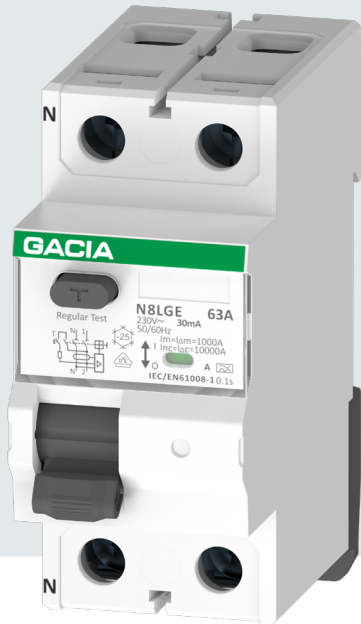


Residual Current Circuit Breaker

N8LGE,10kA

- Residual Current Circuit Breaker according to IEC/EN 61008-1
- Electronic type
- Cond. rated short circuit strength I_{nc} 10kA
- 2 and 4-pole versions
- Rated residual current 10,30,100,300 and 500mA
- Rated current up to 100A
- Rated operational voltage 230/400V AC
- AC, A ,S and G types



N8LGE residual current circuit breaker is a safety device that quickly breaks an electrical circuit to protect equipment, they are designed to disconnect the conducting wires ("trip") quickly enough to potentially prevent serious injury to humans, and to prevent damage to electrical devices.

They are common in domestic, commercial and industrial application.

Type Key

N	8	LG	E	2P	25A	30mA
Product series	Design code	Product category	Structure code	Poles	Rated current	Rated residual current
N	8	RCCB-100	Electronic	2P, 4P	25-100A	10-500mA

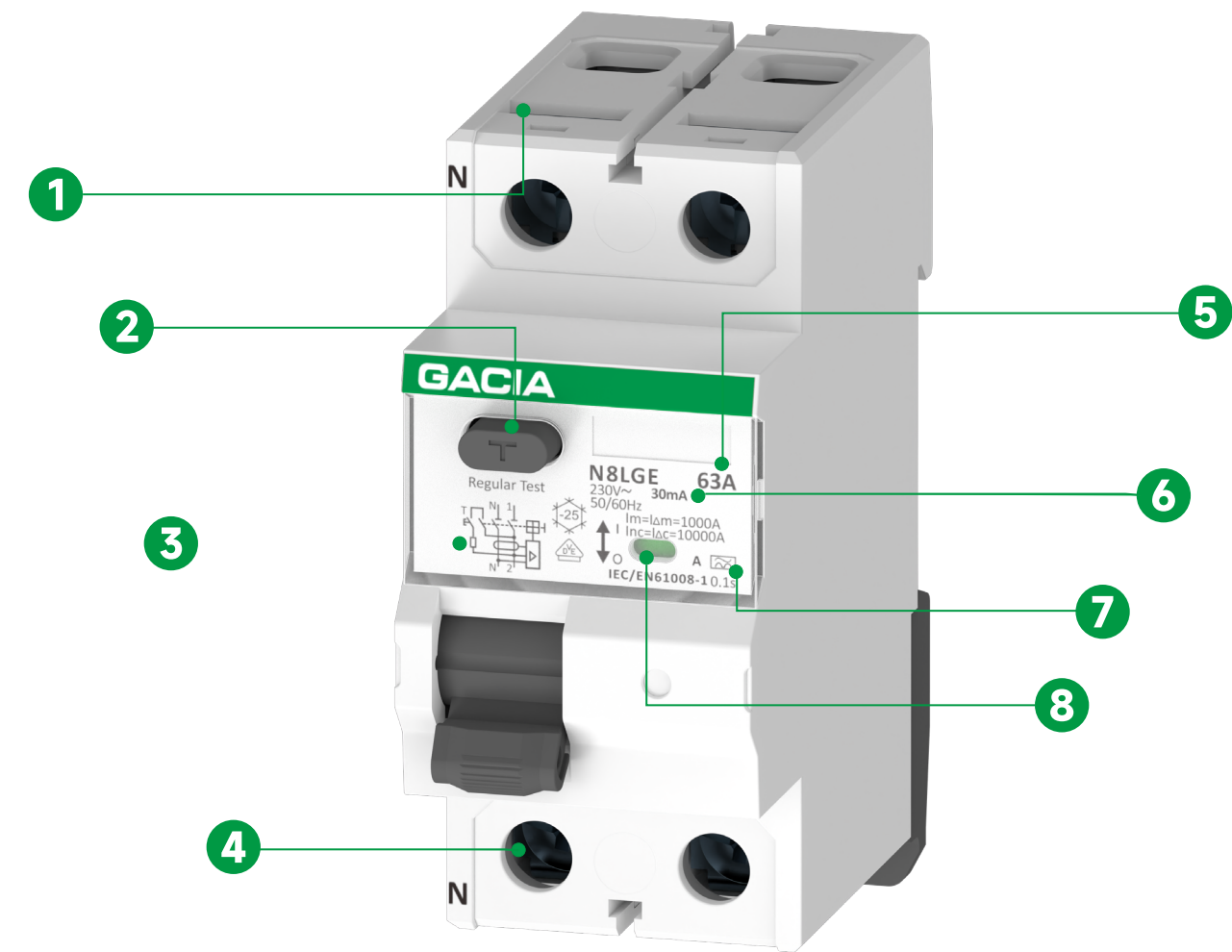
Certification Marks



Residual Current Circuit Breaker

N8LGE,10kA

Product Tips



- 1 Busbar interface

2 Test button

3 Electronic circuit diagram

4 Neutral line interface
- 5 Rated current up to 100A

6 Variants from 10 to 500 mA $I_{\Delta n}$ available

7 Sensitivity to residual current A

8 Contacts position indication window

Technical Data

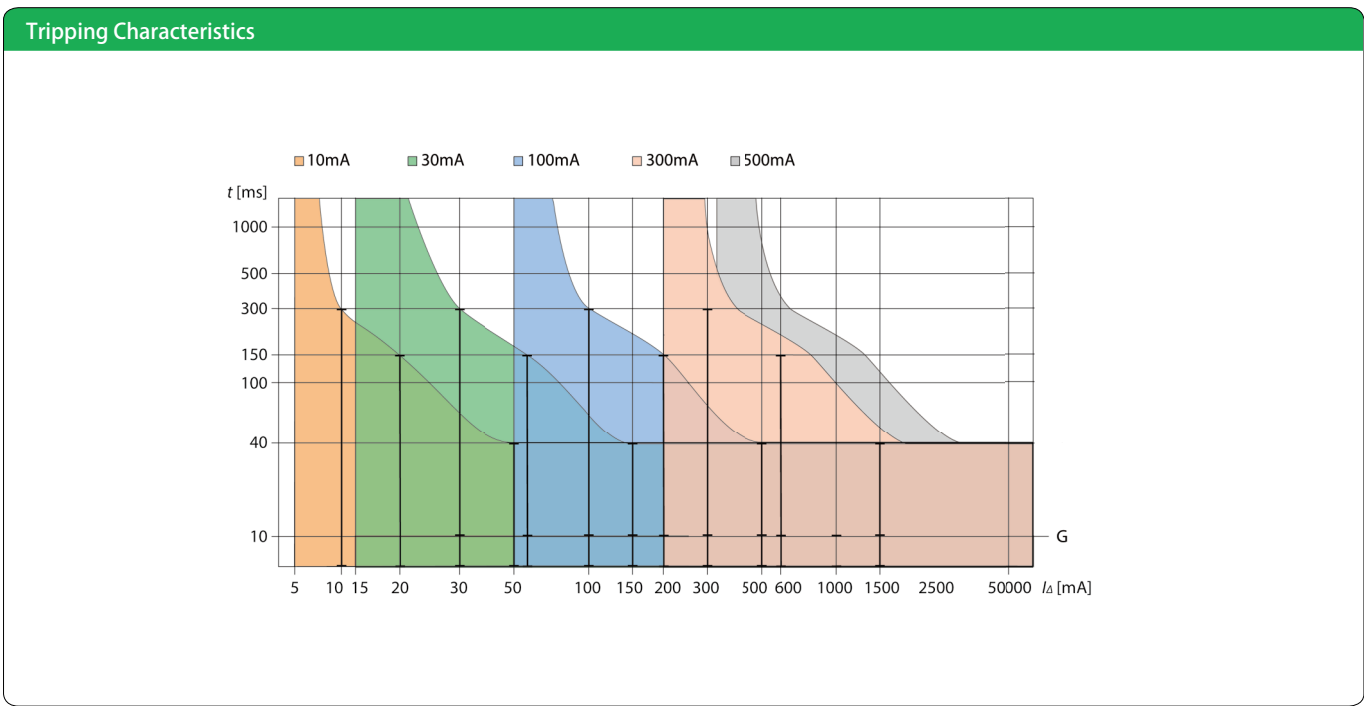
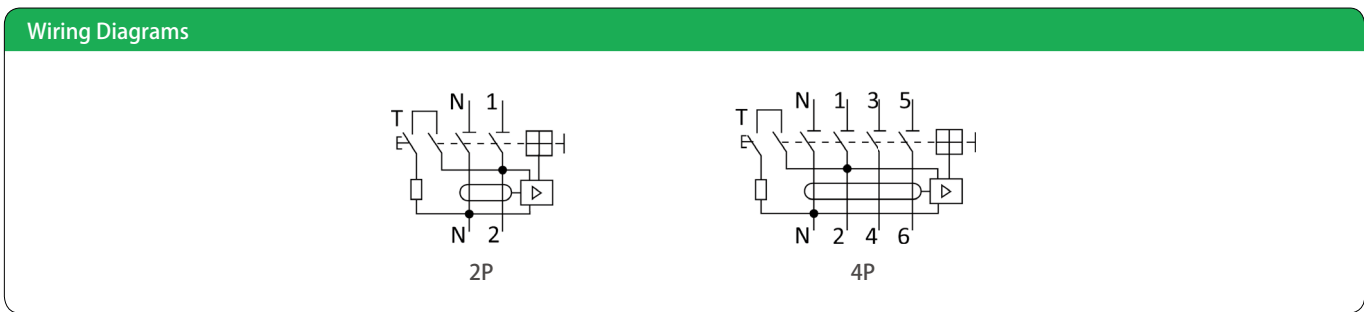
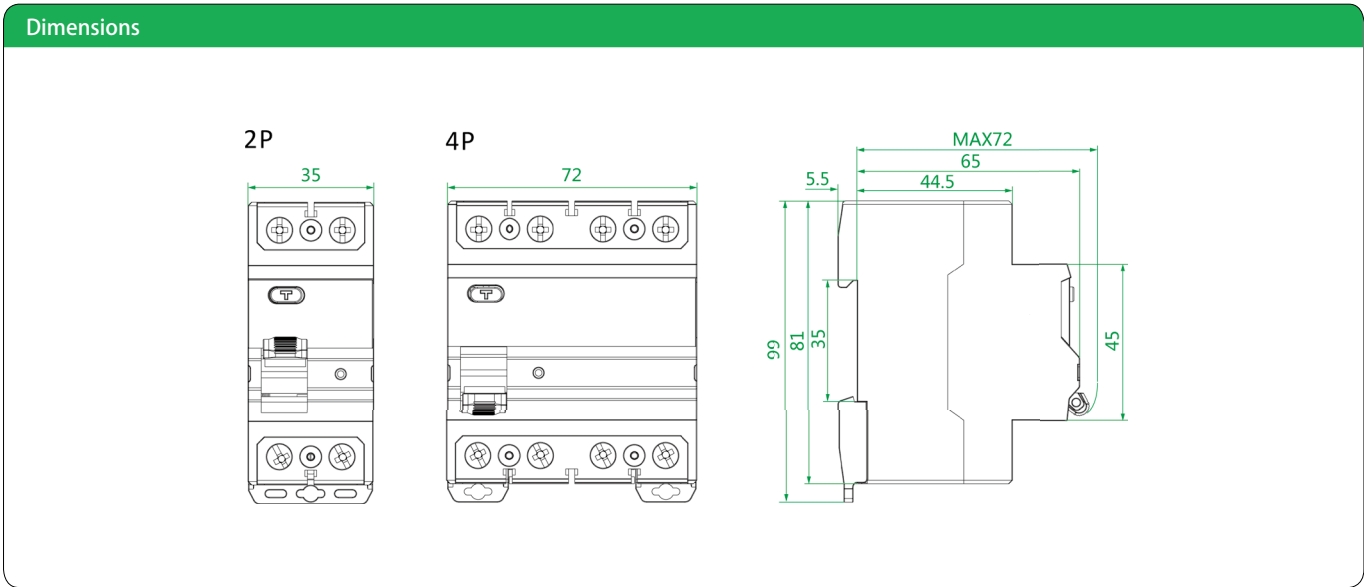
Electrical Features	
International standard	IEC/EN 61008-1
Poles	2P, 4P
Rated current	25, 40, 63, 80, 100A
Rated residual current $I_{\Delta n}$	10, 30, 100, 300, 500mA
Residual current protection type	Electronic
Conditional short circuit strength I_{nc}	10kA
Rated operational voltage U_e	230/400V AC
Voltage range of the test button T	195.5 - 253V AC (2P) / 195.5 - 440V AC (4P)
Sensitivity to residual current	AC type - AC residual current A type - residual AC and pulsating DC current
Time characteristic	AC, A - undelayed type G - delay (insensitivity) 10 - 300 ms S - delay (insensitivity) 130 - 500 ms
Rated insulated voltage U_i	500V AC
Rated impulse withstand voltage U_{imp}	4kV
Dielectric test voltage	2.5kV
Mechanical service life	10000 operation cycles
Electrical service life	4000 operation cycles
Back-up fuse for overload	
In=25A	max, 25AgG
In=40A	max, 32AgG
In=63A	max, 50AgG
In=80A	max, 80AgG
In=100A	max, 100AgG
Back-up fuse for short circuit	
In=25A	max, 63AgG
In=40A	max, 63AgG
In=63A	max, 63AgG
In=80A	max, 80AgG
In=100A	max, 100AgG
Rated residual making and breaking capacity $I_m / I_{\Delta m}$	
In=25A	500A
In=40A	500A
In=63A	630A
In=80A	800A
In=100A	1000A

Installation Parameters	
Degree of protection (IP)	IP20, IP40 (when fitted)
Operating ambient temperature	-25°C ~+70°C
Terminal connection type	Cable/Busbar
Connectable conductor cross section	1-25mm ²
Mounting	IEC/EN 60715 top-hat rail 35mm
Fastening torque of terminals	2-3.5N.m
Pollution degree	2
Altitude	≤ 2000m
Relative humidity	≤ 95%
Resistance to humidity and heat	Class 2
Installation class	III

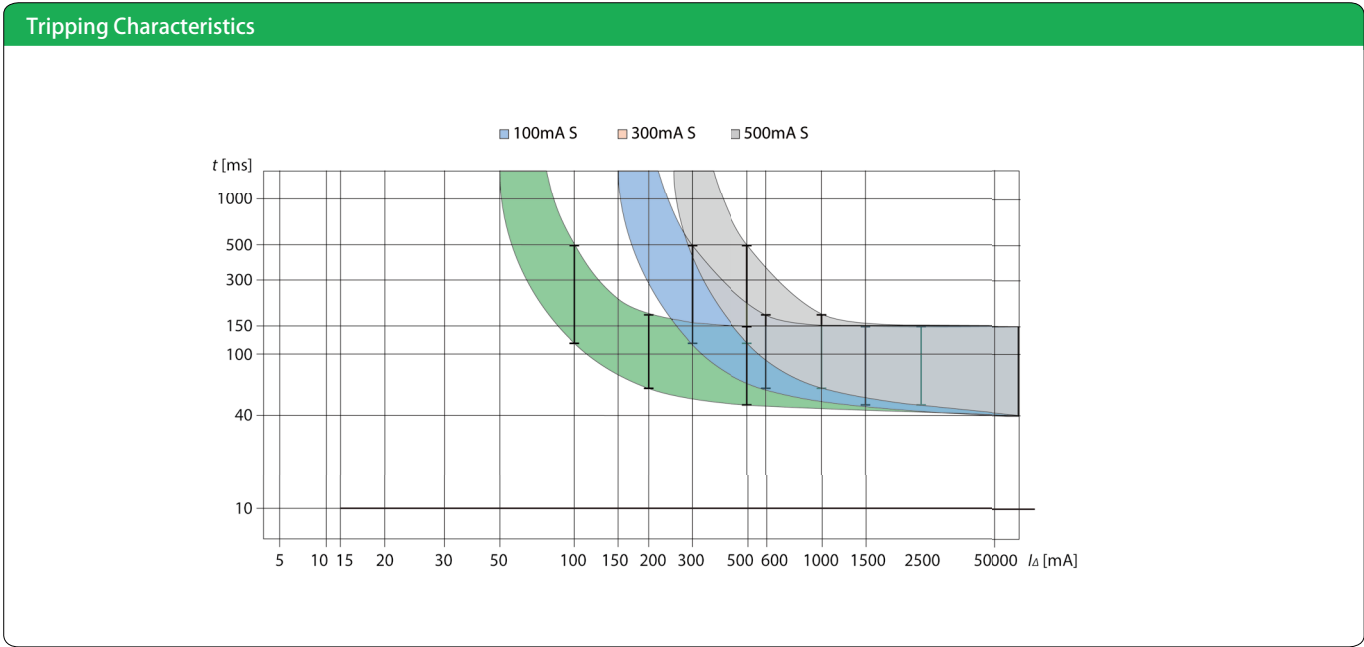
Residual Current Circuit Breaker

N8LGE,10kA

Technical Data



Technical Data



Power Loss

I _n	I _Δ	2P	4P
25A	10mA	3.4W	7.2W
	30mA	3.4W	7.2W
	100mA	3.4W	7.2W
	300mA	3.4W	7.2W
	500mA	3.4W	7.2W
40A	30mA	7.2W	15.3W
	100mA	7.2W	15.3W
	300mA	7.2W	15.3W
	500mA	7.2W	15.3W
63A	30mA	15W	24W
	100mA	15W	24W
	300mA	15W	24W
	500mA	15W	24W