We connect and protect

Single Pole Distribution Block, 500 A IEC, Cable Line, 6 Cables Load, Aluminum

Data Solutions

CATALOG NUMBER

UD6C500AL

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: 569201
- Finish: Tinned
- Max Current Rating, IEC: 500A
- Max Current Rating, UL/CSA: 380A
- Line Side Connection: Cable
- Load Side Connection: 6 Cables
- Material: Aluminum; Thermoplastic
- Line Side Max Conductor Size, IEC: 240 mm²
- Load Side Max Conductor Size, IEC: 50 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 Compact Stranded Wire Size: 95 - 240 mm²
- Line Side Wire Size: 3 – 500
- Load Side Number of Connections: 6
- Load Side Compact Stranded Wire Size: 10 - 50 mm²
- Load Side Stranded Wire Size - Ferrule: #8 - #1
- Load Side Wire Size: #8 - 1/0
- Enclosure Rating: IP 20
- Depth (D): 148.1mm
- Height (H): 90.2mm
- Width (W): 43.7mm
- Unit Weight: 0.34kg
- Certification Details: UL® 1953
- Flammability Rating: UL® 94V-0
- Complies With: IEC® 60947-7-1

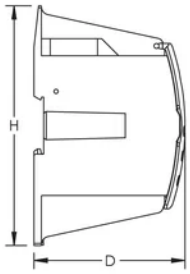
ADDITIONAL PRODUCT DETAILS

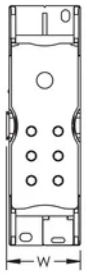
Increase the number of outputs with one input using a jumper on blocks with a Max Current Rating, IEC up to 160 A.

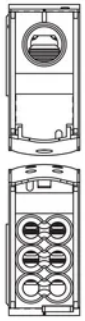
Blocks with 1,000 VAC/DC Max Working Voltage, UL are ideal for solar applications.

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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