

# SD822Z

## System 800xA 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                 | 85-132 V a.c. 176-264 V a.c. 210-375 V d.c. |
| Mains frequency                                 | 47-63 Hz                                    |
| 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              | 10 A  |
| Secondary: Short circuit                        | < 10 A                                      |
| Output over voltage protection                  | 29 V  |

| <b>Environment and certification</b> |  |
|--------------------------------------|--|
| CE mark                              | Yes  |
| Electrical safety                    | IEC 61131-2, UL 508, EN 50178              |
| Marine certification                 | ABS, BV, DNV-GL, LR                        |
| 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                      | DIRECTIVE/2011/65/EU (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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