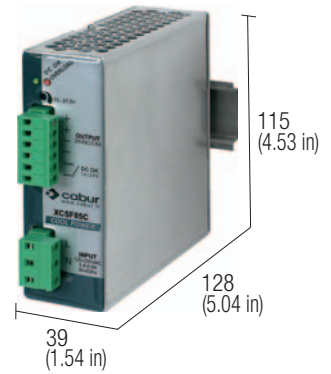


Single-phase switching power supply 120-230 Vac output power 85 W

- Single-phase input 90...264 Vac and DC 100...345 Vdc
- Short circuit, overload, over temperature, input and output overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- Failure contact for Uout -10%
- Compact dimensions
- Suitable for applications in SELV and PELV circuits

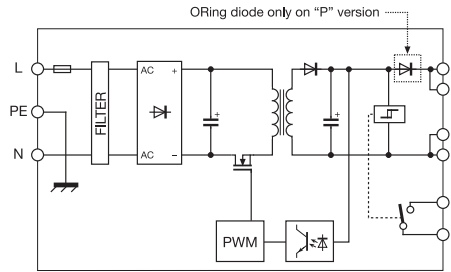


NOTES

The depth dimension includes the DIN rail clamp.

- (2) With 100...127 Vdc input voltage, constant output power and $T_a > 45^\circ\text{C}$, the output current must be derated by 25%
- (3) Over 45°C (113°F) apply derating: CSF3-CSF3P: $-0.06\text{ A}/^\circ\text{C}$ for version C, CP and CPH; $-0.10\text{ A}/^\circ\text{C}$ for version B
- (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) Only on version CSF85CP, for orders, adds the letter H to the code (XCSF85CPH)

BLOCK DIAGRAM



VERSIONS

- Output 24 Vdc 3.5 A
- Output 24 Vdc 3.5 A redundant version
- Output 12...15 Vdc 6 A
- Output 48 Vdc 1.8 A

INPUT TECHNICAL DATA

- Input rated voltage
- Frequency
- Current @ nominal Iout (Uin 120 / 230 Vac)
- Inrush peak current
- Power factor
- Internal protection fuse
- External protection on AC line

OUTPUT TECHNICAL DATA

- Output rated voltage
- Output adjustable range
- Continuous current
- Overload limit
- Short circuit peak current
- Load regulation
- Ripple @ nominal ratings
- Hold up time @ In (Uin 120 / 230 Vac)
- Overload / short circuit protections
- Status display
- Alarm contact threshold
- Parallel connection
- Redundant parallel connection

GENERAL TECHNICAL DATA

- Efficiency (Uin 120 / 230 Vac)
- Dissipated power (Uin 120 / 230 Vac)
- Operating temperature range
- Input/output isolation
- Input/ground isolation
- Output/ground isolation
- Standard/approvals
- EMC Standards
- MTBF @ 25°C @ nominal ratings
- Overvoltage category/Pollution degree
- Protection degree
- Connection terminal
- Housing material
- Approx. weight
- Mounting information

MOUNTING ACCESSORIES

- Mounting rail type according to IEC60715/TH35-7.5
- Mounting rail type according to IEC60715/G32

Cod. XCSF85C

CSF85C

Cod. XCSF85CP

CSF85CP

Cod. XCSF85B

CSF85B

120-230 Vac (range 90...264 Vac / 100...345 Vdc) (2)

47...63 Hz

1.6 A / 0.9 A $\pm 10\%$

< 20 A

> 0.65

T 2 A replaceable

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

24 Vdc

23...27.5 Vdc

3.5 A @ 50°C (3)

6 A for >30 s

with Uout >90% Un (4)

10 A for 50 ms (4)

< 1%

$\leq 70\text{ mVpp}$

>20 ms / >70 ms

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

"DC OK" green LED / "DC OK" alarm contact/ "Overload" red LED

21.6 Vdc

possible

possible with external ORing diode

factory provided with internal ORing diode

possible with external ORing diode

12...15 Vdc

12...15 Vdc

6 A @ 50°C (3)

9 A for >30 s

with Uout >90% Un (4)

10 A for 50 ms (4)

< 1%

$\leq 30\text{ mVpp}$

>15 ms / >60 ms

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

"DC OK" green LED / "DC OK" alarm contact/ "Overload" red LED

10.8 Vdc

possible

possible with external ORing diode

factory provided with internal ORing diode

possible with external ORing diode

>86% / >90%

14 W / 10 W

-20...+60°C, with derating over 50°C / over temperature protection (3)

3 kVac / 60 s SELV output

1.5 kVac / 60 s

0.5 kVac / 60 s

EN50178, EN61558, EN60950, IEC950, UL508, UL60950

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

>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F

II (3)

IP 20 IEC 529, EN60529

2.5 mm² pluggable screw type

aluminium

400 g (14.12 oz)

vertical on rail, allow 10 mm spacing between adjacent components

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