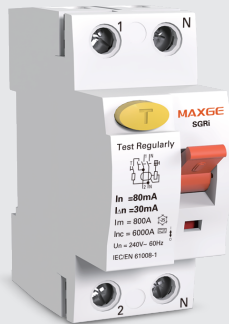


RCCB SERIES

Residual Current Circuit Breaker



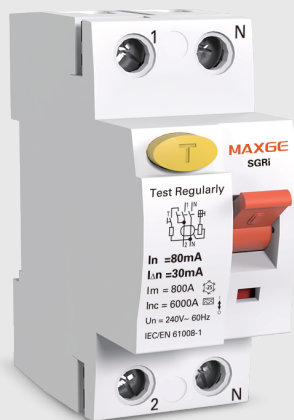
Products Overview of Residual Current Protective Devices

Product name	RCCB	
Product range	SGRi	
Product picture		
Standard	IEC/EN 61008-1	
Number of poles	2P(1P+N)	4P(3P+N)
Electrical characteristics		
Rated current(A) In	25~100	
Rated voltage(V)	AC 240	AC 415
Rated residual current(mA)	30,100,300	
Rated conditional short-circuit current(kA)	6,10	
Tripping curve	-----	
Residual current operating characteristic	AC,A,S	
Catalogue page NO.	06-10	

SGRi Series

Residual Current Circuit Breaker

Standard	EN/IEC61008-1
Rated conditional short-circuit current(kA)	6,10
Rated current(A), I_n	25,32,40,63,80,100
Number of poles	2P(1P+N),4P(3P+N)
Rated sensitivity currents(mA), $I_{\Delta n}$	30,100,300
Rated residual non-operating current	$0.5I_{\Delta n}$
Rated impulse withstand voltage $U_{imp}(kV)$	4
Rated voltage(V)	2pole AC 240
	4pole AC 415
Ambient temperature (°C)	-25~+40,Max.95%humidity
Residual current off--time at $I_{\Delta n}$	$\leq 0.1s$
Rated residual current making & breaking capacity, $I_{\Delta m}$	500A for $I_n=16,25,32,40A$
	630A for $I_n=63A$
	800A for $I_n=80A$
	1000A for $I_n=100A$
Type of trip	Electro-magnetic release
Terminal capacity	Cables up to 35mm ²
Protection degree	IP20
Installation	35mm DIN rail
Certification	  



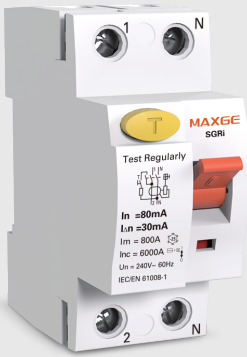
SGRi-2P



SGRi-4P

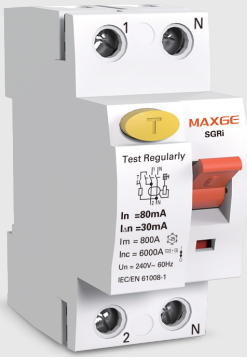
SGRi Series

Residual Current Circuit Breaker

	Rated current(A)	$I_{\Delta n}$	Type AC+S  + 	Packing unit
SGRi-2P   + 	25	30mA	SGRi-2/25/30-S	6
	32		SGRi-2/32/30-S	
	40		SGRi-2/40/30-S	
	63		SGRi-2/63/30-S	
	80		SGRi-2/80/30-S	
	100		SGRi-2/100/30-S	
	25	100mA	SGRi-2/25/100-S	
	32		SGRi-2/32/100-S	
	40		SGRi-2/40/100-S	
	63		SGRi-2/63/100-S	
	80		SGRi-2/80/100-S	
	100		SGRi-2/100/100-S	
	25	300mA	SGRi-2/25/300-S	
	32		SGRi-2/32/300-S	
	40		SGRi-2/40/300-S	
	63		SGRi-2/63/300-S	
	80		SGRi-2/80/300-S	
	100		SGRi-2/100/300-S	
SGRi-4P   + 	25	30mA	SGRi-4/25/30-S	3
	32		SGRi-4/32/30-S	
	40		SGRi-4/40/30-S	
	63		SGRi-4/63/30-S	
	80		SGRi-4/80/30-S	
	100		SGRi-4/100/30-S	
	25	100mA	SGRi-4/25/100-S	
	32		SGRi-4/32/100-S	
	40		SGRi-4/40/100-S	
	63		SGRi-4/63/100-S	
	80		SGRi-4/80/100-S	
	100		SGRi-4/100/100-S	
	25	300mA	SGRi-4/25/300-S	
	32		SGRi-4/32/300-S	
	40		SGRi-4/40/300-S	
	63		SGRi-4/63/300-S	
	80		SGRi-4/80/300-S	
	100		SGRi-4/100/300-S	

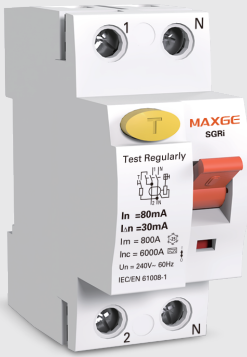
SGRi Series

Residual Current Circuit Breaker

	Rated current(A)	$I_{\Delta n}$	Type A+S 	Packing unit
SGRi-2P  	25	30mA	SGRi-2/25/30-A-S	6
	32		SGRi-2/32/30-A-S	
	40		SGRi-2/40/30-A-S	
	63		SGRi-2/63/30-A-S	
	80		SGRi-2/80/30-A-S	
	100		SGRi-2/100/30-A-S	
	25	100mA	SGRi-2/25/100-A-S	
	32		SGRi-2/32/100-A-S	
	40		SGRi-2/40/100-A-S	
	63		SGRi-2/63/100-A-S	
	80		SGRi-2/80/100-A-S	
	100		SGRi-2/100/100-A-S	
	25	300mA	SGRi-2/25/300-A-S	
	32		SGRi-2/32/300-A-S	
	40		SGRi-2/40/300-A-S	
	63		SGRi-2/63/300-A-S	
	80		SGRi-2/80/300-A-S	
	100		SGRi-2/100/300-A-S	
SGRi-4P  	25	30mA	SGRi-4/25/30-A-S	3
	32		SGRi-4/32/30-A-S	
	40		SGRi-4/40/30-A-S	
	63		SGRi-4/63/30-A-S	
	80		SGRi-4/80/30-A-S	
	100		SGRi-4/100/30-A-S	
	25	100mA	SGRi-4/25/100-A-S	
	32		SGRi-4/32/100-A-S	
	40		SGRi-4/40/100-A-S	
	63		SGRi-4/63/100-A-S	
	80		SGRi-4/80/100-A-S	
	100		SGRi-4/100/100-A-S	
	25	300mA	SGRi-4/25/300-A-S	
	32		SGRi-4/32/300-A-S	
	40		SGRi-4/40/300-A-S	
	63		SGRi-4/63/300-A-S	
	80		SGRi-4/80/300-A-S	
	100		SGRi-4/100/300-A-S	

SGRi Series

Residual Current Circuit Breaker

	Rated current(A)	I _{Δn}	Type AC 	Type A 	Packing unit
 SGRi-2P	25	30mA	SGRi-2/25/30	SGRi-2/25/30-A	6
	32		SGRi-2/32/30	SGRi-2/32/30-A	
	40		SGRi-2/40/30	SGRi-2/40/30-A	
	63		SGRi-2/63/30	SGRi-2/63/30-A	
	80		SGRi-2/80/30	SGRi-2/80/30-A	
	100		SGRi-2/100/30	SGRi-2/100/30-A	
	25	100mA	SGRi-2/25/100	SGRi-2/25/100-A	
	32		SGRi-2/32/100	SGRi-2/32/100-A	
	40		SGRi-2/40/100	SGRi-2/40/100-A	
	63		SGRi-2/63/100	SGRi-2/63/100-A	
	80		SGRi-2/80/100	SGRi-2/80/100-A	
	100		SGRi-2/100/100	SGRi-2/100/100-A	
	25	300mA	SGRi-2/25/300	SGRi-2/25/300-A	
	32		SGRi-2/32/300	SGRi-2/32/300-A	
	40		SGRi-2/40/300	SGRi-2/40/300-A	
	63		SGRi-2/63/300	SGRi-2/63/300-A	
	80		SGRi-2/80/300	SGRi-2/80/300-A	
	100		SGRi-2/100/300	SGRi-2/100/300-A	
 SGRi-4P	25	30mA	SGRi-4/25/30	SGRi-4/25/30-A	3
	32		SGRi-4/32/30	SGRi-4/32/30-A	
	40		SGRi-4/40/30	SGRi-4/40/30-A	
	63		SGRi-4/63/30	SGRi-4/63/30-A	
	80		SGRi-4/80/30	SGRi-4/80/30-A	
	100		SGRi-4/100/30	SGRi-4/100/30-A	
	25	100mA	SGRi-4/25/100	SGRi-4/25/100-A	
	32		SGRi-4/32/100	SGRi-4/32/100-A	
	40		SGRi-4/40/100	SGRi-4/40/100-A	
	63		SGRi-4/63/100	SGRi-4/63/100-A	
	80		SGRi-4/80/100	SGRi-4/80/100-A	
	100		SGRi-4/100/100	SGRi-4/100/100-A	
	25	300mA	SGRi-4/25/300	SGRi-4/25/300-A	
	32		SGRi-4/32/300	SGRi-4/32/300-A	
	40		SGRi-4/40/300	SGRi-4/40/300-A	
	63		SGRi-4/63/300	SGRi-4/63/300-A	
	80		SGRi-4/80/300	SGRi-4/80/300-A	
	100		SGRi-4/100/300	SGRi-4/100/300-A	

SGRi Series

Residual Current Circuit Breaker

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	2000	1000	120

Breaking time of residual current

Max.breaking time						
Leakage type	In(A)	I _{Δn} (A)	I _{Δn}	2 I _{Δn}	5 I _{Δn}	5-500A
A,AC	25,32,40,63,80,100	0.03,0.1,0.3	0.1s	0.08s	0.04s	0.04s
S		0.1,0.3	0.13s-0.5s	0.06s-0.2s	0.05s-0.15s	0.05s-0.15s

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	
40	10	
63	16	
80	25	
100	35	

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

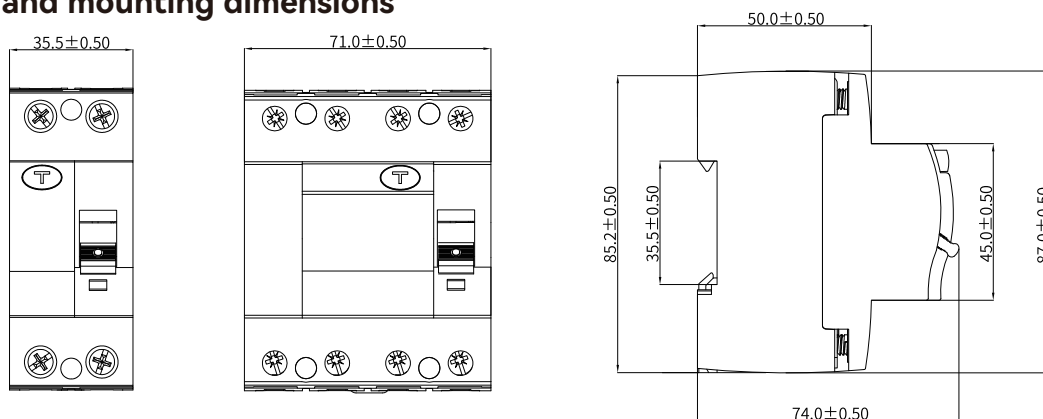
Simple and solid fixing to a 35 mm mounting rail in compliance with EN 60715

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

Type S : Selective type, RCD with non-operation time of atleast 40 ms

- High resistance to peak current up to 5 kA (IEC standards require 3 kA).
- Meets conditions for tripping time 0.4 or 0.2 s (automatic disconnection).
- Type S is used as main circuit breaker or in combination with class II (C) surge voltage protectors.
- Significantly reduces unwanted trippings.

Overall and mounting dimensions



SGRi