

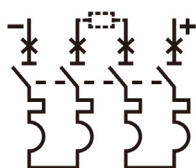
DC MINIATURE CIRCUIT BREAKERS



Miniature circuit breakers 1000VDC



P1MD4PB...



| Order code | I _e | n° of DIN module | Qty per pkg | Wt |
|--|----------------|------------------|-------------|-------|
| | [A] | n° | n° | [kg] |
| Miniature circuit breakers for DC - B curve characteristics. | | | | |
| P1MD4PB16 | 16 | 4 | 3 | 0.505 |
| P1MD4PB20 | 20 | 4 | 3 | 0.505 |
| P1MD4PB25 | 25 | 4 | 3 | 0.505 |
| P1MD4PB50 | 50 | 4 | 3 | 0.505 |

General characteristics

The miniature circuit breakers for photovoltaic applications type P1MD... are designed to protect against overloads and short circuits the cables located between the photovoltaic panel strings and the inverter.

In addition to photovoltaic applications, these devices can be used for other DC-1 loads, such as non-inductive or slightly inductive loads.

Main features include:

- Rated current from 16A to 50A
- IEC breaking capacity I_{cu} 5kA 1000VDC
- Contact status with flag indicator
- Tripping characteristic: curve type B
- Accessories available: auxiliary contacts, shunt trips and undervoltage releases.

Operational characteristics

- Rated insulation voltage U_i: 1000V
- Rated impulse voltage U_{imp}: 4kV
- Mechanical life: 20.000 cycles
- Mounting on 35mm DIN rail (IEC/EN/BS 60715)
- Mounting position: any
- Utilization category: A.

Compliance

Compliant with standard IEC/EN/BS 60947-2.

Add-on blocks for miniature circuit breakers



P1X1011



P1X16...

| Order code | Description | Qty per MCB | Qty per pkg | Wt |
|--|-----------------------|-------------|-------------|-------|
| | | n° | n° | [kg] |
| Auxiliary contact. | | | | |
| P1X1011 | 1 changeover contact | 1 | 12 | 0.040 |
| Indicator contact for thermal-magnetic trip. | | | | |
| P1X1311 | 1 changeover contact | 1 | 12 | 0.040 |
| Undervoltage trip release. | | | | |
| P1X14230 | 230VAC 50/60Hz | 1 | 8 | 0.070 |
| Shunt trip release. | | | | |
| P1X16230 | 110...415VAC 50/60Hz | 1 | 8 | 0.070 |
| P1X16024 | 12...24VAC/DC 50/60Hz | 1 | 8 | 0.070 |

General characteristics

- Auxiliary and indicator contact width: 9mm/0.35" (0.5 module)
- Undervoltage and shunt trip release width: 18mm/0.71" (1 module)
- Maximum combination: 3 add-on blocks on MCB left side only of which 1 undervoltage or shunt release directly on MCB side and then 2 contacts of which 1 auxiliary, contact and 1 indicator contact.

Operational characteristics

- IEC rated impulse voltage U_{imp}: 4kV
- IEC rated operational current in AC: 6A 230V; 3A 400V (auxiliary contacts).

Compliance

Compliant with standard IEC/EN/BS 60947-5-1.