

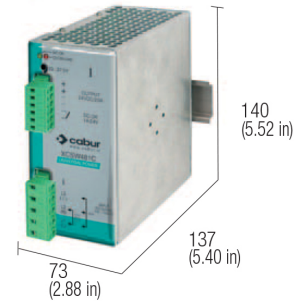
# XCSW481

## 1, 2 or 3 Phase

### Switching Power Supply

### 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



#### 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

#### 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

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

#### 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

	Cod. XCSW481C	Cod. XCSW481D	XCSW481G
	CSW481C	-	
		CSW481D	CSW481G (1) (5)
<b>24 Vdc</b>		<b>48 Vdc</b>	<b>72 Vdc</b>
Output rated voltage	23,3...27,5 Vdc	45...55 Vdc	72...85 Vdc
Output adjustable range	20 A @ 45°C (3)	10 A @ 45°C (3)	6 A @ 45°C (3)
Continuous current	28 A per >5 s	14 A per >5 s	9 A per >5 s
Overload limit	con Uout >90%Un (4)	con Uout >90%Un (4)	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	possible
Redundant parallel connection	possible with external ORing diode	factory provided with internal ORing diode	factory provided with internal ORing diode

#### 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

>92% / >92%  
42 W / 42 W  
-20...+60°C, with derating over 50°C / over temperature protection (3)  
3 kVac / 60 s SELV output (5)  
2 kVac / 60 s  
0.5 kVac / 60 s  
EN50178, EN61558, EN60950, IEC950, UL508  
EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11  
>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F  
II / 2  
IP 20 IEC 529, EN60529  
2.5 mm<sup>2</sup> pluggable screw type  
aluminium and stainless steel  
1 kg (35.3 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