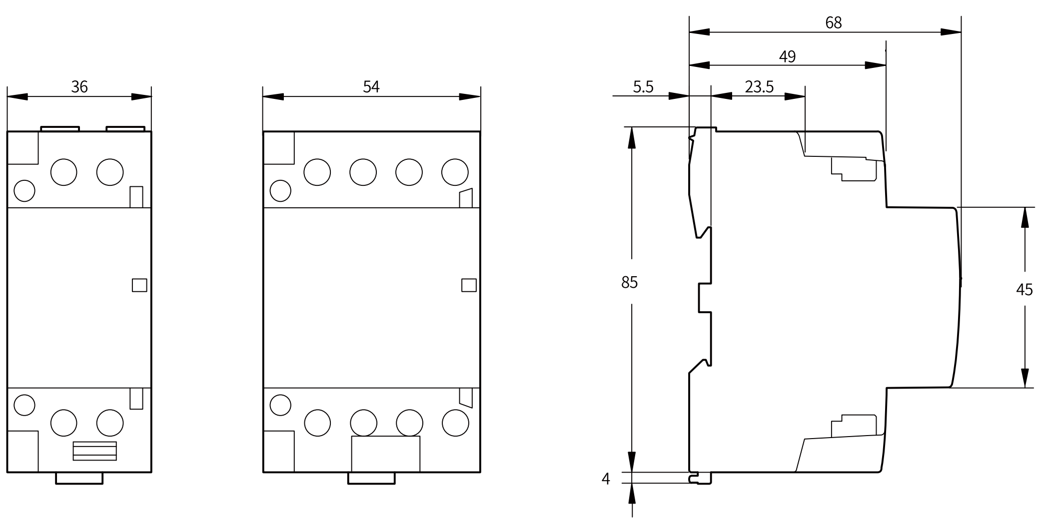
SGC1 Modular Contactor

SGC1-4P(10A-25A)

SGC1-4P(32A-63A)

Code No.	Rated current In(A)		Contact position	Control voltage (Vac)	Rated control power in(KW)	
	Ac-7a/Ac-1	Ac-7b/Ac-1			Ac-7a/400V	Ac-7b/400V
SGC1-32-11	32	12	1NO+1NC	240	6.5	2
SGC1-32-20	32	12	2NO	240	6.5	2
SGC1-32-02	32	12	2NC	240	6.5	2
SGC1-40-11	40	15	1NO+1NC	240	8.5	2.5
SGC1-40-20	40	15	2NO	240	8.5	2.5
SGC1-40-02	40	15	2NC	240	8.5	2.5
SGC1-63-11	63	25	1NO+1NC	240	13	4
SGC1-63-20	63	25	2NO	240	13	4
SGC1-63-02	63	25	2NC	240	13	4
SGC1-32-22	32	12	2NO+2NC	240	21	6.5
SGC1-32-31	32	12	3NO+1NC	240	21	6.5
SGC1-32-40	32	12	4NO	240	21	6.5
SGC1-32-04	32	12	4NC	240	21	6.5
SGC1-40-22	40	15	2NO+2NC	240	26	7.5
SGC1-40-31	40	15	3NO+1NC	240	26	7.5
SGC1-40-40	40	15	4NO	240	26	7.5
SGC1-40-04	40	15	4NC	240	26	7.5
SGC1-63-22	63	25	2NO+2NC	240	40	13
SGC1-63-31	63	25	3NO+1NC	240	40	13
SGC1-63-40	63	25	4NO	240	40	13
SGC1-63-04	63	25	4NC	240	40	13

Overall and mounting dimensions



SGC1-32A-63A

SGSL Series
Indicating Light

Technical data

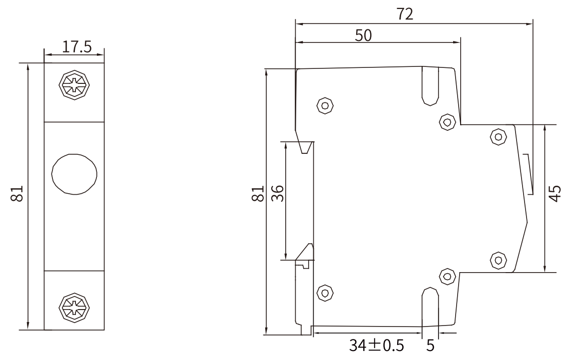
Standard	EN / IEC60947-5-1
Rated current AC12	20A
Electric ratings	Up to 230VAC 50/60Hz
Rated insulation Voltage Ui	500V
Illumination	LED, Incandescence, neon
Life	Incandescence lamp⩾1000h Neon lamp⩾2000h LED⩾30000h
Ambient temperature(℃)	-5~+40,max.95% humidity
Storage temperature(℃)	-40~+75
Connection capacity(mm2)	1-16
Color	Green,red,yellow,blue,white
Type of terminal	Pin type and Lug type
Protection degree	IP20
Mounting	35mm DIN rail

CE

SGSL Indicating Light

Operating voltage(V)	Code	Illumination	Color	Packing unit
6.3VAC/DC	SGSL-G-L6	Neon andescence LED	Green	12
12VAC/DC	SGSL-G-L12	Neon andescence LED	Green	12
24VAC/DC	SGSL-G-L24	Neon andescence LED	Green	12
110VAC/DC	SGSL-G-L110	Neon andescence LED	Green	12
230VAC/DC	SGSL-G-L230	Neon andescence LED	Green	12
6.3VAC/DC	SGSL-R-L6	Neon Incandescence LED	Red	12
12VAC/DC	SGSL-R-L12	Neon Incandescence LED	Red	12
24VAC/DC	SGSL-R-L24	Neon Incandescence LED	Red	12
110VAC/DC	SGSL-R-L110	Neon Incandescence LED	Red	12
230VAC/DC	SGSL-R-L230	Neon Incandescence LED	Red	12
6.3VAC/DC	SGSL-L6-Y	Neon Incandescence LED	Yellow	12
12VAC/DC	SGSL-Y-L12	Neon Incandescence LED	Yellow	12
24VAC/DC	SGSL-Y-L24	Neon Incandescence LED	Yellow	12
110VAC/DC	SGSL-Y-L110	Neon Incandescence LED	Yellow	12
230VAC/DC	SGSL-Y-L230	Neon Incandescence LED	Yellow	12
6.3VAC/DC	SGSL-B-L6	Neon Incandescence LED	Blue	12
12VAC/DC	SGSL-B-L12	Neon Incandescence LED	Blue	12
24VAC/DC	SGSL-B-L24	Neon Incandescence LED	Blue	12
110VAC/DC	SGSL-B-L110	Neon Incandescence LED	Blue	12
230VAC/DC	SGSL-B-L230	Neon Incandescence LED	Blue	12
6.3VAC/DC	SGSL-W-L6	Neon Incandescence LED	White	12
12VAC/DC	SGSL-W-L12	Neon Incandescence LED	White	12
24VAC/DC	SGSL-W-L24	Neon Incandescence LED	White	12
110VAC/DC	SGSL-W-L110	Neon Incandescence LED	White	12
230VAC/DC	SGSL-W-L230	Neon Incandescence LED	White	12

Overall and mounting dimensions



SGSL

SGSO Series Door Bell

Technical data

Standard	EN / IEC61558-1
Electric ratings	8V, 12V, 24V, 110V, 230V 50/60Hz
Installation class	II & III
Pollution grade	ll
Working condition	Short-time working
Degree of protection	IP20
Mounting	35mm DIN rail

SGTF-8 Series Transformer

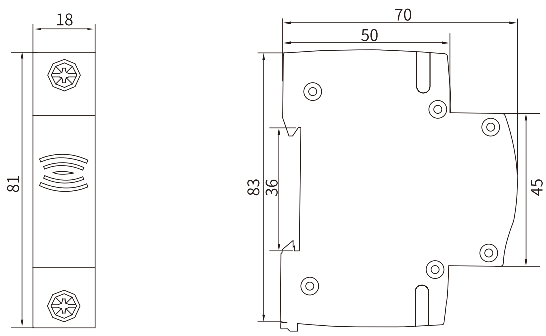
Technical data

Standard	EN / IEC61558
Input voltage	230V AC 50/60Hz
Output voltage	4,6,8,12,16,24V
Rated power output	8VA
Comsumption	1.15W
Pollution class	I
Mounting	35mm DIN rail
Service period	Continuous operating
Connection terminals	Pillar terminal with clamp
Connection capacity	Rigid conductor^{2}10mm
Terminal Connection Height	H=15.5mm
Installation	On symmetrical DIN rail Panel mounting

CE

SGSO Door Bell

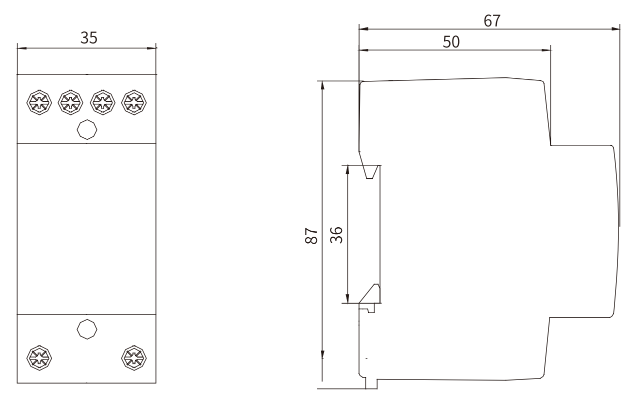
Operational voltage(V)	Code No.	Capacity (VA)	Noise level	Packing unit
8V	SGSO-8V	4.8VA	78dB	12
12V	SGSO-12V	4.8VA	78dB	12
24V	SGSO-24V	4.8VA	78dB	12
110V	SGSO-110V	4.4VA	78dB	12
230V	SGSO-230V	4.0VA	78dB	12



SGSO

SGTF-8 Transformer

Rated output power P2(VA)	Code No.	Rated voltage		Current w/o Load Io(A)	Power consumption w/o load Po(W)	Coil Temperature rising (℃)
		Primary U1(V)	Secondary U2(U)			
8	SGTF-8-4	230(240)	4	36±6	1.15	50
	SGTF-8-6		6			
	SGTF-8-8		8			
	SGTF-8-12		12			
	SGTF-8-16		16			
	SGTF-8-24		24			



SGTF-8

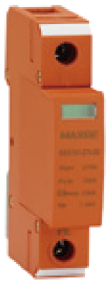
SGS1 Series
Surge Protective Device

Technical data

Standard	IEC61643-1
Protection	Protect electric system and on-loading electrical apparatus from thunder and instanteous over-voltage
Ambient temperature(°C)	-40~+70
Number of poles	1P,2P,3P,4P
Maximum continuous Operating voltage Uc(V~)	275/320/385/440 V
Nominal discharge current In(8/20μs) (KA)	10/20/30/40/60 KA
Maximum discharge current Imax(8/20μs) (KA)	20/40/60/80/100 KA
Protection level Up(KV)	<1.3/1.4/1.5/1.6/1.7/1.8/2.2/2.5/3.0 KV
Response time t(ns)	<25
On-Off indicating window	Green: normal function Red: functionless, immediate replacement required
Type of terminal	Pin type
Installation	Mounting on 35mm DIN rail
Ground system	TT/TN

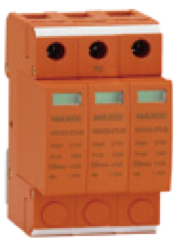
SGS1/1 SGS1/2 SGS1/3 SGS1/4

SGS1-D



SGS1-D/1

SGS1-D/2



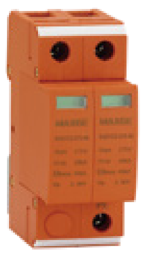
SGS1-D/3

SGS1-D/4

Type	Poles	Uc(V~)	Discharge current		Up(KV)	Applicable grounding system
			Nominal(kA)	Max.(kA)		
SGS1-D/1-275-20	1	275	10	20	< 1.2	TT/TN
SGS1-D/1-320-20	1	320	10	20	< 1.5	TT/TN
SGS1-D/1-385-20	1	385	10	20	< 1.6	TT/TN
SGS1-D/1-440-20	1	440	10	20	< 1.8	TT/TN
SGS1-D/2-275-20	2	275	10	20	< 1.2	TT/TN
SGS1-D/2-320-20	2	320	10	20	< 1.5	TT/TN
SGS1-D/2-385-20	2	385	10	20	< 1.6	TT/TN
SGS1-D/2-440-20	2	440	10	20	< 1.8	TT/TN
SGS1-D/3-275-20	3	275	10	20	< 1.2	TT/TN
SGS1-D/3-320-20	3	320	10	20	< 1.5	TT/TN
SGS1-D/3-385-20	3	385	10	20	< 1.6	TT/TN
SGS1-D/3-440-20	3	440	10	20	< 1.8	TT/TN
SGS1-D/4-275-20	4	275	10	20	< 1.2	TT/TN
SGS1-D/4-320-20	4	320	10	20	< 1.5	TT/TN
SGS1-D/4-385-20	4	385	10	20	< 1.6	TT/TN
SGS1-D/4-440-20	4	440	10	20	< 1.8	TT/TN

SGS1-C

SGS1-C/1



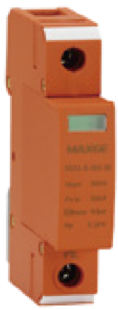
SGS1-C/2

SGS1-C/3

SGS1-C/4

Type	Poles	Uc(V~)	Discharge current		Up(KV)	Applicable grounding system
			Nominal(kA)	Max.(kA)		
SGS1-C/1-275-40	1	275	20	40	＜1.6	TT/TN
SGS1-C/1-320-40	1	320	20	40	＜1.7	TT/TN
SGS1-C/1-385-40	1	385	20	40	＜1.8	TT/TN
SGS1-C/1-440-40	1	440	20	40	＜2.2	TT/TN
SGS1-C/2-275-40	2	275	20	40	＜1.6	TT/TN
SGS1-C/2-320-40	2	320	20	40	＜1.7	TT/TN
SGS1-C/2-385-40	2	385	20	40	＜1.8	TT/TN
SGS1-C/2-440-40	2	440	20	40	＜2.2	TT/TN
SGS1-C/3-275-40	3	275	20	40	＜1.6	TT/TN
SGS1-C/3-320-40	3	320	20	40	＜1.7	TT/TN
SGS1-C/3-385-40	3	385	20	40	＜1.8	TT/TN
SGS1-C/3-440-40	3	440	20	40	＜2.2	TT/TN
SGS1-C/4-275-40	4	275	20	40	＜1.6	TT/TN
SGS1-C/4-320-40	4	320	20	40	＜1.7	TT/TN
SGS1-C/4-385-40	4	385	20	40	＜1.8	TT/TN
SGS1-C/4-440-40	4	440	20	40	＜2.2	TT/TN

SGS1-B



SGS1-B/1

SGS1-B/3

Type	Poles	Uc(V~)	Discharge current		Up(KV)	Applicable grounding system
			Nominal(kA)	Max.(kA)		
SGS1-B/1-385-60	1	385	30	60	< 2.2	TT/TN
SGS1-B/1-440-60	1	440	30	60	< 2.5	TT/TN
SGS1-B/2-385-60	2	385	30	60	< 2.2	TT/TN
SGS1-B/2-440-60	2	440	30	60	< 2.5	TT/TN
SGS1-B/3-385-60	3	385	30	60	< 2.2	TT/TN
SGS1-B/3-440-60	3	440	30	60	< 2.5	TT/TN
SGS1-B/4-385-60	4	385	30	60	< 2.2	TT/TN
SGS1-B/4-440-60	4	440	30	60	< 2.5	TT/TN
SGS1-B/1-385-80	1	385	40	80	< 2.5	TT/TN
SGS1-B/1-385-100	1	385	60	100	< 2.5	TT/TN
SGS1-B/1-440-80	1	440	40	80	< 3.0	TT/TN
SGS1-B/1-440-100	1	440	60	100	< 3.0	TT/TN
SGS1-B/2-385-80	2	385	40	80	< 2.5	TT/TN
SGS1-B/2-385-100	2	385	60	100	< 2.5	TT/TN
SGS1-B/2-440-80	2	440	40	80	< 3.0	TT/TN
SGS1-B/2-440-100	2	440	60	100	< 3.0	TT/TN
SGS1-B/3-385-80	3	385	40	80	< 2.5	TT/TN
SGS1-B/3-385-100	3	385	60	100	< 2.5	TT/TN
SGS1-B/3-440-80	3	440	40	80	<3.0	TT/TN
SGS1-B/3-440-100	3	440	60	100	< 3.0	TT/TN
SGS1-B/4-385-80	4	385	40	80	< 2.5	TT/TN
SGS1-B/4-385-100	4	385	60	100	< 2.5	TT/TN
SGS1-B/4-440-80	4	440	40	80	< 3.0	TT/TN
SGS1-B/4-440-100	4	440	60	100	< 3.0	TT/TN

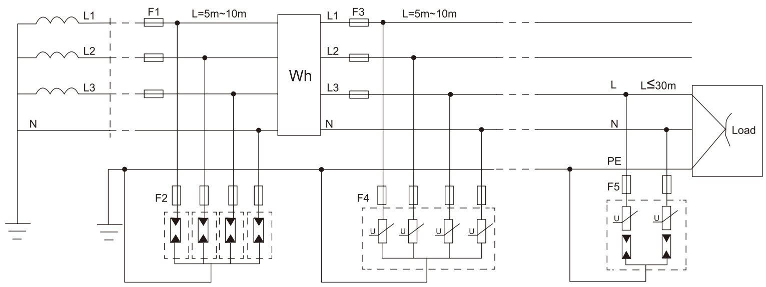
1. Technical data

Type / Technical data	SGS1-D				SGS1-C				SGS1-B		
	275-20	320-20	385-20	440-20	275-40	320-40	385-40	440-40	385-60	385-80	385-100
Max.continuous operating vol. Uc(V~)	275V	320V	385V	440V	275V	320V	385V	440V	385V	385V	385V
Level of vol.protection(Up<)	1.2kV	1.5kV	1.6kV	1.8kv	1.6kV	1.7KV	1.8KV	2.2kv	2.2KV	2.5KV	2.5KV
Nominal discharge curent In(8/20us)kA	10	10	10	10	20	20	20	20	30	40	60
Max. discharge current Imax(8/20us)kA	20	20	20	20	40	40	40	40	60	80	100
Response time t(ns)	<25				<25				<25		
Pole width(mm)	18				18				18		
Colour	Orange				Grey				Red		
Protection degree	IP20				IP20				IP20		
Material of cover	PBT				PBT				PBT		
Circuit current	10~16A				25~32A				25~32A		
Wiring L,N	2.5~35mm²				2.5~35mm²				2.5~35mm²		
Wiring PE	4.0~35mm²				4.0~35mm²				4.0~35mm²		

2. How to select surge protectors

a. The voltage should be ⩽Uc;
b. Up<maximum impulse withstands;
c. Different protectors should be selected according to various grounding system and protection mode.

3. Allocation of surge protectors under TT system

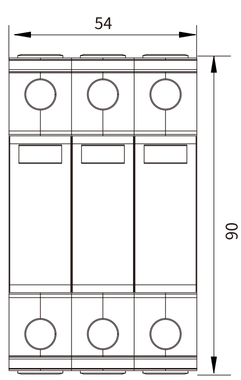


SGS1-B series surge protector
Protection category: B
Over-voltage mounting category:III
Rated impulse withstand voltage:4KV
Parameters of discharge:Uimp and In
Master power distribution cabinet

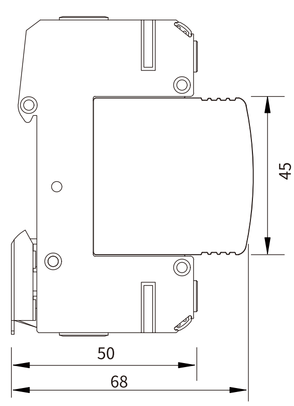
SGS1-C series surge protector
Protection category:C
Over-voltage mounting category:II
Rated impulse withstand voltage:2.5KV
Parameters of discharge:Imax and In
Branch power distribution cabinet

SGS1-D series surge protector
Protection category:D
Over-voltage mounting category:I
Rated impulse withstand voltage:1.5KV
Parameters of discharge:Uoc and Isc
Terminal of power distribution

4. Overall and Mounting Dimensions



SGS1



SGS1-DC Series
Surge Protective Device

Technical data

Standard	IEC50539-11
Protection	Protect electric systerm and on-loading electrical apparatus from thunder and instanteous over-voltage
Ambient temperature (℃)	-40~+70
Number of poles	2P,3P
PV system operating voltage ucpv	1000/1500 V
Nominal discharge current In(8/20μs)(KA)	20KA
Maximum discharge current Imax(8/20μs)(KA)	40KA
Protection level Up(KV)	⩽3.8/4.5
Response time t(ns)	<25
On-Off indicating window	Green: normal function Red: functionless, immediate replacement required
Type of terminal	Pin type
Installation	Mounting on 35mm DIN rail

SGS1-DC/2

SGS1-DC/3

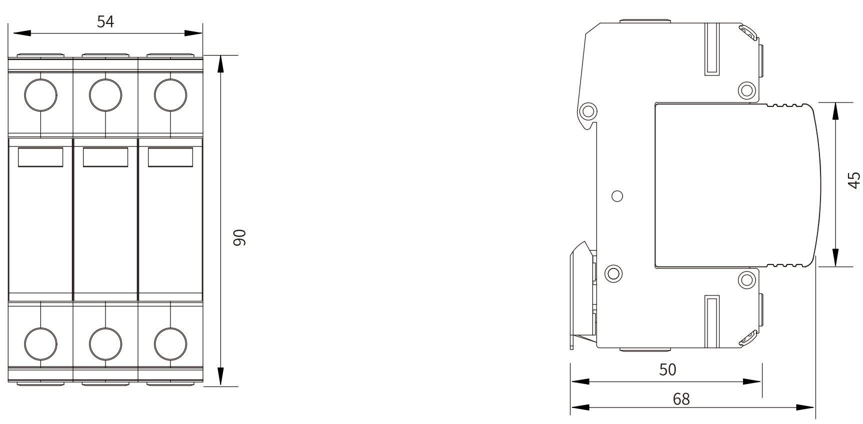
SGS1-DC

SGS1-DC/2

SGS1-DC/3

Type	Poles	Uc(V~)	Discharge current		Up(KV)	Photovoltaic voltage
			Nominal(kA)	Max.(kA)		
SGS1-DC/2-500/40	2	500	20	40	⩽2.5	500V
SGS1-DC/2-1000/40	2	1000	20	40	⩽3.5	1000V
SGS 1-DC/3-500/40	3	500	20	40	⩽2.5	500V
SGS 1-DC/3-1000/40	3	1000	20	40	⩽3.5	1000V
SGS 1-DC/3-1500/40	3	1500	20	40	⩽5.5	1500V

Overall and Mounting Dimensions



SGS1

EPF-32 Series
Fuse Holder and Links

Technical data

Standard	IEC60269-2 GB/T 13539.2
Description	Fuse switch disconnector with LED indicator
Number of Poles	1P,2P,3P,4P
Fuse size	10X38
Rated operational current Ie	2-32A
Rated operational voltage Ue	250VAC(1P)/500VAC(2P-4P)
Rated insulation voltage	500VAC
Rated impulse withstand voltage	4kV
Conditional short-circuit current	20kA
Utilization category with fuse	g G
Protection degree	IP20
Mounting method	Din rail installation

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EPF-32X-1P EPF-32X-2P EPF-32X-3P EPF-32X-4P

EPF-32 Fuse Holder and Links

EPF-32X-1P

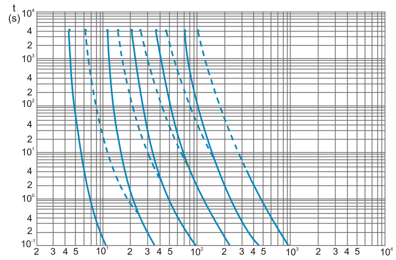
EPF-32X-2P

EPF-32X-3P

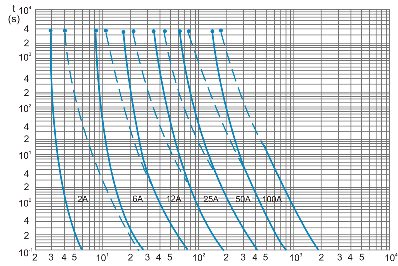
EPF-32 X-4P

Code No.	Fuse link size	Link current	Packing unit (holder)	Packing unit(link)
EPF-32-1 EPF-32X-1	10 X 38mm	2A	12	200
		4A	12	200
		6A	12	200
		10A	12	200
		16A	12	200
		20A	12	200
		25A	12	200
		32A	12	200
EPF-32-2 EPF-32X-2	10 X 38mm	2A	6	200
		4A	6	200
		6A	6	200
		10A	6	200
		16A	6	200
		20A	6	200
		25A	6	200
		32A	6	200
EPF-32-3 EPF-32X-3	10 X 38mm	2A	4	200
		4A	4	200
		6A	4	200
		10A	4	200
		16A	4	200
		20A	4	200
		25A	4	200
		32A	4	200
EPF-32-4 EPF-32X-4	10 X 38mm	2A	3	200
		4A	3	200
		6A	3	200
		10A	3	200
		16A	3	200
		20A	3	200
		25A	3	200
		32A	3	200

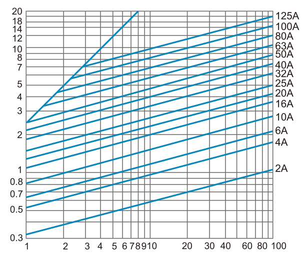
1. Curves



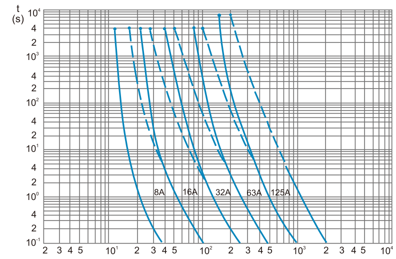
Prospective current(effective value)IP(A) →
Time-current band of "gG" fuse link



Prospective current(effective value)IP(A) →
Time-current band of "gG" fuse link



Prospective current Ip(KA) →
(symmetrical effective value)
Characteristic of cut-off current of "gG" fuse link

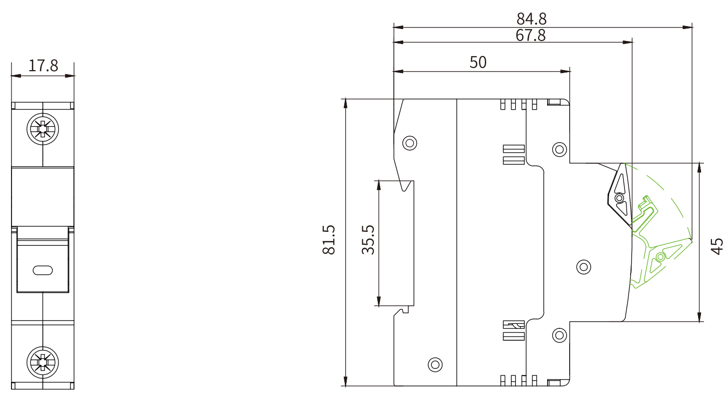


Prospective current Ip(KA) →
(effective value)
Time-current band of "gG" fuse link

2. Wiring The suitable conductors should be used for connection.

In	$I^2t(A^2S)$	$I^2t(A^2S)$	Watts loss
(A)	(V) Prearcing	(kA) Clearing at 600V	(W) In
3	-	-	-
6	4	30	1.5
8	6	50	2.0
10	9	70	2.5
12	15	120	3.0
16	25	150	3.5
20	34	260	4.8
25	60	390	6.0
32	95	600	7.5

5. Overall and mounting dimensions



EPF-32

EPF-63 Series
Fuse Holder and Links

Technical data

Standard	IEC60269-2 GB/T 13539.2
Description	Fuse switch disconnector without null line
Number of Poles	1P,1P+N,2P,3P,3P+N
Fuse size	14X51
Rated operational current Ie	2-63A(500VAC)/2-32A(690VAC)
Rated operational voltage Ue	500VAC/690VAC
Rated insulation voltage	800VAC
Rated impulse withstand voltage	6kV
Conditional short-circuit current	100kA(500VAC)/50kA(690VAC)
Utilization category with fuse	g G
Protection degree	IP20
Mounting method	Din rail installation

CE

EPF63X-1P

EPF63X-2P

EPF63X-3P

EPF63X-3P+N

EPF-63 Fuse Holder and Links

EPF63X-1P

EPF63X-1P+N

EPF63X-2P

EPF63X-3P

EPF63X-3P+N

Code No.	Fuse link size	Link current	Packing unit (holder)	Packing unit (link)
EPF-63-1 EPF-63X-1	14 X 51mm	2A	12	100
		4A	12	100
		6A	12	100
		8A	12	100
		10A	12	100
		12A	12	100
		16A	12	100
		20A	12	100
		25A	12	100
		32A	12	100
		40A	12	100
		50A	12	100
		63A	12	100
EPF-63-1P+N EPF-63X-1P+N	14 X 51mm	2A	6	100
		4A	6	100
		6A	6	100
		8A	6	100
		10A	6	100
		12A	6	100
		16A	6	100
		20A	6	100
		25A	6	100
		32A	6	100
		40A	6	100
		50A	6	100
		63A	6	100
EPF-63-2 EPF-63X-2	14 X 51mm	2A	6	100
		4A	6	100
		6A	6	100
		8A	6	100
		10A	6	100
		12A	6	100
		16A	6	100
		20A	6	100
		25A	6	100
		32A	6	100
		40A	6	100
		50A	6	100
		63A	6	100
EPF-63-3 EPF-63X-3	14 X 51mm	2A	4	100
		4A	4	100
		6A	4	100
		8A	4	100
		10A	4	100
		12A	4	100
		16A	4	100
		20A	4	100
		25A	4	100
		32A	4	100
		40A	4	100
		50A	4	100
		63A	4	100
EPF-63-3+N EPF-63X-3+N	14 X 51mm	2A	3	100
		4A	3	100
		6A	3	100
		8A	3	100
		10A	3	100
		12A	3	100
		16A	3	100
		20A	3	100
		25A	3	100
		32A	3	100
		40A	3	100
		50A	3	100
		63A	3	100

EPF-125 Series
Fuse Holder and Links

Technical data

Standard	IEC60269-2 GB/T 13539.2
Description	Fuse switch disconnector without null line
Number of Poles	1P,1P+N,2P,3P,3P+N
Fuse size	22X58
Rated operational current Ie	10-125A(500VAC)/10-50A(690VAC)
Rated operational voltage Ue	500VAC/690VAC
Rated insulation voltage	800VAC
Rated impulse withstand voltage	6kV
Conditional short-circuit current	100kA(500VAC)/50kA(690VAC)
Utilization category with fuse	g G
Protection degree	IP20
Mounting method	Din rail installation

EPF125X-1P

EPF125X-2P

EPF125X-3P

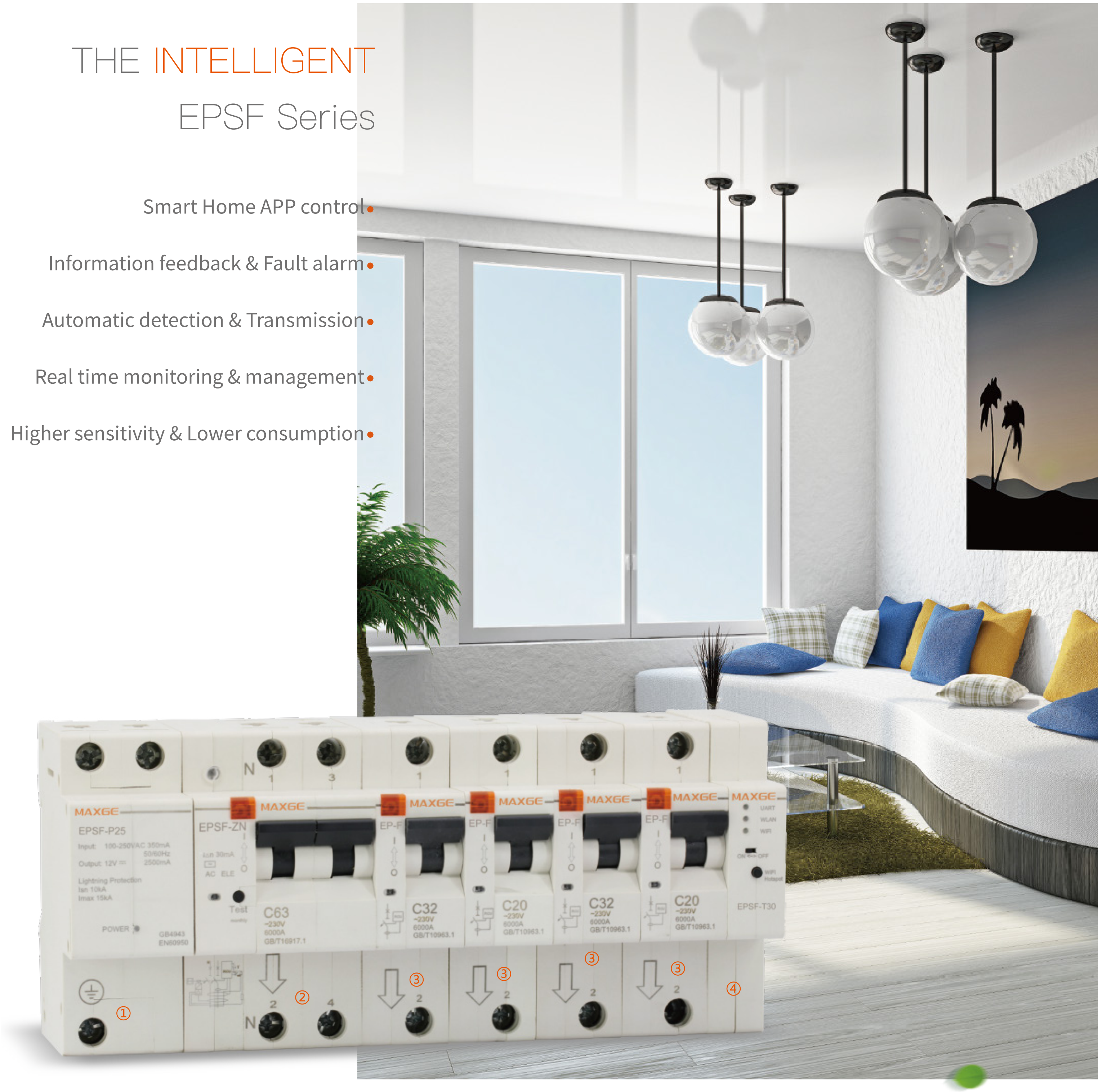
EPF125X-3P+N

EPF-63 Fuse Holder and Links	Code No.	Fuse link size	Link current	Packing unit (holder)	Packing unit (link)
 EPF125X-1P	EPF-125-1 EPF-125X-1	22 X 58mm	10A	12	50
			16A	12	50
			20A	12	50
			25A	12	50
			32A	12	50
			40A	12	50
			50A	12	50
			63A	12	50
			80A	12	50
			100A	12	50
			125A	12	50
 EPF125X-1P+N	EPF-125-1P+N EPF-125X-1P+N	22 X 58mm	10A	6	50
			16A	6	50
			20A	6	50
			25A	6	50
			32A	6	50
			40A	6	50
			50A	6	50
			63A	6	50
			80A	6	50
			100A	6	50
			125A	6	50
 EPF125X-2P	EPF-125-2 EPF-125X-2	22 X 58mm	10A	6	50
			16A	6	50
			20A	6	50
			25A	6	50
			32A	6	50
			40A	6	50
			50A	6	50
			63A	6	50
			80A	6	50
			100A	6	50
			125A	6	50
 EPF125X-3P	EPF-125-3 EPF-125X-3	22 X 58mm	10A	4	50
			16A	4	50
			20A	4	50
			25A	4	50
			32A	4	50
			40A	4	50
			50A	4	50
			63A	4	50
			80A	4	50
			100A	4	50
			125A	4	50
 EPF125X-4P	EPF-125-3+N EPF-125X-3+N	22 X 58mm	10A	3	50
			16A	3	50
			20A	3	50
			25A	3	50
			32A	3	50
			40A	3	50
			50A	3	50
			63A	3	50
			80A	3	50
			100A	3	50
			125A	3	50

MAXGE

THE INTELLIGENT
EPSF Series

- Smart Home APP control
- Information feedback & Fault alarm
- Automatic detection & Transmission
- Real time monitoring & management
- Higher sensitivity & Lower consumption



① Power modular with surge protection
② Intelligent mini circuit breaker
③ Intelligent mini circuit breaker with leakage protection
④ Intelligent communication modular

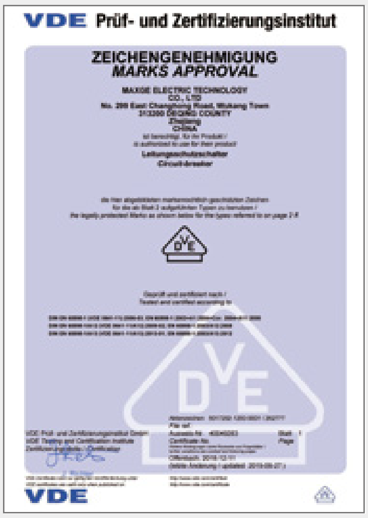
INTERNATIONAL CERTIFICATION

MAXGE

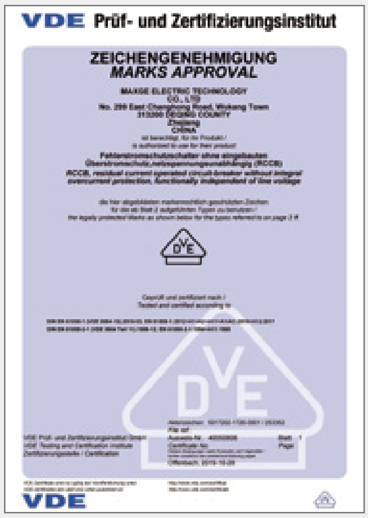
ISO-9001

ISO-14001

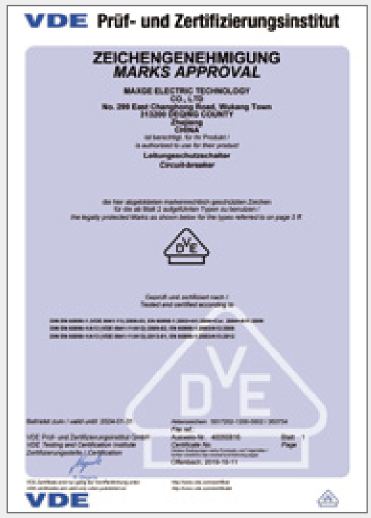
OHSAS-18001



VDE



VDE



VDE

KEMA

KEMA

KEMA

INTERNATIONAL CERTIFICATION

MAXGE


Zertifikat Certificate

TUV


Zertifikat Certificate

TUV


Zertifikat Certificate

TUV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CERTIFICATE

FOR EUROPEAN PRODUCT SAFETY

Low-voltage switchgear and controlgear - Part 2: Circuit-breakers

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CERTIFICATE

FOR EUROPEAN PRODUCT SAFETY

Residual current operated circuit-breaker with integral overcurrent protection (RCBO's)

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Test Verification of Conformity

Verification Number: 200100731SHA-V1

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BUREAU VERITAS Certification

Certificate of Conformity

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INMETRO


中国国家强制性产品认证证书

中国质量认证中心

CCC

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