



# PC-0124-050-0

Primary switched mode power supply, PC 1AC

## Version PC-0124-050-0

Input rated voltage	Output rated voltage	Output rated current	Characteristics
100 - 240 Vac	24 Vdc	5 A	-

(https://data.automation.com/details/BLOCK/BLO.PC-0124-050-0/id-600985?sort=price&page=25)



### DOWNLOADS



### TECHNICAL DATA FOR PC-0124-050-0

## Special features



## Characteristics

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## Input

### Input rated voltage

100 - 240 Vac

### Input voltage range

85 - 264 Vac

(120 - 372 Vdc)

### Input voltage derating

-2.5 %/Vac < 97 Vac

### Rated frequency range

44 Hz - 66 Hz / 0 Hz

### Input rated current (rated load)

2.25 A (100 Vac) / 1.2 A (230 Vac)

### Starting current limiter

< 30 A, NTC

### Switch-on time

0.25 s (100 Vac) / 0.2 s (230 Vac)

### Mains buffering (rated load)

10 ms (100 Vac) / 80 ms (230 Vac)

### Power factor

0.5

### Input fuse internal

4 A

### Recommended back-up fuse (circuit breaker)

6 A, 10 A, 16 A,  
characteristic B, C

### Transient surge voltage protection

Varistor

## Output

### Output rated voltage

24 Vdc

### Output voltage range

23 - 28.5 Vdc

### Output rated current

5 A

## Output



### Output limited current

typ. 5.5 A (constant current)

### Tripping of LS circuit breakers

max. B4

### Parallel connection

Yes

### Serial operation

Yes

### Power dissipation, no load/rated load

1.2 / 14.6 W (230 Vac)

### Max. power losses

19.4 W (100 Vac / 24 V / 5 A)

### Efficiency

typ. 89 %

### Ripple factor

typ. 30 mVss

### Resistance to reverse feed max.

35 Vdc

### Over-voltage-protection

max. 41 Vdc

## Signaling

### Typ. switching threshold for LED and signal output (DC OK)

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### Status indicator

LED green

### Signal output

Relay contact

## Approvals

### Approvals

cURus, cULus, GL

## Environment

### Type of cooling

natural convection

### Ambient temperature

-13 °F to +158 °F

## Environment



### Storage temperature

-13 °F to +185 °F

### Derating

-5 %/K > +140 °F @ 196 - 264 Vac

-2.5 %/K > +122 °F @ 85 - 195 Vac

### Required minimum spacing (left/right)

0.00 inch

### Required minimum spacing (over/under)

1.97 inch

### Mounting position

horizontal for standard rail DIN TS35

## Safety and protection

### MTBF in acc. IEC 61709 (SN 29500)

> 500 000 h

### Protection index

IP 20

### Safety class

I, with PE connection

## Terminal and mounting

### Terminals signalling (direct plug-in technology Push-in)

max 2,5 mm<sup>2</sup>

### Terminals input (direct plug-in technology Push-in)

max 2,5 mm<sup>2</sup>

### Terminals output (direct plug-in technology Push-in)

max 2,5 mm<sup>2</sup>

## Measures and weights

### Width

1.65 inch

### Height

5.00 inch

### Depth

4.96 inch

### Weight

1.30 lbs



## STANDARDS / APPROVALS

## APPLICATIONS

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### General Data

- Protection index IP 20
- Nominal input voltage: AC 100 - 240 V
- Nominal output voltage: DC 12 - 48 V
- Nominal output current: 5 - 20 A
- Ambient temperature -13 °F / -25 °C to +158 °F / +70 °C
- Efficiency up to 93 %

### Benefits

- Fast tripping of conventional circuit breakers
- Push-in terminals
- Stabilized and adjustable output voltage
- Parallel operation
- 3 years warranty
- DC OK indicator
- Resistant to transient overvoltages up to 4 kV
- Robust DIN rail mounting

## OUR RECOMMENDATIONS FOR YOU