Single- and two-phase, primary switched mode power supply

PC-0224-050-2



Picture shows PC-0224-050-0

Advantages

- Stabilized and adjustable output voltage
- Fast tripping of conventional circuit breakers
- DC OK indicator
- Parallel operation
- Push-in terminals
- Robust DIN rail mounting
- Resistant to transient overvoltages up to 4 kV
- Optional with 50 % Power Boost (PC-0224-xxx-2)
- 3 years warranty

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 enclosure. 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, DNV GL

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Single- and two-phase, primary switched mode power supply
PC-0224-050-2

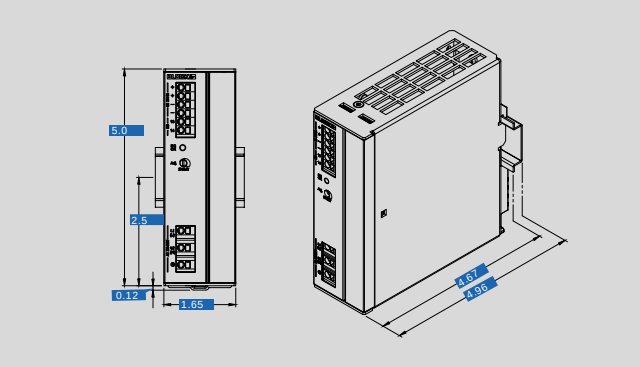
Electrical data

Type	PC-0224-050-2
Special features	
Characteristics	Power Boost
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 - 66 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 (rated load)	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	8.5 A
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 , DNV GL, EAC
Environment	
Type of cooling	natural convection
Ambient temperature	-13 °F to +158 °F
Storage temperature	-13 °F to +185 °F
Derating	-2.5 %/K > +131 °F
Required minimum spacing (left/right)	0.00 inch
Required minimum spacing (over/under)	1.97 inch
Safety and protection	
Protection index	IP 20
Safety class	I, with PE connection
Order numbers	
Order Number	**PC-0224-050-2**

Mechanical data

Type	PC-0224-050-2
Environment	
Mounting position	horizontal for standard rail DIN TS35
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	
Weight	1.32 lbs

Dimensions in inch



Subject to change.