



Product designation

Product type designation

Switching power
supplies
PSL1

Input characteristics

Input type

Single-phase

Rated supply voltage AC

VAC

Multivoltage
100...240

Operating range

AC

min
Max

VAC
VAC

85
264

DC

min
Max

VDC
VDC

90
375

Rated frequency

Hz

50/60

Operational frequency

min
max

Hz
Hz

47
63

Current consumption Max

mA

800

Insulation voltage Input/Output

AC
DC

VAC
VAC

3000
4242

Internal fuse (250VAC)

T2A 250VAC

Output characteristics

Rated output voltage DC

VDC

24

Voltage trimming (potentiometer) DC

min
Max

VDC
VDC

24
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

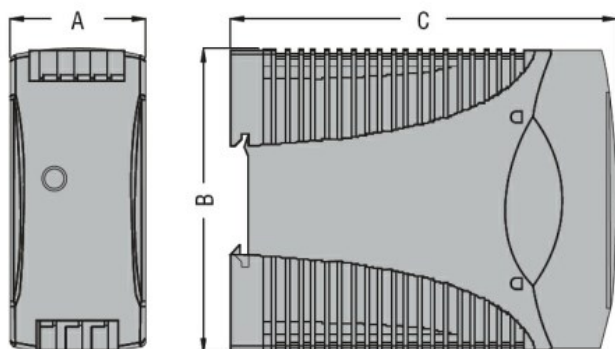
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Installations

Mounting

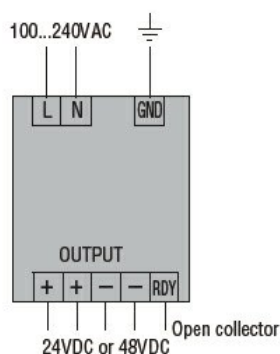
On 35mm DIN rail

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