



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
portal/api/v1/details/BLOCK/BLO.PC-
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050-
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sort=page&page=25)

or Display page



DOWNLOADS



TECHNICAL DATA FOR PC-0124-050-0

Special features



Characteristics

-

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)

-

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 mm²

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

max 2,5 mm²

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

max 2,5 mm²

Measures and weights

Width

1.65 inch

Height

5.00 inch

Depth

4.96 inch

Weight

1.30 lbs



STANDARDS / APPROVALS

APPLICATIONS

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