

## SBTT-800 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

| Table 1/5      |                |        |                         |                            |                                     |   |
|----------------|----------------|--------|-------------------------|----------------------------|-------------------------------------|---|
| Catalog Number | Article Number | Finish | Max Current Rating, IEC | Max Current Rating, UL/CSA | Short Circuit Current Rating (SCCR) | Peak Short Circuit Current (I <sub>pk</sub> ) |
| SBTT-800       | 561147         | Tinned | 1250A                   | 760A                       | 100kA                               | 75kA  |

| Table 2/5      |                |                       |  |                              |  |  |
|----------------|----------------|-----------------------|--|------------------------------|--|--|
| Catalog Number | Article Number | Material              | Short Term Withstand Current (I <sub>cw</sub> ) 1s | Number of Tunnel Connections | Max Working Voltage, IEC (U <sub>i</sub> ) | Max Working Voltage, UL (V <sub>in</sub> ) |
| SBTT-800       | 561147         | Copper, Thermoplastic | 57.6kA   | 4                            | 1000, 1500                                 | 1000                                       |

| Table 3/5      |                |                                       |  |                             |            |           |
|----------------|----------------|---------------------------------------|--|-----------------------------|------------|-----------|
| Catalog Number | Article Number | Tunnel Connection Wire Size - Ferrule | Tunnel Connection Compact Stranded Wire Size | Tunnel Connection Wire Size | Height (H) | Width (W) |
| SBTT-800       | 561147         | (4) 50 – 185 mm <sup>2</sup>          | (4) 95 – 240 mm <sup>2</sup>                 | (4) 3/0 – 500 kcmil         | 205.7mm    | 115mm     |

| Table 4/5      |                |           |       |             |                     |                       |
|----------------|----------------|-----------|-------|-------------|---------------------|-----------------------|
| Catalog Number | Article Number | Depth (D) | A     | Unit Weight | Flammability Rating | Certification Details |
| SBTT-800       | 561147         | 75mm      | 108mm | 1.04kg      | UL® 94V-1           | UL® 1059              |

| Table 5/5      |                |                |
|----------------|----------------|----------------|
| Catalog Number | Article Number | Complies With  |
| SBTT-800       | 561147         | 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

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## WARNING

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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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