

# SD822Z

## Compact Product Suite hardware selector



SD822Z, SD83x, SS822Z, SS823 and SS832 is a range of space saving power supplies intended for the AC 800M, AC 800M-eA, S800 I/O and S800-eA I/O product lines. Output current can be selected in the range of 3-20 A and the input range is wide. Relevant voters for redundant configurations are available.

The range also supports power supply configurations of the AC 800M and S800 I/O based IEC 61508-SIL2 and SIL3 rated solutions. A Mains Breaker Kit for DIN Rail is also available for our power supplies and voters.

### 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)
- SD822Z is also G3 compliant

#### General info

Article number	3BSC610054R1
Type	Power supply
Rated output current	5 A
Rated output power	120 W
Rated output voltage	d.c. 24 V
Rated input power	280 VA 135 W
Mains/input voltage, nominal	115/230 V a.c. 225-250 V d.c.
Applications	SELV and PELV

<b>Detailed data</b>	
Mains voltage variation allowed	85 - 110%
Mains/input voltage, max. (a.c.= 45-65 Hz)	138/275 V a.c. 375 V d.c.
Primary peak inrush current at power on	Type 15 A
Load sharing	Two in parallell
Heat dissipation	13.3 W
Output voltage regulation at max. current	+ - 2%
Ripple (peak to peak)	< 50 mV
Secondary voltage holdup time at mains blackout	> 20 ms
Maximum output current (min)	10 A
Maximum ambient temperature	60 °C
Primary: Recommended external fuse (1)	10 A
Secondary: Short circuit	< 10 A
Secondary: Over-Voltage protection	29 V

<b>Environmental and certification</b>	
CE mark	Yes
Electrical safety	IEC 61131-2, UL 508, EN 50178
Marine certification	ABS, BV, DNV-GL, LR, RS
Protection rating	IP20 according to IEC 60529
Corrosive atmosphere ISA-S71.04	G3
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>	
Width	65 mm (2.56 in.)
Depth	110 mm (4.3 in.)
Height	125 mm (4.9 in.)
Weight (lbs.)	620 g (1.4 lbs)
Mounting spacing W mm	15 mm (0.59 in.)
Mounting spacing H mm	25 mm (1 in.)

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