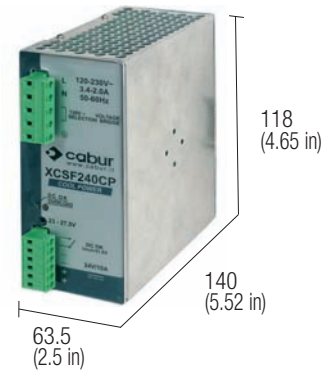


Single-phase switching power supply 120-230 Vac output power 240 W

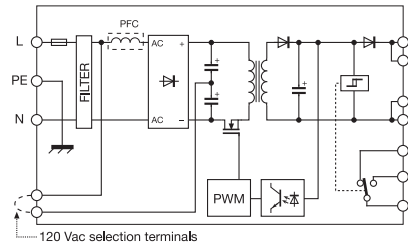
- Single-phase input 120 and 230 Vac
- Short circuit, overload, over temperature, input and output overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- Failure contact for Uout -10%
- Compact dimensions
- Suitable for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



NOTES

- The depth dimension includes the terminal blocks and the DIN clamp.
- (2) Double input selectable with external jumper, DC supply allow only between 300 and 350 Vdc
- (3) Over 50°C (122°F) apply a derating: C version, CP: -0.25 A/°C; B version: -0.4 A/°C; D version: -0.13 A/°C.
- (4) Overload and short circuit current depends on the total line resistance.

BLOCK DIAGRAM



VERSIONS

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

Cod. XCSF240C	Cod. XCSF240CP	Cod. XCSF240B	Cod. XCSF240D
CSF240C	CSF240CP	CSF240B	CSF240D

INPUT TECHNICAL DATA

Input rated voltage	120 - 230 Vac (range 90...132 Vac / 185...264 Vac / 300...350 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: 6 A C characteristic - fuse: T 6.3 A

OUTPUT TECHNICAL DATA

	24 Vdc 23...27.5 Vdc	12...15 Vdc 12...15 Vdc	48 Vdc 45...55 Vdc
Output rated voltage	23...27.5 Vdc	12...15 Vdc	45...55 Vdc
Output adjustable range	23...27.5 Vdc	12...15 Vdc	45...55 Vdc
Continuous current	10 A @ 50°C (3)	16 A @ 50°C (3)	5 A @ 50°C (3)
Overload limit	15 A for >30 s with Uout >Un x 0.9 (4)	14 A for >30 s with Uout >Un x 0.9 (4)	7.5 A for >30 s with Uout >Un x 0.9 (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	possible	possible
Redundant parallel connection	possible with external ORing diode	factory provided with internal ORing diode	possible with external ORing diode

GENERAL TECHNICAL DATA

Efficiency (Uin 120 / 230 Vac)	>88% / >90%	>87% / >90%	>88% / >90%
Dissipated power (Uin 120 / 230 Vac)	32 W / 27 W	35 W / 27 W	32 W / 27 W
Operating temperature range	-20...+60°C, with derating over 50°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 / 2		
Protection degree	IP 20 IEC 529, EN60529		
Connection terminal	2.5 mm² 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		

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	—