

# Single Pole Distribution Block

## Data Solutions



### 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

**Finish:** Tinned

| Table 1/2      |                |                         |                            |                      |                      |                         |
|----------------|----------------|-------------------------|----------------------------|----------------------|----------------------|-------------------------|
| Catalog Number | Article Number | Max Current Rating, IEC | Max Current Rating, UL/CSA | Line Side Connection | Load Side Connection | Material                |
| UD-80A         | 569010         | 80A                     | 85A                        | Cable                | 6 Cables             | Copper, Thermoplastic   |
| UDF-250A       | 569041         | 250A                    | 255A                       | Flat Conductor       | 6 Cables             | Copper, Thermoplastic   |
| UDJ-125A       | 569020         | 125A                    | 150A                       | Cable                | 7 Cables             | Copper, Thermoplastic   |
| UDJ-160A       | 569030         | 160A                    | 200A                       | Cable                | 7 Cables             | Copper, Thermoplastic   |
| UD-400212AL    | 569251         | 400A                    | 400A                       | 2 Cables             | 12 Cables            | Aluminum, Thermoplastic |
| UD-400112AL    | 569252         | 400A                    | 335A                       | Cable                | 12 Cables            | Aluminum, Thermoplastic |
| UD9C630AL      | 569203         | 630A                    | 420A                       | Cable                | 9 Cables             | Aluminum, Thermoplastic |
| UDF9C500AL     | 569204         | 500A                    | 490A                       | Flat Conductor       | 9 Cables             | Aluminum, Thermoplastic |
| UD2C12C630AL   | 569205         | 630A                    | 670A                       | 2 Cables             | 12 Cables            | Aluminum, Thermoplastic |
| UD6C500AL      | 569201         | 500A                    | 380A                       | Cable                | 6 Cables             | Aluminum, Thermoplastic |
| UDF6C500AL     | 569202         | 500A                    | 475A                       | Flat Conductor       | 6 Cables             | Aluminum, Thermoplastic |
| UDF12C500AL    | 569206         | 500A                    | 500A                       | Flat Conductor       | 12 Cables            | Aluminum, Thermoplastic |
| UDF-500A       | 569060         | 500A                    | 335A                       | Flat Conductor       | 11 Cables            | Copper, Thermoplastic   |
| UD-400212CU    | 569051         | 400A                    | 400A                       | 2 Cables             | 12 Cables            | Copper, Thermoplastic   |
| UD-400112CU    | 569052         | 400A                    | 335A                       | Cable                | 12 Cables            | Copper, Thermoplastic   |
| UD-400A        | 569050         | 400A                    | 335A                       | Cable                | 11 Cables            | Copper, Thermoplastic   |

| CatalogNumber | Article Number | Max Current Rating, IEC | Max Current Rating, UL/CSA | Line Side Connection | Load Side Connection | Material                |
|---------------|----------------|-------------------------|----------------------------|----------------------|----------------------|-------------------------|
| UD-250A       | 569040         | 250A                    | 255A                       | Cable                | 11 Cables            | Copper, Thermoplastic   |
| UD2C12C1000AL | 569207         | 1000A                   | 760A                       | 2 Cables             | 12 Cables            | Aluminum, Thermoplastic |
| UDF12C800AL   | 569208         | 800A                    | 670A                       | Flat Conductor       | 12 Cables            | Aluminum, Thermoplastic |
| UD2C9C1250AL  | 569209         | 1250A                   | 950A                       | 2 Cables             | 9 Cables             | Aluminum, Thermoplastic |
| UDF9C1000AL   | 569210         | 1000A                   | 840A                       | Flat Conductor       | 9 Cables             | Aluminum, Thermoplastic |

| Table 2/2      |                |                                   |                                   |                               |                               |                                    |
|----------------|----------------|-----------------------------------|-----------------------------------|-------------------------------|-------------------------------|------------------------------------|
| Catalog Number | Article Number | Line Side Max Conductor Size, IEC | Load Side Max Conductor Size, IEC | Max Working Voltage, IEC (Ui) | Max Working Voltage, UL (Vin) | Certifications                     |
| UD-80A         | 569010         | 16 mm <sup>2</sup>                | 16 mm <sup>2</sup>                | 1000                          | 600                           | CSA, cUR, RoHS, CE, ERIFLEX UD, UR |
| UDF-250A       | 569041         | 70 mm <sup>2</sup>                | 16 mm <sup>2</sup>                | 1000                          | 600                           | CE, ERIFLEX UD, UR, RoHS, cUR      |
| UDJ-125A       | 569020         | 35 mm <sup>2</sup>                | 16 mm <sup>2</sup>                | 1000                          | 600                           | CE, ERIFLEX UD, UR, CSA, cUR, RoHS |
| UDJ-160A       | 569030         | 70 mm <sup>2</sup>                | 16 mm <sup>2</sup>                | 1000                          | 600                           | RoHS, CSA, cUR, CE, ERIFLEX UD, UR |
| UD-400212AL    | 569251         | 95 mm <sup>2</sup>                | 10 mm <sup>2</sup>                | 1000, 1500                    | 1000                          | CSA, cUR, RoHS, CE, ERIFLEX UD, UR |
| UD-400112AL    | 569252         | 185 mm <sup>2</sup>               | 10 mm <sup>2</sup>                | 1000, 1500                    | 1000                          | CE, ERIFLEX UD, UR, RoHS, CSA, cUR |
| UD9C630AL      | 569203         | 300 mm <sup>2</sup>               | 25 mm <sup>2</sup>                | 1000, 1500                    | 1000                          | UL, cUL, QPQS7.E49727 6            |
| UDF9C500AL     | 569204         | 100 mm <sup>2</sup>               | 25 mm <sup>2</sup>                | 1000, 1500                    | 1000                          | cUL, QPQS7.E49727 6, UL            |

| CatalogNumber | Article Number | Line Side Max ConductorSize, IEC | Load Side Max ConductorSize, IEC | Max Working Voltage, IEC (Ui) | Max Working Voltage, UL (Vin) | Certifications                     |
|---------------|----------------|----------------------------------|----------------------------------|-------------------------------|-------------------------------|------------------------------------|
| UD2C12C630AL  | 569205         | 185 mm <sup>2</sup>              | 25 mm <sup>2</sup>               | 1000, 1500                    | 1000                          | UL, cUL, QPQS7.E49727 6            |
| UD6C500AL     | 569201         | 240 mm <sup>2</sup>              | 50 mm <sup>2</sup>               | 1000, 1500                    | 1000                          | cUL, QPQS7.E49727 6, UL            |
| UDF6C500AL    | 569202         | 100 mm <sup>2</sup>              | 50 mm <sup>2</sup>               | 1000, 1500                    | 1000                          | UL, cUL, QPQS7.E49727 6            |
| UDF12C500AL   | 569206         | 100 mm <sup>2</sup>              | 25 mm <sup>2</sup>               | 1000, 1500                    | 1000                          | cUL, QPQS7.E49727 6, UL            |
| UDF-500A      | 569060         | 185 mm <sup>2</sup>              | 35 mm <sup>2</sup>               | 1000                          | 600                           | cUR, RoHS, CE, ERIFLEX UD, UR      |
| UD-400212CU   | 569051         | 95 mm <sup>2</sup>               | 10 mm <sup>2</sup>               | 1000, 1500                    | 1000                          | CE, ERIFLEX UD, UR, RoHS, CSA, cUR |
| UD-400112CU   | 569052         | 185 mm <sup>2</sup>              | 10 mm <sup>2</sup>               | 1000, 1500                    | 1000                          | CSA, cUR, CE, ERIFLEX UD, UR, RoHS |
| UD-400A       | 569050         | 185 mm <sup>2</sup>              | 35 mm <sup>2</sup>               | 1000                          | 600                           | CSA, cUR, CE, ERIFLEX UD, UR, RoHS |
| UD-250A       | 569040         | 120 mm <sup>2</sup>              | 35 mm <sup>2</sup>               | 1000                          | 600                           | CSA, cUR, RoHS, CE, ERIFLEX UD, UR |
| UD2C12C1000AL | 569207         | 240 mm <sup>2</sup>              | 25 mm <sup>2</sup>               | 1000, 1500                    | 1000                          | cUL, QPQS7.E49727 6, UL            |
| UDF12C800AL   | 569208         | 240 mm <sup>2</sup>              | 25 mm <sup>2</sup>               | 1000, 1500                    | 1000                          | cUL, QPQS7.E49727 6, UL            |
| UD2C9C1250AL  | 569209         | 400 mm <sup>2</sup>              | 95 mm <sup>2</sup>               | 1000, 1500                    | 1000                          | cUL, QPQS7.E49727 6, UL            |
| UDF9C1000AL   | 569210         | 240 mm <sup>2</sup>              | 95 mm <sup>2</sup>               | 1000, 1500                    | 1000                          | cUL, QPQS7.E49727 6, 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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