

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")

solutions.abb/800xA
solutions.abb/controlsystems

800xA and Symphony Plus is a registered trademark of ABB. All rights to other trademarks reside with their respective owners.

We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2025 ABB All rights reserved