nVent
DATA-SOLUTIONS

SINGLE POLE DIST. BLOCK, 500 A IEC, FLAT COND. LINE, 12 CABLES LOAD, ALUMINUM

CATALOG NUMBER

UDF12C500AL

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: 569206

Finish: Tinned
Max Current Rating, IEC: 500A
Max Current Rating, UL/CSA: 500A
Line Side Connection: Flat Conductor
Load Side Connection: 12 Cables
Material: Aluminum; Thermoplastic
Line Side Max Conductor Size, IEC: 100 mm²
Load Side Max Conductor Size, IEC: 25 mm²
Max Working Voltage, IEC (Ui): 1000; 1500
Max Working Voltage, UL (Vin): 1000
Short Term Withstand Current (Icw) 1s: 34.3kA
Peak Short Circuit Current (Ipk): 52.5kA
Rated Conditional Short-Circuit Current (Icc): 25kA
Short Circuit Current Rating (SCCR): 100kA
Line Side Number of Connections: 1
Line Side Insulated Power Braid Cross Section: 50mm²; 70mm²; 100mm²
Line Side nVent ERIFLEX Flexibar Size: 2x20x1 - 10x24x1
Load Side Number of Connections: 12
Load Side Compact Stranded Wire Size: 4 - 25 mm²
Load Side Stranded Wire Size - Ferrule: #12 - # 6
Load Side Wire Size: #12 - #4
Enclosure Rating: IP 20
Depth (D): 127mm
Height (H): 78mm
Width (W): 43.7mm
Unit Weight: 0.36kg
Certification Details: UL® 1953
Flammability Rating: UL® 94V-0
Complies With: IEC® 60947-7-1

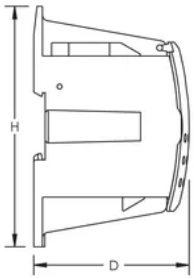
ADDITIONAL PRODUCT DETAILS

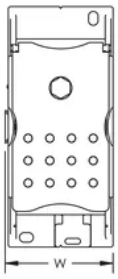
Increase the number of outputs with one input using a jumper on blocks with a Max Current Rating, IEC up to 160 A.

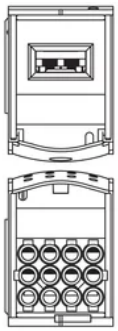
Blocks with 1,000 VAC/DC Max Working Voltage, UL are ideal for solar applications.

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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