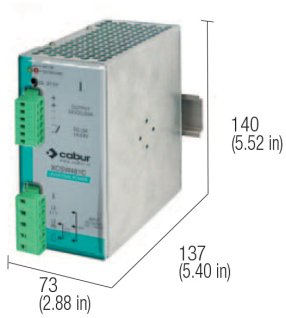
XCSW481
1, 2 or 3 Phase Switching Power Supply

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

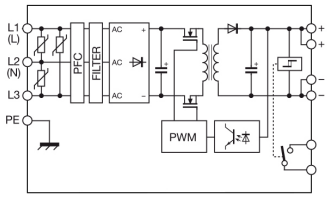
- Single-phase, 2-phase and 3-phase input 185...550 Vac
- High reliability and immunity against over voltage due to failures on AC line
- Short circuit, overload, over temperature, input and output overvoltage protections
- High outrush current to guarantee downstream overcurrent protections selectivity 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

BLOCK DIAGRAM



VERSIONS	Cod. XCSW481C		Cod. XCSW481D	XCSW481G
Output 24 Vdc 20 A	**CSW481C**			
Output 12…15 Vdc 40 A		-		
Output 48 Vdc 10 A			**CSW481D**	
Output 72 Vdc 6 A				**CSW481G** (1) (5)
INPUT				
Input rated voltage	1-2-3x **230-400-500 Vac** (range 187…550 Vac / 250…725 Vdc) (2)			
Frequency	47...63 Hz			
Current @ Iout max. (Uin 230 / 400 Vac)	2.2 A / 1 A			
Inrush peak current	<20 A / <40 A			
Power factor	> 0.95			
Internal protection fuse	–			
External protection on AC line	circuit breaker: 2-3x 6 A C characteristic - fuse: 2-3x T 6.3 A			
OUTPUT TECHNICAL DATA				
Output rated voltage	**24 Vdc**		**48 Vdc**	**72 Vdc**
Output adjustable range	23,3...27,5 Vdc		45…55 Vdc	72…85 Vdc
Continuous current	**20 A** @ 45°C (3)		**10 A** @ 45°C (3)	**6 A** @ 45°C (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	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)	>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 mm² 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			
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	—			