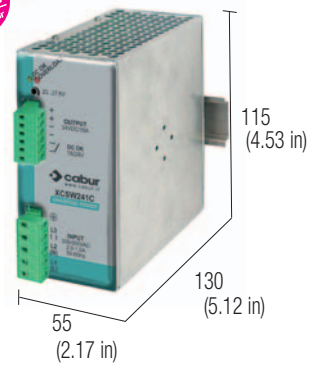


1, 2 or 3-phase switching power supply 230-400-500 Vac output power 240 W

- 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

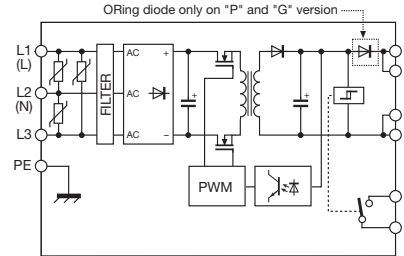


NOTES

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

| Cod. XCSW241C | Cod. XCSW241B | Cod. XCSW241DP | Cod. XCSW241G |
|---------------|---------------|----------------|-----------------|
| CSW241C | CSW241B | | |
| | | CSW241DP (1) | |
| | | | CSW241G (1) (5) |

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

| | 24 Vdc | 12...15 Vdc | 48 Vdc | 72 Vdc |
|--------------------------------------|--|--|--|--|
| Output rated voltage | 24...27.5 Vdc | 12...15 Vdc | 45...55 Vdc | 72...85 Vdc |
| Output adjustable range | 10 A @ 50°C (3) | 16 A @ 12 Vdc / 15 A @ 15 Vdc | 5 A @ 50°C (3) | 3,5 A (3) |
| Continuous current | 15 A per >6 s with Uout >90% Un (4) | 20...18 A per >6 s with Uout >90% Un (4) | 6 A per >6 s with Uout >90% Un (4) | 5 A per >6 s with Uout >90% Un (4) |
| Overload limit | 38 A for 0.5 s (4) | 34 A for 0.5 s (4) | 18 A for 0.5 s (4) | 13 A for 0.5 s (4) |
| Short circuit peak current | < 1% | < 1% | < 1% | < 1% |
| Load regulation | ≤ 100 mVpp | ≤ 100 mVpp | 100 mVpp | ≤ 100 mVpp |
| Ripple @ nominal ratings | >15 ms / >100 ms | >15 ms / >100 ms | >15 ms / >100 ms | >15 ms / >100 ms |
| Hold up time (Uin 230 / 400 Vac) | hiccup at the overload limit with auto reset / over temperature protection | | | |
| Overload / short circuit protections | "DC OK" green LED / "DC OK" alarm contact/ "Overload" red LED | | | |
| Status display | 21.6 Vdc | 10.8 Vdc | 43.2 Vdc | 64.8 Vdc |
| Alarm contact threshold | possible | possible | possible | possible |
| Parallel connection | possible with external ORing diode | possible with external ORing diode | factory provided with internal ORing diode | factory provided with internal ORing diode |
| Redundant parallel connection | | | | |

GENERAL TECHNICAL DATA

| | | | | |
|---------------------------------------|---|-------------|-------------|-------------|
| Efficiency (Uin 230 / 400 Vac) | >91% / >92% | >89% / >90% | >91% / >92% | >92% / >93% |
| Dissipated power (Uin 230 / 400 Vac) | 24 W / 21 W | 22 W / 20 W | 24 W / 21 W | 22 W / 19 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 mm ² 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 | — |