

# TDL Compact Four Pole Distribution Block, 400 A

## Data Solutions



### CERTIFICATIONS



### FEATURES

Connect nVent ERIFLEX Flexibar, insulated braided conductor or cable with lug on line side

Tinned copper bars allows for copper or aluminum cable

Transparent protection covers

Easy and safe connections

Easily clips onto DIN rail or mounts to panel with screws

Solid bars provide reliability

Input separated from outputs

Supports wiring from both sides

Design allows for visual inspection of conductor and confirmation of connection

Large end terminals

High percentage of fill ratio

Wiring with or without terminal

RoHS compliant

Halogen free

## SPECIFICATIONS

| Catalog Number                         | <b>TDL-400A</b>                                                                                                          |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Article Number                         | 563995                                                                                                                   |
| Material                               | Copper<br>Thermoplastic                                                                                                  |
| Finish                                 | Tinned                                                                                                                   |
| Max Current Rating, IEC                | 400A                                                                                                                     |
| Max Current Rating, UL/CSA             | 400A                                                                                                                     |
| Short Term Withstand Current (Icw) 1s  | 23kA                                                                                                                     |
| Peak Short Circuit Current (Ipk)       | 51kA                                                                                                                     |
| Max Working Voltage, IEC (Ui)          | 1000<br>1500                                                                                                             |
| Max Working Voltage, UL (Vin)          | 600                                                                                                                      |
| Line Side Number of Connections        | 1                                                                                                                        |
| Line Side Compact Stranded Wire Size   | 35 - 120 mm <sup>2</sup>                                                                                                 |
| Line Side Conductor Width              | 20 – 24mm                                                                                                                |
| Line Side Stranded Wire Size - Ferrule | 35 – 120mm <sup>2</sup>                                                                                                  |
| Line Side Wire Size                    | 1 – 250                                                                                                                  |
| Load Side Number of Connections        | 14                                                                                                                       |
| Load Side Compact Stranded Wire Size   | (1) 10 - 50 mm <sup>2</sup><br>(2) 10 - 35 mm <sup>2</sup><br>(4) 6 - 25 mm <sup>2</sup><br>(7) 2,5 - 16 mm <sup>2</sup> |
| Load Side Stranded Wire Size - Ferrule | (1) 10 - 35 mm <sup>2</sup><br>(2) 10 – 25 mm <sup>2</sup><br>(4) 6 - 16 mm <sup>2</sup><br>(7) 2,5 - 10 mm <sup>2</sup> |
| Load Side Wire Size                    | (1) #6 – 1/0<br>(2) #8 - #1<br>(4) #10 - #3<br>(7) #10 - #5                                                              |
| Depth (D)                              | 121mm                                                                                                                    |
| Height (H)                             | 156mm                                                                                                                    |
| Width (W)                              | 224mm                                                                                                                    |
| Unit Weight                            | 1.69kg                                                                                                                   |

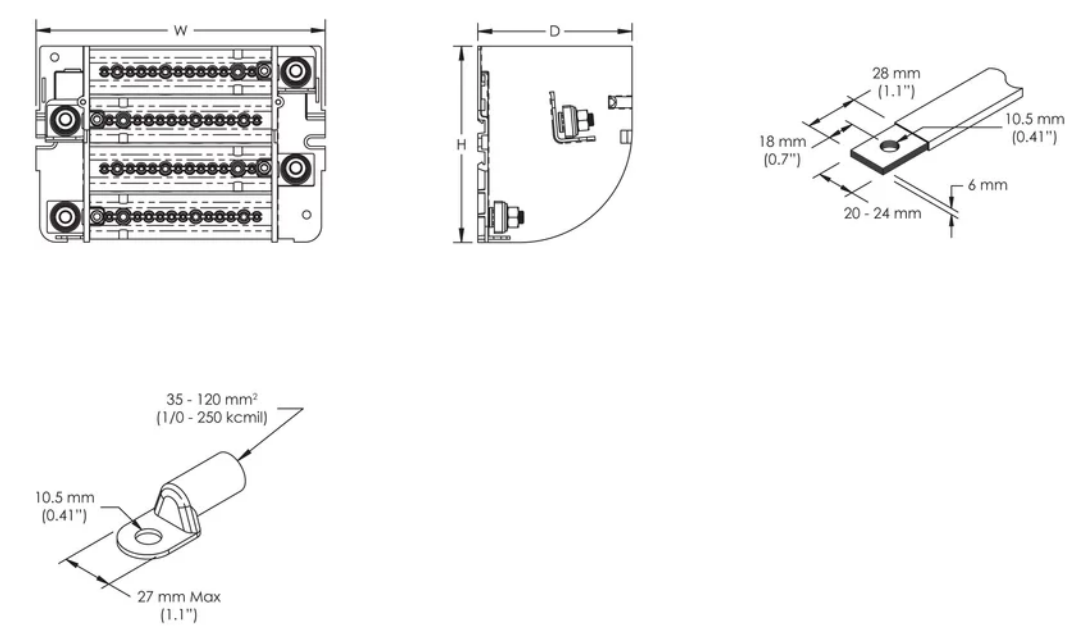
|                     |                |
|---------------------|----------------|
| Catalog Number      | TDL-400A       |
| Enclosure Rating    | IP 10          |
| Flammability Rating | UL® 94V-0      |
| Complies With       | IEC® 60947-7-1 |

### 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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