

# JVR016-32 Residual Current Circuit Breaker with Overcurrent Protection

Standard: GB16917.1 IEC61009-1 CB



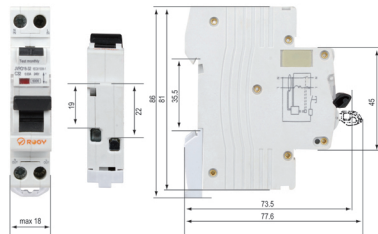
## Construction and Feature

- Operating mechanism adopt double contact with DPN form, N pole opening first, then breaking.
- Leakage protection adopt electronic type integrated circuit, Contact ON/OFF state display.
- Trigger has middle-position function and a clamshell to put tags in and characteristic stripes on both sides.
- Provides protection against earth fault/leakage current, short-circuit, overload, and function of isolation.

## Technical Data

- Residual current characteristics: AC, A
- Pole No.: 1P+N
- Tripping curve: B, C
- Rated short-circuit breaking capacity: 6kA
- Rated current (A): 6, 10, 16, 20, 25, 32
- Rated voltage: 240V
- Rated frequency: 50Hz
- Rated residual operating current(A): 0.03
- Tripping duration: instantaneous $\leq$ 0.1s
- Electro-mechanical endurance: 4000 cycles
- Diameter of screw d(mm): M4
- Degree of protection: IP20
- Fastening torque: 1.2N.m
- On symmetrical DIN rail 35.5mm
- Terminal Connection Height:  $H_1=19\text{mm}$   $H_2=22\text{mm}$

## Overall & Installation Dimensions



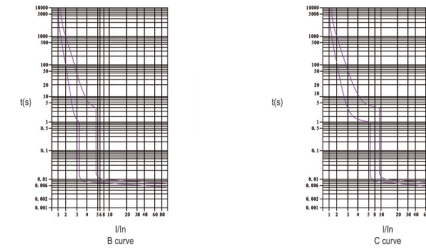
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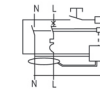
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## Characteristic Curve



## 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	1.13In	cold	$t \geq 1\text{h}$	no tripping	
b	B, C	1.45In	after test a	$t < 1\text{h}$	tripping	Current in the 5s in the increase of stability
c	B, C	2.55In	cold	$1\text{s} < t < 60\text{s}$	tripping	
d	B	3In	cold	$t \geq 0.1\text{s}$	no tripping	Turn on the auxiliary switch to close the current
	C	5In				
e	B	5In	cold	$t < 0.1\text{s}$	tripping	Turn on the auxiliary switch to close the current
	C	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	$I_{\Delta n}/A$	Residual Current ( $I_{\Delta}$ ) 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		
A type	any value	$\leq 0.01$	2In	4In	10In		
			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 $\Delta n$ .

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