



|                                     |  |     |      |                          |
|-------------------------------------|--|-----|------|--------------------------|
| Product designation                 |  |     |      | Switching power supplies |
| Product type designation            |  |     |      | PSE1                     |
| Input characteristics               |  |     |      |                          |
| Input type                          |  |     |      | Single-phase             |
| Rated supply voltage AC             |  |     | VAC  | Multivoltage 100...240   |
| Operating range                     |  |     |      |                          |
| AC                                  |  | min | VAC  | 85                       |
|                                     |  | Max | VAC  | 264                      |
| DC                                  |  | min | VDC  | 120                      |
|                                     |  | Max | VDC  | 375                      |
| Rated frequency                     |  |     | Hz   | 50/60                    |
| Operational frequency               |  |     |      |                          |
|                                     |  | min | Hz   | 47                       |
|                                     |  | max | Hz   | 63                       |
| Current consumption Max             |  |     | mA   | 750                      |
| Power dissipation                   |  |     | W    | 5.7                      |
| Insulation voltage Input/Output     |  |     |      |                          |
|                                     |  | AC  | VAC  | 3000                     |
|                                     |  | DC  | VAC  | 4242                     |
| Internal fuse (250VAC)              |  |     |      | T2A 250VAC               |
| Output characteristics              |  |     |      |                          |
| Rated output voltage DC             |  |     | VDC  | 24                       |
| Voltage trimming (potentiometer) DC |  |     |      |                          |
|                                     |  | min | VDC  | 22.5                     |
|                                     |  | Max | VDC  | 28.5                     |
| Rated output current                |  |     | A    | 1.25                     |
| Rated output power                  |  |     | W    | 30                       |
| Temperature coefficient             |  |     | %/°C | ±0.03                    |
| Line adjustment                     |  |     | %    | ±1                       |
| Load adjustment                     |  |     | %    | ±1                       |
| Efficiency                          |  |     | %    | 86                       |
| Overload protection                 |  |     |      | 1.4                      |
| Overvoltage protection              |  |     |      | min 28.8V / max 32.4V    |
| Short-circuit protection            |  |     |      | Hiccup                   |
| Ripple & noise                      |  |     | mV   | 100                      |
| Parallel connection                 |  |     | Nr.  | No                       |
| Indications                         |  |     |      |                          |
| LED indicator for power on          |  |     |      | Yes                      |
| LED indicator for low voltage       |  |     |      | No                       |
| Power Rdy (Ready - minimum limit)   |  |     |      | No                       |

## Connections

|                                 |       |                 |     |
|---------------------------------|-------|-----------------|-----|
| Terminals type                  | Screw |                 |     |
| Tightening torque for terminals | max   | Nm              | 0.5 |
|                                 | max   | lbin            | 5   |
| Conductor cross section         |       |                 |     |
| AWG/Kcmil                       | min   | AWG             | 26  |
|                                 | Max   | AWG             | 12  |
| IEC                             | min   | mm <sup>2</sup> | 0.2 |
|                                 | Max   | mm <sup>2</sup> | 2.5 |
| Cable stripping lenght          |       | mm              | 4-5 |

## Ambient conditions

|                          |     |      |                    |
|--------------------------|-----|------|--------------------|
| Temperature              |     |      |                    |
| Operating temperature    | min | °C   | -25                |
|                          | max | °C   | +71                |
| Storage temperature      | min | °C   | -40                |
|                          | max | °C   | +85                |
| Derating                 |     | %/°C | 2.5%/°C above 50°C |
| Relative humidity        |     | %    | <95%               |
| Maximum Pollution degree |     |      | 2                  |
| Max altitude             |     | m    | 5000               |

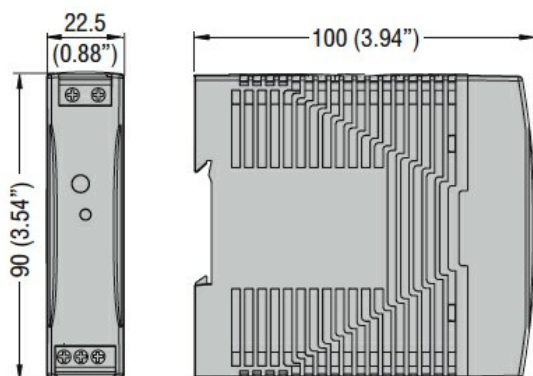
## Housing

|                          |         |                 |  |
|--------------------------|---------|-----------------|--|
| Material                 | Plastic |                 |  |
| IEC degree of protection | IP20    |                 |  |
| Dimensions (W x H x D)   | mm      | 22.5 x 90 x 100 |  |
| Weight                   | g       | 140             |  |

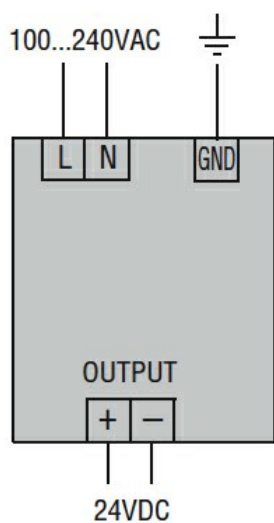
## Installations

|                       |                                           |  |  |
|-----------------------|-------------------------------------------|--|--|
| Mounting              | On 35mm DIN rail                          |  |  |
| Installation position | Vertical (other directions with derating) |  |  |
| Cooling System        | Free air convection                       |  |  |

## Dimensions



## Wiring diagrams



### Certifications and compliance

#### Compliance

CSA C22.2 n° 107.1.

IEC/EN/BS 61000-6-2

IEC/EN/BS 61000-6-3

IEC/EN/BS 62368-1

UL 508

#### Certificates

cULus

EAC

RCM

### ETIM classification

ETIM 8.0

EC002540 - DC-  
power supply