## Miniature Circuit Breaker

### Construction and Feature

◆ The state-of-art design

Elegant appearance; cover and handle in arc shape make comfortable operation.

Contact position indicating window

Transparent cover designed to carry label.

◆ Handle central-staying function for circuit fault indicating In case of overload, to protected circuit, MCB handle trips and stays at central position, which enables a quick solution to the faulty line. The handle cannot stay in such position when operated manually.

♦ High short-circuit capacity

High short-circuit capacity 10KA for whole range and 15kA capacity for current rating up to 40A thanks to the powerful electric arc extinguishing system.

Long electrical endurance up to 6000 cycles thanks to quick making mechanism.

◆ Handle padlock device

MCB handle can be locked either at "ON" position or at "OFF" position to prevent unwanted operation of the product.

◆ Screw terminal lock device

The lock device prevents unwanted or casual dismounting of connected terminals.

#### **Technical Data**

◆ Pole No.: 1, 1P+N, 2, 3, 3P+N, 4

◆ Rated voltage: AC 230/400V

◆ Rated current (A):

1, 2, 3, 4, 6, 10, 13, 16, 20, 25, 32, 40, 50, 63

◆ Tripping curve: B, C, D

◆ High short-circuit breaking capacity (Icn): 4.5KA, 6KA, 10KA

◆ Rated service short-circuit breaking capacity(Ics): 4.5KA,

6KA, 7.5KA

◆ Rated frequency: 50/60Hz

Energy limiting class: 3

Rated impulse withstand voltage: 6.2kV

◆ Electro-mechanical endurance: 20000

Contact position indication

Connection terminal:

Screw terminal

Pillar terminal with clamp

◆ Connection capacity: Rigid conductor up to 25mm²

Terminal Connection Height: 19mm

### Fastening torque: 2.0Nm

◆ Installation:

On symmetrical DIN rail 35mm Panel mounting

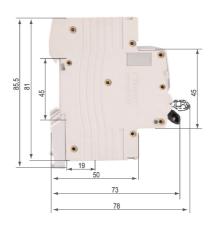
#### **Accessories**

- ◆ Ev3F3 Auxiliary contact
- Ev3S3 Shunt tripper
  Ev30-63 Auxiliary
  Ev3SD3 Alarm Switch

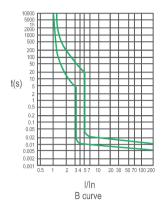
Ev3O3+Ev3O33 Over-Voltage/ Under-Voltage Tripper

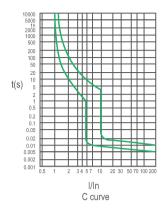
## **Overall & Installation Dimensions**

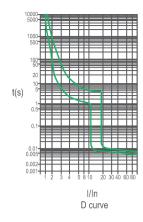




## Characteristic Curve







# **Power Consumption**

Rated Current Range (InA)	Max consumption/pole (W)		
In≤10	3		
10 < In≤16	3.5		
16 < In≤25	4.5		
	6		
32 < In≤40	7.5		
40 < In≤50	9		
50 < In≤63	13		

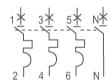
# Wiring Diagram

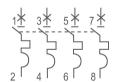












## **Overload Current Protection Characteristics**

Test Procedure	Туре	Test Current	Initial State	Tripping or Non-tripping Time Limit	Expected Result	Remark	
А	B, C, D	1.13ln	cold	t≤1h	no tripping		
В	B, C, D	1.45ln	after test a	t<1h	tripping	Current in the 5 s in the increase of stability	
С	B, C, D	2.55In	cold	1s <t<60s(in≤32a) 1s<t<120s(in<32a)< td=""><td>tripping</td><td></td></t<120s(in<32a)<></t<60s(in≤32a) 	tripping		
D	В	3ln	cold	cold t		no tripping	Turn on the
	С	5ln			t≥0.1s		auxiliary switch to
	D	10ln				close the current	
E	В	5ln	cold	cold	t<0.1s	tripping	Turn on the auxiliary switch to
	С	10ln					
	D	20ln				close the current	