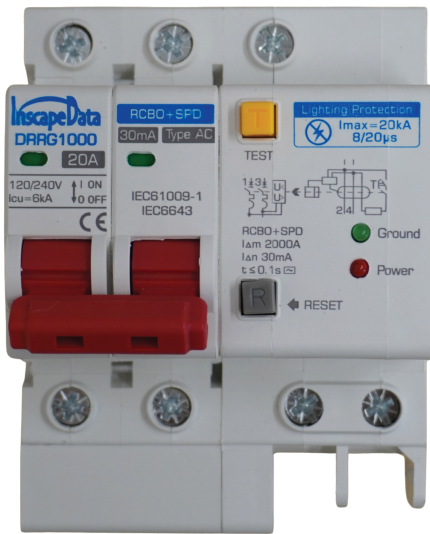


DRRG1000 DIN-Rail GFCI Receptacle

DRRG1000 Ground Fault Circuit Breaker with Voltage Surge Arrester Protection,
20 Amp AC 120V-240V, DIN Rail Mount Residual Current Circuit Breaker 20A

PRODUCT SPECIFICATIONS



Power Indication

Green - Power OFF / Red - Power On

Leakage Test Button

Need to press once a month

Reset Button

Press before switch on / in

LED Status Indication

Red + Green light on - normal

Red Light off - surge protection failure

Green light off - not properly grounded

Key Features

- 5 Protection Functions: Type 2 20kA Surge protection, 30mA Class AC ground fault protection, Overcurrent protection, Short Circuit Protection, circuit isolation
- Power and Ground LED light to indicate status of the breaker, T button to test the ground fault protection function, and visualization window to show if the breaker is on or off
- Suitable for 120V/240VAC circuit, Applicable to US 110V and 220V voltage

Parameter	Value
Rated Current	20A
Poles	L+N+PE or L L PE
Rated Voltage Ue	120V/240V AC
Insulation Voltage Ui	500V
Rated Breaking Capacity	6kA
Rated Impulse Withstand Voltage (1.2/50) Uimp	4kV
Dielectric Test Voltage At And Ind. Freq. For 1min	2kV
Residual Current Working Type	Type AC
Residual leakage tripping current	30mA/100mA/300mA
Thermo-Magnetic Release Characteristic	C-Curve (5-10In)
Electrical Life	4000
Mechanical Life	10000
Installation	35MM DIN Rail or M3 Screw Side Mount
Reference Temperature For Setting Of Thermal Element	30°C
Ambient Temperature	-5°C~+40°C
Terminal Connection Type	Phillips Screws
Adapter Cable	6-63A 1.5-16mm ² 16-5AWG
Tightening Torque	2.0N.M
Altitude	2000Meter

SURGE PROTECTION PARAMETERS

Parameter	Value
Max Discharge Current In 8/20 μ s	20kA
Nominal Discharge Current In 8/20 μ s	10kA
Response time t(ns)	< 25
Ground terminal	The ground terminal links the stranded copper conductors: 6mm ²

RCD TYPES

Type AC - General purpose use: RCD can detect and respond to AC sinusoidal wave only.

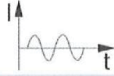
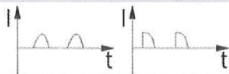
OPERATING INSTRUCTIONS

1. Before use, press the [R] button, and then lift the switch handle upward to power on. (Power indicator red, LED red light, green light.)
2. If the [R] button is not pressed before use, the switch handle will trip and automatically fall. The circuit cannot be connected.
3. When the circuit is not connected, the [T] test button cannot work.
4. After connecting the circuit, press the [R] button, open the switch handle upward, switch on the power, and press the [T] button. The circuit is disconnected, indicating that the leakage circuit is normal.

RESIDUAL CURRENT AND CURRENT WAVEFORM THAT CAN TRIP

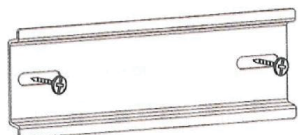
Trip	Residual Current Type	Waveform Description	Trip Current Range
Yes	AC Residual Current	Sine wave AC residual current	$0.5 I_{\Delta n} \sim I_{\Delta n}$
No	Pulsating DC Residual Current	Pulsating DC waveform	$0.35 \sim 1.4 I_{\Delta n}$ (or $2 I_{\Delta n}$) (Current lag Angle 0°) $0.25 \sim 1.4 I_{\Delta n}$ (or $2 I_{\Delta n}$) (Current lag Angle 90°) $0.11 \sim 1.4 I_{\Delta n}$ (or $2 I_{\Delta n}$) (Current lag Angle 135°)
No	Current Stacking 6mA Pulsating Direct Current	Pulsating direct current with 6mA stacking	$1.4 I_{\Delta n}$ (or $2 I_{\Delta n}$) + 6mA

Original waveform table is inserted below as an image for visual reference.

Residual Current and Current Waveform That Can Trip			Trip Current Range
✓	AC Residual Current		$0.5 I_{\Delta n} \sim I_{\Delta n}$
✗	Pulsating DC Residual Current		$0.35 \sim 1.4 I_{\Delta n}$ (or $2 I_{\Delta n}$) (Current lag Angle 0°) $0.25 \sim 1.4 I_{\Delta n}$ (or $2 I_{\Delta n}$) (Current lag Angle 90°) $0.11 \sim 1.4 I_{\Delta n}$ (or $2 I_{\Delta n}$) (Current lag Angle 135°)
✗	Current Stacking 6mA Pulsating Direct Current		$1.4 I_{\Delta n}$ (or $2 I_{\Delta n}$) + 6mA

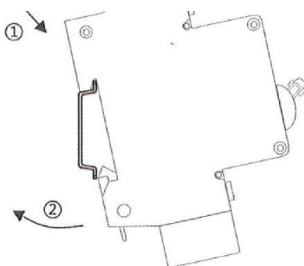
INSTALLATION INSTRUCTIONS

DIN Rail	Installation	Dismounting
Install the 35mm DIN rail horizontally in a stable environment.	1. Hang the circuit breaker slot on the DIN rail. 2. Push the lower end of the circuit breaker into the DIN rail.	1. Pull the buckle. 2. Turn the circuit breaker out of the DIN rail.



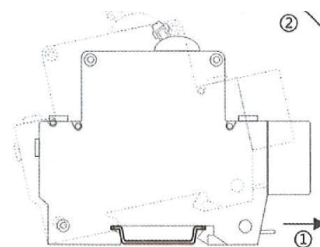
DIN Rail

Install the 35mm DIN rail horizontally in a stable environment.



Installation

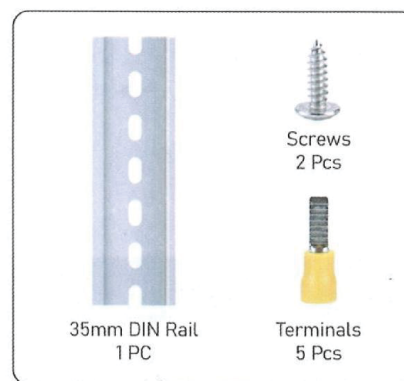
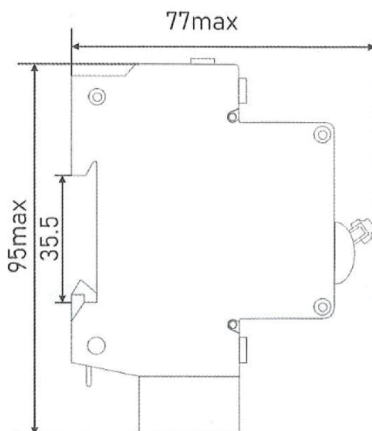
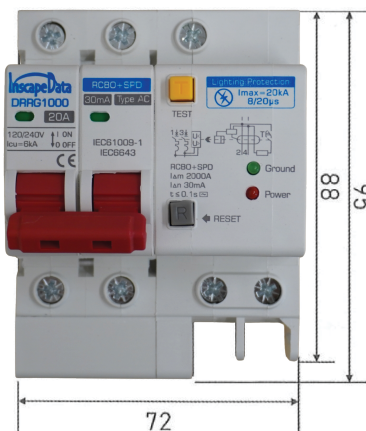
- ① Hang the circuit breaker slot on the DIN rail
- ② Push the lower end of the circuit breaker into the DIN rail



Dismounting

- ① Pull the buckle
- ② Turn the circuit breaker out of the DIN rail

DIMENSIONS & ACCESSORIES



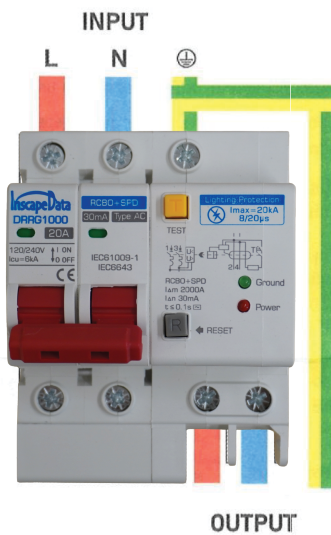
For retail package

Parameter	Value
Front width	72 mm
Front height	88 mm / 95 mm
Side depth	77 max
Side height	95 max
DIN rail area	35.5 mm
Accessories	35mm DIN Rail - 1 PC; Screws - 2 Pcs; Terminals - 5 Pcs

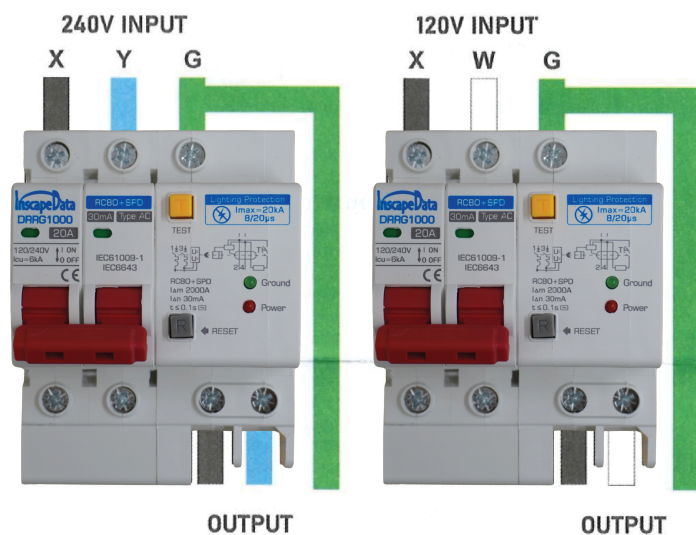
WIRING INSTRUCTIONS

Region / Method	Input Labels	Output
European Wiring Methods: 230V	L, N, Ground	Output terminals shown at bottom of diagram
America Wiring Methods: 240V	X, Y, G	Output terminals shown at bottom of diagram
America Wiring Methods: 120V	X, W, G	Output terminals shown at bottom of diagram

European Wiring Methods: 230V



American Wiring Methods: 120V/240V



WARRANTY CONDITIONS

Warranty

3 years from the date of purchase of the product

Warranty Regulations

1. Any damage to the equipment due to improper use will also result in the automatic termination of the warranty period.
2. Within 7 days of receiving the product, the damage caused by express transportation can be returned to Amazon for replacement. Or contact the DIHOOL seller for low-cost recycling.
3. Within 365 days of receiving the product, if there is any quality problem, you can contact us through the Amazon for replacement.