

|                                     |                       |     |      |                                 |
|-------------------------------------|-----------------------|-----|------|---------------------------------|
| 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                    |     |      | 2400                            |
| Insulation voltage Input/Output     | AC                    | VAC | 3000 |                                 |
|                                     | DC                    | VAC | 4242 |                                 |
| Internal fuse (250VAC)              |                       |     |      | T3 15A                          |
| <b>Output characteristics</b>       |                       |     |      |                                 |
| Rated output voltage DC             | VDC                   |     |      | 48                              |
| Voltage trimming (potentiometer) DC |                       | min | VDC  | 47                              |
|                                     |                       | Max | VDC  | 56                              |
| Rated output current                | A                     |     |      | 2.1                             |
| Rated output power                  | W                     |     |      | 100                             |
| Temperature coefficient             | %/°C                  |     |      | 0.03                            |
| Line adjustment                     | %                     |     |      | ±1                              |
| Load adjustment                     | %                     |     |      | ±1                              |
| Efficiency                          | %                     |     |      | 88                              |
| Overload protection                 |                       |     |      | 110...140%                      |
| Short-circuit protection            |                       |     |      | Fold forward                    |
| Ripple & noise                      | mV                    |     |      | 50                              |
| <b>Indications</b>                  |                       |     |      |                                 |
| LED indicator for power on          |                       |     |      | Yes                             |
| LED indicator for low voltage       |                       |     |      | Yes                             |
| Power Rdy (Ready - minimum limit)   |                       |     |      | Yes (relay output<br>- 17.6VDC) |
| <b>Connections</b>                  |                       |     |      |                                 |
| Terminals type                      |                       |     |      | Screw                           |
| <b>Ambient conditions</b>           |                       |     |      |                                 |
| Temperature                         | Operating temperature | min | °C   | -35                             |
|                                     |                       | max | °C   | +71                             |
|                                     | Storage temperature   | min | °C   | -40                             |
|                                     |                       | max | °C   | +85                             |
| Derating                            | %/°C                  |     |      | 2.5                             |

**Housing**

|                          |         |               |
|--------------------------|---------|---------------|
| Material                 | Plastic |               |
| IEC degree of protection | IP20    |               |
| Dimensions (W x H x D)   | mm      | 54 x 90 x 115 |
| Weight                   | g       | 508           |

**Installations**

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

**Dimensions**

**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