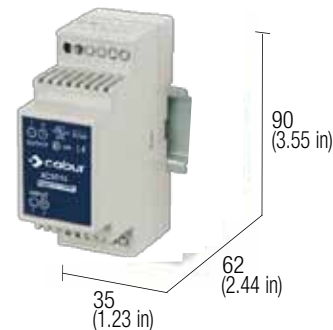


# Single-phase switching power supply 120-230 Vac output power 15 W



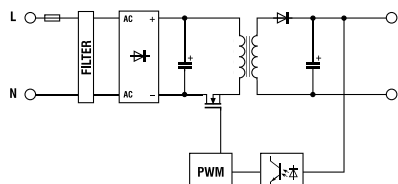
- Single-phase input 90...264 Vac and DC 100...315 Vdc
- Short circuit, overload, over temperature, input overvoltage protections
- Isolation Class 2, no grounding needed
- Compact dimensions
- Suitable for applications in SELV and PELV circuits



## NOTES

- The depth dimension includes the DIN rail clamp.
- (2) Over 50°C (122°F) apply a derating: C version: -0.015 A/°C; B version: -0.03 A/°C.
- (3) Overload and short circuit current depends on the total line resistance

## BLOCK DIAGRAM



## VERSIONS

- Output 24 Vdc 0.6 A
- Output 24 Vdc 0.6 A redundant version
- Output 12 Vdc 1.2 A
- Output 48 Vdc 0.3 A

## INPUT TECHNICAL DATA

|  |   |
|--|---|
| Input rated voltage                        | 120-230 Vac (range 90...264 Vac / 100...315 Vdc)      |
| Frequency                                  | 47...63 Hz  |
| Current @ nominal Iout (Uin 120 / 230 Vac) | 0.3 A / 0.16 A ± 10%                                  |
| Inrush peak current                        | < 5 A   |
| Power factor                               | > 0.6   |
| Internal protection fuse                   | T 1 A replaceable                                     |
| External protection on AC line             | circuit breaker: 2 A - C characteristic - fuse: T 2 A |

## OUTPUT TECHNICAL DATA

|                                       |  |                                    |
|---------------------------------------|--|------------------------------------|
| Output rated voltage                  | 24 Vdc ± 1%  | 12 Vdc ± 0.5 Vdc                   |
| Output adjustable range               | —  | —                                  |
| Continuous current                    | 0.6 A @ 50°C (2)   | 1.2 A @ 50°C (2)                   |
| Overload limit                        | 1.08 A (3)   | 2.16 A (3)                         |
| Short circuit peak current            | —  | —                                  |
| Load regulation                       | < 1%   | < 1%                               |
| Ripple @ nominal ratings              | ≤ 30 mVpp  | ≤ 30 mVpp                          |
| Hold up time @ In (Uin 120 / 230 Vac) | >12 ms / >20 ms  | >12 ms / >20 ms                    |
| Overload / short circuit protections  | hiccup at the overload limit with auto reset / over temperature protection |                                    |
| Status display                        | "DC OK" green LED  |                                    |
| Alarm contact threshold               | —  | —                                  |
| Parallel connection                   | possible   | possible                           |
| Redundant parallel connection         | possible with external ORing diode   | possible with external ORing diode |

## GENERAL TECHNICAL DATA

|                                       |   |             |
|---------------------------------------|---|-------------|
| Efficiency (Uin 120 / 230 Vac)        | >85% / >87%   | >85% / >87% |
| Dissipated power (Uin 120 / 230 Vac)  | 19 W / 13 W   | 21 W / 15 W |
| Operating temperature range           | -20...+60°C, with derating over 50°C / over temperature protection (2)                                  |             |
| Input/output isolation                | 3 kVac / 60 s SELV output   |             |
| Input/ground isolation                | class 2 without PE connection   |             |
| Output/ground isolation               | class 2 without PE connection   |             |
| 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         | >750'000 h acc. to SN 29500 / >250'000 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 fixed screw type  |             |
| Housing material                      | UL94V-0 plastic material  |             |
| Approx. weight                        | 130 g (5.12 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

# Modular switching power supply CSD series

## DOMOTIC POWER

Single phase switching power supplies with output power up to 70W for civil and industrial automation applications.

The housings have the standard dimensions for installation in DIN modular panels, and are **optimized for the deployment in the field of building automation**. The high performance and compact size make them an excellent solution for low-depth electrical panels.

The high efficiency and low dissipated power save energy and increase the life of the components.

### Suggested uses

- Applications in industrial automation
- Applications in civil automation
- General applications in systems fit into small remote panels

### Main features

- The 90...264 Vac and 110...370 Vdc input makes them suitable for use on all power supply lines.
- These power supplies are Insulation Class 2, thus they don't require grounding, which reduces costs and times during installation into remote panels, surveillance and monitoring systems.
- Their high efficiency reduces energy consumption and working temperature and allows their use in small panels.
- Their backup power allows the supply of continuous current at least +50% above the rated value ensuring safety and reliability.
- Dimensioned power supply and surge protection supplying breakaway starting currents 150% above the rated value required by heavy loads.
- Thermal protection prevents faults caused by prolonged overload at high ambient temperatures.
- Their internal components' high efficiency and excellent ventilation offer small dimensions and IP20 protection against accidental contacts in compliance with IEC529.



**Compact size**  
Ideal solution for electrical panels with low profile

**Short circuit and overload**  
Designed to provide load start up current required by medium loads

**Power boost**  
The output power supplied reaches up to 130% of the rated value

**High Efficiency**  
Designed to save energy and reduce working temperature

**90...264 Vac and 110...350 Vdc input wide range**  
Suitable in single phase voltage networks

