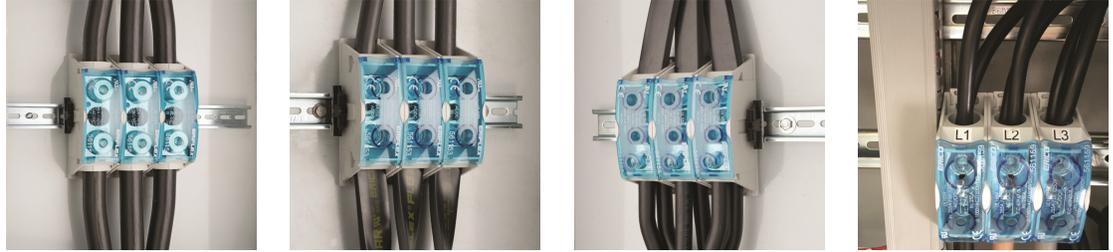
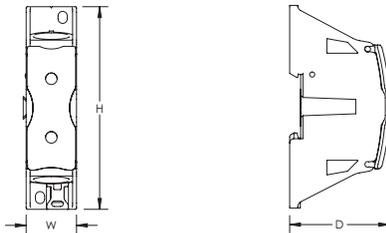


Power Block – SB80AL (561160)



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
- RoHS compliant
- Conforms to EN 45545 obtaining an HL3 classification for chapter R23 and HL2 classification for chapter R22
- Halogen free



| | |
|----------------------------------------------------|---------------------------|
| Part Number | SB80AL |
| Article Number | 561160 |
| Finish | Tinned |
| Type | Cable-Cable |
| Typical Application Current Rating, IEC | 100 A |
| Material | Aluminum Thermoplastic |
| Line Side Max Conductor Size, IEC | 16 mm ² |
| Load Side Max Conductor Size, IEC | 16 mm ² |
| Short Term Withstand Current [I _{cw}] 1s | 3 kA |
| Max Current Rating, IEC | 105 A |
| Max Current Rating, UL/CSA | 85 A |
| Peak Short Circuit Current [I _{pk}] | 22 kA |

| | |
|-----------------------------------------------|------------------------------------------------------------------|
| Part Number | SB80AL |
| Rated Conditional Short-Circuit Current (Icc) | 11 kA |
| Short Circuit Current Rating (SCCR) | 100 kA |
| Max Working Voltage, IEC (Ui) | 1 000 VAC 1 500 VDC |
| Max Working Voltage, UL (Vin) | 1 000 VAC/DC |
| Line Side Number of Connections | 1 |
| Line Side Compact Stranded Wire Size | 6 - 16 mm ² #16 - #4 |
| Line Side Solid Wire Size | 2.5 - 6 mm ² #16 - #10 |
| Load Side Compact Stranded Wire Size | 6 - 16 mm ² #16 - #4 |
| Load Side Number of Connections | 1 |
| Load Side Solid Wire Size | 2.5 - 6 mm ² #16 - #10 |
| Load Side Stranded Wire Size - Ferrule | 6 - 16 mm ² |
| Depth (D) | 42 mm |
| Height (H) | 84 mm |
| Width (W) | 17,3 mm |
| Unit Weight | 0,036 kg |
| Certification Details | UL® 1059 |
| Complies With | IEC® 60947-7-1 |
| Enclosure Rating | IP 20 |
| Flammability Rating | UL® 94V-0 |
| Certifications | CE, ERIFLEX SB cURus EN 45545 HL3/R23, UD/BD/TD/SB RoHS |
| Standard Packaging Quantity | 1 pc |
| UPC | 78285691266 |
| EAN-13 | 8711893155150 |

| 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.

IEC is a registered trademark of the International Electrotechnical Commission. UL, UR, cUL, cULus and cURus are registered certification marks of UL LLC.

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 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.

© 2021 nVent All rights reserved

nVent, nVent CADDY, nVent ERICO, nVent ERIFLEX and nVent LENTON are owned by nVent or its global affiliates.

All other trademarks are the property of their respective owners. nVent reserves the right to change specifications without prior notice.