

Power Terminal, Tunnel-to-Tunnel, 500 A

Data Solutions

CATALOG NUMBER

SBTT-500



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

PRODUCT ATTRIBUTES

Article Number: 561145

Material: Copper; Thermoplastic

Finish: Tinned

Max Current Rating, IEC: 750A

Max Current Rating, UL/CSA: 500A

Short Term Withstand Current (I_{cw}) 1s: 28.8kA

Peak Short Circuit Current (I_{pk}): 52kA

Short Circuit Current Rating (SCCR): 100kA

Max Working Voltage, IEC (U_i): 1000; 1500

Max Working Voltage, UL (V_{in}): 1000

Number of Tunnel Connections: 4

Tunnel Connection Compact Stranded Wire Size: (4) 16 – 120 mm²

Tunnel Connection Wire Size - Ferrule: (4) 16 – 120 mm²

Tunnel Connection Wire Size: (4) #6 – 250 kcmil

Depth (D): 66mm

Height (H): 205.7mm

Width (W): 85.1mm

A: 108mm

Unit Weight: 0.6kg

Certification Details: UL® 1059

Flammability Rating: UL® 94V-1

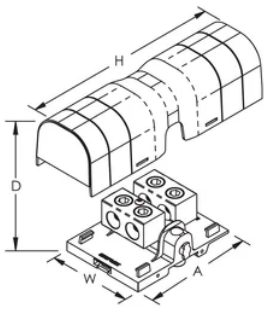
Complies With: IEC® 60947-7-1

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 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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