nVent
DATA-SOLUTIONS

SINGLE POLE DISTRIBUTION BLOCK, 80 A IEC, CABLE LINE, 6 CABLES LOAD, COPPER

CATALOG NUMBER

UD-80A

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: 569010

Finish: Tinned
Max Current Rating, IEC: 80A
Max Current Rating, UL/CSA: 85A
Line Side Connection: Cable
Load Side Connection: 6 Cables
Material: Copper; Thermoplastic
Line Side Max Conductor Size, IEC: 16 mm²
Load Side Max Conductor Size, IEC: 16 mm²
Max Working Voltage, IEC (Ui): 1000
Max Working Voltage, UL (Vin): 600
Short Term Withstand Current (Icw) 1s: 3kA
Peak Short Circuit Current (Ipk): 22kA
Rated Conditional Short-Circuit Current (Icc): 11kA
Short Circuit Current Rating (SCCR): 100kA
Line Side Number of Connections: 1
Line Side Compact Stranded Wire Size: 6 - 16 mm²
Line Side Wire Size: 16 min
Load Side Number of Connections: 6
Load Side Compact Stranded Wire Size: (2) 2,5 - 16 mm²; (4) 2,5 - 6 mm²
Load Side Stranded Wire Size - Ferrule: (2) 2,5 - 16 mm²; (4) 2,5 - 6 mm²
Load Side Wire Size: (2) #16 - #4; (4) #16 - #8
Enclosure Rating: IP 20
Depth (D): 46mm
Height (H): 69mm
Width (W): 30mm
Unit Weight: 0.07kg
Certification Details: UL® 1059
Flammability Rating: UL® 94V-0
Complies With: IEC® 60947-7-1

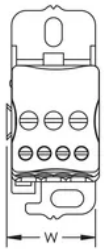
ADDITIONAL PRODUCT DETAILS

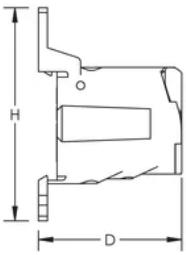
Increase the number of outputs with one input using a jumper on blocks with a Max Current Rating, IEC up to 160 A.

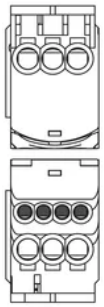
Blocks with 1,000 VAC/DC Max Working Voltage, UL are ideal for solar applications.

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







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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