

General

GYL9 earth leakage circuit breaker is suitable to the circuit of AC 50/60Hz, rated voltage 230V for 2 poles and 400V for 4 poles, and rated current up to 100A. When people come across the electric shock or the leakage current of the electrical network exceeds the fixed value, this product can cut off the fault current in short period so as to protect person and the equipments. It also can be used in the infrequent starting of the circuit and motors. The circuit breaker is suitable to industry, commerce, high-rise building, household and other kinds of places.

- In compliance with IEC/EN61008.1.
- Bilateral busbar wiring capabilities to adapt to the wider use of premises.
- Maximum connecting ability of 35mm², wiring torque 3.5N*m, applicable to a variety of installing equipment.
- Protection class: IP20.

Technical Data

Electrical features	
Residual current protection type	Electromagnetic/Electronic
Residual current working type	A C、A、A-SI
Rated current	25、40、63、80、100A
Poles	2P 4P
Rated voltage U _e	2P:230V~ 4P:400V~
Insulation voltage U _i	500V
Rated frequency	50/60Hz
Rated sensitivity I _{Δn}	0.01A 0.03A 0.1A 0.3A
Rated residual making and breaking capacity I _m	500(I _n =25-40A) 630(I _n =63A)
Short-circuit current I _{nc} =I _{Δc}	10000A
SCPD fuse	10000
Break time under I _{Δn}	≤0.1S
Rated impulse withstand voltage(1.2/50)U _{imp}	6000V
Dielectric test voltage at and ind. Freq. for 1min	2.5kV
Electrical life and Mechanical life	4000
Pollution degree	2
Installation	
Fault current indicator	NO
Protection Class	IP20
Ambient temperature(with daily average ≤35℃)	-5~+40℃
Storage temperature	-25+70℃
Terminal connection type	Cable/U-type busbar/Pin-type busbar
Terminal size top/bottom for cable	35mm ² 18-3
Tightening torque	3.5 N*m 22
Mounting	On DIN rail FN 60715 (35mm) by means of fast clip device
Connection	From top and bottom

Detection Waveform Type and Classification

Waveform definition	Waveform	AC Type	A Type	A-SI Type	Tripping current
Sinusoidal exchange		✓	✓	✓	0.5~1 I _{Δn}
Pulsating half wave		X	✓	✓	0.5~1.4 I _{Δn}
Pulsating Half wave + direct current (6mA)		X	✓	✓	max1.4I _{Δn} +6mA
Pulsating Half wave + direct current (10mA)		X	X	✓	max1.4I _{Δn} +10mA
High frequency (up to 1KHz)		X	X	X	150Hz, 0.5~2.4 I _{Δn}
		X	X	X	400Hz, 0.5~6 I _{Δn}
		X	X	X	1000Hz, 1~14 I _{Δn}
Two phase rectified full wave		X	X	X	0.5~2 I _{Δn}
Three phase rectified full wave					
Direct current					

Connection

Rated current	Nominal Section Area of Copper Wire(mm ²)
1~6A	1
10A	1.5
16、20A	2.5
25A	4
32A	6
40、50A	10
63A	16
80A	25
100A	35

Mounting & dimension

