

# EÉNPOLIG VERDEELBLOK, 400 A IEC, INPUT 1, OUTPUT 11 KABELS, KOPER

**CATALOG NUMBER** 

## **UD-400A**



### 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

Modulaire blokken met klikbevestiging voor het bouwen van meerpolige voedingsblokken

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

Halogeenvrij

### **PRODUCT ATTRIBUTES**

Article Number: 569050

Finish: Vertind

Max Current Rating, IEC: 400 A

Max Current Rating, UL/CSA: 335 A

Load Side Connection: 11 CablesMaterial: Copper; ThermoplasticLine Side Max Conductor Size, IEC: 185 mm²Load Side Max Conductor Size, IEC: 35 mm²Max Working Voltage, IEC (U): 1,000 VAC/DCMax Working Voltage, IEC (U): 1,000 VAC/DCMax Working Voltage, UL (vin): 600 VShort Term Withstand Current (Icw) 1s: 24.5 kAPeak Short Circuit Current (Icw): 51 kARated Conditional Short-Circuit Current (Icc): 24.3 kAShort Circuit Current Rating (SCCR): 100 kALine Side Number of Connections: 1Line Side Compact Stranded Wire Size: 95 - 185 mm²Line Side Compact Stranded Wire Size: 95 - 185 mm²(5) 2,5 - 16 mm²(4) 2,5 - 10 mm²Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²(5) 2,5 - 16 mm²(4) 2,5 - 10 mm²Load Side Side Wire Size: (2) #10 - #1,(5) #14 - #4,(4) #14 - #6Enclosure Rating: IP 20Depth (D): 50 mmHeight (H): 96 mmWidth (W): 49 mmUnit Weight: 0.400 kgCertification Details: UL@ 1059Flammability Rating: UL® 94V-0Complies With: IEC@ 60947-7.1	Line Side Connection: Kabel
Line Side Max Conductor Size, IEC: 185 mm² Load Side Max Conductor Size, IEC: 35 mm? Max Working Voltage, IEC (Ui): 1,000 VAC/DC Max Working Voltage, UL (Vin): 600 V Short Term Withstand Current (Icw) 1s: 24.5 kA Peak Short Circuit Current (Ipk): 51 kA Rated Conditional Short-Circuit Current (Icc): 24.3 kA Short Circuit Current Rating (SCCR): 100 kA Line Side Number of Connections: 1 Line Side Compact Stranded Wire Size: 95 - 185 mm² Line Side Compact Stranded Wire Size: 95 - 185 mm² Line Side Compact Stranded Wire Size: 95 - 185 mm² Line Side Compact Stranded Wire Size: (2) 6 - 35 mm²; (5) 2,5 - 16 mm²; (4) 2,5 - 10 mm² Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²; (5) 2,5 - 16 mm²; (4) 2,5 - 10 mm² Load Side Wire Size: (2) #10 - #1; (5) #14 - #4; (4) #14 - #6 Enclosure Rating: IP 20 Depth (D): 50 mm Height (H): 96 mm Width (W): 49 mm Unit Weight: 0.400 kg Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Load Side Connection: 11 Cables
Load Side Max Conductor Size, IEC: 35 mm²Max Working Voltage, IEC (Ui): 1,000 VAC/DCMax Working Voltage, UL (Vin): 600 VShort Term Withstand Current (Icw): 1s: 24.5 kAPeak Short Circuit Current (Ipk): 51 kARated Conditional Short-Circuit Current (Icc): 24.3 kAShort Circuit Current Rating (SCCR): 100 kALine Side Number of Connections: 1Line Side Compact Stranded Wire Size: 95 - 185 mm²Line Side Wire Size: 3/0 - 400 kcmilLoad Side Compact Stranded Wire Size: (2) 6 - 35 mm²(5) 2,5 - 16 mm²(4) 2,5 - 10 mm²Load Side Compact Stranded Wire Size: (2) 6 - 25 mm²(5) 2,5 - 16 mm²(4) 2,5 - 10 mm²Load Side Vire Size: (2) #10 - #1;(5) #14 - #4;(4) #14 - #6Enclosure Rating: IP 20Depth (D): 50 mmHeight (H): 96 mmWidth (W): 49 mmUnit Weight: 0.400 kgCertification Details: UL@ 1059Flammability Rating:: UL@ 94V-0	Material: Copper;Thermoplastic
Max Working Voltage, IEC (Ui): 1,000 VAC/DCMax Working Voltage, UL (Vin): 600 VShort Term Withstand Current (Icw) 1s: 24.5 kAPeak Short Circuit Current (Ipk): 51 kARated Conditional Short-Circuit Current (Icc): 24.3 kAShort Circuit Current Rating (SCCR): 100 kALine Side Number of Connections: 1Line Side Compact Stranded Wire Size: 95 - 185 mm²Line Side Wire Size: 3/0 - 400 kcmilLoad Side Number of Connections: 11Load Side Compact Stranded Wire Size: (2) 6 - 35 mm², (5) 2,5 - 16 mm², (4) 2,5 - 10 mm²Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm², (5) 2,5 - 16 mm², (4) 2,5 - 10 mm²Load Side Wire Size: (2) #10 - #1; (5) #14 - #4; (4) #14 - #6Enclosure Rating: IP 20Depth (D): 50 mmHeight (H): 96 mmWidth (W): 49 mmUnit Weight: 0.400 kgCertification Details: UL@ 1059Flammability Rating: UL@ 94V-0	Line Side Max Conductor Size, IEC: 185 mm <sup>2</sup>
Max Working Voltage, UL (Vin): 600 VShort Term Withstand Current (Icw) 1s: 24.5 kAPeak Short Circuit Current (Ipk): 51 kARated Conditional Short-Circuit Current (Icc): 24.3 kAShort Circuit Current Rating (SCCR): 100 kALine Side Number of Connections: 1Line Side Compact Stranded Wire Size: 95 - 185 mm²Line Side Number of Connections: 11Load Side Number of Connections: 11Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²; (5) 2,5 - 16 mm²; (4) 2,5 - 10 mm²Load Side Stranded Wire Size · Ferrule: (2) 6 - 25 mm²; (5) 2,5 - 16 mm²; (4) 2,5 - 10 mm²Load Side Wire Size: (2) #10 - #1; (5) #14 - #4; (4) #14 - #6Enclosure Rating: IP 20Depth (D): 50 mmHeight (H): 96 mmWidth (W): 49 mmUnit Weight: 0.400 kgCertification Details: UL® 1059Flammability Rating: UL® 94V-0	Load Side Max Conductor Size, IEC: 35 mm²
Short Term Withstand Current (lcw) 1s: 24.5 kAPeak Short Circuit Current (lpk): 51 kARated Conditional Short-Circuit Current (lcc): 24.3 kAShort Circuit Current Rating (SCCR): 100 kALine Side Number of Connections: 1Line Side Compact Stranded Wire Size: 95 - 185 mm²Line Side Wire Size: 3/0 - 400 kcmilLoad Side Number of Connections: 11Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²; (5) 2,5 - 16 mm²; (4) 2,5 - 10 mm²Load Side Stranded Wire Size: (2) 6 - 25 mm²; (5) 2,5 - 16 mm²; (4) 2,5 - 10 mm²Load Side Wire Size: (2) #10 - #1; (5) #14 - #4; (4) #14 - #6Enclosure Rating: IP 20Depth (D): 50 mmHeight (H): 96 mmWidth (W): 49 mmUnit Weight: 0.400 kgCertification Details: UL® 1059Flammability Rating: UL® 94V-0	Max Working Voltage, IEC (Ui): 1,000 VAC/DC
Peak Short Circuit Current (lpk): 51 kARated Conditional Short-Circuit Current (lcc): 24.3 kAShort Circuit Current Rating (SCCR): 100 kALine Side Number of Connections: 1Line Side Compact Stranded Wire Size: 95 - 185 mm²Line Side Wire Size: 3/0 - 400 kcmilLoad Side Number of Connections: 11Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²; (5) 2,5 - 16 mm²; (4) 2,5 - 10 mm²Load Side Wire Size: (2) #10 - #1; (5) #14 - #4; (4) #14 - #6Enclosure Rating: IP 20Depth (D): 50 mmHeight (H): 96 mmWidth (W): 49 mmUnit Weight: 0.400 kgCertification Details: UL® 1059Flammability Rating: UL® 94V-0	Max Working Voltage, UL (Vin): 600 V
Rated Conditional Short-Circuit Current (Icc): 24.3 kAShort Circuit Current Rating (SCCR): 100 kALine Side Number of Connections: 1Line Side Compact Stranded Wire Size: 95 - 185 mm²Line Side Wire Size: 3/0 - 400 kcmilLoad Side Number of Connections: 11Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²; (5) 2,5 - 16 mm²; (4) 2,5 - 10 mm²Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm²; (5) 2,5 - 16 mm²; (4) 2,5 - 10 mm²Load Side Wire Size: (2) #10 - #1; (5) #14 - #4; (4) #14 - #6Enclosure Rating: IP 20Depth (D): 50 mmHeight (H): 96 mmWidth (W): 49 mmUnit Weight: 0.400 kgCertification Details: UL® 1059Flammability Rating: UL® 94V-0	Short Term Withstand Current (Icw) 1s: 24.5 kA
Short Circuit Current Rating (SCCR): 100 kA Line Side Number of Connections: 1 Line Side Compact Stranded Wire Size: 95 - 185 mm² Line Side Wire Size: 3/0 - 400 kcmil Load Side Number of Connections: 11 Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²;(5) 2,5 - 16 mm²;(4) 2,5 - 10 mm² Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm²;(5) 2,5 - 16 mm²;(4) 2,5 - 10 mm² Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm²;(5) 2,5 - 16 mm²;(4) 2,5 - 10 mm² Load Side Wire Size: (2) #10 - #1;(5) #14 - #4;(4) #14 - #6 Enclosure Rating: IP 20 Depth (D): 50 mm Height (H): 96 mm Width (W): 49 mm Unit Weight: 0.400 kg Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Peak Short Circuit Current (Ipk): 51 kA
Line Side Number of Connections: 1 Line Side Compact Stranded Wire Size: 95 - 185 mm <sup>2</sup> Line Side Wire Size: 3/0 - 400 kcmil Load Side Number of Connections: 11 Load Side Compact Stranded Wire Size: (2) 6 - 35 mm <sup>2</sup> ; (5) 2,5 - 16 mm <sup>2</sup> ; (4) 2,5 - 10 mm <sup>2</sup> Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm <sup>2</sup> ; (5) 2,5 - 16 mm <sup>2</sup> ; (4) 2,5 - 10 mm <sup>2</sup> Load Side Wire Size: (2) #10 - #1; (5) #14 - #4; (4) #14 - #6 Enclosure Rating: IP 20 Depth (D): 50 mm Height (H): 96 mm Width (W): 49 mm Unit Weight: 0.400 kg Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Rated Conditional Short-Circuit Current (Icc): 24.3 kA
Line Side Compact Stranded Wire Size: 95 - 185 mm² Line Side Wire Size: 3/0 - 400 kcmil Load Side Number of Connections: 11 Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²;(5) 2,5 - 16 mm²;(4) 2,5 - 10 mm² Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm²;(5) 2,5 - 16 mm²;(4) 2,5 - 10 mm² Load Side Wire Size: (2) #10 - #1;(5) #14 - #4;(4) #14 - #6 Enclosure Rating: IP 20 Depth (D): 50 mm Height (H): 96 mm Width (W): 49 mm Unit Weight: 0.400 kg Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Short Circuit Current Rating (SCCR): 100 kA
Line Side Wire Size: 3/0 – 400 kcmil Load Side Number of Connections: 11 Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²;(5) 2,5 - 16 mm²;(4) 2,5 - 10 mm² Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm²;(5) 2,5 - 16 mm²;(4) 2,5 - 10 mm² Load Side Wire Size: (2) #10 - #1;(5) #14 - #4;(4) #14 - #6 Enclosure Rating: IP 20 Depth (D): 50 mm Height (H): 96 mm Width (W): 49 mm Unit Weight: 0.400 kg Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Line Side Number of Connections: 1
Load Side Number of Connections: 11 Load Side Compact Stranded Wire Size: (2) 6 - 35 mm²;(5) 2,5 - 16 mm²;(4) 2,5 - 10 mm² Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm²;(5) 2,5 - 16 mm²;(4) 2,5 - 10 mm² Load Side Wire Size: (2) #10 - #1;(5) #14 - #4;(4) #14 - #6 Enclosure Rating: IP 20 Depth (D): 50 mm Height (H): 96 mm Width (W): 49 mm Unit Weight: 0.400 kg Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Line Side Compact Stranded Wire Size: 95 - 185 mm²
Load Side Compact Stranded Wire Size: (2) 6 - 35 mm <sup>2</sup> ;(5) 2,5 - 16 mm <sup>2</sup> ;(4) 2,5 - 10 mm <sup>2</sup> Load Side Stranded Wire Size - Ferrule: (2) 6 - 25 mm <sup>2</sup> ;(5) 2,5 - 16 mm <sup>2</sup> ;(4) 2,5 - 10 mm <sup>2</sup> Load Side Wire Size: (2) #10 - #1;(5) #14 - #4;(4) #14 - #6 Enclosure Rating: IP 20 Depth (D): 50 mm Height (H): 96 mm Width (W): 49 mm Unit Weight: 0.400 kg Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Line Side Wire Size: 3/0 – 400 kcmil
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Height (H): 96 mm Width (W): 49 mm Unit Weight: 0.400 kg Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Enclosure Rating: IP 20
Width (W): 49 mm Unit Weight: 0.400 kg Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Depth (D): 50 mm
Unit Weight: 0.400 kg Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Height (H): 96 mm
Certification Details: UL® 1059 Flammability Rating: UL® 94V-0	Width (W): 49 mm
Flammability Rating: UL® 94V-0	Unit Weight: 0.400 kg
	Certification Details: UL® 1059
Complies With: IEC® 60947-7-1	Flammability Rating: UL® 94V-0
	Complies With: IEC® 60947-7-1

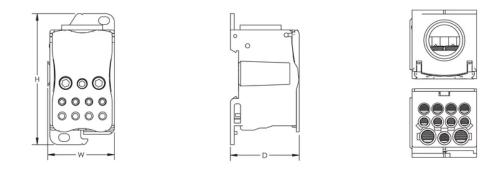
### ADDITIONAL PRODUCT DETAILS

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* 1	emperature	(°C) to maii	ntain workir	ng temperati	ure 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



### 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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