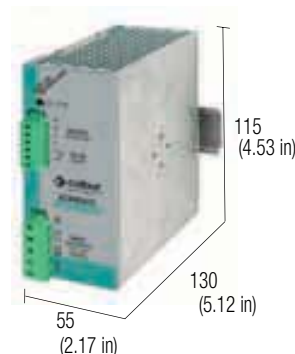


# 1, 2 or 3-phase switching power supply 230-400-500 Vac output power 240 W



- 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

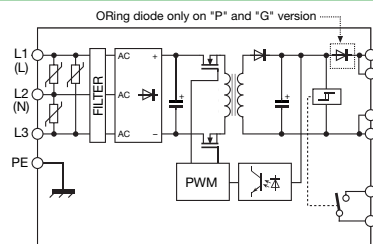


## NOTES

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 50°C (122°F) apply a derating of about 3 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 CSW241G is not suitable for SELV applications

## BLOCK DIAGRAM



## VERSIONS

- Output 24 Vdc 10 A
- Output 12...15 Vdc 16...15 A
- Output 48 Vdc 5 A redundant version
- Output 72 Vdc 3.3 A redundant version

## INPUT TECHNICAL DATA

Input rated voltage	1-2-3x 230-400-500 Vac (range 185...550 Vac / 270...770 Vdc) (2)
Frequency	47...63 Hz
Current @ Iout max. (Uin 230 / 400 Vac)	2 A / 1 A
Inrush peak current	< 20 A
Power factor	> 0.65
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	12...15 Vdc	48 Vdc	
Output adjustable range	24...27.5 Vdc	12...15 Vdc	45...55 Vdc	
Continuous current	10 A @ 50°C (3)	16 A @ 12 Vdc / 15 A @ 15 Vdc	5 A @ 50°C (3)	
Overload limit	15 A for >5 s with Uout >90% Un (4)	20...18 A for >5 s with Uout >90% Un (4)	6 A for >5 s with Uout >90% Un (4)	
Short circuit peak current	20 A for 0.5 s (4)	20 A for 0.5 s (4)	20 A for 0.5 s (4)	
Load regulation	< 1%	< 1%	< 1%	
Ripple @ nominal ratings	≤ 80 mVpp	≤ 80 mVpp	≤ 80 mVpp	
Hold up time (Uin 230 / 400 Vac)	>20 ms / >120 ms	>20 ms / >120 ms	>20 ms / >120 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	10.8 Vdc	43.2 Vdc	-
Parallel connection	possible	possible	possible	possible
Redundant parallel connection	possible with external ORing diode	possible with external ORing diode	possible with external ORing diode	possible with external ORing diode

## GENERAL TECHNICAL DATA

Efficiency (Uin 230 / 400 Vac)	>88% / >90%	>87% / >89%	>88% / >90%	
Dissipated power (Uin 230 / 400 Vac)	33 W / 27 W	34 W / 28 W	33 W / 27 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  
Mounting rail type according to IEC60715/G32

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