Current-Operated Circuit Breaker

IEC61009-1, GB/T16917.1

GYR9N RCBO

Scope of application

GYR9N residual current operated circuit breaker is suitable for AC 50Hz, rated voltage 240V, rated current up to 40A. When people come to electric shock or the leakage current of the network exceeds the specified value, it can quickly cut off the faulty power supply in very short time to protect the safety of people and electrical equipment. At the same time, it can protect the overload or short circuit of the line, and can also be used for infrequent switching of the line. It's suitable for terminal distribution lines in commercial office buildings, residential and general industrial use.

Compliant with : GB/T 16917.1, IEC 61009-1



Technical Parameter

Electrical Characteristics

Classification		Protection type		Poles	Rated current (In)	Rated sensitivity (I△n)	Sensitivity	Rated voltage (Ue)
AC	A	ELE	ELM				Instantaneous reaction	
■	■	■	■	1P+N	6、10、16、20、25、32、40A	30、100、300mA	■	240V~

Rated insulation voltage (Ui)	Rated frequency	Rated impulse withstand voltage (Uimp)	Rated residual making and breaking capacity I△m	rated residual connecting and breaking capacity Inc=I△c	Rated residual non-operating current	Break time		
						Residual current I△=1I△n	Residual current I△=2I△n	Residual current I△=5I△n
500V	50/60Hz	4kV	500A	6kA	0.5I△n	0.1s	0.08s	0.04s

Mechanical properties

Mechanical life /Electric life	Protection class		Ambient temperature	Storage temperature
	Direct install	In distribution box		
4000	Ip20	Ip40	-25°C+40°C	-25°C+60°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection
Copper/Hard Wire	Cord/Hoop Terminals				
1-25mm²	1-16mm²	■	■	■	Top and bottom(ELM) Top line(ELE)

IEC61009-1, GB/T16917.1

GYR8N RCBO

Scope of application

GYR8N residual current circuit breaker is suitable for AC 50Hz, rated voltage 240V, rated current up to 40A. When people come to electric shock or the leakage current of the network exceeds the specified value, it can quickly cut off the faulty power supply in very short time to protect the safety of people and electrical equipment. At the same time, it can protect the overload or short circuit, and infrequent switching of the line. It's suitable for terminal distribution lines in commercial office buildings, residential and general industrial use.

Compliant with : GB/T 16917.1, IEC 61009-1



Technical Parameter

Electrical Characteristics

Classification		Protection type		Poles	Rated current (In)	Rated sensitivity (I△n)	电子式	Rated voltage (Ue)
AC	A	ELE	ELM					
■	■	■	——	1P+N	6、10、16、20、25、32、40A	30、100、300mA	■	240V~

Rated insulation voltage (Ui)	Rated frequency	Rated impulse withstand voltage (Uimp)	Rated residual making and breaking capacity I△m	Rated residual connecting and breaking capacity Inc=I△c	Rated residual non-operating current	Break time		
						Residual current I△=1I△n	Residual current I△=2I△n	Residual current I△=5I△n
400V	50/60Hz	4kV	500A	4.5kA	0.5I△n	0.1s	0.08s	0.04s

Mechanical properties

Mechanical life /Electric life	Protection class		Ambient temperature	Storage temperature
	Direct install	In distribution box		
2000	Ip20	Ip40	-25°C+40°C	-25°C+60°C

Other characteristics

Wiring size		Contact Status Indication	Fault Indication	Circuit identification	Connection
Copper/Hard Wire	Cord/Hoop Terminals				
1-16mm²	1-10mm²	——	——	■	Top and bottom

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Single Module RCBO

IEC61009-1, EN61009-1

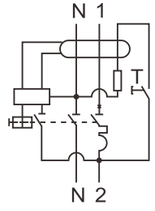
GYR10N-40 RCBO

Technical Data

- Ratedcurrent:6A,8A,10A,13A,16A,20A,25A,32A,40A
- Rated voltage:240V(230V)~
- Rated frequency:50/60Hz
- Number of pole:1P+N
- Module size:18mm
- Curve type:B&C Curve
- Breaking capacity:6000A
- Rated residual operating current:
- □ 10mA,30mA,100mA,300mA Type A and AC
- Optimum operating temperature:-25°C to 40°C
- Terminal Tightening torque:1.2N-m^2
- Terminal Capacity(top):16mm^2
- Terminal Capacity(bottom):16mm
- Electro-mechanical endurance:4000 cycles
- Mounting:35mm DinRail
- Line and Load reversible:
- □ Suitable Busbar:PIN Busbar



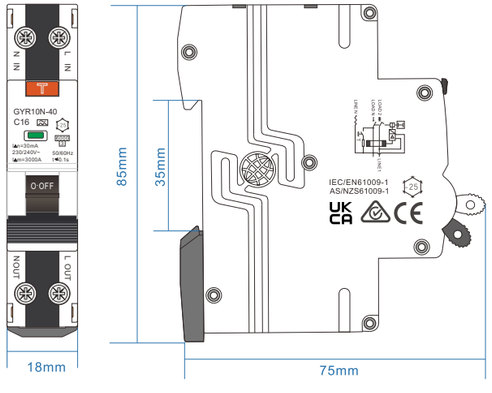
Wiring Diagram



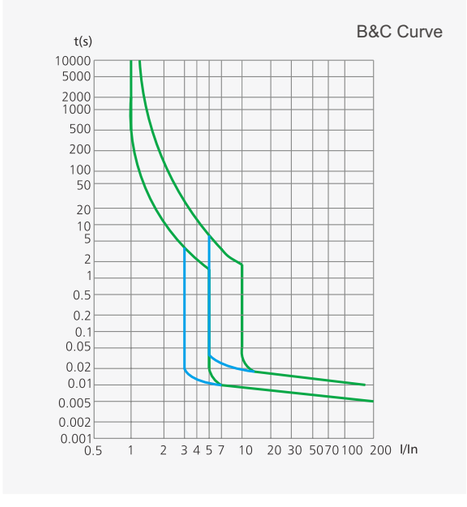
Compliance

- Ratedcurrent:6A,8A,10A,13A,16A,20A,25A,32A,40A
- Rated voltage:240V(230V)~
- Rated frequency:50/60Hz
- Number of pole:1P+N
- Module size:18mm

Compliance



The tripping characteristic curves



IEC61009-1, GB/T16917.1

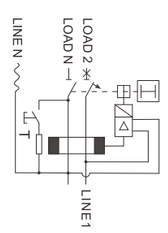
GYR10N-50 RCBO

Technical Data

- Ratedcurrent:6A,8A,10A,13A,16A,20A,25A,32A,40A
- Rated voltage:240V(230V)~
- Rated frequency:50/60Hz
- Number of pole:1P+N
- Module size:18mm
- Curve type:B&C Curve
- Breaking capacity:6000A
- Rated residual operating current:
- □ 10mA,30mA,100mA,300mA Type A and AC
- Optimum operating temperature:-25°C to 40°C
- Terminal Tightening torque:1.2N-m^2
- Terminal Capacity(top):16mm^2
- Terminal Capacity(bottom):16mm
- Electro-mechanical endurance:4000 cycles
- Mounting:35mm DinRail
- Line and Load reversible:
- □ Suitable Busbar:PIN Busbar



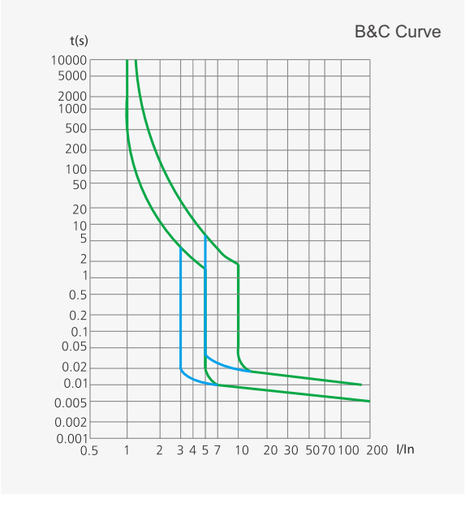
Wiring Diagram



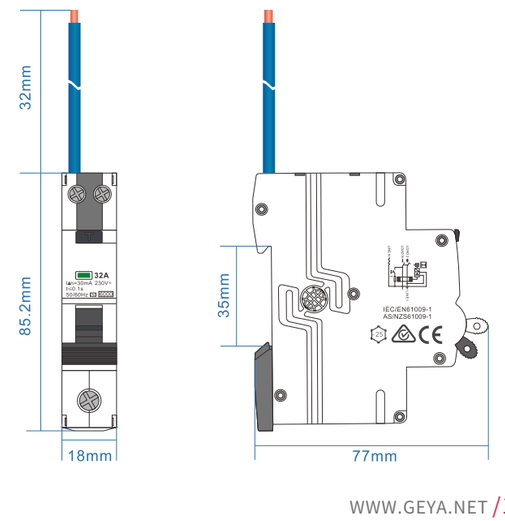
Compliance

- IEC/EN/AS/NZS61009.1:2015
- ESV Compliant

The tripping characteristic curves



Compliance



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