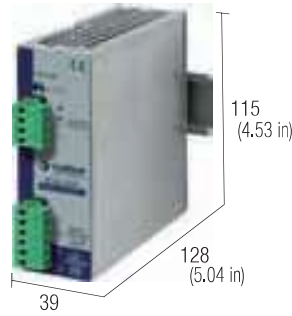


# Single-phase switching power supply 120-230 Vac output power 120 W

- Single-phase input 90...264 Vac
- Short circuit, overload, over temperature, input and output overvoltage protections
- Suitable in civil automation and general applications in the installation of systems
- Suitable for applications in SELV and PELV circuits



## NOTES

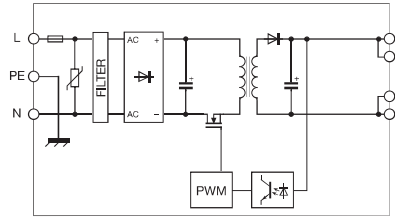
The depth dimension includes the terminal blocks and the DIN clamp.

(3) Over 45°C (113°F) apply a derating of -0.08 A/°C

(4) For this peak current, the output voltage does not drop more than 10% of the nominal value, but the current value, provided by the power supply also depends on the total line resistance.

(5) Version available after September 2011

## BLOCK DIAGRAM



Items sold until sell-out, will be replaced by **CSL120C** series

## VERSIONS

- Output 24 Vdc 5 A
- Output 24 Vdc 5 A

Cod. XCSL120C

CSL120C (5)

Cod. XCSP120C

CSP120C

## INPUT TECHNICAL DATA

Input rated voltage

**120-230 Vac** (range 90...264 Vac)

Frequency

47...63 Hz

Current @ nominal Iout (Uin 120 / 230 Vac)

1.9 A / 1.1 A ± 10%

Inrush peak current

< 20 A

Power factor

> 0.65

Internal protection fuse

T 3.15 A replaceable

External protection on AC line

circuit breaker: 4 A - C characteristic - fuse: T 4 A

## OUTPUT TECHNICAL DATA

Output rated voltage

**24 Vdc**

**24 Vdc**

Output adjustable range

23...27.5 Vdc

23...27.5 Vdc

Continuous current

**5 A @ 45°C (3)**

**5 A @ 45°C (3)**

Overload limit

8 A per >30 s con Uout > 90% Un (4)

>6 A (4)

Short circuit peak current

13 A per 50 ms (4)

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Load regulation

< 1%

< 1%

Ripple @ nominal ratings

30 mVpp

≤ 40 mVpp

Hold up time @ In (Uin 120 / 230 Vac)

>17 ms / >72 ms

>10 ms / >20 ms

Overload / short circuit protections

hiccup at the overload limit with auto reset / over temperature protection

Status display

"DC OK" green LED

Alarm contact threshold

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Parallel connection

possible

Redundant parallel connection

possible with external ORing diode

## GENERAL TECHNICAL DATA

Efficiency (Uin 120 / 230 Vac)

>87% / >91%

>86% / >90%

Dissipated power (Uin 120 / 230 Vac)

18 W / 12 W

19 W / 13 W

Operating temperature range

-20...+60°C, with derating over 45°C / over temperature protection (3)

Input/output isolation

3 kVac / 60 s SELV output

Input/ground isolation

1.5 kVac / 60 s

Output/ground isolation

0.5 kVac / 60 s

Standard/approvals

EN50178, EN61558, EN60950, IEC950, UL508

EMC Standards

EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11

MTBF @ 25°C @ nominal ratings

>400'000 h acc. to SN 29500 / >100'000 h acc. to MIL Std. HDBK 217F

Overvoltage category/Pollution degree

II / 2

Protection degree

IP 20 IEC 529, EN60529

Connection terminal

2.5 mm<sup>2</sup> pluggable screw type

Housing material

aluminium and stainless steel

Approx. weight

400 g (14.10 oz)

Mounting information

vertical on rail, allow 10 mm spacing between adjacent components

## MOUNTING ACCESSORIES

Mounting rail type according to IEC60715/TH35-7.5

**PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB**

Mounting rail type according to IEC60715/G32