

SS832 up to 10A.

See [Table 117](#) for the selection of voting unit based on the type of power supply.

Table 117. Selection of Voting Unit

	SS822	SS832	SS823
SD831	(x1)	x1	x2
SD832	(x1)	x1	x2
SD833	(x1)	x2	x2
SD834	(x2)	x2	x2

(x#) not preferred solution, x2 it needs two in parallel.

SS822

For SS822 Block diagram and Dimensions see [Figure 99](#) and [Figure 100](#). [Table 118](#) and [Table 119](#) shows the supervision data and the technical data respectively. For connection of SS822 in a redundant configuration see [Figure 101](#).

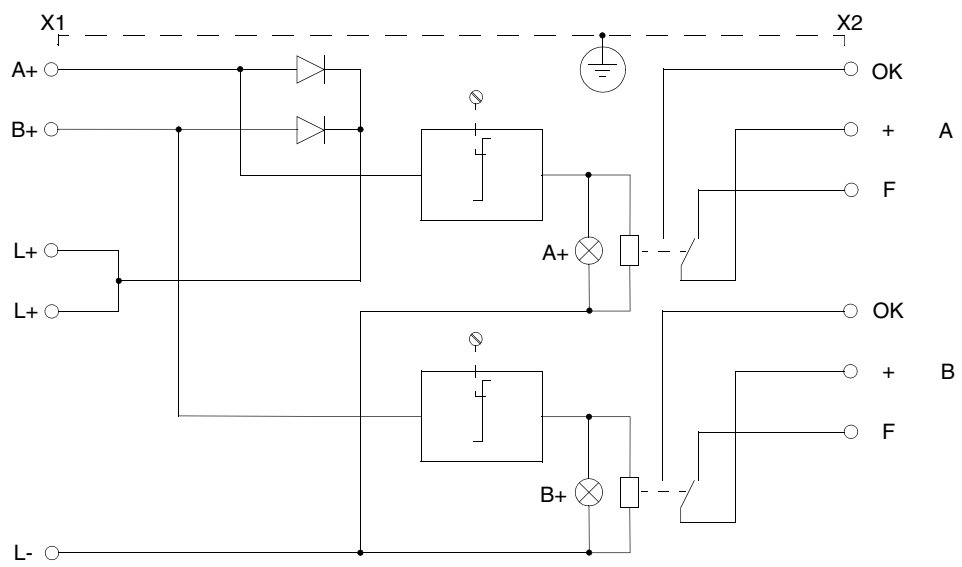


Figure 99. SS822 Block Diagram

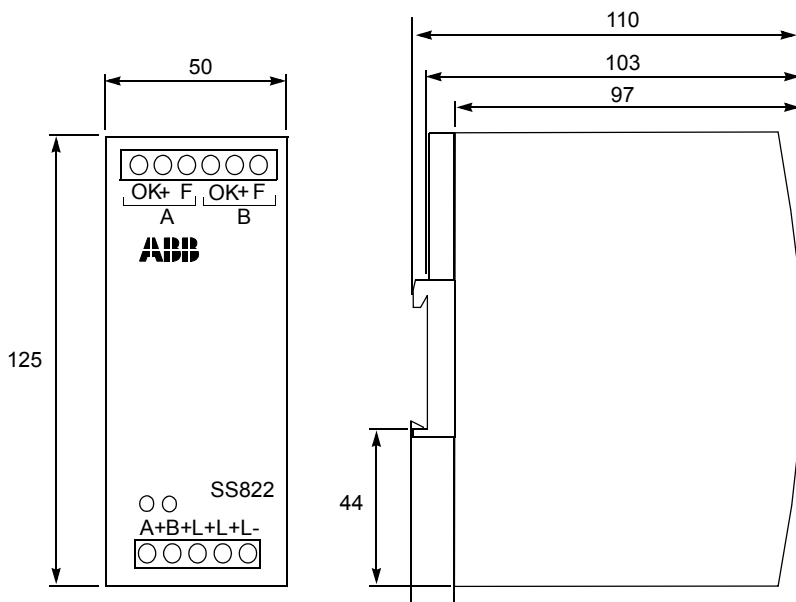


Figure 100. SS822 Voting Unit Connections

Table 118. SS822 Voting Unit - Supervision Data

Supervision Data	SS822 ⁽¹⁾
Voltage, low trip level (for decreasing voltage)	22 V
Voltage, low trip hysteresis	0.7 V
Voltage, high trip level for rising voltage	30 V
High trip hysteresis	0.7 V
Contact rating a.c.	Max. 120 V and max. 0.5 A
Contact rating d.c.	Max. 28 V and max. 1 A; min. 1 mA, recommended min. 5 mA

(1) SS822Z is G3 compliant version according to ISA-S71.04.

Table 119. SS822 - Technical Data and Mounting Dimensions

Parameter	SS822 Voter
Rated output current (A)	20 A
Rated output voltage	35 V
Rated input power	500 W
Mains/input voltage, nominal	2 x 24 V d.c.
Rated/input voltage	35 V d.c.
Heat dissipation	10 W at 20 A and 2,5 W at 5 A
Output voltage regulation at max. current	0,5 V lower than input
Maximum output current	35 A (Overload)
Ingress Protection	IP20 according to EN60529, IEC 60529.
Max ambient temperature	55°C ⁽¹⁾
Acceptable wire sizes Input/output terminals	Solid: 0.5 - 6 mm ² Stranded: 0.5 - 4mm ² , 20 - 10 AWG Recommended torque: 0.8 Nm
Acceptable wire sizes Supervision output terminals	Solid: 0.2 - 1.5 mm ² Stranded: 0.2 - 1.5 mm ² , 22 - 14 AWG Recommended torque: 0.8 Nm
Dimensions, Width HxD = 125 x 110 mm (4.9 x 4.3 inches)	50 mm (1.97")
Mounting spacing W mm	10 mm (0.39")
Mounting spacing H mm	25 mm (0.98")
Weight (lbs.)	630 g (1.4 lbs.)

(1) Mounting on a horizontal DIN rail

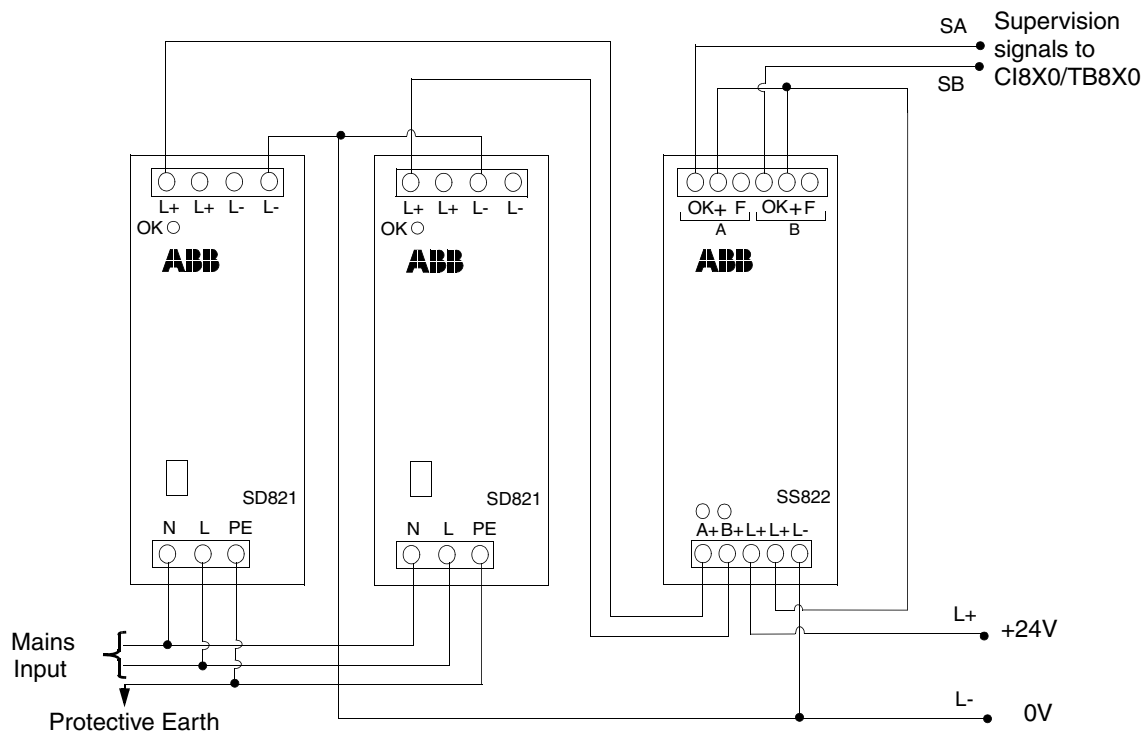


Figure 101. SS822 - Used in Redundant SD821 Configuration

SS823

The SS823 Voting Unit has double overvoltage protection circuit on both inputs. It is also able to detect both short and open circuit in the voting element. For details see [Table 120](#).



Two SS823 can never be configured in parallel to achieve more current.

Block diagram and dimensions for SS823 see [Figure 102](#) and [Figure 103](#). [Table 120](#) and [Table 121](#) shows supervision data and technical data for SS823. For connection of SS823 in a redundant configuration see [Figure 104](#).