



|                                     |  |     |      |                          |
|-------------------------------------|--|-----|------|--------------------------|
| Product designation                 |  |     |      | Switching power supplies |
| Product type designation            |  |     |      | PSL3                     |
| Input characteristics               |  |     |      |                          |
| Input type                          |  |     |      | Three-phase              |
| Rated supply voltage AC             |  |     | VAC  | Multivoltage 400...500   |
| Operating range                     |  |     |      |                          |
| AC                                  |  | min | VAC  | 340                      |
|                                     |  | Max | VAC  | 575                      |
| DC                                  |  | min | VDC  | 480                      |
|                                     |  | Max | VDC  | 820                      |
| Rated frequency                     |  |     | Hz   | 50/60                    |
| Operational frequency               |  |     |      |                          |
|                                     |  | min | Hz   | 47                       |
|                                     |  | max | Hz   | 63                       |
| Current consumption Max             |  |     | mA   | 1400                     |
| PFC                                 |  |     |      | 0.65                     |
| Insulation voltage Input/Output     |  |     |      |                          |
|                                     |  | AC  | VAC  | 3000                     |
|                                     |  | DC  | VAC  | 4242                     |
| Internal fuse (250VAC)              |  |     |      | T3 15A 500VAC            |
| Output characteristics              |  |     |      |                          |
| Rated output voltage DC             |  |     | VDC  | 24                       |
| Voltage trimming (potentiometer) DC |  |     |      |                          |
|                                     |  | min | VDC  | 22.5                     |
|                                     |  | Max | VDC  | 28.5                     |
| Rated output current                |  |     | A    | 20                       |
| Rated output power                  |  |     | W    | 480                      |
| Temperature coefficient             |  |     | %/°C | ±0.03                    |
| Line adjustment                     |  |     | %    | ±1                       |
| Load adjustment                     |  |     | %    | ±1                       |
| Efficiency                          |  |     | %    | 90                       |
| Overload protection                 |  |     |      | 110...135%               |
| Short-circuit protection            |  |     |      | Fold forward             |
| Ripple & noise                      |  |     | mV   | 100                      |
| Parallel connection                 |  |     | Nr.  | 2                        |
| 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

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

#### Storage temperature

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

### Derating

|      |                       |
|------|-----------------------|
| %/°C | 2.5%/°C above<br>60°C |
|------|-----------------------|

## Housing

### Material

Metal

### IEC degree of protection

IP20

### Dimensions (W x H x D)

|    |                      |
|----|----------------------|
| mm | 150 x 124 x<br>118.8 |
|----|----------------------|

### Weight

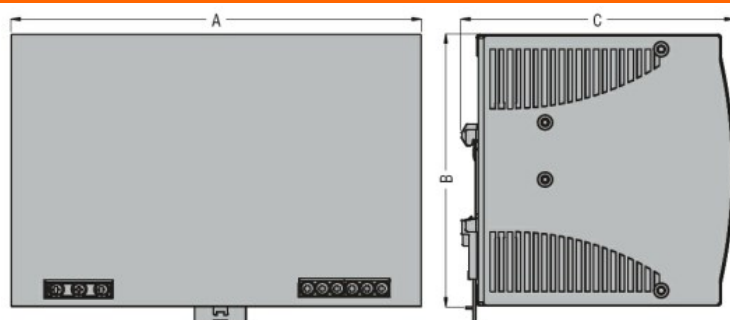
|   |      |
|---|------|
| g | 1995 |
|---|------|

## Installations

### Mounting

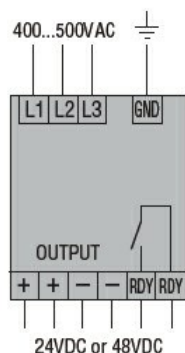
On 35mm DIN  
rail

## 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