



Product designation

Switching power
supplies
PSL1

Product type designation

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 1500

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 2.5

Rated output power

W 60

Temperature coefficient

%/°C ±0.03

Line adjustment

% ±0.5

Load adjustment

% ±0.5

Efficiency

% 89

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

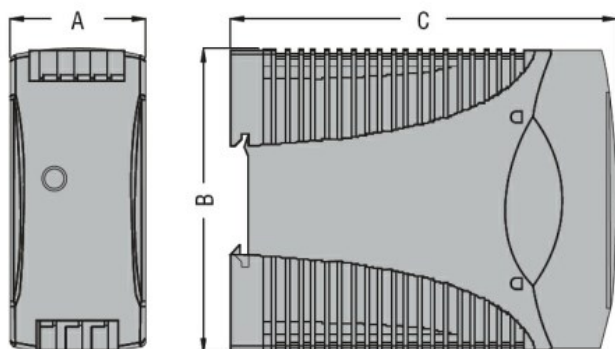
g 400

Installations

Mounting

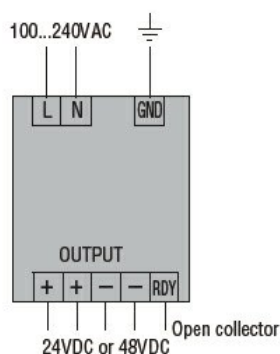
On 35mm DIN rail

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