

## Single phase, primary switched mode power supply **PM-0124-040-0**



### 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-0124-040-0

Type	PM-0124-040-0
<b>Electrical data</b>	
<b>Input</b>	
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)	1.52 A (100 Vac) / 0.66 A (240 Vac)
Starting current limiter	< 30 A, NTC
Switch-on time	0.24 s (100 Vac) / 0.14 s (230 Vac)
Power factor	0.5
Input fuse internal	4 A
Recommended back-up fuse (circuit breaker)	6 A, 10 A, 16 A, characteristic B, C
Mains buffering	15 ms (100 Vac) / 80 ms (230 Vac)
Transient surge voltage protection	varistor
<b>Output</b>	
Output rated voltage	24 Vdc
Output voltage range	23 - 28,5 Vdc
Output rated current	4.00 A
Output limited current	typ. 4.4 A (contant current)
Parallel connection	Yes
Serial operation	Yes
Power dissipation, no load/rated load	< 1 W / 12 W (230 Vac)
Max. power losses	15 W (100 Vac / 24 V / 4 A)
Efficiency	89 %
Ripple factor	typ. 20 mVss
Resistance to reverse feed max.	35 Vdc
Over-voltage-protection	max. 40 Vdc
<b>Signaling</b>	
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
<b>Environment</b>	
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
<b>Safety and protection</b>	
Protection index	IP 20
Safety class	II, without PE connection
<b>Order numbers</b>	
<b>Order Number</b>	<b>PM-0124-040-0</b>

Type	PM-0124-040-0
<b>Mechanical data</b>	
<b>Input</b>	
Terminals Input	Push-In Terminals, max 2.5 mm <sup>2</sup>
<b>Output</b>	
Terminals Output	Push-In Terminals, max 2.5 mm <sup>2</sup>
<b>Signaling</b>	
Terminals signaling	Push-In terminals, max 2.5 mm <sup>2</sup>
<b>Measures and weights</b>	
Weight	0.39 kg
Dimension (W x H x D)	72 x 90 x 109.5 mm