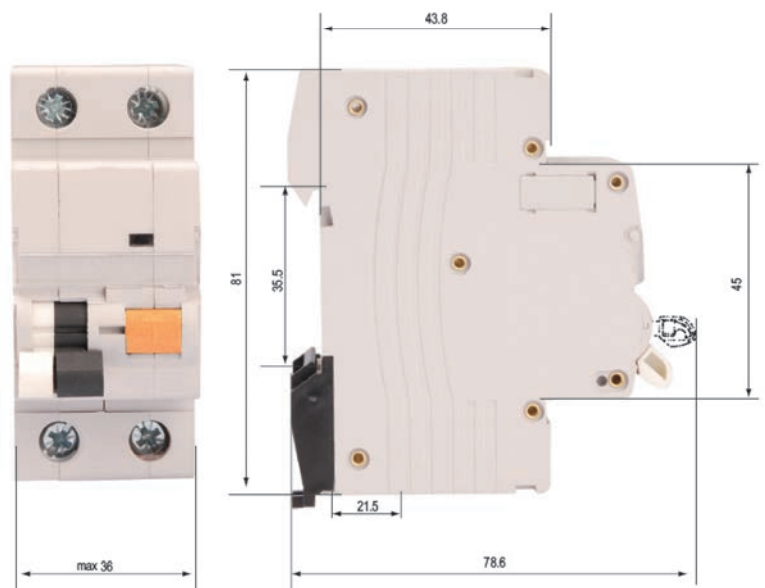


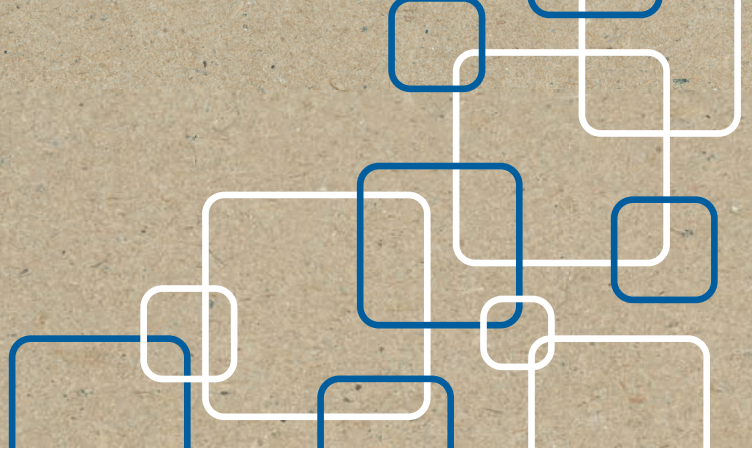
# RCBO with Circuit Protection

## Specifications and Dimensions

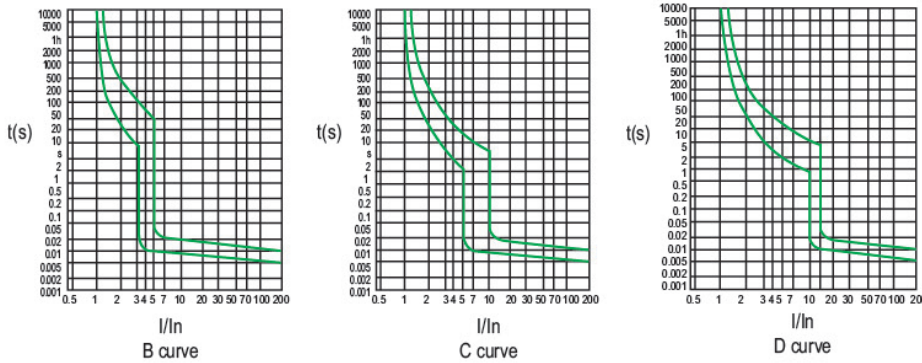
Part No: ERS2R6xxA

- Provides protection against earth fault/leakage current, short-circuit, overload, and function of isolation
- Provides complementary protection against direct contact by human body
- Effectively protects electric equipment against insulating failure
- Provides comprehensive protection to household and commercial distribution systems
- Type: Electro-magnetic type
- Residual current characteristics: A
- Pole No: 1P+N
- Tripping curve: 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): 0.03, 0.1, 0.3
- Tripping duration: instantaneous: 50.1s
- Electro-mechanical endurance: 4000 cycles
- Connection terminal: pillar terminal with clamp
- Connection capacity:
  - Rigid conductor 16mm<sup>2</sup>
  - Terminal connection height: 21.5mm
- Installation:
  - On symmetrical DIN rail 35mm
  - Panel mounting
  - Wiring Diagram

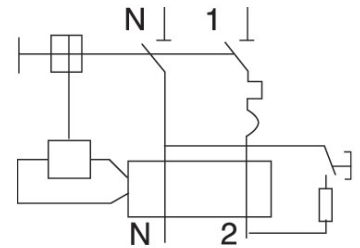




## Characteristic Curve



## 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, D	1.13In	cold	$t \geq 1h$	no tripping	
b	B, C, D	1.45In	after test a	$t < 1h$	tripping	Current in the 5s in the increase of stability
c	B, C, D	2.55In	cold	$1s < t < 60s$	tripping	
d	B	3In	cold	$t \geq 0.1s$	no tripping	Turn on the auxiliary switch to close the current
	C	5In				
	D	10In				
e	B	5In	cold	$t < 0.1s$	tripping	Turn on the auxiliary switch to close the current
	C	10In				
	D	20In				

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	I $\Delta$ n/A	Residual Current (I $\Delta$ ) Is Corresponding To The Following Breaking Time (S)				
			In	2In	5In		
AC type	any value	any value	In	2In	5In	5A, 10A, 20A, 50A, 100A, 200A, 500A	
A type	any value	> 0.01	1.4In	2.8In	7In		
			0.3	0.15	0.04	0.04	Max Break-time

The general type RCBO whose current I $\Delta$  n is 0.03mA or less can use 0.25A instead of 5I $\Delta$  n.