

VERMOGENAANSLUITBLOK, KABEL-KABEL, 400 A IEC, ALUMINIUM

CATALOG NUMBER

SB250AL



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 IBSB Advanced power braids.

CERTIFICATIONS



FEATURES

Can be connected with round cross section cable or flat connection system like nVent ERIFLEX Flexibar Advanced or 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 meerpoleige 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: 561163

Finish: Vertind

Type: Cable-Cable

Typical Application Current Rating, IEC: 400 A

Material: Aluminum;Thermoplastic

Line Side Max Conductor Size, IEC: 120 mm²

Load Side Max Conductor Size, IEC: 120 mm²

Short Term Withstand Current (I_{cw}) 1s: 14.4kA

Max Current Rating, IEC: 400A

Max Current Rating, UL/CSA: 255A

Peak Short Circuit Current (I_{pk}): 42kA

Rated Conditional Short-Circuit Current (I_{cc}): 20kA

Short Circuit Current Rating (SCCR): 100 kA

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

Max Working Voltage, UL (V_{in}): 1250

Line Side Number of Connections: 1

Line Side Compact Stranded Wire Size: 35 - 120 mm²;#6 - 250 kcmil

Load Side Compact Stranded Wire Size: 35 - 120 mm²;#6 - 250 kcmil

Load Side Number of Connections: 1

Load Side Stranded Wire Size - Ferrule: 35 - 120 mm²

Depth (D): 58 mm

Height (H): 111 mm

Width (W): 31,5 mm

Unit Weight: 0,13 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.

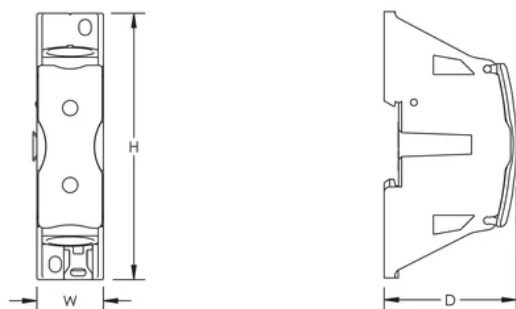
Design Guideline for Distribution Blocks, Power Blocks and Power Terminals

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

Producten van nVent moeten worden geïnstalleerd en gebruikt op de manier zoals is aangegeven in de nVent productinformatiebladen en trainingsmaterialen. U kunt de productinformatiebladen downloaden van www.nvent.com of opvragen bij uw nVent-klantenservice. Door onjuist installeren, verkeerd gebruik, verkeerde toepassing of enige andere handeling in strijd met de instructies en waarschuwingen van nVent kan het product mogelijk niet correct werken, ernstig of fataal letsel en materiële schade veroorzaken en/of uw garantie ongeldig maken.

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