

RESIDUAL CURRENT CIRCUIT BREAKER

General

The residual current circuit breaker (RCCB) is approved by BIS as per IS 12640(Pt-1):2008. Residual current circuit breakers are used in housing, tertiary sector and industry.

Function

Protection against Electrocutation (indirect contacts or direct contacts)
Protection against Fire hazard

Tripping sensitivity

30mA - additional protection against direct contact.
100mA - co-ordinated with the earth system according to the formula $L\Delta n < 50/R$, to provide protection against indirect contacts;
300mA - protection against indirect contacts, as well as fire hazard.

Tripping time

It is instantaneous. It ensures instantaneous tripping (without time-delay).



Model No.	JG-R001
Number of poles	1 P+N (2P), 3P+N (4P)
Rated Voltage(Un)	2P:240V 4P: 415V
Rated Current(In)	16A,25A,32A,40A, 63A
Rated frequency	50/60 Hz
Type	AC
Rated residual operating current(In)	30mA, 100mA,300mA
Rated insulation voltage(Ui)	415V
Rated impulse withstand voltage (Uimp)	4KV
Utilisation range temperature	-5°C to 40°C
Storage temperature	-25°C to 70°C
Rated making and breaking capacity (Im)	500A for models 16A, 25A, 32A and 40A 630A for model 63A
Rated residual making and breaking capacity(LΔm)	500A for models 16A, 25A, 32A and 40A 630A for model 63A
Rated conditional short-circuit current (Inc)	6000A
Rated conditional residual short-circuit current(ILL.c)	6000A
Residual current off-time	~0.1s
Terminal protection degree	IP20
Endurance	>=4000
Method of mounting	on rail

