# **Single-phase switching** power supply 120-230 Vac output power 50 W

- Single-phase input 90...264 Vac and DC 100...345 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





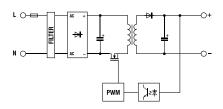


#### **NOTES**

The depth dimension includes the DIN rail clamp.

- (2) With 100...127 Vdc input voltage, constant output power and Ta>45°C, the output current must be derated by 25%
- (3) Over 50°C (122°F) apply a derating: C version: -0.06 A/°C; B version: -0.085 A/°C.
- (4) Overload and short circuit current depends on the total line resistance.

#### **BLOCK DIAGRAM**



#### **VERSIONS** Output 24 Vdc 2.2 A Output 24 Vdc 2.2 A redundant version Output 12...15 Vdc 3.5...3 A Output 48 Vdc 1.1 A

Input rated voltage

Frequency

Inrush peak current

Power factor

Internal protection fuse

External protection on AC line

## **INPUT TECHNICAL DATA**

Current @ nominal lout (Uin 120 /230 Vac)

### **OUTPUT TECHNICAL DATA**

Output rated voltage Output adjustable range

Continuous current

Overload limit

Short circuit peak current

Load regulation

Ripple @ nominal ratings

Hold up time @ In (Uin 120 / 230 Vac)

Overload / short circuit protections

Status display

Alarm contact threshold

Parallel connection

Redundant parallel connection

#### **GENERAL TECHNICAL DATA**

Efficiency (Uin 120 / 230 Vac)

Dissipated power (Uin 120 / 230 Vac)

Operating temperature range

Input/output isolation

Input/ground isolation

Output/ground isolation

Standard/approvals

**EMC Standards** 

MTBF @ 25°C @ nominal ratings

Overvoltage category/Pollution degree

Protection degree

Connection terminal

Housing material Approx. weight

Mounting information

#### **MOUNTING ACCESSORIES**

Mounting rail type according to IEC60715/TH35-7.5 Mounting rail type according to IEC60715/G32

Cod. XCSD50B		
-		
	CSD50B	
	GSDSOB	-

**120–230 Vac** (range 90...264 Vac / 100...345 Vdc) (2) 47...63 Hz  $0.9 A / 0.5 A \pm 10\%$ < 15 A> 0.6

T 2 A replaceable circuit breaker: 3 A - C characteristic - fuse: T 3.15 A

12...15 Vdc 12...15 Vdc 3.5...3 A @ 50°C (3) 4.37...3.75 A < 1% ≤ 50 mVpp

>20 ms / >40 ms hiccup at the overload limit with auto reset / over temperature protection

"DC OK" green LED

possible

possible with external ORing diode

>88% / >90% 6.8 W / 5.5 W

-20...+60°C, with derating over 50°C / over temperature protection (3)

3 KVac / 60 s SELV output

class 2 without PE connection

class 2 without PE connection

EN50178, EN61558, EN60950, IEC950, UL508

EN61000-6-2, EN61000-6-4, EN61000-4-2, EN61000-4-3, EN61000-4-4, EN61000-4-5, EN61000-4-6, EN61000-4-11

>750'000 h acc. to SN 29500 / >250'000 h acc. to MIL Std. HDBK 217F

II/2

IP 20 IEC 529, EN60529

2.5 mm<sup>2</sup> fixed screw type

UL94V-0 plastic material 200 g (7.06 oz)

vertical on rail, allow 10 mm spacing between adjacent components

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

asi-ez.com • 877-650-5160



# Modular switching power supply GSD 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.

