

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)



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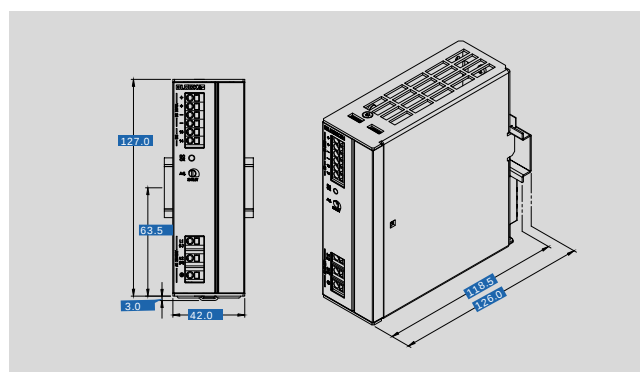
PC-0224-050-0

Electrical data

Type	PC-0224-050-0
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

Mechanical data

Type	PC-0224-050-0
Input	
Connections input (direct plug-in technology Push-In)	max 2,5 mm²
Output	
Connections output (direct plug-in technology Push-In)	max 2,5 mm²
Signaling	
Connections signalling (direct plug-in technology Push-In)	max 2,5 mm²
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.