Residual Current Circuit Breaker with Overcurrent Protection

Construction and Feature

- ◆ Operating machanism adopt double contact with DPN form, N pole opening first, then breaking.
- ◆ Leakage protecion 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

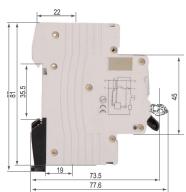
- Residual current characteristics: AC, A
- ◆ Pole No.: 1P+N
- ◆ Tripping curve: B, C
- ◆ Rated short-circuit breaking capacity: 6kA
- ◆ Rated current (A): 6, 10, 16, 20, 25, 32
- ◆ Rated voltage: 240V
- ◆ Rated frequency: 50Hz
- ◆ Rated residual operating current(A): 0.03

- ◆ Tripping duration: instantaneous≤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 35mm

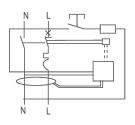
Terminal Connection Height: H₁=19mm H₂=22mm

Overall & Installation Dimensions





Wiring Diagram



Overload Current Protection Characteristics

Test Procedure	Туре	Test Current	Initial State	Tripping or Non- tripping Time Limit	Expected Result	Remark
А	В, С	1.13ln	cold	t≤1h	no tripping	
В	В, С	1.45ln	after test a	t<1h	tripping	Current in the 5 s in the increase of stability
С	В, С	2.55In	cold	1s <t<60s< td=""><td>tripping</td><td></td></t<60s<>	tripping	
D	В	3ln 5ln	cold	t≥0.1s no trippii		Turn on the auxiliary switch to close the current
E	В	5In		t<0.1s	tripping	Turn on the
	С	10ln	cold			auxiliary switch to close the current

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

Residual Current Action Breaking Time

Туре	In/A	I∆n/A	Residual Current (I Δ) Is Corresponding To The Following Breaking Time (S)								
AC type	any value	any value	In	2ln	5ln						
A type	any value	>0.01	1.4ln	2.8ln	7ln	5A,10A, 20A, 50A, 100A, 200A, 500A					
A type	any value	>0.01	2ln	4In	10ln						
D	В		0.3	0.15	0.04	0.04	Max Break-time				