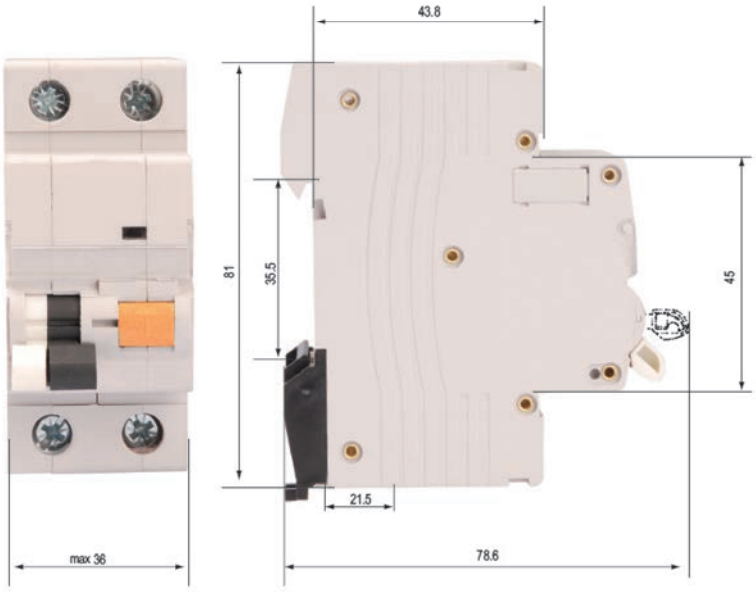
Consumer

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^2
  - Terminal connection height: 21.5mm
- Installation:
  - On symmetrical DIN rail 35mm
  - Panel mounting
  - Wiring Diagram



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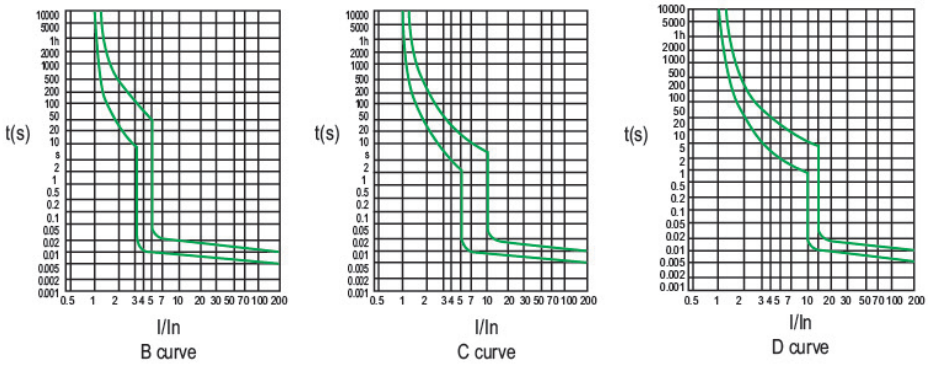
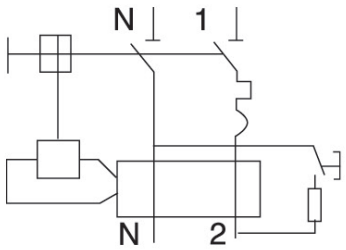
Characteristic Curve



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≥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≥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” refes to that no load is carried before testing at the reference setting temperature.

Residual Current Action Breaking Time

type	In/A	I△n/A	Residual Current (I△) Is Corresponding To The Following Breaking Time (S)				
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△n is 0.03mA or less can use 0.25A instead of 5I△n.

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