

## Model SRM1-40D Miniature Circuit Breaker



### 1. Application

The Miniature Circuit Breakers are mainly used in AC 50Hz/60Hz circuit with rated voltage 230V, rated current up to 40A , and rated operating breaking capacity 4500A/6000A power distribution system, protection of control circuit against short circuit and overload current fault. And also have circuit control and isolation function. The miniature Circuit Breakers is same as single pole miniature circuit breaker, the difference is the MCB can cut off phase and neuter wires at same time when current faults happen.

### 2. Technical Data

Conformity with standards:	IEC60898
Function	ON/OFF Circuit, Overload protection, short circuit protection, positive isolation.
Rated operational voltage Ue:(V)	AC 220V, 230V, 240V~1P+N
Rated Current (In):(A)	6,10,16,20,25,32,40
Rated frequency:(Hz)	50/60Hz
Total number of poles:	1P+N
Rated Insulation voltage Ui:(V)	500V
Rated impulse withstand voltage Uimp:(V)	4000V
Instantaneous tripping current:	B, C
Rated short-circuit capacity Icn:(A)	4500A, 6000A
Protection degree :	IP20
Material group:	IIIa
Contact position indication:	Red/Green
Contact position indicator:	Yes
Method of mounting:	On rail
Connection terminal :	Pillar terminal
Connection capacity:	Rigid conductor up to 25mm <sup>2</sup>
Fastening torque:	2.5N.m
Accessories	Auxiliary contact, Alarm contact, Shunt tripper, Over-voltage/Under-voltage tripper

### 3. Structure and Functions

#### 3.1. Wiring Design

3.2. Both upper and lower ends are marked with N to clearly indicate the neutral wire connection position and avoid wrong wiring risks

3.3. The 1P+N structure only occupies 1 module width, saving distribution box space

#### 3.4. Operation and Indication

3.5. Gray handle: Used for manual closing (ON)/opening (OFF)

3.6. Upper status window: Usually green indicates the closed state, which is clearly visible

#### 3.7. Protection Functions

3.8. Overload Protection: When the circuit current exceeds 10A, it trips and cuts off the circuit with a delay

3.9. Short-Circuit Protection: Instantly trips and cuts off the current in case of short circuit to prevent equipment damage or fire

**4.Application Scenarios**

- 4.1 Protection of household lighting circuits and socket branches
- 4.2 Power supply protection for small commercial equipment (such as routers, small appliances)
- 4.3 Distribution box scenarios with high space requirements (1P+N compact design)

**5.Advantages**

- 5.1 Safe and Reliable: Cuts off both live wire and neutral wire simultaneously to avoid neutral wire electrification hazards
- 5.2 Standard Compliance: Complies with IEC/EN 60898-1 standard and is certified by CE
- 5.3 Space-Saving: 1P+N compact design, suitable for small distribution boxes
- 5.4 Clear Marking: Clear wiring terminals and status indicators for easier installation and maintenance

**6.Overall & Installation Dimensions**

