

## SINGLE POLE DIST. BLOCK, 500 A IEC, FLAT CONDUCTOR LINE, 11 CABLES LOAD, COPPER

### CATALOG NUMBER

**UDF-500A**



### 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: 569060

Finish: Tinned
Max Current Rating, IEC: 500A
Max Current Rating, UL/CSA: 335A
Line Side Connection: Flat Conductor
Load Side Connection: 11 Cables
Material: Copper; Thermoplastic
Line Side Max Conductor Size, IEC: 185 mm <sup>2</sup>
Load Side Max Conductor Size, IEC: 35 mm <sup>2</sup>
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): 10kA
Line Side Number of Connections: 1
Load Side Number of Connections: 11
Load Side Compact Stranded Wire Size: (2) 6 - 35 mm <sup>2</sup> ; (4) 2,5 - 10 mm <sup>2</sup> ; (5) 2,5 - 16 mm <sup>2</sup>
Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm <sup>2</sup> ; (4) 2,5 - 10 mm <sup>2</sup> ; (5) 2,5 - 16 mm <sup>2</sup>
Load Side Wire Size: (2) #10 - #1; (5) #14 - #4; (4) #14 - #6
Enclosure Rating: IP 20
Depth (D): 50mm
Height (H): 96mm
Width (W): 49mm
Unit Weight: 0.37kg
Certification Details: UL® 1059
Flammability Rating: UL® 94V-0
Complies With: IEC® 60947-7-1

## ADDITIONAL PRODUCT DETAILS

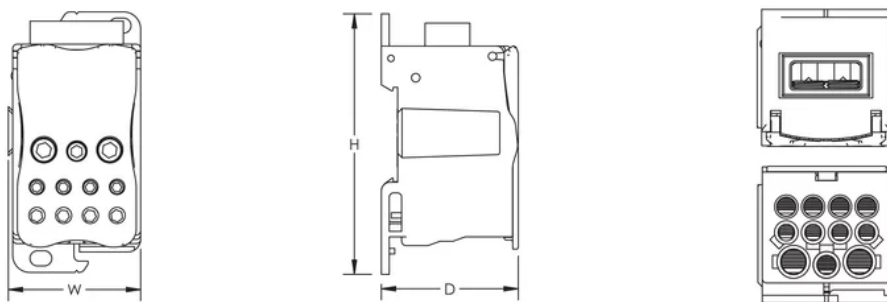
Increase the number of outputs with one input using a jumper on blocks with a Max Current Rating, IEC up to 160 A.

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

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## WARNING

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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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