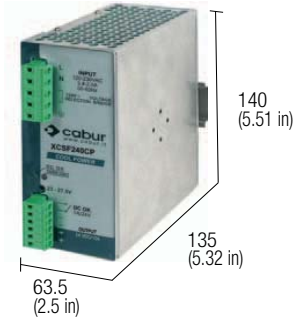


## Single-phase switching power supply 120-230 Vac output power 240 W

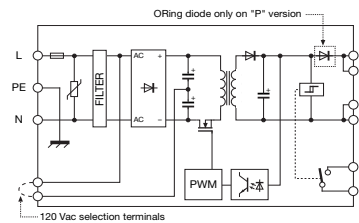
- Single-phase input 120 and 230 Vac
- Short circuit, overload, over temperature, input and output overvoltage protections
- High inrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- Failure contact for Uout -10%
- Compact dimensions
- Suitable for applications in SELV and PELV circuits



### NOTES

- The depth dimension includes the terminal blocks and the DIN clamp.
- (2) Double input selectable with external jumper, DC supply allow only between 300 and 345 Vdc
  - (3) Over 45°C (113°F) apply a derating: -0.17 A/°C for version C, CP and CPH; -0.27 A/°C for version B; -0.08 A/°C for version DP;
  - (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) Available ATEX version (II3G Ex nA nC IIC T4 Gc X), for order adds "-EX" to the code, example XCSF240C-EX.

### BLOCK DIAGRAM



Special version for DC motors

VERSIONS
Output 24 Vdc 10 A
Output 24 Vdc 10 A redundant version
Output 12...15 Vdc 16 A
Output 48 Vdc 5 A redundant version

Cod. XCSF240C	Cod. XCSF240CP	Cod. XCSF240B	XCSF240DP
CSF240C	CSF240CP	CSF240B	CSF240DP

INPUT TECHNICAL DATA	
Input rated voltage	120 - 230 Vac (range 90...132 Vac / 185...264 Vac / 300...345 Vdc) (2)
Frequency	47...63 Hz
Current @ nominal Iout (Uin 120 / 230 Vac)	3.5 A / 1.8 A ± 10%
Inrush peak current	< 35 A
Power factor	> 0.6
Internal protection fuse	T 6.3 A replaceable
External protection on AC line	circuit breaker: 10 A - C characteristic - fuse: T 10 A

OUTPUT TECHNICAL DATA	24 Vdc	12...15 Vdc	48 Vdc
Output rated voltage	23...27.5 Vdc	12...15 Vdc	45...55 Vdc
Output adjustable range	10 A @ 45°C (3)	16 A @ 45°C (3)	5 A @ 45°C (3)
Continuous current	15 A for >30 s	24 A for >30 s	7.5 A for >30 s
Overload limit	with Uout >90% Un (4)	with Uout >90% Un (4)	with Uout >90% Un (4)
Short circuit peak current	>25 A for 400 ms (4)	>25 A for 400 ms (4)	>25 A for 400 ms (4)
Load regulation	< 1%	< 1%	< 1%
Ripple @ nominal ratings	≤ 50 mVpp	≤ 50 mVpp	≤ 50 mVpp
Hold up time @ In (Uin 120 / 230 Vac)	>30 ms / >60 ms	>30 ms / >60 ms	>30 ms / >60 ms
Overload / short circuit protections	hiccup at the overload limit with auto reset / over temperature protection		
Status display	"DC OK" green LED / "DC OK" alarm contact/ "Overload" red LED		
Alarm contact threshold	21.6 Vdc	10.8 Vdc	43.2 Vdc
Parallel connection	possible with external ORing diode	possible with external ORing diode	possible with external ORing diode
Redundant parallel connection	factory provided with internal ORing diode	factory provided with internal ORing diode	factory provided with internal ORing diode

GENERAL TECHNICAL DATA	
Efficiency (Uin 120 / 230 Vac)	>88% / >90%
Dissipated power (Uin 120 / 230 Vac)	32 W / 27 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, UL60950
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	>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F
Overvoltage category/Pollution degree	II / 3
Protection degree	IP 20 IEC 529, EN60529
Connection terminal	2.5 mm <sup>2</sup> pluggable screw type
Housing material	aluminium
Approx. weight	920 g (32.48 oz)
Mounting information	vertical on rail, allow 10 mm spacing between adjacent components

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MOUNTING ACCESSORIES	
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Mounting rail type according to IEC60715/G32	—

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