

SS855

ABB Ability™ Symphony® Plus Hardware Selector



The SS855 is a voting unit for building redundant power supply systems. It is equipped with two input channels and one output. The two inputs are decoupled by MOSFET technology.

SS855 can be used directly for loads up to 20 A (two 20 A power supplies and one SS855).

With dual SS855 it is possible to vote redundant 40 A (two 40 A power supplies and two SS855). The inputs are located at the bottom of the SS855 and the output is located at the top of SS855. SS855 does not have any power OK signals, instead use power OK signals on SD834, SD853, or SD854.

Features and benefits

- Simple DIN-rail mounting
- Accepted for SELV and PELV applications

General info

Article number	2PAA125624R1
Type	Voter
Rated input current	2 x 20 A
Rated output current	40 A
Input voltage range	2* 8.4...36.4 V

Detailed data

Load sharing	Two in parallel for voting 40A
Supervision relay	No
Power Factor (at rated output power)	-
Heat dissipation	2 x 10 A: 1.7 W 2 x 20 A: 5.9 W
Maximum output current	65 A (up to 5 seconds)
Maximum ambient temperature	70 °C
Secondary: Short circuit	Max 26 A RMS

Environment and certification

CE mark	Yes
Electrical safety	UL508
ATEX Zone 2	Yes
IECEx Zone 2	Yes
Hazardous Location, Class 1 Div 2	Yes
Hazardous Location	ATEX Zone 2: EN 60079-0, EN 60079-7 IECEx Zone 2: IEC 60079-0, IEC 60079-7 CSA Class I Div 2, Groups A, B, C D T4: ANSI/ISA 12.12.01-2016, C22.2 No. 213-16
Marine certification	ABS (pending), DNV-GL (pending)
Protection rating	IP20 according to IEC 60529
Corrosive atmosphere ISA-S71.04	G3
Pollution degree	Degree 2, IEC 62103, EN 50178,
Mechanical operating conditions	IEC 61131-2
EMC	EN 61000-6-4 and EN 61000-6-2
Overvoltage Categories	-
Equipment class	III PE (Protective Earth) or chassis connection not required
Max ambient temperature	- 40 °C to +70 °C (linear derating between 60 °C and 70 °C, 40 A to 30 A)
RoHS compliance	DIRECTIVE/2011/65/EU (EN 50581:2012)
WEEE compliance	DIRECTIVE/2012/19/EU

Dimensions

Width	36 mm
Depth	127 mm
Height	124 mm
Weight (lbs.)	280 g
Mounting spacing W mm	5 mm
Mounting spacing H mm	top 40 mm, bottom 20 mm

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