SINGLE POLE DIST. BLOCK, 500 A UL/CSA, 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: 500 A
- Max Current Rating, UL/CSA: 500 A
- Line Side Connection: Flat Conductor
- Load Side Connection: 12 Cables

Material: Aluminum;Thermoplastic

Line Side Max Conductor Size, UL: 100 mm²

Load Side Max Conductor Size, UL: #4

Max Working Voltage, IEC (Ui): 1000;1500

Max Working Voltage, UL (Vin): 1000

Short Term Withstand Current (Icw) 1s: 34.3 kA

Peak Short Circuit Current (Ipk): 52.5 kA

Rated Conditional Short-Circuit Current (Icc): 25 kA

Short Circuit Current Rating (SCCR): 100 kA

Line Side Number of Connections: 1

Line Side Insulated Power Braid Cross Section: 50 mm²

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): 5"

Height (H): 3.07"

Width (W): 1.72"

Unit Weight: 0.8 lb

Certification Details: UL® 1953

Flammability Rating: UL® 94V-0

Complies With: IEC® 60947-7-1

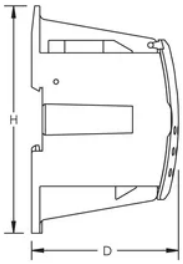
ADDITIONAL PRODUCT DETAILS

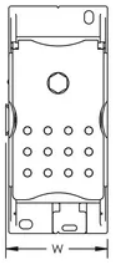
Increase the number of outputs with one input using a jumper on blocks with a Max Current Rating, IEC up to 160 A.

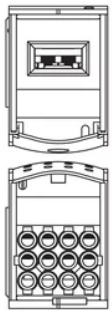
Blocks with 1,000 VAC/DC Max Working Voltage, UL are ideal for solar applications.

Design Guideline for Distribution Blocks, Power Blocks and Power Terminals										
Derating according to Ambient* Temperature (°F) to maintain working temperature of 185°F										
Ambient Temperature (°F)	86°	95°	104°	113°	122°	131°	140°	149°	158°	167°
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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