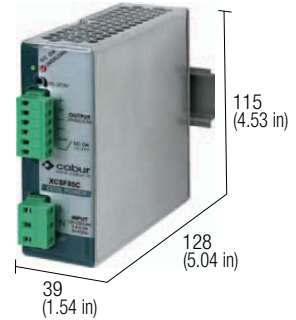


Single-phase switching power supply 120-230 Vac output power 85 W

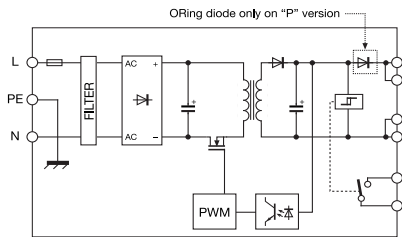
- Single-phase input 90...264 Vac and DC 100...345 Vdc
- Short circuit, overload, over temperature, input and output overvoltage protections
- High overtruss current to guarantee downstream overcurrent protections selectivity and to start-up heavy loads
- Failure contact for Uout -10%
- Compact dimensions
- 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) Available ATEX version (IIIG Ex nA nC IIC T4 Gc X), for order adds "-EX" to the code, example XCSF85C-EX.

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

Cod. XCSF85C Cod. XCSF85CP Cod. XCSF85B

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

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

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

	24 Vdc	12...15 Vdc
Output rated voltage	23...27.5 Vdc	12...15 Vdc
Continuous current	3.5 A @ 50°C (3)	6 A @ 50°C (3)
Overload limit	6 A for >30 s (3) with Uout >90% Un (4)	9 A for >30 s (3) with Uout >90% Un (4)
Short circuit peak current	10 A for 50 ms (4)	10 A for 50 ms (4)
Load regulation	< 1%	< 1%
Ripple @ nominal ratings	$\leq 70\text{ mVpp}$	$\leq 30\text{ mVpp}$
Hold up time @ In (Uin 120 / 230 Vac)	>20 ms / >70 ms	>15 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
Parallel connection	possible	possible
Redundant parallel connection	possible with external ORing diode	factory provided with internal ORing diode

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

Efficiency (Uin 120 / 230 Vac)	>86% / >90%	>83% / >87%
Dissipated power (Uin 120 / 230 Vac)	14 W / 10 W	17 W / 13 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 / 3	
Protection degree	IP 20 IEC 529, EN60529	
Connection terminal	2.5 mm ² pluggable screw type	
Housing material	aluminium	
Approx. weight	400 g (14.12 oz)	
Mounting information	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
