

SS832

ABB Ability™ System 800xA® hardware selector



The Voting Units SS823 and SS832 have been specifically designed to be employed as control units within a redundant power supply configuration. The output connections from two Power Supply Units are connected to the Voting Unit.

The Voting Unit separates the redundant Power Supply Units, supervises the voltage supplied, and generates supervision signals to be connected to the power consumer.

Green LED's, mounted on the front panel of the voting unit, provide a visual indication that the correct output voltage is being delivered. Simultaneously with the green LED illuminating, a voltage-free contact closes the path to the corresponding "OK connector". Voting Unit trip levels are factory preset.

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 | 3BSC610068R1 |
| Type | Voter |
| Rated output current | 10 A (20 A in parallel operation) |
| Rated output power | - |
| Rated output voltage | - |
| Rated input power | 2 x 10 A |
| Mains/input voltage, nominal | 2x24 V d.c. |
| Applications | - |
| Efficiency | - |

Detailed data

| | |
|---|-----------------|
| Mains voltage variation allowed | - |
| Mains frequency | 60 V d.c. |
| Primary peak inrush current at power on | - |
| Load sharing | - |
| Supervision relay | Yes |
| Power Factor (at rated output power) | - |
| Heat dissipation | 18 W |
| Output voltage regulation at max. current | 0.85 V typ. |
| Ripple (peak to peak) | - |
| Secondary voltage holdup time at mains blackout | - |
| Maximum output current | 25 A (Overload) |
| Maximum ambient temperature | 55 °C |
| Primary: Recommended external fuse | - |
| Secondary: Short circuit | Max 25 A RMS |
| Output over voltage protection | - |

Environment and certification

| | |
|-----------------------------------|--------------------------------------|
| CE mark | Yes |
| Electrical safety | IEC 61131-2, UL 508, EN 50178 |
| ATEX Zone 2 | No |
| IECEx Zone 2 | No |
| Hazardous Location, Class 1 Div 2 | No |
| Marine certification | ABS, BV, DNV-GL, LR |
| 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 | - |
| RoHS compliance | DIRECTIVE/2011/65/EU (EN 50581:2012) |
| WEEE compliance | DIRECTIVE/2012/19/EU |

Dimensions

| | |
|-----------------------|-------------------|
| Width | 32 mm (1.26") |
| Depth | 117 mm (4.61") |
| Height | 125 mm (4.9") |
| Weight (lbs.) | 350 g (0.77 lbs.) |
| Mounting spacing W mm | 15 mm (0.59") |
| Mounting spacing H mm | 25 mm (1") |

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