



|                                     |                          |                           |       |
|-------------------------------------|--------------------------|---------------------------|-------|
| Product designation                 | Switching power supplies |                           |       |
| Product type designation            | PSL1                     |                           |       |
| <b>Input characteristics</b>        |                          |                           |       |
| Input type                          | Single-phase             |                           |       |
| Rated supply voltage AC             | VAC                      | Multivoltage<br>100...240 |       |
| Operating range                     |                          |                           |       |
| AC                                  | min                      | VAC                       | 90    |
|                                     | 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                        | 500   |
| Insulation voltage Input/Output     | AC                       | VAC                       | 3000  |
|                                     | DC                       | VAC                       | 4242  |
| Internal fuse (250VAC)              | T2A 250VAC               |                           |       |
| <b>Output characteristics</b>       |                          |                           |       |
| Rated output voltage DC             |                          | VDC                       | 24    |
| Voltage trimming (potentiometer) DC | min                      | VDC                       | 21.6  |
|                                     | Max                      | VDC                       | 28.8  |
| Rated output current                |                          | A                         | 0.75  |
| Rated output power                  |                          | W                         | 18    |
| Temperature coefficient             |                          | %/°C                      | ±0.03 |
| Line adjustment                     |                          | %                         | ±1    |
| Load adjustment                     |                          | %                         | ±2    |
| Efficiency                          |                          | %                         | 77    |
| Overload protection                 | 110...140%               |                           |       |
| Short-circuit protection            | Hiccup                   |                           |       |
| Ripple & noise                      |                          | mV                        | 50    |
| Parallel connection                 |                          | Nr.                       | No    |
| <b>Indications</b>                  |                          |                           |       |
| LED indicator for power on          | Yes                      |                           |       |
| LED indicator for low voltage       | Yes                      |                           |       |
| Power Rdy (Ready - minimum limit)   | No                       |                           |       |
| <b>Connections</b>                  |                          |                           |       |
| Terminals type                      | Screw                    |                           |       |
| <b>Ambient conditions</b>           |                          |                           |       |

Temperature

Operating temperature

|     |    |     |
|-----|----|-----|
| min | °C | -20 |
| max | °C | +71 |

Storage temperature

|     |    |     |
|-----|----|-----|
| min | °C | -25 |
| 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 22.5 x 90 x 115

Weight

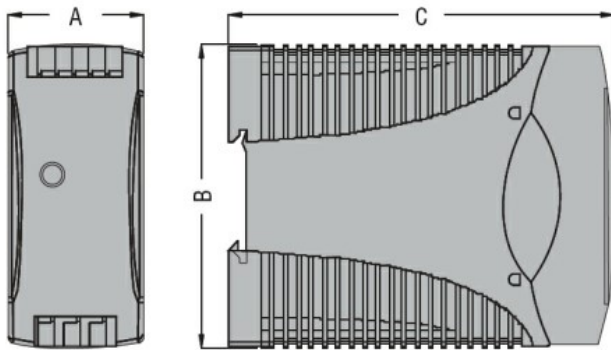
g 226

**Installations**

Mounting

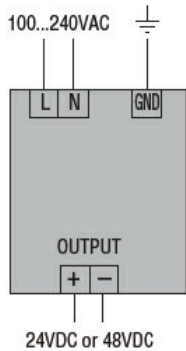
On 35mm DIN rail

**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