

# SD834

## System 800xA 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)
- SD834 can be connected in parallel to increase output power
- Both a.c. and d.c. input at SD831 and SD834
- Floating DC-OK relay contact at SD834

General info	
Article number	3BSC610067R1
Type	Power supply
Rated output current	20 A
Rated output power	480 W
Rated output voltage	d.c. 24 V
Rated input power	547/568 VA
Mains/input voltage, nominal	100-240 V a.c. 110-300 V d.c.
Applications	SELV and PELV
Efficiency factor	92.4/93.9 %

<b>Detailed data</b>	
Mains voltage variation allowed	85-276 V a.c. 88-375 V d.c.
Mains/input voltage, max. (a.c.= 45-65 Hz)	264-300 V a.c.
Primary peak inrush current at power on	<13 A
Load sharing	Parallell connection
Power Factor (at rated output power)	0.95/0.90
Heat dissipation	40/32 W
Output voltage regulation at max. current	< 10 mV / <100 mV
Ripple (peak to peak)	< 100 mV
Secondary voltage holdup time at mains blackout	32/51 ms
Maximum output current (min)	30 A < 4 s
Maximum ambient temperature	60 °C
Primary: Recommended external fuse (1)	10-20 A
Secondary: Short circuit	< 40 A
Secondary: Over-Voltage protection	< 37 V

<b>Environmental and certification</b>	
CE mark	Yes
Electrical safety	IEC 61131-2, UL 508, EN 50178
Hazardous Location	C1 Div 2 cULus
Marine certification	ABS, BV, DNV-GL, LR, RS
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
WEEE compliance	DIRECTIVE/2012/19/EU

<b>Dimensions</b>	
Height	124 mm (4.88")
Width	82 mm(3.23")
Depth	127 mm(5.0")
Weight (lbs.)	1200 g (2.6 lbs.)
Mounting spacing W mm	15 mm (0.59")
Mounting spacing H mm	40 mm (1.57")

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