

# Single Pole Distribution Block

## Data Solutions



### 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

## SPECIFICATIONS

**Finish:** Tinned

Table 1/3

Catalog Number	Article Number	E-Number	Max Current Rating, IEC	Max Current Rating, UL/CSA	Line Side Connection	Load Side Connection
UD-80A	569010		80A	85A	Cable	6 Cables
UDF-250A	569041		250A	255A	Flat Conductor	6 Cables
UDJ-125A	569020		125A	150A	Cable	7 Cables
UDJ-160A	569030	2674282	160A	200A	Cable	7 Cables
UD-400212AL	569251		400A	400A	2 Cables	12 Cables
UD-400112AL	569252		400A	335A	Cable	12 Cables
UD9C630AL	569203		630A	420A	Cable	9 Cables
UDF9C500AL	569204		500A	490A	Flat Conductor	9 Cables
UD2C12C630AL	569205		630A	670A	2 Cables	12 Cables
UD6C500AL	569201		500A	380A	Cable	6 Cables
UDF6C500AL	569202		500A	475A	Flat Conductor	6 Cables
UDF12C500AL	569206		500A	500A	Flat Conductor	12 Cables
UDF-500A	569060		500A	335A	Flat Conductor	11 Cables
UD-400212CU	569051		400A	400A	2 Cables	12 Cables
UD-400112CU	569052		400A	335A	Cable	12 Cables
UD-400A	569050	2674284	400A	335A	Cable	11 Cables

CatalogNumber	Article Number	E-Number	Max Current Rating, IEC	Max Current Rating, UL/CSA	Line Side Connection	Load Side Connection
UD-250A	569040	2674283	250A	255A	Cable	11 Cables
UD2C12C1000AL	569207		1000A	760A	2 Cables	12 Cables
UDF12C800AL	569208		800A	670A	Flat Conductor	12 Cables
UD2C9C1250AL	569209		1250A	950A	2 Cables	9 Cables
UDF9C1000AL	569210		1000A	840A	Flat Conductor	9 Cables

Table 2/3

Catalog Number	Article Number	E-Number	Material	Line Side Max Conductor Size, IEC	Load Side Max Conductor Size, IEC	Max Working Voltage, IEC (Ui)
UD-80A	569010		Copper, Thermoplastic	16 mm <sup>2</sup>	16 mm <sup>2</sup>	1000
UDF-250A	569041		Copper, Thermoplastic	70 mm <sup>2</sup>	16 mm <sup>2</sup>	1000
UDJ-125A	569020		Copper, Thermoplastic	35 mm <sup>2</sup>	16 mm <sup>2</sup>	1000
UDJ-160A	569030	2674282	Copper, Thermoplastic	70 mm <sup>2</sup>	16 mm <sup>2</sup>	1000
UD-400212AL	569251		Aluminum, Thermoplastic	95 mm <sup>2</sup>	10 mm <sup>2</sup>	1000, 1500
UD-400112AL	569252		Aluminum, Thermoplastic	185 mm <sup>2</sup>	10 mm <sup>2</sup>	1000, 1500
UD9C630AL	569203		Aluminum, Thermoplastic	300 mm <sup>2</sup>	25 mm <sup>2</sup>	1000, 1500
UDF9C500AL	569204		Aluminum, Thermoplastic	100 mm <sup>2</sup>	25 mm <sup>2</sup>	1000, 1500
UD2C12C630AL	569205		Aluminum, Thermoplastic	185 mm <sup>2</sup>	25 mm <sup>2</sup>	1000, 1500
UD6C500AL	569201		Aluminum, Thermoplastic	240 mm <sup>2</sup>	50 mm <sup>2</sup>	1000, 1500
UDF6C500AL	569202		Aluminum, Thermoplastic	100 mm <sup>2</sup>	50 mm <sup>2</sup>	1000, 1500

CatalogNumber	Article Number	E-Number	Material	Line Side Max ConductorSize, IEC	Load Side Max ConductorSize, IEC	Max Working Voltage, IEC (Ui)
UDF12C500AL	569206		Aluminum, Thermoplastic	100 mm <sup>2</sup>	25 mm <sup>2</sup>	1000, 1500
UDF-500A	569060		Copper, Thermoplastic	185 mm <sup>2</sup>	35 mm <sup>2</sup>	1000
UD-400212CU	569051		Copper, Thermoplastic	95 mm <sup>2</sup>	10 mm <sup>2</sup>	1000, 1500
UD-400112CU	569052		Copper, Thermoplastic	185 mm <sup>2</sup>	10 mm <sup>2</sup>	1000, 1500
UD-400A	569050	2674284	Copper, Thermoplastic	185 mm <sup>2</sup>	35 mm <sup>2</sup>	1000
UD-250A	569040	2674283	Copper, Thermoplastic	120 mm <sup>2</sup>	35 mm <sup>2</sup>	1000
UD2C12C1000AL	569207		Aluminum, Thermoplastic	240 mm <sup>2</sup>	25 mm <sup>2</sup>	1000, 1500
UDF12C800AL	569208		Aluminum, Thermoplastic	240 mm <sup>2</sup>	25 mm <sup>2</sup>	1000, 1500
UD2C9C1250AL	569209		Aluminum, Thermoplastic	400 mm <sup>2</sup>	95 mm <sup>2</sup>	1000, 1500
UDF9C1000AL	569210		Aluminum, Thermoplastic	240 mm <sup>2</sup>	95 mm <sup>2</sup>	1000, 1500

Table 3/3

Catalog Number	Article Number	E-Number	Max Working Voltage, UL (Vin)	Certifications
UD-80A	569010		600	CSA, cUR, RoHS, CE, ERIFLEX UD, UR
UDF-250A	569041		600	CE, ERIFLEX UD, UR, RoHS, cUR
UDJ-125A	569020		600	CE, ERIFLEX UD, UR, CSA, cUR, RoHS
UDJ-160A	569030	2674282	600	RoHS, CSA, cUR, CE, ERIFLEX UD, UR
UD-400212AL	569251		1000	CSA, cUR, RoHS, CE, ERIFLEX UD, UR
UD-400112AL	569252		1000	CE, ERIFLEX UD, UR, RoHS, CSA, cUR

Catalog Number	Article Number	E-Number	Max Working Voltage, UL (Vin)	Certifications
UD9C630AL	569203		1000	UL, cUL, QPQS7.E497276
UDF9C500AL	569204		1000	cUL, QPQS7.E497276, UL
UD2C12C630AL	569205		1000	UL, cUL, QPQS7.E497276
UD6C500AL	569201		1000	cUL, QPQS7.E497276, UL
UDF6C500AL	569202		1000	UL, cUL, QPQS7.E497276
UDF12C500AL	569206		1000	cUL, QPQS7.E497276, UL
UDF-500A	569060		600	cUR, RoHS, CE, ERIFLEX UD, UR
UD-400212CU	569051		1000	CE, ERIFLEX UD, UR, RoHS, CSA, cUR
UD-400112CU	569052		1000	CSA, cUR, CE, ERIFLEX UD, UR, RoHS
UD-400A	569050	2674284	600	CSA, cUR, CE, ERIFLEX UD, UR, RoHS
UD-250A	569040	2674283	600	CSA, cUR, RoHS, CE, ERIFLEX UD, UR
UD2C12C1000AL	569207		1000	cUL, QPQS7.E497276, UL
UDF12C800AL	569208		1000	cUL, QPQS7.E497276, UL
UD2C9C1250AL	569209		1000	cUL, QPQS7.E497276, UL
UDF9C1000AL	569210		1000	cUL, QPQS7.E497276, UL

## 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

**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](http://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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