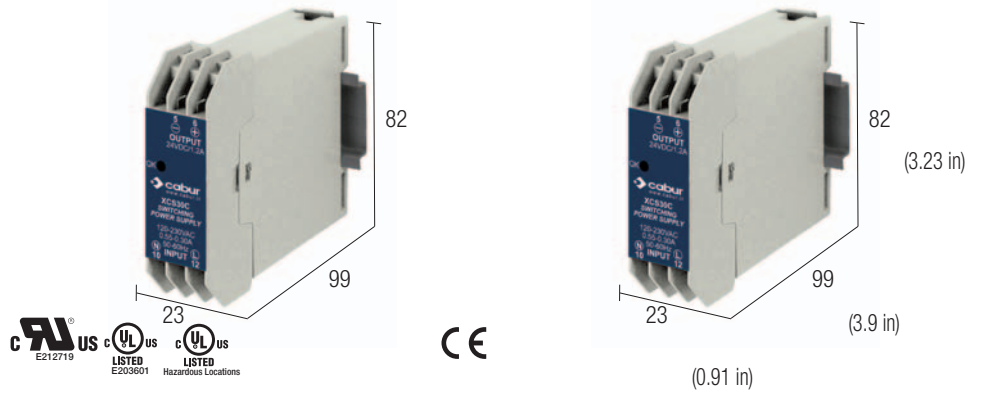


# Single-phase switching power supply 120-230 Vac output power 30 W

- Single-phase input 90...264 Vac and DC 100...320 Vdc
- Short circuit, overload, over temperature protection
- Isolation Class 2, no grounding needed
- Compact dimensions
- Suitable for applications in SELV and PELV circuits

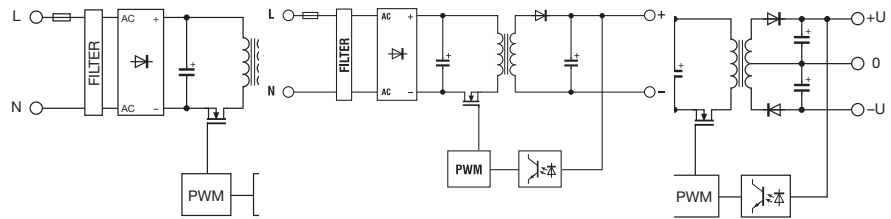


## NOTES

The depth dimension includes the DIN rail clamp.

- (1) Version available upon request; for information call our sales department, local agent or representative
- (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  $50^\circ\text{C}$  ( $122^\circ\text{F}$ ) apply a derating: C version:  $-0.03\text{ A}/^\circ\text{C}$ ; B version:  $-0.038\text{ A}/^\circ\text{C}$ ; F version:  $-0.013\text{ A}/^\circ\text{C}$
- (4) Overload and short circuit current depends on the total line resistance.

## BLOCK DIAGRAM



## VERSIONS

- Output 24 Vdc 1.2 A
- Output 10...15 Vdc 1.5 A
- Output  $\pm 12... \pm 15\text{ Vdc}$  0.5 A

Cod. XCSF30C

Cod. XCSF30B

Cod. XCSF30F

CSF30C

CSF30B

CSF30F (1)

## INPUT TECHNICAL DATA

- Input rated voltage
- Frequency
- Current @ nominal lout ( $I_{in}$  120 / 230 Vac)
- Inrush peak current
- Power factor
- Internal protection fuse
- External protection on AC line

**120-230 Vac** (range 90...264 Vac / 100...320 Vdc) (2)

0.55 A / 0.3 A $\pm 10\%$	0.35 A / 0.2 A $\pm 10\%$
47...63 Hz	
$< 25\text{ A}$	
$> 0.60$	
T 1,25 A not replaceable	
circuit breaker: 2 A - C characteristic - fuse: T 2 A	

## 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 @  $I_n$  (In 120 / 230 Vac)
- Overload / short circuit protections
- Status display
- Alarm contact threshold
- Parallel connection
- Redundant parallel connection

**24 Vdc  $\pm 1\%$**

**12 - 15 Vdc**

**$\pm 12 \pm 15\text{ Vdc}$**

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10...15 Vdc

$\pm 12... \pm 15\text{ Vdc}$

**1.2 A @  $50^\circ\text{C}$  (3)**

**1.5...1 A @  $50^\circ\text{C}$  (3)**

**0.5 A @  $50^\circ\text{C}$  (3)**

1.4 A (4)

1.7...1.2 A (4)

0.8...0.6 A (4)

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- Load regulation
- Ripple @ nominal ratings
- Hold up time @  $I_n$  (In 120 / 230 Vac)
- Overload / short circuit protections
- Status display
- Alarm contact threshold
- Parallel connection
- Redundant parallel connection

$< 1\%$

$\leq 50\text{ mVpp}$

$> 10\text{ ms} / > 30\text{ ms}$

hiccup at the overload limit with auto reset

"DC OK" green LED

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possible

possible with external ORing diode

## GENERAL TECHNICAL DATA

- Efficiency ( $I_{in}$  120 / 230 Vac)
- Dissipated power ( $I_{in}$  120 / 230 Vac)
- Operating temperature range
- Input/output isolation
- Input/ground isolation
- Output/ground isolation
- Standard/approvals
- EMC Standards
- MTBF @  $25^\circ\text{C}$  @ nominal ratings
- Overvoltage category/Pollution degree
- Protection degree
- Connection terminal
- Housing material
- Approx. weight
- Mounting information

$> 86\% / > 87\%$
4.7 W / 4.3 W
$-20...+60^\circ\text{C}$ , with derating over $50^\circ\text{C}$ (3)
3 kVac / 60 s SELV output
class 2 without PE connection
class 2 without PE connection
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
$> 750'000\text{ h acc. to SN 29500} / > 250'000\text{ h acc. to MIL Std. HDBK 217F}$
II / 2
IP 20 IEC 529, EN60529
2.5 mm <sup>2</sup> fixed screw type
UL94V-0 plastic material
140 g (4.94 oz)
vertical on rail, allow 10 mm spacing between adjacent components

## MOUNTING ACCESSORIES

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

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