

SPLICE BLOCK, CABLE-CABLE, 335 A UL, ALUMINUM

CATALOG NUMBER

SB400AL



nVent ERIFLEX Power Blocks are the main DIN mounted output/input devices for connection between primary and secondary switchboard, or main input/output connection for machine or industrial equipment (such as invertor, air conditioning machines, etc.). The high short circuit rated large cross section blocks offer time savings and reliability in every panel configuration. The complete Power Blocks range offers multiple connection types with up to four cables, nVent ERIFLEX Flexibar Advanced, or IBS/IBSB Advanced power braids.

CERTIFICATIONS



FEATURES

Can be connected with round cross section cable or flat connection system like nVent ERIFLEX Flexibar Advanced or IBS/IBSB Advanced Insulated Braided Conductor

Compact power block with high short circuit current rating

Tinned copper or aluminum block allows for copper or aluminum conductor direct connections, or using ferrule

Screw retaining cover is hinged and removable

Design allows for visual inspection of conductor and confirmation of connection

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

Easily clips onto DIN rail or mounts to panel with screws

Voltage detection and measurement connection

95% fill ratio

RoHS compliant

Conforms to EN 45545 obtaining an HL3 classification for chapter R23 and HL2 classification for chapter R22

Halogen free plastic housing excluding the blue protection cover

PRODUCT ATTRIBUTES

Article Number: 561164

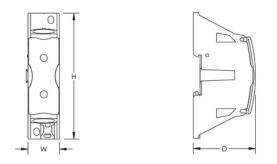
| Finish: Tinned |
|--|
| Type: Cable-Cable |
| Typical Application Current Rating, UL: 335 A |
| Material: Aluminum;Thermoplastic |
| Line Side Max Conductor Size, UL: 400 kcmil |
| Load Side Max Conductor Size, UL: 400 kcmil |
| Short Term Withstand Current (Icw) 1s: 28.8 kA |
| Max Current Rating, IEC: 610 A |
| Max Current Rating, UL/CSA: 335 A |
| Peak Short Circuit Current (Ipk): 51 kA |
| Rated Conditional Short-Circuit Current (Icc): 24.3 kA |
| Short Circuit Current Rating (SCCR): 100 kA |
| Max Working Voltage, IEC (Ui): 1,000 VAC;1,500 VDC |
| Max Working Voltage, UL (Vin): 1,250 VAC/DC |
| Line Side Number of Connections: 1 |
| Line Side Compact Stranded Wire Size: 95 - 240 mm²;3/0 - 400 kcmil |
| Load Side Compact Stranded Wire Size: 95 - 240 mm²;3/0 - 400 kcmil |
| Load Side Number of Connections: 1 |
| Load Side Stranded Wire Size - Ferrule: 95 - 240 mm² |
| Depth: 3.230" |
| Height: 5.760" |
| Width: 1.630" |
| Unit Weight: 0.550 lb |
| Certification Details: UL® 1059 |
| Complies With: IEC® 60947-7-1 |
| Enclosure Rating: IP 20 |
| Flammability Rating: UL® 94V-0 |
| |

ADDITIONAL PRODUCT DETAILS

SBF250 is UL® 1953 Listed when used with SB250SPCR. Max Working Voltage for UL 1953 applications is 1250 VAC/DC.

Blue protection cover is less than 7% of the overall product weight.

| Design Guideline for Distribution Blocks, Power Blocks and Power Terminals | | | | | | | | | | |
|--|-------------|-------------|--------------|-------------|--------------|------|------|------|------|------|
| Derating according to Ambient* | Temperature | (°F) to mai | ntain workin | g temperati | ure of 185°F | : | | | | |
| Ambient Temperature (°F) | 86° | 95° | 104° | 113° | 122° | 131° | 140° | 149° | 158° | 167° |
| Derating Coefficient (d) | 1 | 1 | 1 | 0.94 | 0.88 | 0.82 | 0.75 | 0.67 | 0.58 | 0.47 |



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.

North America

+1.800.753.9221 Option 1 – Customer Care Option 2 – Technical Support Europe

Netherlands: +31 800-0200135 France: +33 800 901 793

Europe

Germany: 800 1890272 Other Countries: +31 13 5835404

APAC

Shanghai: + 86 21 2412 1618/19 Sydney: +61 2 9751 8500



nVent.com CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER

© 2023 nVent. All nVent marks and logos are owned or licensed by nVent Services GmbH or its affiliates. All other trademarks are the property of their respective owners.

Our powerful portfolio of brands:

nVent reserves the right to change specifications without notice.