

DC MINIATURE CIRCUIT BREAKERS



Miniature circuit breakers 1000VDC



P1MD4PB...



Order code	le	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 Icu 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 Ui: 1000V
- Rated impulse voltage Uimp: 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 Uimp: 4kV
- IEC rated operational current in AC: 6A 230V; 3A 400V (auxiliary contacts).

Compliance

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