

## Single phase, primary switched mode power supply **PM-0124-010-0**



### 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-0124-010-0

| Type                                  |  | PM-0124-010-0                        |
|---------------------------------------|--|--------------------------------------|
| <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)   | 0.43 A (100 Vac) / 0.2 A (240 Vac)   |
|                                       | Starting current limiter   | < 30 A, NTC                          |
|                                       | Switch-on time   | 2.3 s (100 Vac) / 0.74 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  | 20 ms (100 Vac) / 120 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                  | 1.00 A   |                                      |
| Output limited current                | typ. 1.1 A (contant current)   |                                      |
| Parallel connection                   | Yes  |                                      |
| Serial operation                      | Yes  |                                      |
| Power dissipation, no load/rated load | < 1 W / 4 W (230 Vac)  |                                      |
| Max. power losses                     | 5 W (100 Vac / 24 V / 1 A)   |                                      |
| Efficiency                            | 86 %   |                                      |
| Ripple factor                         | typ. 20 mVss   |                                      |
| Resistance to reverse feed max.       | 35 Vdc   |                                      |
| Over-voltage-protection               | max. 39 Vdc  |                                      |
| <b>Signaling</b>                      |  |                                      |
| Status display                        | LED green<br>Uout > typ. 21.5 Vdc<br>LED lit permanently<br>Active high signal |                                      |
| Signal output                         | Uout > typ. 21.5 Vdc<br>max. 20 mA@24 Vdc<br>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-0124-010-0</b>   |                                      |

| Type                   |                             | PM-0124-010-0                              |
|------------------------|-----------------------------|--|
| <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                 | 0.13 kg                     |  |
| Dimension (W x H x D)  | 22.5 x 90 x 97.5 mm         |  |



Subjects to change.