

Single phase, primary switched mode power supply **PC-0124-050-0**



Picture shows PC-0124-200-0

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

Power Compact combines the basic functionality of an economic switched mode power supply with key additional features to ensure high system availability. A powerful and flexible option that's still light and compact. Our real all-rounders, these power supply units 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 devices cover the average power requirement from 120 W to 480 W. Versions with 12 V, 24 V, and 48 V are available, which allow a range of applications. A version with 5 A rated current is available for a single or two-phase supply from 180 V to 550 V. 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, EN 60335-1

EMC:
EN 61204-3

Approvals



UL/CSA 60950 recognised, UL508 listed, Germanischer Lloyd



Single phase, primary switched mode power supply

PC-0124-050-0

Type		PC-0124-050-0	PC-0124-050-0
Electrical data			
Type	PC-0124-050-0	PC-0124-050-0	PC-0124-050-0
Input			
Input rated voltage	100 - 240 Vac	Input	
Input voltage range	85 - 264 Vac	Connections input (direct plug-in technology Push-In)	max 2,5 mm ²
	(120 - 372 Vdc)		
Input voltage derating	-2,5 %/Vac < 97 Vac	Output	
Rated frequency range	44 Hz - 66 Hz / 0 Hz	Connections output (direct plug-in technology Push-In)	max 2,5 mm ²
Input rated current (rated load)	2,25 A (100 Vac) / 1,2 A (230 Vac)	Signaling	
Starting current limiter	< 30 A, NTC	Connections signalling (direct plug-in technology Push-In)	max 2,5 mm ²
Switch-on time	0,25 s (100 Vac) / 0,2 s (230 Vac)	Environment	
Mains buffering	10 ms (100 Vac) / 80 ms (230 Vac)	Mounting position	horizontal for standard rail DIN TH 35
Power factor	0,5	Measures and weights	
Input fuse internal	4 A	Weight	0,59 kg
Recommended back-up fuse (circuit breaker)	6 A, 10 A, 16 A, characteristic B, C	Dimensions W x H x D	42 x 127 x 126 mm
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	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			
Cooling method	natural convection		
Ambient temperature	-25°C ... +70°C		
Storage temperature	-25°C ... +85°C		
Derating	-5 %/K > +60°C @ 196 - 264 Vac -2,5 %/K > +50°C @ 85 - 195 Vac		
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-0124-050-0		

