nVent
DATA-SOLUTIONS

# SINGLE POLE DISTRIBUTION BLOCK, 250 A IEC, CABLE LINE, 11 CABLES LOAD, COPPER

## CATALOG NUMBER

**UD-250A**

## CERTIFICATIONS

## FEATURES

- 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
- 95% fill ratio
- RoHS compliant
- Conforms to EN 45545 obtaining an HL3 classification for chapter R23 and HL2 classification for chapter R22
- Halogen free

## PRODUCT ATTRIBUTES

Article Number: 569040

Finish: Tinned

Max Current Rating, IEC: 250A

Max Current Rating, UL/CSA: 255A

Line Side Connection: Cable

Load Side Connection: 11 Cables

Material: Copper; Thermoplastic

Line Side Max Conductor Size, IEC: 120 mm²

Load Side Max Conductor Size, IEC: 35 mm²

Max Working Voltage, IEC (Ui): 1000

Max Working Voltage, UL (Vin): 600

Short Term Withstand Current (Icw) 1s: 24.5kA

Peak Short Circuit Current (Ipk): 51kA

Rated Conditional Short-Circuit Current (Icc): 24.3kA

Short Circuit Current Rating (SCCR): 100kA

Line Side Number of Connections: 1

Line Side Compact Stranded Wire Size: 35 - 120 mm²

Line Side Wire Size: 6 – 250

Load Side Number of Connections: 11

Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²; (4) 2,5 - 10 mm²; (5) 2,5 - 16 mm²

Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm²; (4) 2,5 - 10 mm²; (5) 2,5 - 16 mm²

Load Side Wire Size: (2) #10 - #1; (4) #14 - #6; (5) #14 - #4

Enclosure Rating: IP 20

Depth (D): 50mm

Height (H): 96mm

Width (W): 49mm

Unit Weight: 0.42kg

Certification Details: UL® 1059

Flammability Rating: UL® 94V-0

Complies With: IEC® 60947-7-1

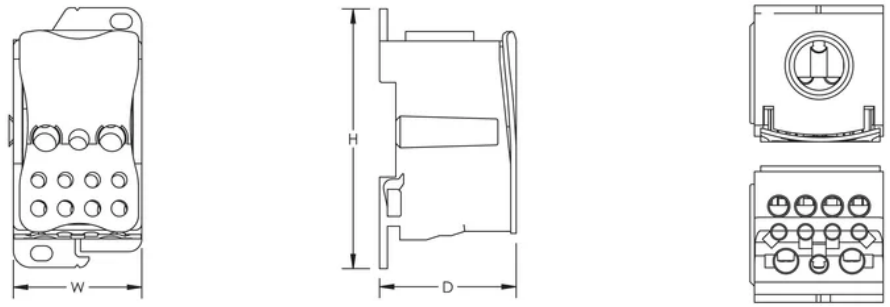
## ADDITIONAL PRODUCT DETAILS

Increase the number of outputs with one input using a jumper on blocks with a Max Current Rating, IEC up to 160 A.

Blocks with 1,000 VAC/DC Max Working Voltage, UL are ideal for solar applications.

| 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




## 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.



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