



|                                     |  |  |                          |                                           |
|-------------------------------------|--|--|--------------------------|-------------------------------------------|
| Product designation                 |  |  | Switching power supplies |                                           |
| Product type designation            |  |  | PSL1                     |                                           |
| Input characteristics               |  |  |                          |                                           |
| Input type                          |  |  | Single-phase             |                                           |
| Rated supply voltage AC             |  |  | VAC                      | Self-configurable 115...230               |
| Operating range                     |  |  | V                        | 90...132VAC - 180...264VAC / 210...375VDC |
| Rated frequency                     |  |  | Hz                       | 50/60                                     |
| Operational frequency               |  |  | min                      | Hz 47                                     |
|                                     |  |  | max                      | Hz 63                                     |
| Current consumption Max             |  |  | mA                       | 6A (90VAC) / 3A (180VAC)                  |
| PFC                                 |  |  | 0.7                      |                                           |
| Insulation voltage Input/Output     |  |  | AC                       | VAC 3000                                  |
|                                     |  |  | DC                       | VAC 4242                                  |
| Internal fuse (250VAC)              |  |  | T8A 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                        | 12.5                                      |
| Rated output power                  |  |  | W                        | 300                                       |
| Temperature coefficient             |  |  | %/°C                     | ±0.03                                     |
| Line adjustment                     |  |  | %                        | ±0.5                                      |
| Load adjustment                     |  |  | %                        | ±1                                        |
| Efficiency                          |  |  | %                        | 89                                        |
| Overload protection                 |  |  | 120...145%               |                                           |
| Short-circuit protection            |  |  | Fold forward             |                                           |
| Ripple & noise                      |  |  | mV                       | 100                                       |
| Parallel connection                 |  |  | Nr.                      | 3                                         |
| Indications                         |  |  |                          |                                           |
| LED indicator for power on          |  |  | Yes                      |                                           |
| LED indicator for low voltage       |  |  | Yes                      |                                           |
| Power Rdy (Ready - minimum limit)   |  |  | Yes                      |                                           |
| Connections                         |  |  |                          |                                           |
| Terminals type                      |  |  | Screw                    |                                           |
| Ambient conditions                  |  |  |                          |                                           |
| Temperature                         |  |  | Operating temperature    |                                           |

|                     |     |    |     |
|---------------------|-----|----|-----|
| Storage temperature | min | °C | -30 |
|                     | max | °C | +71 |

|          |     |      |                    |
|----------|-----|------|--------------------|
| Derating | min | °C   | -40                |
|          | max | °C   | +85                |
|          |     | %/°C | 2.5%/°C above 56°C |

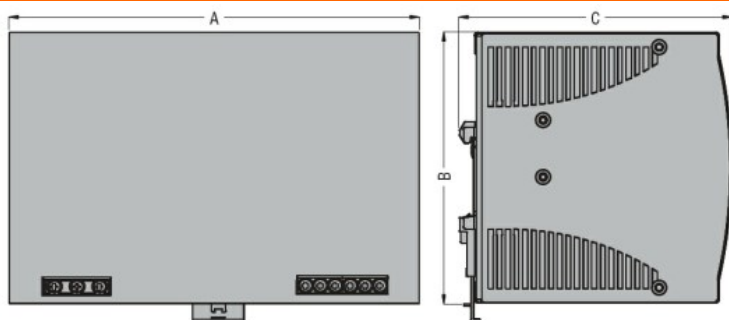
## Housing

|                          |                         |
|--------------------------|-------------------------|
| Material                 | Metal                   |
| IEC degree of protection | IP20                    |
| Dimensions (W x H x D)   | mm 83.5 x 124.5 x 123.6 |
| Weight                   | g 1496                  |

## Installations

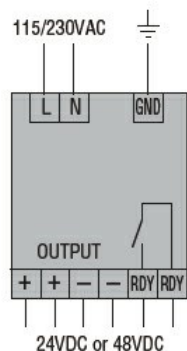
|          |                  |
|----------|------------------|
| Mounting | On 35mm DIN rail |
|----------|------------------|

## Dimensions



| TYPE        | A              | B             | C             |
|-------------|----------------|---------------|---------------|
| PSL1 120... | 64 (2.52")     | 124.5 (4.90") | 123.6 (4.87") |
| PSL1 240... | 83.5 (3.29")   | 124.5 (4.90") | 123.6 (4.87") |
| PSL1 300... | 83.5 (3.29")   | 124.5 (4.90") | 123.6 (4.87") |
| PSL1 480... | 175.5 (6.91")  | 124.5 (4.90") | 123.6 (4.87") |
| PSL3 120 24 | 74.3 (2.92")   | 124 (4.88")   | 118.8 (4.68") |
| PSL3 240... | 89 (3.50")     | 124 (4.88")   | 118.8 (4.68") |
| PSL3 480... | 150 (5.90")    | 124 (4.88")   | 118.8 (4.68") |
| PSL3 960... | 275.8 (10.86") | 125.9 (4.96") | 120.3 (4.74") |

## 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