Single phase, primary switched mode power supply

PM-0112-020-0

Picture shows PM-0124-040-0

Advantages

- Stabilised and adjustable output voltage
- Low stand-by consumption <1 W
- Constant current characteristic
- DC OK signalling
- Parallel operation optien
- Push-in terminals
- Panel installation on mounting rails
- Conform to EN 60335-1

Applications

Efficient, primary switched mode power supply in slim plastic housing. 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 as well as industrial and building automation. The devices cover the lower and average power requirements from 25 W to 100 W. Versions with 12 V, 24 V, and 48 V are available, enabling a whole range of applications. A version with 3.8 A rated current is available for establishing NEC Class 2 circuits. All power supplies also comply with the EN 60335-1 standard for domestic appliances. The output voltage can be easily set using the rotary potentiometer on the front of the housing. The 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

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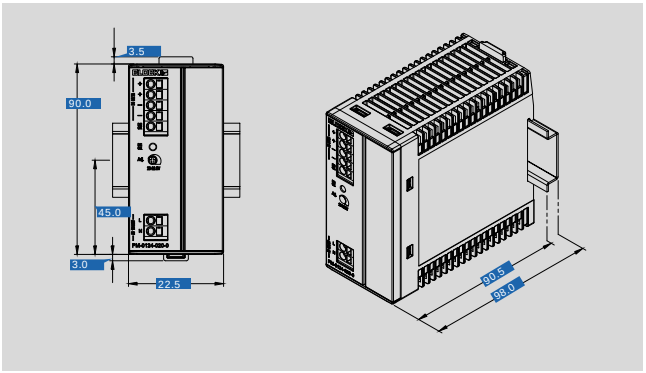
Single phase, primary switched mode power supply
PM-0112-020-0

Electrical data

Type	PM-0112-020-0
Input	
Input rated voltage	100 - 240 Vac
Input voltage range	85 - 264 Vac (120 - 373 Vdc)
Input voltage derating	-2.5 %/Vac < 95 Vac
Rated frequency range	44 Hz - 66 Hz / 0 Hz
Input rated current (rated load)	0.44 A (100 Vac) / 0.22 A (240 Vac)
Starting current limiter	< 30 A, NTC
Switch-on time	1.5 s (100 Vac) / 0.4 s (230 Vac)
Power factor	0.48
Input fuse internal	2 A
Recommended back-up fuse (circuit breaker)	6 A, 10 A, 16 A, characteristic B, C
Mains buffering	15 ms (100 Vac) / 120 ms (230 Vac)
Transient surge voltage protection	Varistor
Output	
Output rated voltage	12 Vdc
Output voltage range	11.5 – 14.5 Vdc
Output rated current	2 A
Output limited current	2.2 ... 2.4 A (constant current)
Class 2 output (UL Limited Power Source, LPS)	No
Parallel connection	Yes
Serial operation	Yes
Power dissipation, no load/rated load	0.7 W / 5,3 W (230 Vac)
Max. power losses	5.7 W (100 Vac / 12 V / 2 A)
Ripple factor	typ. 20 mVss
Resistance to reverse feed max.	25 Vdc
Over-voltage-protection	max. 35 Vdc
Efficiency	82 %
Signaling	
Typ. switching threshold for LED and signal output (DC OK)	-
Status indicator	LED green Uout > typ. 10 Vdc LED lit permanently
Signal output	Active high signal Uout > typ. 10 Vdc max. 40 mA@12 Vdc short circuit proof
Approvals	
Approvals	cURus, cULus, GL
Environment	
Storage temperature	-25° C ... +85° C
Ambient temperature	-25° C ... +70° C
Derating	-3 %/K > +50° C
Mounting position	horizontal for standard rail DIN TH 35
Cooling method	Natural convection
Required minimum spacing (left/right)	0 mm
Required minimum spacing (over/under)	50 mm
Safety and protection	
Protection index	IP 20
Safety class	II, without PE connection
Order numbers	
Order Number	**PM-0112-020-0**

Mechanical data

Type	PM-0112-020-0
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
Measures and weights	
Weight	0.13 kg
Dimension (W x H x D)	22.5 x 90 x 90.5 mm



Subjects to change.