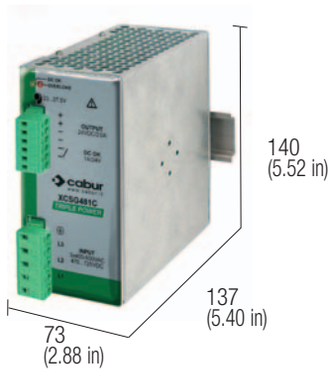
3-phase switching power supply 400-500 Vac output power 480 W

- 3-phase input 340...550 Vac or 2-phase with derating
- 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

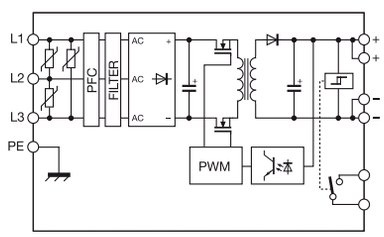
PRELIMINARE



NOTES

The depth dimension includes the DIN rail clamp.
(3) Over 50°C (122°F) apply a derating of about 6 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 available after January 2013

BLOCK DIAGRAM



VERSIONS	Cod. XCSG481C			
Output 24 Vdc 20 A	**CSG481C (5)**			
Output 12…15 Vdc 40 A		—		
Output 48 Vdc 10 A			—	
Output 72 Vdc 6 A				—
INPUT TECHNICAL DATA				
Input rated voltage	3x **400–500 Vac** (range 340…550 Vac)			
Frequency	47...63 Hz			
Current @ Iout max. (Uin 400 / 500 Vac)	1,2 A / 0,8 A			
Inrush peak current	<40 A			
Power factor	> 0,95			
Internal protection fuse	—			
External protection on AC line	circuit breaker: 3x 6 A C characteristic - fuse: 3x T 6,3 A			
OUTPUT TECHNICAL DATA				
Output rated voltage	**24 Vdc**			
Output adjustable range	23,3...27,5 Vdc			
Continuous current	**20 A** @ 45°C (3)			
Overload limit	28 A per >5 s with Uout >90%Un (4)			
Short circuit peak current	50 A per 0,3 s (4)			
Load regulation	< 1%			
Ripple @ nominal ratings	≤ 100 mVpp			
Hold up time (Uin 400 / 500 Vac)	>50 ms / >50 ms			
Overload / short circuit protections	hiccup at the overload limit with auto reset / over temperature protection (3)			
Status display	"DC OK" green LED / "DC OK" alarm contact			
Alarm contact threshold	21,6 Vdc			
Parallel connection	possible			
Redundant parallel connection	possible with external ORing diode			
GENERAL TECHNICAL DATA				
Efficiency (Uin 400 / 500 Vac)	>93% / >92%			
Dissipated power (Uin 400 / 500 Vac)	36 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			
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	4 mm² fixed screw type			
Housing material	aluminium			
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	—			