

# Single Pole Distribution Block

## Power Utilities



### 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

## SPECIFICATIONS

Table 1/2

| Catalog Number | Article Number | Max Current Rating, IEC | Max Current Rating, UL/CSA | Line Side Connection | Load Side Connection | Line Side Max Conductor Size, IEC |
|----------------|----------------|-------------------------|----------------------------|----------------------|----------------------|-----------------------------------|
| UD2C12C630AL   | 569205         | 630 A                   | 670 A                      | 2 Cables             | 12 Cables            | 185 mm <sup>2</sup>               |
| UD-400A        | 569050         | 400 A                   | 335 A                      | Cable                | 11 Cables            | 185 mm <sup>2</sup>               |
| UDF12C800AL    | 569208         | 800 A                   | 670 A                      | Flat Conductor       | 12 Cables            | 240 mm <sup>2</sup>               |

Table 2/2

| Catalog Number | Article Number | Load Side Max Conductor Size, IEC | Max Working Voltage, IEC (Ui) | Max Working Voltage, UL (Vin) | Certifications                     |
|----------------|----------------|-----------------------------------|-------------------------------|-------------------------------|------------------------------------|
| UD2C12C630AL   | 569205         | 25 mm <sup>2</sup>                | 1,000 VAC, 1,500 VDC          | 1,000 VAC/DC                  | UL                                 |
| UD-400A        | 569050         | 35 mm <sup>2</sup>                | 1,000 VAC/DC                  | 600 V                         | cUR, CSA, UR, RoHS, CE, ERIFLEX UD |
| UDF12C800AL    | 569208         | 25 mm <sup>2</sup>                | 1,000 VAC, 1,500 VDC          | 1,000 VAC/DC                  | UL                                 |

## 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

## 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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