Application

RDX16L series electromagnetic residual current operated circuit breaker, is mainly applied to the circuit of AC50Hz, rated working voltage 230V or 400V, rated current up to 63A for protecting human indiretly against electric leakage, and for preventing the fire result from the ground fault due to the damaged insulation of the equipment or circuit.
RDX16L electromagnetic residual current operated circuit breaker's leakage protection preformance do not need the accessory power supply, and is not inflenced by the power grid voltage.



Model No.

RD X 16 L - 63

- 63 — Frame size rated current (A)
- L — Residual current operated protection
- 16 — Design No.
- X — Miniature circuit breaker
- RD — Company Code



Normal working condition and Installation environment

3.1 Temperature: no higher than +40 ºC , and no lower than -5 ºC, and the average temperture no higher than +35 ºC.
3.2 Altitudeof Installation location no more than 2000m.
3.3 The relative humidity: no more than 50%, when Temperature is +40 ºC. The product can withstand the higher humidity under lower temperature, for instance, when temperature at +20ºC, the product can withstand 90% relative humidity.
The condensation that happened because of temperature changes should be taken care in special measurements
3.4 Class of pollution : 2 Class
3.5 Electronicmagnetic environment: B
3.6 The megnetic field of the installation place should not bigger than the earth magnetic field in any direction.
3.7 Installation method: TH35-7.5, distribution box or cabinet.
3.8 Installation: The angle between the vertical plane and installation plane no more than 5.
3.9 Installation condition: the installation location should have no heavy impact and vibration, and in the medium that no danger (explosion).
3.10 Installation type : 2 ,3 Class

Struction and Working principle

This series residual current operated circuit breaker is consisted by Main switch, zero-sequence current transefomer,leakage tripping, testing devices in a plastic case. When the electric leakage and electric shock happening, only the residual current or current leakage reached to the rated residual operated current, the zero-sequence current transformer outputed the signal to drive the leakage tripping operating, then it stops the power to provide the electric leakage and shock protection. Electronic circuit breaker's working priciple see Fig 1.

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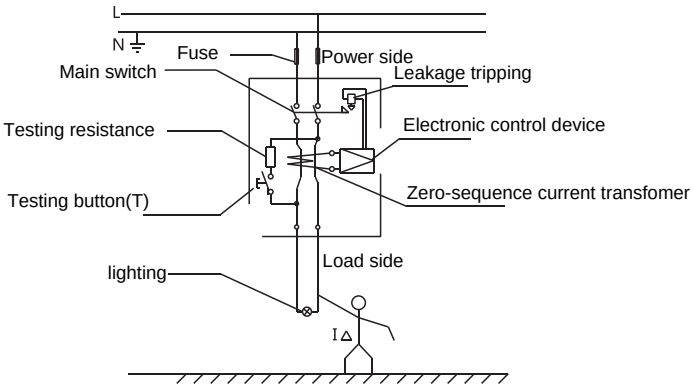


Fig 1

Main Technical Parameter

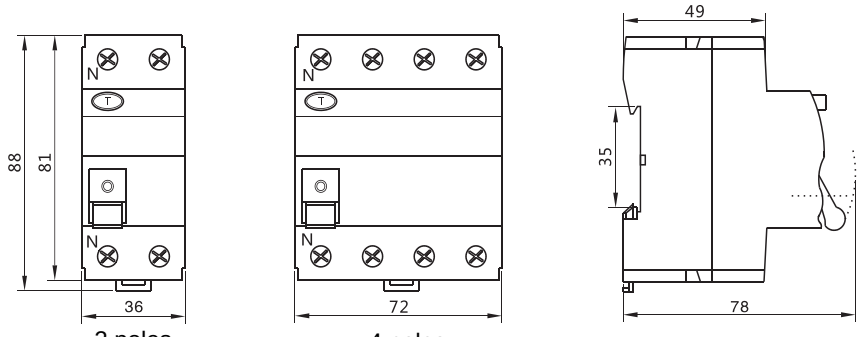
Circuit breaker basic parameter see Table 1

Table 1

Poles	Framze size rate current Inm(A)	Rated work voltage Ue(V)	Rated Frequency Hz	Rated current In(A)	Rated residual operated current I△n(mA)	Rated residual non-operated current I△no(mA)	Rated making and breaking capacity Im(A)	Rated residual making and breaking capacity Im(A)	Residual current Maximum breaking time (s)
2 poles	63	230	50	25、40、63	30,50, 100,300	0.5	500	500	0.1s
4 poles		400							

注：In=63A,Im=I△m=630A

Overall and installament dimension



2 poles　　4 poles

Fig 2

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