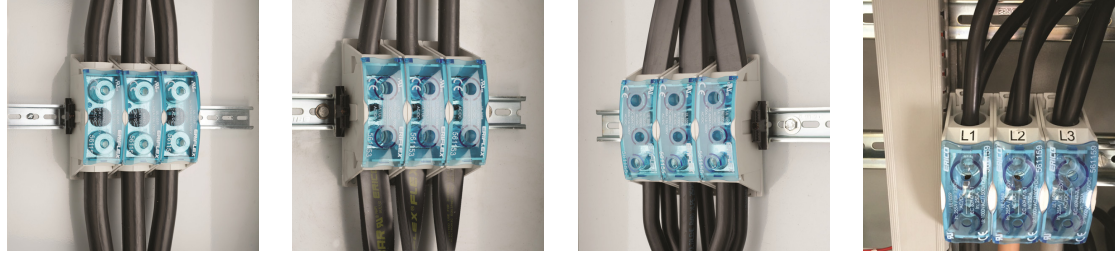
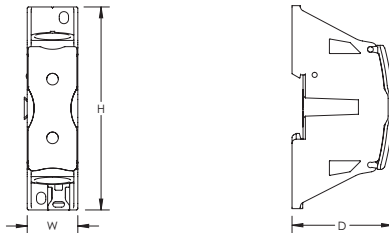


# Power Block – SBF630 (561157)



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 inverter, 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.

- 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
- Halogen free
- RoHS compliant



|  |                         |
|--|-------------------------|
| Part Number  | SBF630                  |
| Article Number                                     | 561157                  |
| Finish   | Tinned                  |
| Type   | Flexibar-Cable          |
| Typical Application Current Rating, IEC            | 630 A                   |
| Material   | Copper<br>Thermoplastic |
| Line Side Max Conductor Size, IEC                  | 240 mm <sup>2</sup>     |
| Load Side Max Conductor Size, IEC                  | 500 mm <sup>2</sup>     |
| Short Term Withstand Current (I <sub>cw</sub> ) 1s | 60 kA                   |
| Max Current Rating, Insulated Power Braid, IEC     | 800 A                   |
| Max Current Rating, nVent ERIFLEX Flexibar, IEC    | 805 A                   |
| Max Current Rating, UL                             | 545 A                   |
| Peak Short Circuit Current (I <sub>pk</sub> )      | 51 kA                   |

|   |  |
|---|--|
| Part Number                                   | SBF630   |
| Short Circuit Current Rating (SCCR)           | 100 kA   |
| Max Working Voltage, IEC (Ui)                 | 1,000 VAC<br>1,500 VDC   |
| Max Working Voltage, UL (Vin)                 | 1,000 VAC/DC   |
| Line Side Number of Connections               | 1  |
| Line Side Insulated Power Braid Cross Section | 100 mm <sup>2</sup><br>240 mm <sup>2</sup>                       |
| Line Side nVent ERIFLEX Flexibar Size         | 2x20x1 - 8x32x1  |
| Load Side Compact Stranded Wire Size          | 240 - 500 mm <sup>2</sup>  |
| Load Side Number of Connections               | 1  |
| Load Side Wire Size                           | 400 – 1,000 kcmil  |
| Depth (D)                                     | 89.4 mm  |
| Height (H)                                    | 174.4 mm   |
| Width (W)                                     | 54.2 mm  |
| Unit Weight                                   | 1.39 kg  |
| Certification Details                         | UL® 1059   |
| Complies With                                 | IEC® 60947-7-1   |
| Enclosure Rating                              | IP 20  |
| Flammability Rating                           | UL® 94V-0  |
| Certifications                                | CE, ERIFLEX SB<br>EAC 0234267 (Russian Federation)<br>RoHS<br>UR |
| Standard Packaging Quantity                   | 1 pc   |
| UPC   | 78285679044  |
| EAN-13  | 8711893137378  |

| 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                            |     |     |     |      |      |      |      |      |      |      |

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

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**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.erico.com](http://www.erico.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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