

RCBO(UNR2-40 Electronic)



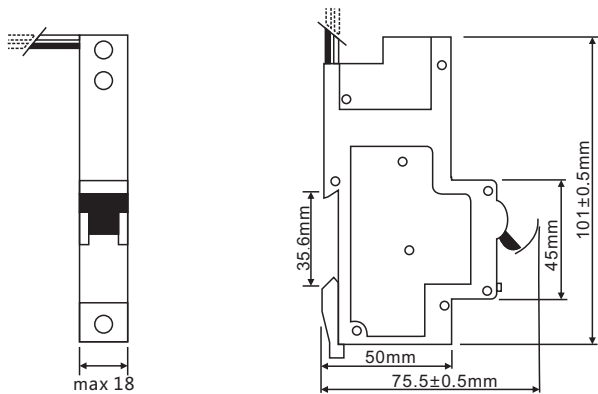
Construction and Feature

- Provides protection against earth fault/leakage current, short-circuit and overload.
- High short-circuit capacity.
- Provides complementary protection against direct contact by human body.
- Effectively protects electric equipment against insulating failure.
- Contact position indication.
- Provides protection against over-voltage.
- Provides comprehensive protection to household and commercial distribution systems.

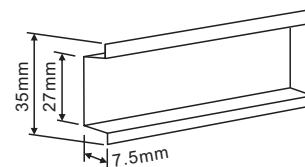
Technical Data

- Type: UNR2 electronic type
- Residual current characteristics: AC
- Pole No.: 1P+N
- Tripping curve: B, C
- Rated short-circuit capacity: 6kA
- Rated current (A): 6, 10, 16, 20, 25, 32, 40
- Rated voltage: 240V AC
- Rated frequency: 50/60Hz
- Rated residual operating current(mA): 30, 100, 300
- Tripping duration: instantaneous <0.1s
- Electro-mechanical endurance: 4000 cycles
- Connection terminal: pillar terminal with clamp
- Terminal Connection Height:
H1=20.6mm H2=26.6mm H3=14.5mm
- Connection capacity: Rigid conductor 25mm²
- Installation:
 - On symmetrical DIN rail 35.5mm
 - Panel mounting

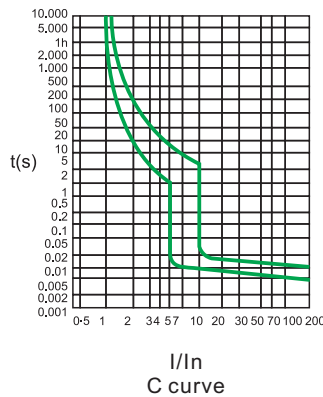
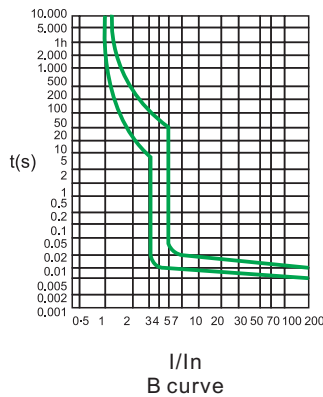
Overall & Installation Dimensions



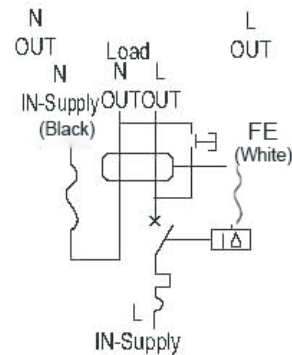
Installation



Characteristic Curve



Wiring Diagram



Overload Current Protection Characteristics

Test procedure	Type	Test current	Initial state	Tripping or Non-tripping Time limit	Expected result	Remark
a	B,C	1.13In	cold	$t \geq 1h$	no tripping	
b	B,C	1.45In	after test	$t < 1h$	tripping	Current in 5s up to stable value
c	B,C	2.55	cold	$1s < t < 60s (In \leq 32A)$ $1s < t < 120s (In > 32A)$	tripping	
d	B,C	3In	cold	$t \geq 1.0s$	no tripping	Turn on the closed auxiliary switch to open the current
		5In				
		10In				
e	B,C	3In	cold	$t < 0.1s$	tripping	Turn on the closed auxiliary switch to open the current
		5In				
		10In				

The terminology "cold state" refers to that no load is carried before testing at the reference setting temperature.

Residual Current Action Breaking Time

Type	In/A	IΔn/A	Residual current (IΔ) is corresponding to the following breaking time (s)					
			IΔn	2 IΔn	5 IΔn	5A, 10A, 20A, 50A, 100A, 200A, 500A	IΔt	
general type	any value	any value	0.3	0.15	0.04	0.04	0.04	Max break-time

The general type RCBO whose current IΔn is 0.03mA or less can use 0.25A in stead of 5 IΔn.