

# BD Two Pole Distribution Block, 80/100 A

## Data Solutions



### CERTIFICATIONS



### FEATURES

Minimum space for maximum power

Protection cover and insulating screens are transparent

Insulating screen between each row

Easy and safe connections

Wiring with or without terminal

Easily clips onto DIN rail or mounts to panel with screws

RoHS compliant

Conforms to EN 45545 obtaining an HL3 classification for chapter R23 and HL2 classification for chapter R22

Halogen free

### SPECIFICATIONS

Table 1/2

Catalog Number	BD-80-100A	BD-80-100AL

Article Number	563900	563910
Max Current Rating, IEC	100A	100A
Short Term Withstand Current (I <sub>cw</sub> ) 1s	4.5kA	4.5kA
Peak Short Circuit Current (I <sub>pk</sub> )	20kA	20kA
Max Working Voltage, IEC (U <sub>i</sub> )	500V	500V
Line Side Number of Connections	1	2
Line Side Compact Stranded Wire Size	10 - 25 mm <sup>2</sup>	10 - 25 mm <sup>2</sup>
Line Side Stranded Wire Size - Ferrule	10 – 25mm <sup>2</sup>	10 – 25mm <sup>2</sup>
Load Side Number of Connections	6	13
Load Side Compact Stranded Wire Size	(3) 1,5 - 4 mm <sup>2</sup> (3) 2,5 - 6 mm <sup>2</sup>	(6) 1,5 - 4 mm <sup>2</sup> (7) 2,5 - 6 mm <sup>2</sup>
Load Side Stranded Wire Size - Ferrule	(3) 0,75 – 4 mm <sup>2</sup> (3) 1,5 – 6 mm <sup>2</sup>	(6) 0,75 – 4 mm <sup>2</sup> (7) 1,5 – 6 mm <sup>2</sup>
Depth (D)	50mm	50mm
Height (H)	50mm	50mm
Width (W)	64mm	130mm
Unit Weight	0.11kg	0.21kg
Flammability Rating	UL® 94V-0	UL® 94V-0

Table 2/2

<b>Catalog Number</b>	<b>BD-80-100A</b>	<b>BD-80-100AL</b>
Complies With	IEC® 60947-7-1	IEC® 60947-7-1

## ADDITIONAL PRODUCT DETAILS

Line side and load side number of connections are per pole.

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

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## WARNING

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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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