



|                                     |  |     |      |                          |
|-------------------------------------|--|-----|------|--------------------------|
| Product designation                 |  |     |      | Switching power supplies |
| Product type designation            |  |     |      | PSL1                     |
| 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  | 90                       |
|                                     |  | Max | VDC  | 375                      |
| Rated frequency                     |  |     | Hz   | 50/60                    |
| Operational frequency               |  |     |      |                          |
|                                     |  | min | Hz   | 47                       |
|                                     |  | max | Hz   | 63                       |
| Current consumption Max             |  |     | mA   | 800                      |
| 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  | 24                       |
|                                     |  | Max | VDC  | 28                       |
| Rated output current                |  |     | A    | 1.25                     |
| Rated output power                  |  |     | W    | 30                       |
| Temperature coefficient             |  |     | %/°C | ±0.03                    |
| Line adjustment                     |  |     | %    | ±0.5                     |
| Load adjustment                     |  |     | %    | ±0.5                     |
| Efficiency                          |  |     | %    | 86                       |
| Overload protection                 |  |     |      | 110...150%               |
| Short-circuit protection            |  |     |      | Fold forward             |
| Ripple & noise                      |  |     | mV   | 50                       |
| Parallel connection                 |  |     | Nr.  | No                       |
| Indications                         |  |     |      |                          |
| LED indicator for power on          |  |     |      | Yes                      |
| LED indicator for low voltage       |  |     |      | No                       |
| Power Rdy (Ready - minimum limit)   |  |     |      | Yes                      |
| Connections                         |  |     |      |                          |
| Terminals type                      |  |     |      | Screw                    |
| Ambient conditions                  |  |     |      |                          |

## Temperature

### Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +71 |

### Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -40 |
| max | °C | +85 |

### Derating

|      |                    |
|------|--------------------|
| %/°C | 2.5%/°C above 60°C |
|------|--------------------|

## Housing

### Material

Plastic

### IEC degree of protection

IP20

### Dimensions (W x H x D)

mm 40.5 x 90 x 115

### Weight

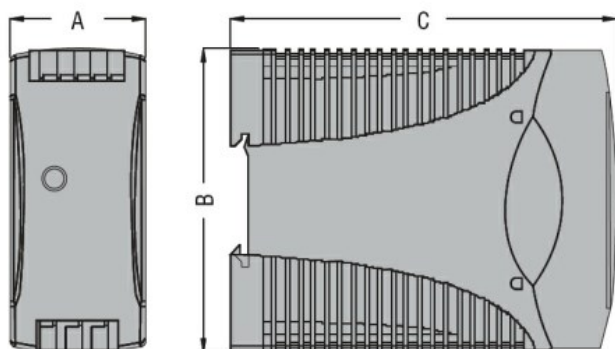
g 336

## Installations

### Mounting

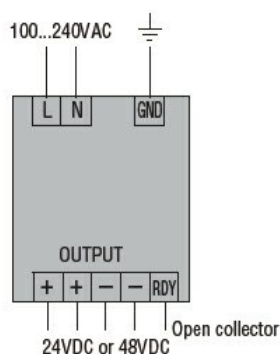
On 35mm DIN rail

## Dimensions



| TYPE        | A            | B          | C           |
|-------------|--------------|------------|-------------|
| PSL1 005 24 | 22.5 (0.88") | 90 (3.54") | 115 (4.53") |
| PSL1 010 24 | 22.5 (0.88") | 90 (3.54") | 115 (4.53") |
| PSL1 018 24 | 22.5 (0.88") | 90 (3.54") | 115 (4.53") |
| PSL1 030... | 40.5 (1.59") | 90 (3.54") | 115 (4.53") |
| PSL1 060... | 40.5 (1.59") | 90 (3.54") | 115 (4.53") |
| PSL1 100... | 54 (2.12")   | 90 (3.54") | 115 (4.53") |
| PSL2 100... | 54 (2.12")   | 90 (3.54") | 115 (4.53") |
| PSLR 20 24  | 54 (2.12")   | 90 (3.54") | 115 (4.53") |

## Wiring diagrams



## Certifications and compliance

### Compliance

CSA C22.2 n°14

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