

Single phase, primary switched mode power supply **PM-0124-020-0**



Advantages

Stabilised and adjustable output voltage
Low stand-by consumption <1 W
Constant current characteristic
DC OK signalling
Parallel operation option
Push-In terminals
Panel installation on mounting rails

Applications

Efficient primary switched mode power supplies in a rugged plastic housing. The power supplies cover the lower power requirements in the range from 25W to 100W.

Standards

Electronic fuse
to UL 60950, UL 508, UL 2367

Safety:
EN 60950 (SELV)

EMC:
Immunity to interference EN61000-6-1, EN61000-6-2
Interference emissions EN61000-6-3, EN61000-6-4

Approvals



Single phase, primary switched mode power supply

PM-0124-020-0

Type		PM-0124-020-0
Electrical data	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)	0.73 A (100 Vac) / 0.37 A (240 Vac)
	Starting current limiter	< 30 A, NTC
	Switch-on time	0.5 s (100 Vac) / 0.27 s (230 Vac)
	Power factor	0,47
	Input fuse internal	4 A
	Recommended back-up fuse (circuit breaker)	6 A, 10 A, 16 A, characteristic B, C
	Mains buffering	20 ms (100 Vac) / 120 ms (230 Vac)
	Transient surge voltage protection	varistor
	Output	
	Output rated voltage	24 Vdc
Output voltage range	23 - 28,5 Vdc	
Output rated current	2.00 A	
Output limited current	typ. 2.2 A (contant current)	
Parallel connection	Yes	
Serial operation	Yes	
Power dissipation, no load/rated load	< 1 W / 4 W (230 Vac)	
Max. power losses	7 W (100 Vac / 24 V / 2 A)	
Efficiency	89 %	
Ripple factor	typ. 20 mVss	
Resistance to reverse feed max.	35 Vdc	
Over-voltage-protection	max. 37 Vdc	
Signaling		
Status display	LED green Uout > typ. 21.5 Vdc LED lit permanently Active high signal	
Signal output	Uout > typ. 21.5 Vdc max. 20 mA@24 Vdc short circuit proof	
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)	-	
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-0124-020-0	

Type		PM-0124-020-0
Mechanical data	Input	
	Terminals Input	Push-In Terminals, max 2.5 mm ²
	Output	
	Terminals Output	Push-In Terminals, max 2.5 mm ²
	Signaling	
	Terminals signaling	Push-In terminals, max 2.5 mm ²
	Measures and weights	
Weight	0.21 kg	
Dimension (W x H x D)	45 x 90 x 97.5 mm	

Subjects to change.