# 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<br>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<br>IECEx Zone 2: IEC 60079-0, IEC 60079-7<br>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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