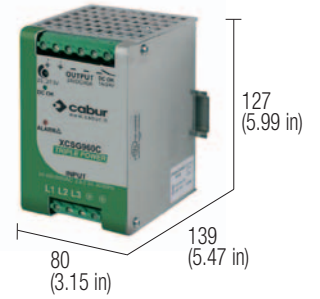


3-phase switching power supply 400-500 Vac output power 960 W

- 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
- Input protected by ASSIL circuit (Surge Suppressor and Inrush Limiter)

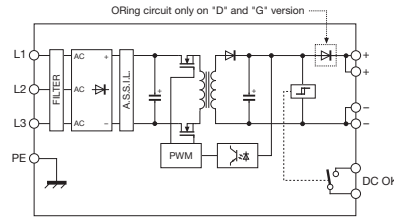


NOTES

The depth dimension includes the DIN rail clamp.

- (3) Over 50°C (122°F) apply a derating of about 18 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 CSG960G is not suitable for SELV applications

BLOCK DIAGRAM



Special version for DC motors

Special version for DC motors



VERSIONS	Cod. XCSG960C	Cod. XCSG960D	Cod. XCSG960G
Output 24 Vdc 40 A	CSG960C	—	—
Output 12...15 Vdc 80 A	—	—	—
Output 48 Vdc 20 A redundant version	—	CSG960D	—
Output 72 Vdc 13.3 A redundant version	—	—	CSG960G (5)
INPUT TECHNICAL DATA	3x 400-500 Vac (range 340...550 Vac)		
Input rated voltage	47...63 Hz		
Frequency	2.2 A / 1.1 A		
Current @ Iout max. (Uin 400 / 500 Vac)	< 20 A		
Inrush peak current	> 0.65		
Power factor	—		
Internal protection fuse	circuit breaker: 3x 10 A C characteristic - fuse: 3x T 10 A		
External protection on AC line	—		
OUTPUT TECHNICAL DATA	24 Vdc	48 Vdc	72 Vdc
Output rated voltage	24...28 Vdc	45...55 Vdc	72...85 Vdc
Output adjustable range	40 A @ 50°C (3)	20 A @ 50°C (3)	13.3 A @ 50°C (3)
Continuous current	56 A for >5 s	28 A for >5 s	18.6 A for >5 s
Overload limit	with Uout >90% Un (4)	with Uout >90% Un (4)	with Uout >90% Un (4)
Short circuit peak current	>90 A for 5 s (4)	>70 A for 5 s (4)	>30 A for 5 s (4)
Load regulation	< 1%	< 1%	< 1%
Ripple @ nominal ratings	100 mVpp	100 mVpp	≤ 100 mVpp
Hold up time (Uin 400 / 500 Vac)	>10 ms / >15 ms	>10 ms / >15 ms	>15 ms / >18 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	>94% / >94%	>94% / >94%	>92% / >92%
Efficiency (Uin 400 / 500 Vac)	61 W / 61 W	61 W / 61 W	85 W / 85 W
Dissipated power (Uin 400 / 500 Vac)	-20...+60°C, with derating over 50°C / over temperature protection (3)		
Operating temperature range	3 kVac / 60 s SELV output (5)		
Input/output isolation	2 kVac / 60 s		
Input/ground isolation	0.5 kVac / 60 s		
Output/ground isolation	EN50178, EN61558, EN60950, IEC950, UL508		
Standard/approvals	EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11		
EMC Standards	>500'000 h acc. to SN 29500 / >150'000 h acc. to MIL Std. HDBK 217F		
MTBF @ 25°C @ nominal ratings	II / 2		
Overvoltage category/Pollution degree	IP 20 IEC 529, EN60529		
Protection degree	6 mm² fixed screw type		
Connection terminal	aluminium		
Housing material	1,2 kg (70.55 oz)		
Approx. weight	vertical on rail, allow 10 mm spacing between adjacent components		
Mounting information	PR/3/AC, PR/3/AC/ZB, PR/3/AS, PR/3/AS/ZB		
MOUNTING ACCESSORIES	—		
Mounting rail type according to IEC60715/TH35-7.5	—		
Mounting rail type according to IEC60715/G32	—		