

SD832

Compact Product Suite hardware selector



The SD83x Power Supply Units are designed to meet all the applicable electrical safety data stated by the EN 50178 harmonized European Standard Publication and the additional safety and function data required by EN 61131-2 and UL 508.

The secondary output circuitry is accepted for SELV or PELV applications. They are switch-mode Power Supply Units which convert the mains voltage to 24 volts d.c. These power supplies can be utilized for non-redundant and redundant applications.

Redundant applications require diode voting units SS823 or SS832. With the type SD83x series Power Supply Units, there is no requirement for the installation of a mains filter. They provide a soft start feature; power-on of an SD83x will not trip fuses or earth-fault circuit breakers.

Features and benefits

- Simple DIN-rail mounting
- Class I Equipment, (when connected to Protective Earth, (PE))
- Over-voltage Category III for connection to primary main TN network
- Protective separation of secondary circuit from primary circuit
- Accepted for SELV and PELV applications
- The output of the units is protected against over current (current limit) and over voltage (OVP)

General info

Article number	3BSC610065R1
Type	Power supply
Rated output current	5 A
Rated output power	120 W
Rated output voltage	d.c. 24V
Rated input power	240/283 VA
Mains/input voltage, nominal	100-120 V a.c. 200-240 V a.c. Auto-select input
Applications	SELV and PELV
Efficiency factor	89.4/90.2 %

Detailed data

Mains voltage variation allowed	90-132 V a.c. 180-264 V d.c.
Mains/input voltage, max. (a.c.= 45-65 Hz)	264-300 V a.c.
Primary peak inrush current at power on	<10 A
Load sharing	-
Power Factor (at rated output power)	0.56/0.47
Heat dissipation	14/13 W
Output voltage regulation at max. current	< 70 mV / <100 mV
Ripple (peak to peak)	< 50 mV
Secondary voltage holdup time at mains blackout	80/78 ms
Maximum output current (min)	6 A At ambient temp < 45 °C
Maximum ambient temperature	60 °C
Primary: Recommended external fuse (1)	10-20 A
Secondary: Short circuit	< 14 A
Secondary: Over-Voltage protection	< 39 V

Environmental and certification

CE mark	Yes
Electrical safety	IEC 61131-2, UL 508, EN 50178
Marine certification	ABS, BV, DNV-GL, LR, RS, CCS
Protection rating	IP20 according to IEC 60529
Corrosive atmosphere ISA-S71.04	G2
Pollution degree	Degree 2, IEC 60664-1
Mechanical operating conditions	IEC 61131-2
EMC	EN 61000-6-4 and EN 61000-6-2
Overvoltage Categories	Over-voltage Category III (IEC/EN 60664-1)
Equipment class	Class 1 according to EN 50718; 3.56
RoHS compliance	EN 50581:2012

Dimensions

Width	32 mm (1.26")
Depth	117 mm (4.61")
Height	124 mm (4.88")
Weight (lbs.)	500 g (1.1 lbs.)
Mounting spacing W mm	15 mm (0.59")
Mounting spacing H mm	40 mm (1.57")

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