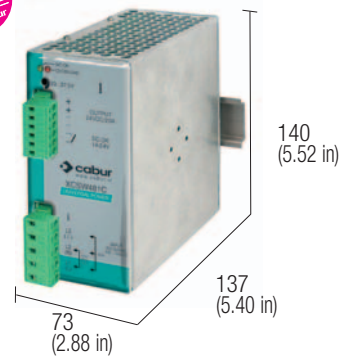


# 1, 2 or 3-phase switching power supply 230-400-500 Vac output power 480 W

- Single-phase, 2-phase and 3-phase input 185...550 Vac
- High reliability and immunity against over voltage due to failures on AC line
- 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
- High efficiency and low dissipated power
- Suitable for applications in SELV and PELV circuits



PRELIMINARE

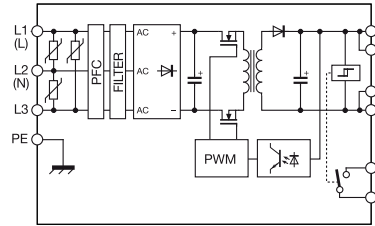


## NOTES

The depth dimension includes the terminal blocks and the DIN clamp.

- (1) Version available upon request; for information call our sales department, local agent or representative
- (2) 550 Vdc max for UL508
- (3) Over 45°C (113°F) apply a derating of about 16 W/°C
- (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) Version with 72 V output is not suitable for SELV applications

## BLOCK DIAGRAM



## VERSIONS

- Output 24 Vdc 20 A
- Output 12...15 Vdc 40 A
- Output 48 Vdc 10 A
- Output 72 Vdc 6 A

## INPUT

- Input rated voltage
- Frequency
- Current @ Iout max. (Uin 230 / 400 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 (Uin 230 / 400 Vac)
- Overload / short circuit protections
- Status display
- Alarm contact threshold
- Parallel connection
- Redundant parallel connection

## GENERAL TECHNICAL DATA

- Efficiency (Uin 230 / 400 Vac)
- Dissipated power (Uin 230 / 400 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. XCSW481C	Cod. XCSW481D	XCSW481G
CSW481C	-	
	CSW481D	
		CSW481G (1) (5)

1-2-3x **230-400-500 Vac** (range 187...550 Vac / 250...725 Vdc) (2)  
 47...63 Hz  
 2.2 A / 1 A  
 <20 A / <40 A  
 > 0.95  
 -  
 circuit breaker: 2-3x 6 A C characteristic - fuse: 2-3x T 6.3 A

	24 Vdc	48 Vdc	72 Vdc
Output rated voltage	23,3...27,5 Vdc	45...55 Vdc	72...85 Vdc
Output adjustable range	23,3...27,5 Vdc	45...55 Vdc	72...85 Vdc
Continuous current	<b>20 A @ 45°C</b> (3)	<b>10 A @ 45°C</b> (3)	<b>6 A @ 45°C</b> (3)
Overload limit	28 A per >5 s con Uout >90%Un (4)	14 A per >5 s con Uout >90%Un (4)	9 A per >5 s con Uout >90%Un (4)
Short circuit peak current	50 A per 0,3 s (4)	25 A per 0,3 s (4)	12 A per 0,3 s (4)
Load regulation	< 1%	< 1%	< 1%
Ripple @ nominal ratings	≤ 100 mVpp	≤ 100 mVpp	≤ 100 mVpp
Hold up time (Uin 230 / 400 Vac)	>20 ms / >20 ms	>20 ms / >20 ms	>20 ms / >20 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	43.2 Vdc	64.8 Vdc
Parallel connection	possible possible with external ORing diode	possible factory provided with internal ORing diode	possible factory provided with internal ORing diode

Efficiency (Uin 230 / 400 Vac)	>92% / >92%	>92% / >92%	>91% / >91%
Dissipated power (Uin 230 / 400 Vac)	42 W / 42 W	42 W / 42 W	42 W / 42 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 (5)		
Input/ground isolation	2 kVac / 60 s		
Output/ground isolation	0.5 kVac / 60 s		
Standard/approvals	EN50178, EN61558, EN60950, IEC950, UL508		
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 mm <sup>2</sup> pluggable screw type		
Housing material	aluminium and stainless steel		
Approx. weight	1 kg (35.3 oz)		
Mounting information	vertical on rail, allow 10 mm spacing between adjacent components		

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