



Item pictured is STG.DCB.xx.C400BAC.BSAN

1500V HIGH CURRENT COMBINER

ABOUT

The Shoals High Current Combiner series is compliant with NEC 2017/2020 and is used to combine multiple strings per circuit up to a 65A fuse size. This means a more than 50% reduction in return cables over a traditional combiner box.

Lab-proven under full load during static heating sequence testing with fuses installed, the High Current Combiner is designed for maximum durability and years of uninterrupted, real-world service. Field installation time has been slashed, space for cable terminations generously increased.

FEATURES

- Finger-safe fuse holders
- Up to 600A, 1500V disconnect, 100% load-break rated
- Plated bus bars rated for 90°C, Cu/Al
- 2-hole NEMA 1/2" x 1-3/4" mounting configuration
- Breather vent reduces internal condensation
- Safety shield covers all live components
- Designed for ease of cable installation
- Surge protection device, Type I
- NEMA 4X pad-lockable enclosure
- Standard 5-year warranty
- Compliant with NEC 2017/2020

OPTIONS

- Pre-terminated whips with connectors
- Pre-punched conduit knockouts
- Pre-installed NEMA 4X glands
- Pre-installed HDG uni-strut
- Pre-installed HDG mounting kits
- Pre-installed drain vent

| TECHNICAL INFORMATION | STG.DCB.xx.CaaadAC.BesN ^(a) | STG.DCB.xx.C400dAP.BesN ^(a) | STG.DCB.xx.CaaadAO.BesN ^(a) |
|-----------------------------|--|--|--|
| Max. System Voltage | 1500 VDC | 1500 VDC | 1500 VDC |
| Rated Output Current | 400A or 500A | 400A | 400A, 500A, or 600A |
| Rated Input Current | 48A / 52A ^(b) | 48A / 52A ^(b) | 48A / 52A ^(b) |
| Max. Overcurrent Protection | 60A / 65A ^(b) | 60A / 65A ^(b) | 60A / 65A ^(b) |
| Number of Input Circuits | Up to 12 | Up to 12 | Up to 14 |
| Positive Input Wire Size | 1-11 AWG | 1-11 AWG | 1-11 AWG |
| Negative Input Wire Size | 4-14 AWG | 4-14 AWG | 4-14 AWG |
| Positive Output Wire Size | Up to (1) 800 MCM or (2) 700 MCM | Up to (1) 1250 MCM or (2) 900 MCM | Up to (1) 1000 MCM or (2) 800 MCM |
| Negative Output Wire Size | Up to (1) 800 MCM or (2) 700 MCM | Up to (1) 1250 MCM or (2) 900 MCM | Up to (1) 1000 MCM or (2) 800 MCM |
| Ground Wire Size | (4) 1/0-14 AWG and (9) 6-14 AWG | (4) 1/0-14 AWG and (9) 6-14 AWG | (4) 1/0-14 AWG and (9) 6-14 AWG |
| Enclosure Rating | NEMA 4X | NEMA 4X | NEMA 4X |
| Max. Ambient Temp. Rating | 50°C | 50°C | 50°C |
| Enclosure Size (H x W x D) | 24" x 30" x 10" ^(c) | 30" x 36" x 10" ^(c) | 30" x 36" x 10" ^(c) |
| Approximate Weight | 75 lbs | 100 lbs | 105 lbs |

(a) xx = number of inputs (01-14)
 aaa = disconnect rating (400, 500, 600)
 d = disconnect type ("B" for ABB or "S" for Socomec)
 e = enclosure type ("A" for Allied or "S" for Stahlin)
 s = surge type ("A" for ABB or "C" for Citel)
 (b) Additional project information needed to determine max allowable fuse size.
 (c) Dimension refers to trade size. See project drawings for exact dimensions.

