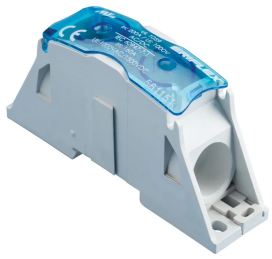
# VERMOGENAANSLUITBLOK, KABEL-KABEL, 250 A IEC, KOPER

## CATALOG NUMBER

**SB160**



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
- Modulaire blokken met klikbevestiging voor het bouwen van meerpolige voedingsblokken
- 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

## PRODUCTKENMERKEN

- Article Number: 561151
- Finish: Vertind
- Type: Cable-Cable

- Typical Application Current Rating, IEC: 250 A
- Material: Copper;Thermoplastic
- Line Side Max Conductor Size, IEC: 70 mm²
- Load Side Max Conductor Size, IEC: 70 mm²
- Short Term Withstand Current (Icw) 1s: 14,4 kA
- Max Current Rating, IEC: 250 A
- Max Current Rating, UL: 200 A
- Peak Short Circuit Current (Ipk): 42 kA
- Rated Conditional Short-Circuit Current (Icc): 20 kA
- Short Circuit Current Rating (SCCR): 100 kA
- Max Working Voltage, IEC (Ui): 1000;1500
- Max Working Voltage, UL (Vin): 1000
- Line Side Number of Connections: 1
- Line Side Compact Stranded Wire Size: 35 - 70 mm²;#2 - 3/0
- Load Side Compact Stranded Wire Size: 35 - 70 mm²;#2 - 3/0
- Load Side Number of Connections: 1
- Load Side Stranded Wire Size - Ferrule: 35 - 70 mm²
- Depth: 55 mm
- Height: 111 mm
- Width: 27,7 mm
- Unit Weight: 0,18 kg
- Certification Details: UL® 1059
- Complies With: IEC® 60947-7-1
- Enclosure Rating: IP 20
- Flammability Rating: UL® 94V-0

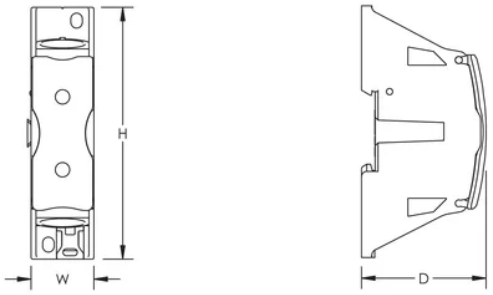
## ADDITIONAL PRODUCT DETAILS

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 (°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




## WAARSCHUWING

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