

Single- and two phases, primary switched mode power supply **PC-0224-050-0**



Picture shows PC-0224-050-0

Advantages

Stabilised and adjustable output voltage

Fast tripping of standard bi-metal circuit breakers

DC OK signal contact

Parallel operation

Push-in terminals

Robust DIN rail mounting

Resistant to transient overvoltages up to 4 kV

Applications

The economic power supplies in the Power Compact series set new standards in their class. Above-average robustness against transients and energetic surge pulses at their input and equipped with essential additional aspects for a worldwide high plant availability. A powerful and flexible option that's still light and compact. Due to a single or two-phase supply from 180 V to 550 V, these power supplies are suitable for a highly diverse range of applications in solar, measurement and control technology and they really come into their own in industrial and building automation. The output voltage can be set easily using the rotary potentiometer on the front of the housing. The robust DIN rail fastening method and push-in connection terminals enable fast and secure mounting.

Standards

Primary switched mode power supply
to UL 60950, UL 508

Safety:
EN 61558-2-16, EN 60950-1

EMC:
EN 61204-3

Approvals



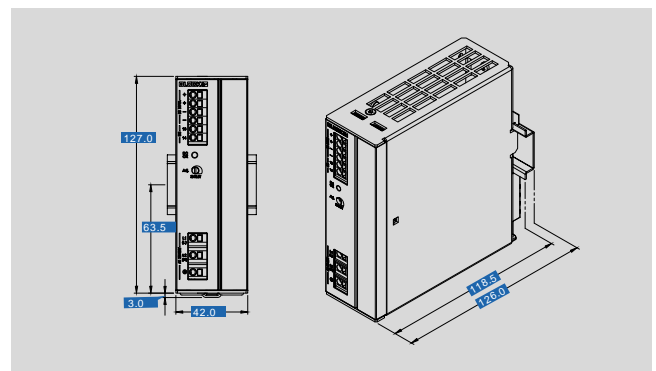
UL/CSA 60950, UL 508, GL (in preparation)



Single- and two phases, primary switched mode power supply **PC-0224-050-0**

| Type | PC-0224-050-0 |
|--|--|
| Electrical data | |
| Input | |
| Input rated voltage | 200 - 500 Vac |
| Input voltage range | 180 - 550 Vac (254 - 780 Vdc) |
| Input voltage derating | -0.5 %/Vac < 200 Vac (-0.4 %/Vdc < 280 Vdc) |
| Rated frequency range | 44 Hz - 66 Hz / 0 Hz |
| Input rated current (rated load) | 1.25 A (200 Vac) / 0.67 A (500 Vac) |
| Starting current limiter | < 30 A, NTC |
| Switch-on time | 0.98 s (200 Vac) / 0.47 s (500 Vac) |
| Mains buffering | 15 ms (200 Vac) / 126 ms (500 Vac) |
| Power factor | 0.52 |
| Input fuse internal | 3.15 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 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 | 0.94 W / 16.36 W (230 Vac) 1.35 W / 14.55 W (400 Vac) |
| Max. power losses | 18.2 W (200 Vac / 24 V / 5 A) |
| Efficiency | typ. 89 % |
| Ripple factor | typ. 30 mVss |
| Resistance to reverse feed max. | 35 Vdc |
| Over-voltage-protection | max. 40 Vdc |
| Signaling | |
| Status indicator | LED green |
| Signal output | Relay contact |
| Approvals | |
| Approvals | cURus, cULus, GL (prepared) |
| Environment | |
| Cooling method | natural convection |
| Ambient temperature | -25 °C ... +70 °C |
| Storage temperature | -25 °C ... +85 °C |
| Derating | -2.5 %/K > +55 °C |
| Required minimum spacing (left/right) | 0 mm |
| Required minimum spacing (over/under) | 50 mm |
| Safety and protection | |
| Protection index | IP 20 |
| Safety class | I, with PE connection |
| Order numbers | |
| Order Number | PC-0224-050-0 |

| Type | PC-0224-050-0 |
|--|--|
| Mechanical data | |
| Input | |
| Connections input (direct plug-in technology Push-In) | max 2,5 mm ² |
| Output | |
| Connections output (direct plug-in technology Push-In) | max 2,5 mm ² |
| Signaling | |
| Connections signalling (direct plug-in technology Push-In) | max 2,5 mm ² |
| Environment | |
| Mounting position | horizontal for standard rail DIN TH 35 |
| Measures and weights | |
| Weight | 0.60 kg |
| Dimensions W x H x D | 42 x 127 x 126 mm |



Subjects to change.

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