

# Single Pole Distribution Block, 80 A IEC, Cable Line, 6 Cables Load, Copper

## Data Solutions

### CATALOG NUMBER

**UD-80A**



### 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

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Article Number: 569010

Finish: Tinned

Max Current Rating, IEC: 80A

Max Current Rating, UL/CSA: 85A

Line Side Connection: Cable

Load Side Connection: 6 Cables

Material: Copper; Thermoplastic

Line Side Max Conductor Size, IEC: 16 mm<sup>2</sup>

Load Side Max Conductor Size, IEC: 16 mm<sup>2</sup>

Max Working Voltage, IEC (Ui): 1000

Max Working Voltage, UL (Vin): 600

Short Term Withstand Current (Icw) 1s: 3kA

Peak Short Circuit Current (Ipk): 22kA

Rated Conditional Short-Circuit Current (Icc): 11kA

Short Circuit Current Rating (SCCR): 100kA

Line Side Number of Connections: 1

Line Side Compact Stranded Wire Size: 6 - 16 mm<sup>2</sup>

Line Side Wire Size: 16 min

Load Side Number of Connections: 6

Load Side Compact Stranded Wire Size: (2) 2,5 - 16 mm<sup>2</sup>; (4) 2,5 - 6 mm<sup>2</sup>

Load Side Stranded Wire Size - Ferrule: (2) 2,5 - 16 mm<sup>2</sup>; (4) 2,5 - 6 mm<sup>2</sup>

Load Side Wire Size: (2) #16 - #4; (4) #16 - #8

Enclosure Rating: IP 20

Depth (D): 46mm

Height (H): 69mm

Width (W): 30mm

Unit Weight: 0.07kg

Certification Details: UL® 1059

Flammability Rating: UL® 94V-0

Complies With: IEC® 60947-7-1

## ADDITIONAL PRODUCT DETAILS

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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.

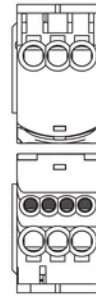
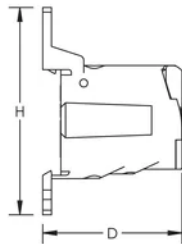
### Design Guideline for Distribution Blocks, Power Blocks and Power Terminals

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](http://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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