

# SBTT-500 Tunnel-to-Tunnel Power Terminal



## CERTIFICATIONS



## FEATURES

Tinned copper block allows for copper or aluminum conductor connections

Accessible tunnels allow for easy connection of wire

Design allows for visual inspection of conductor and confirmation of connection

Voltage detection and measurement connection

Adjustable transparent cover

Modular snap-together blocks for building multi-pole power blocks

Easily clips onto DIN rail or mounts to panel with screws

SBLEC Power Terminals Fixing Accessory required for direct panel mount

RoHS compliant

Halogen free

## SPECIFICATIONS

|                |                 |
|----------------|-----------------|
| Catalog Number | <b>SBTT-500</b> |
| Article Number | 561145          |

| Catalog Number                               | SBTT-500                     |
|----------------------------------------------|------------------------------|
| Material                                     | Copper<br>Thermoplastic      |
| Finish                                       | Tinned                       |
| Max Current Rating, IEC                      | 750A                         |
| Max Current Rating, UL/CSA                   | 500A                         |
| Short Term Withstand Current (Icw) 1s        | 28.8kA                       |
| Peak Short Circuit Current (Ipk)             | 52kA                         |
| Short Circuit Current Rating (SCCR)          | 100kA                        |
| Max Working Voltage, IEC (Ui)                | 1000<br>1500                 |
| Max Working Voltage, UL (Vin)                | 1000                         |
| Number of Tunnel Connections                 | 4                            |
| Tunnel Connection Compact Stranded Wire Size | (4) 16 – 120 mm <sup>2</sup> |
| Tunnel Connection Wire Size - Ferrule        | (4) 16 – 120 mm <sup>2</sup> |
| Tunnel Connection Wire Size                  | (4) #6 – 250 kcmil           |
| Depth (D)                                    | 66mm                         |
| Height (H)                                   | 205.7 mm                     |
| Width (W)                                    | 85.1 mm                      |
| A                                            | 108 mm                       |
| Unit Weight                                  | 0.6 kg                       |
| Certification Details                        | UL® 1059                     |
| Flammability Rating                          | UL® 94V-1                    |
| Complies With                                | IEC® 60947-7-1               |

## ADDITIONAL PRODUCT DETAILS

Power terminal connections are interchangeable and can be used as line side or load side connections.

| Design Guideline for Distribution Blocks, Power Blocks and Power Terminals              |     |     |     |      |      |      |      |      |      |      |
|-----------------------------------------------------------------------------------------|-----|-----|-----|------|------|------|------|------|------|------|
| Derating according to Ambient* Temperature (°C) to maintain working temperature of 85°C |     |     |     |      |      |      |      |      |      |      |
| Ambient Temperature (°C)                                                                | 30° | 35° | 40° | 45°  | 50°  | 55°  | 60°  | 65°  | 70°  | 75°  |
| Derating Coefficient (d)                                                                | 1   | 1   | 1   | 0.94 | 0.88 | 0.82 | 0.75 | 0.67 | 0.58 | 0.47 |
| *environment around the terminal blocks inside the enclosure                            |     |     |     |      |      |      |      |      |      |      |

DIAGRAMS



WARNING

nVent products shall be installed and used only as indicated in nVent's product instruction sheets and training materials. Instruction sheets are available at [www.nvent.com](http://www.nvent.com) and from your nVent customer service representative. Improper installation, misuse, misapplication or other failure to completely follow nVent's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death and/or void your warranty.

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