

## BD TWO POLE DISTRIBUTION BLOCK, 80/100 A



### 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 1/4

Catalog Number	Article Number	Max Current Rating, IEC	Peak Short Circuit Current (Ipk)	Line Side Stranded Wire Size - Ferrule	Line Side Compact Stranded Wire Size	Short Term Withstand Current (Icw) 1s
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BD-80-100A	563900	100A	20kA	10 – 25mm <sup>2</sup>	10 - 25 mm <sup>2</sup>	4.5kA
BD-80-100AL	563910	100A	20kA	10 – 25mm <sup>2</sup>	10 - 25 mm <sup>2</sup>	4.5kA

Table 2/4

Catalog Number	Article Number	Line Side Number of Connections	Load Side Number of Connections	Load Side Compact Stranded Wire Size	Load Side Stranded Wire Size - Ferrule	Max Working Voltage, IEC (Ui)
BD-80-100A	563900	1	6	(3) 1,5 - 4 mm <sup>2</sup> , (3) 2,5 - 6 mm <sup>2</sup>	(3) 0,75 – 4 mm <sup>2</sup> , (3) 1,5 – 6 mm <sup>2</sup>	500V
BD-80-100AL	563910	2	13	(6) 1,5 - 4 mm <sup>2</sup> , (7) 2,5 - 6 mm <sup>2</sup>	(6) 0,75 – 4 mm <sup>2</sup> , (7) 1,5 – 6 mm <sup>2</sup>	500V

Table 3/4

Catalog Number	Article Number	Height (H)	Width (W)	Depth (D)	Unit Weight	Flammability Rating
BD-80-100A	563900	50mm	64mm	50mm	0.11kg	UL® 94V-0
BD-80-100AL	563910	50mm	130mm	50mm	0.21kg	UL® 94V-0

Table 4/4

Catalog Number	Article Number	Complies With
BD-80-100A	563900	IEC® 60947-7-1
BD-80-100AL	563910	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



## 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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