

## BNH/BN Series



## Key features of the BNH/BN series include:

- Touch-down terminals with spring-loaded captive screws
- Jumpers available up to 30A model
- Fuse block with or without blown-fuse indicator in neon or LED
- Mount on 35mm standard DIN rail



UL Recognized  
File No. E78117



CSA Certified  
File No. LR64803



File No. R9551701  
J9551516 (power blocks)  
R9650688 (dual-deck blocks)



## Specifications

| Part Numbers          |            | BNH10W        | BNH15MW       | BNH15LW         | BNH30W        |
|-----------------------|------------|---------------|---------------|-----------------|---------------|
| Appearance            |            |               |               |                 |               |
| Width                 |            | 0.275" (7mm)  | 0.315" (8mm)  | 0.413" (10.5mm) | 0.472" (12mm) |
| Approvals             |            | UL, CSA, TUV  | UL, CSA, TUV  | UL, CSA, TUV    | UL, CSA, TUV  |
| No. of Poles          |            | 1             | 1             | 1               | 1             |
| Wire Sizes            |            | 22 to 16 AWG  | 22 to 14 AWG  | 22 to 14 AWG    | 18 to 10 AWG  |
| Voltage/Current       |            | 600V / 10A    | 600V / 10A    | 600V / 15A      | 600V / 30A    |
| Terminals             | Size       | M3            | M3            | M3.5            | M4            |
|                       | Type       | Touch-down    | Touch-down    | Touch-down      | Touch-down    |
| Mounting              |            | 35mm DIN rail | 35mm DIN rail | 35mm DIN rail   | 35mm DIN rail |
| Terminal Torque       | (N-m)      | 0.6 - 1.0     | 0.6 - 1.0     | 1.0 - 1.3       | 1.4 - 2.0     |
|                       | (in-lbs.)  | 5.3 - 8.9     | 5.3 - 8.9     | 8.9 - 11.5      | 12.4 - 17.8   |
| End Plate             |            | BNE15W        | BNE15W        | BNE15W          | BNE30W        |
| DIN Rail Stop         |            | BNL-5         | BNL-5         | BNL-5           | BNL-5         |
| Dust Cover            |            | BNC230        | BNC230        | BNC230          | BNC230        |
| Marking Strip         | PVC        | BNM7          | BNM7          | BNM7            | BNM7          |
|                       | Fiberglass | BNM9          | BNM9          | BNM9            | BNM9          |
|                       | End clip   | BNM3          | BNM3          | BNM3            | BNM3          |
| Ring Terminal Jumpers |            | BNJ16         | BNJ26W        | BNJ46           | BNJ56         |
| Fork Terminal Jumpers |            | BNJ16F        | BNJ26FW       | BNJ46F          | BNJ56F        |



1. BNDN1000 aluminum DIN rails are available in 1 meter lengths.
2. Marking strips are available in 1 meter lengths.
3. Jumpers are available in groups of six.
4. Remove the "H" in the terminal block part number for standard screw type (ex. BNH10W becomes BN10W).

**Specifications, continued**

| Part Numbers          |            | BNH50W                                                                            | BN75W                                                                             | BN150W                                                                             | BNDH15W                                                                             |
|-----------------------|------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
| Appearance            |            |  |  |  |  |
|                       |            |                                                                                   |                                                                                   |                                                                                    |                                                                                     |
| Width                 |            | 0.610" (15.5mm)                                                                   | 0.787" (20mm)                                                                     | 1.024" (26mm)                                                                      | 0.315" (8mm)                                                                        |
| Approvals             |            | UL, CSA, TUV                                                                      | UL, CSA, TUV                                                                      | UL, CSA, TUV                                                                       | UL, CSA, TUV                                                                        |
| No. of Poles          |            | 1                                                                                 | 1                                                                                 | 1                                                                                  | 2                                                                                   |
| Wire Sizes            |            | 16 to 6 AWG                                                                       | 16 to 4 AWG                                                                       | 16 to 0 AWG                                                                        | 22 to 14 AWG                                                                        |
| Voltage/Current       |            | 600V / 50A                                                                        | 600V / 75A                                                                        | 600V / 150A                                                                        | 600V / 10A                                                                          |
| Terminals             | Size       | M5                                                                                | M6                                                                                | M8                                                                                 | M3                                                                                  |
|                       | Type       | Touch-down                                                                        | Hex bolt                                                                          | Hex bolt                                                                           | Touch-down                                                                          |
| Mounting              |            | 35mm DIN rail                                                                     | 35mm DIN rail                                                                     | 35mm DIN rail                                                                      | 35mm DIN rail, surface                                                              |
| Terminal Torque       | (N-m)      | 2.6 - 3.7                                                                         | 3.9 - 5.4                                                                         | 10 - 13.5                                                                          | 0.6 - 1.0                                                                           |
|                       | (in-lbs.)  | 23.1 - 32.8                                                                       | 34.6 - 47.9                                                                       | 88.8 - 119.8                                                                       | 5.3 - 8.9                                                                           |
| End Plate             |            | BNE50W                                                                            | BNE75W                                                                            | BNE150W                                                                            | BNDE15W                                                                             |
| DIN Rail Stop         |            | BNL-5                                                                             | BNL-6                                                                             | BNL-6                                                                              | BNL-8                                                                               |
| Dust Cover            |            | BNC320                                                                            | BNC420                                                                            | BNC520                                                                             | BNC230 (top level)<br>BNC240 (bottom Level)                                         |
| Marking Strip         | PVC        | BNM7                                                                              | BNM7                                                                              | BNM7                                                                               | BNM7                                                                                |
|                       | Fiberglass | BNM9                                                                              | BNM9                                                                              | BNM9                                                                               | BNM9                                                                                |
|                       | End clip   | BNM3                                                                              | BNM3                                                                              | BNM3                                                                               | BNM3                                                                                |
| Connecting Rods       |            | —                                                                                 | —                                                                                 | —                                                                                  | BNR1 10.34" (265mm)<br>BNR2 19.69" (500mm)                                          |
| Connecting Nuts       |            | —                                                                                 | —                                                                                 | —                                                                                  | BNN1 (2 pieces)                                                                     |
| Base Mount Brackets   |            | —                                                                                 | —                                                                                 | —                                                                                  | BNDL2                                                                               |
| Ring Terminal Jumpers |            | —                                                                                 | —                                                                                 | —                                                                                  | BNJ26                                                                               |
| Fork Terminal Jumpers |            | —                                                                                 | —                                                                                 | —                                                                                  | BNJ26FW                                                                             |



1. BNDN1000 aluminum DIN rails are available in 1 meter lengths.
2. Marking strips are available in 1 meter lengths.
3. Jumpers are available in groups of six.
4. Remove the "H" in the terminal block part number for standard screw type (ex. BNH50W becomes BN50W).

## Specifications, continued

| Part Numbers         |           | BNF10SW                                                                           | BNF10NW                                                                           | BNF10DW                                                                            |
|----------------------|-----------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
| Appearance           |           |  |  |  |
| Width                |           | 0.591" (15mm)                                                                     | 0.591" (15mm)                                                                     | 0.591" (15mm)                                                                      |
| Blown Fuse Indicator |           | None                                                                              | Neon (100–300VAC)                                                                 | LED (24V DC)                                                                       |
| Approvals            |           | UL, CSA                                                                           | UL, CSA                                                                           | UL, CSA                                                                            |
| No. of Poles         |           | 1                                                                                 | 1                                                                                 | 1                                                                                  |
| Wire Sizes           |           | 18 to 10 AWG                                                                      | 18 to 10 AWG                                                                      | 18 to 10 AWG                                                                       |
| Voltage/Current      |           | 600V/10A maximum                                                                  | 600V/10A maximum                                                                  | 600V/10A maximum                                                                   |
| Terminals            | Size      | M4                                                                                | M4                                                                                | M4                                                                                 |
|                      | Type      | Standard screw                                                                    | Standard screw                                                                    | Standard screw                                                                     |
| Mounting             |           | 35mm DIN rail                                                                     | 35mm DIN rail                                                                     | 35mm DIN rail                                                                      |
| Terminal Torque      | (N-m)     | 1.4 - 2.0                                                                         | 1.4 - 2.0                                                                         | 1.4 - 2.0                                                                          |
|                      | (in-lbs.) | 12.4 - 17.8                                                                       | 12.4 - 17.8                                                                       | 12.4 - 17.8                                                                        |
| End Plate            |           | BNE20                                                                             | BNE20                                                                             | BNE20                                                                              |
| DIN Rail Stop        |           | BNL-5                                                                             | BNL-5                                                                             | BNL-5                                                                              |
| Dust Cover           |           | —                                                                                 | —                                                                                 | —                                                                                  |
| Marking Strip        |           | BNM7                                                                              | BNM7                                                                              | BNM7                                                                               |
| Applicable Fuse Size |           | 1/4" x 1-1/4"<br>(6.35 x 31.8mm)                                                  | 1/4" x 1-1/4"<br>(6.35 x 31.8mm)                                                  | 1/4" x 1-1/4"<br>(6.35 x 31.8mm)                                                   |



1. BNDN1000 aluminum DIN rails are available in 1 meter lengths.
2. Fuses not included.

Dimensions

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

Circuit Breakers

BNH Series

| Part No.          | Diagrams |  |
|-------------------|----------|--|
| BNH10W<br>BNH15MW |          |  |
| BNH15LW<br>BNH30W |          |  |
| BNH50W            |          |  |

BN Series

| Part No.                                 | Diagrams |  |
|------------------------------------------|----------|--|
| BN75W<br>BN150W                          |          |  |
| BNF10SW<br>BNF10NW<br>BNW10DW<br>BNDH15W |          |  |
| BND15W                                   |          |  |

## Accessories

### Part Numbers: End Plates, DIN Rail Stops, Stand-Offs, DIN Rail and Dust Covers

| Description         | Appearance                                                                          | Use with                                                                            | Part No.                        | Remarks                                                                                                                                                                                                |                                                                                                                          |
|---------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| End Plates          |    | BNH10W                                                                              | BNE15W                          |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH15MW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH15LW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH30W                                                                              | BNE30W                          |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNF10SW                                                                             | BNE20                           |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNF10NW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNF10DW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH50W                                                                              | BNE50W                          |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BN75W                                                                               | BNE75W                          |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BN150W                                                                              | BNE150W                         |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNDH15W                                                                             | BNDE15W                         |                                                                                                                                                                                                        |                                                                                                                          |
| DIN Rail Stops      |    | BNH10W                                                                              | BNL5<br>(small)                 | 1. DIN rail stops prevent side-to-side movement.<br>2. The BNL-5 width is 0.375" (9mm).                                                                                                                |                                                                                                                          |
|                     |                                                                                     | BNH15MW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH15LW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH30W                                                                              |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH50W                                                                              |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNF10SW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNF10NW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNF10DW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BA111T                                                                              |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BA211T                                                                              |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BA311T                                                                              |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BA411S                                                                              |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BAF111SU                                                                            |                                 |                                                                                                                                                                                                        |                                                                                                                          |
| BAF111SDU           |                                                                                     |                                                                                     |                                 |                                                                                                                                                                                                        |                                                                                                                          |
| DIN Rail Stand-Offs |  | BN75W<br>BN150W                                                                     | BNL6<br>(medium)                | 1. DIN rail stops prevent side-to-side movement.<br>2. The BNL-6 width is 0.375" (9mm).<br>3. To firmly stabilize these higher profile terminal blocks, the BNL-6 has a higher profile than the BNL-5. |                                                                                                                          |
|                     |                                                                                     |  | BNDH15W<br>BN200NW#<br>BN400NW# | BNL8<br>(large)                                                                                                                                                                                        | 1. DIN rail stops prevent side-to-side movement.<br>2. The BNL-8 width is 0.571" (14.5mm).<br>3. # = number of poles.    |
|                     |  |                                                                                     | All series                      | BNS3                                                                                                                                                                                                   | 1.46" (37mm) height                                                                                                      |
|                     |                                                                                     |                                                                                     |                                 | BNS4                                                                                                                                                                                                   | 3.03" (77mm) height                                                                                                      |
|                     | DIN Rail                                                                            |  | All series                      | BNDN1000<br>(length 39.37"<br>(1mm)                                                                                                                                                                    | 1. For calculating the rail lengths required, see the instructions on page 876.<br>2. The DIN rail material is aluminum. |
| Dust Covers         |  | BNDH15W                                                                             | BNC230                          | The overall length is 39.37" (1,000mm).<br>The material is polycarbonate (UL94-V2).                                                                                                                    |                                                                                                                          |
|                     |                                                                                     | BNH10W                                                                              |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH15MW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH15LW                                                                             |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH30W                                                                              |                                 |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BNH50W                                                                              | BNC320                          |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BN75W                                                                               | BNC420                          |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BN150W                                                                              | BNC520                          |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BN200                                                                               | BAC820                          |                                                                                                                                                                                                        |                                                                                                                          |
|                     |                                                                                     | BN400                                                                               | BNC1000                         |                                                                                                                                                                                                        |                                                                                                                          |

## Accessories, continued

## Part Numbers: Rods, Nuts, Marking Strips, Dust Covers, and Jumpers

| Description                 | Appearance | Use with            | Part No.     | Remarks                                                                                                                                                                                                                                                                                         |
|-----------------------------|------------|---------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Marking Strips              |            | All series          | BNM7         | Material: polyvinyl chloride (PVC)<br>Strip dimensions are 0.37"x39" (9.5 x 1,000mm).                                                                                                                                                                                                           |
|                             |            |                     | BNM9         | Material: fiberglass<br>Strip dimensions are 0.37"x39" (9.5 x 1,000mm).                                                                                                                                                                                                                         |
| Marking Strip Fastener      |            | All series          | BNM3         | Used to prevent marking strips from sliding out.                                                                                                                                                                                                                                                |
| Ring Terminal Jumpers       |            | BNH10W              | BNJ16        | Jumpers come standard with 6 points.                                                                                                                                                                                                                                                            |
|                             |            | BNH15MW             | BNJ26W       |                                                                                                                                                                                                                                                                                                 |
|                             |            | BNH15LW             | BNJ46        |                                                                                                                                                                                                                                                                                                 |
|                             |            | BNH30W              | BNJ56        |                                                                                                                                                                                                                                                                                                 |
|                             |            | BNDH15W             | BNJ26W       |                                                                                                                                                                                                                                                                                                 |
| Fork Terminal Jumpers       |            | BNH10W              | BNJ16F       | Note: insulated jumpers available - add "B" to end of part number. For example, BNJ26WB.                                                                                                                                                                                                        |
|                             |            | BNH15MW             | BNJ26FW      |                                                                                                                                                                                                                                                                                                 |
|                             |            | BNH15LW             | BNJ46F       |                                                                                                                                                                                                                                                                                                 |
|                             |            | BNH30W              | BNJ56F       |                                                                                                                                                                                                                                                                                                 |
|                             |            | BNDH15W             | BNJ26FW      |                                                                                                                                                                                                                                                                                                 |
| Surface Mount Bracket       |            | BNDH15W (dual-deck) | BNDL2        | Used to surface mount dual-deck terminal blocks. (BNDL2).                                                                                                                                                                                                                                       |
| M4 Thread Rod               |            | BNDH15W             | BNR1 (265mm) | 1. Rod and connecting nuts are used to mount dual-decks collectively.<br>2. Each connecting nut set includes 1 hex connecting nut and 1 round connecting nut.<br>3. The BNR1 rod dimensions are 0.027" x 10.43" (0.7 x 265mm).<br>4. The BNR2 rod dimensions are 0.027" x 19.69" (0.7 x 500mm). |
|                             |            |                     | BNR2 (500mm) |                                                                                                                                                                                                                                                                                                 |
| Connecting Nuts             |            | BNR1<br>BNR2        | BNN1         |                                                                                                                                                                                                                                                                                                 |
| Terminal Block Removal Tool |            |                     | BND2         |                                                                                                                                                                                                                                                                                                 |



For accessory dimensions, see page 872.

## Dimensions

### Dimensions: DIN Rail

| Part No.        | Diagrams |
|-----------------|----------|
| <b>BNDN1000</b> |          |

### Dimensions: Jumpers

#### BNH Series

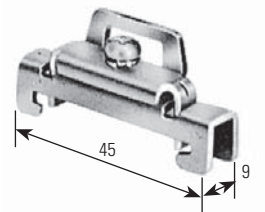
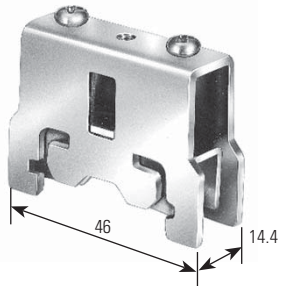
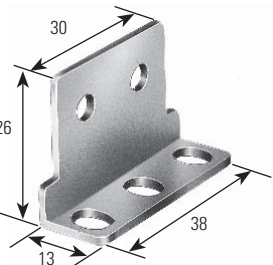
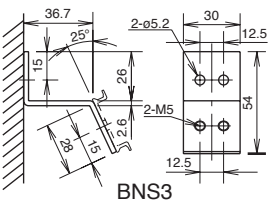
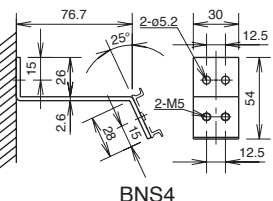
| Part No.                                                                       | Diagrams |
|--------------------------------------------------------------------------------|----------|
| <b>BNJ16</b><br><b>BNJ16F (fork)</b><br><b>BNJ26W</b><br><b>BNJ26FW (fork)</b> |          |
| <b>BNJ46</b><br><b>BNJ46F (fork)</b><br><b>BNJ56</b><br><b>BNJ56F (fork)</b>   |          |



Thickness + 0.8mm (0.0315")

Dimensions, continued

Dimensions, DIN Rail Stops and Stand-offs

| Part No. | Dimensions                                                                                                                                    |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------------|
| BNL-6    |  <p>BNL-6 shown, BNL-5 same except without back crossbar</p> |
| BNL-8    |                                                              |
| BNDL2    |                                                             |
| BNS3     |                                                            |
| BNS4     |                                                            |

Switches & Pilot Lights

Display Lights

Relays & Sockets

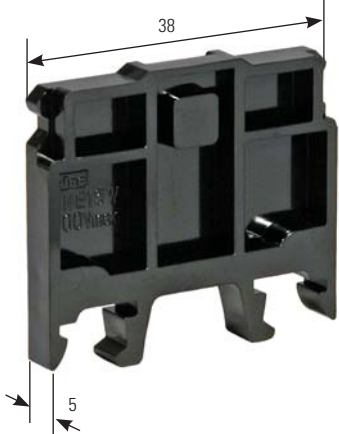
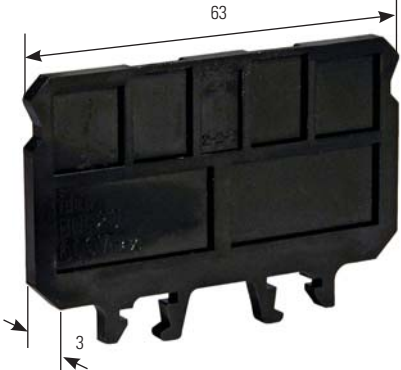
Timers

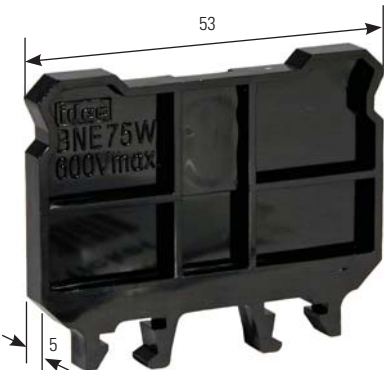
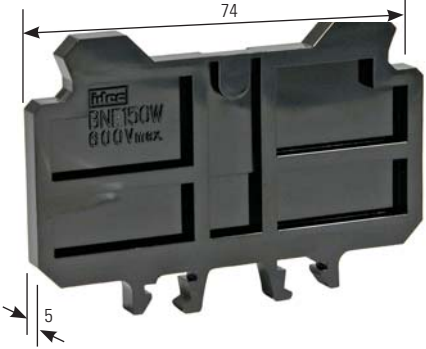
Terminal Blocks

Circuit Breakers

## Dimensions, continued

## Dimensions: End Plates

| Part No. | Dimensions                                                                          |
|----------|-------------------------------------------------------------------------------------|
| BNE15W   |    |
| BNE20    |   |
| BNE30W   |  |
| BNE50W   |  |

| Part No. | Dimensions                                                                            |
|----------|---------------------------------------------------------------------------------------|
| BNE75W   |    |
| BNE150W  |   |
| BNDE15W  |  |

Instructions

Wiring Touch-Down Terminal Blocks: BNH Series

| Instructions                                                                                                                                                                                                                                                                                                                                                                                                               | Step 1 | Step 2 | Step 3 | Step 4 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--------|--------|
| <p>Step 1. Insert the wire (or crimping terminal) into the terminal block with the terminal screws in the open position. (Use of crimping terminals is optional.)</p> <p>Step 2. Push the terminal screw down to hold the wire in place.</p> <p>Step 3. Hold the terminal screw down, and tighten with a screwdriver.</p> <p>Step 4. To remove the wire, loosen the terminal screw and pull up until wire is released.</p> |        |        |        |        |

Installation and Removal of Terminal Blocks

| Instructions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Appearance                   |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|
| <p>Step 1. Slide the terminal blocks onto the DIN rail from one end.</p> <p>Step 2. Use BNL5 or BNL6 end clips to secure the terminal block row and to prevent side-to-side movement. BNH10W, BNH15MW, BNH15LW, and BNH30W can be installed from the middle of a DIN rail.</p> <p>Step 3. To install, place the terminal block on top of the DIN rail and push down until both edges of the terminal block snap onto the DIN rail.</p> <p>Step 4. To remove the terminal block, use the BND2 removal tool as shown on the right.</p> | <p>Removal Tool<br/>BND2</p> |

Mounting Double-Deck Terminal Blocks

| Instructions                                                                                                                                                                                                                                                                                                                                                                                                           | Appearance                                                                                                                                                       |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>DIN Rail Mount:</b></p> <p>Step 1. First install the end plate. Then mount the terminal blocks onto the DIN rail.</p> <p>Step 2. To prevent side-to-side movement on the DIN rail, use the BNL-8 mounting clip at both ends of the rail.</p>                                                                                                                                                                     | <p>Terminal Block</p> <p>End Plate</p> <p>Connecting Nut (hex)</p> <p>Mounting Clip</p> <p>Connecting Rod</p> <p>Connecting Nut (round)</p> <p>Mounting Clip</p> |
| <p><b>Panel Mount:</b></p> <p>Step 1. Assemble a row of terminal blocks with end plates on exposed end(s).</p> <p>Step 2. Use BNDL2 mounting clips at both ends of a row.</p> <p>Step 3. With the two holes of the mounting clip aligned with the terminal block holes, insert a connecting rod through each hole.</p> <p>Step 4. Secure the ends of the connecting rods with the connecting nuts, as shown below.</p> |                                                                                                                                                                  |

Switches & Pilot Lights

Display Lights

Relays & Sockets

Timers

Terminal Blocks

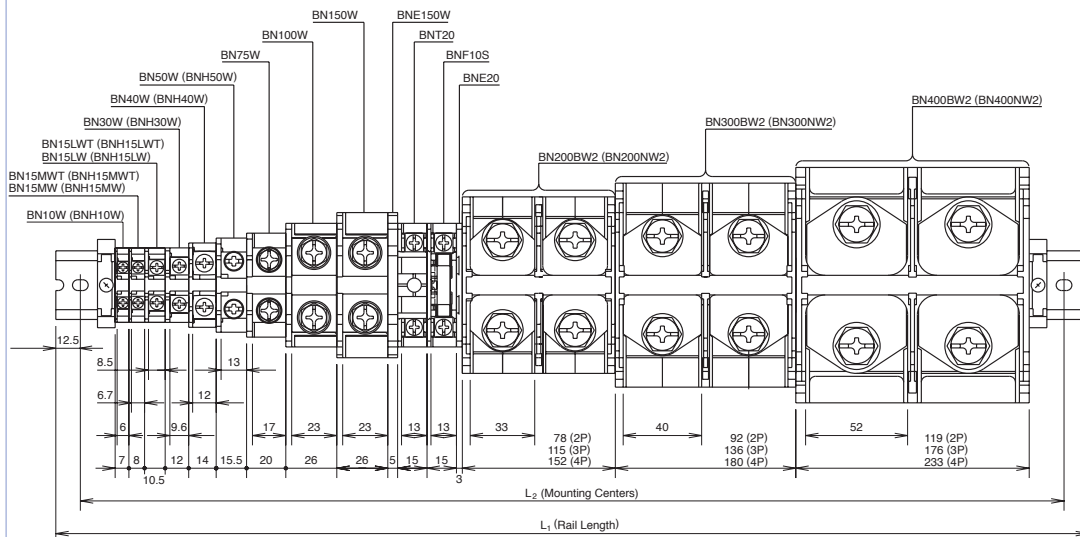
Circuit Breakers

## Calculating DIN Rail Lengths

### Instructions

- Step 1. Add widths of all terminal blocks (reference pages 864 through 869).
- Step 2. Add the endplate thickness (usually only one).
- Step 3. Add the DIN rail stop widths (usually two are used).
- Step 4. Round to the nearest 2" (50mm) increment to allow for DIN rail hole spacing.
- Step 5. Add 1" (25mm) to ensure 0.5" (12.5mm) of clearance at each end of the DIN rail.

### Appearance



## DIN Rail Stop Dimensions

| Part No. | Width          |
|----------|----------------|
| BNL-5    | .374" (9mm)    |
| BNL-6    | .374" (9mm)    |
| BNL-8    | .571" (14.5mm) |

## Torque Specifications

| Screw Size  | M3               | M3.5             | M4               | M5               | M6               | M8               | M10               | M12               | Diagram                                                                                                                             |
|-------------|------------------|------------------|------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------------------------------------------------------------------------------------------------------------------------|
| Torque      | (N-m)            | 0.6 to 1.0       | 1.0 to 1.3       | 1.4 to 2.0       | 2.6 to 3.7       | 3.9 to 5.4       | 10 to 13.5        | 21 to 28          | 38 to 49                                                                                                                            |
|             | (kgf-cm)         | 6.1 to 10.2      | 10.2 to 13.3     | 14.3 to 20.4     | 26.5 to 37.7     | 39.8 to 55.1     | 102 to 138        | 214 to 286        | 388 to 500                                                                                                                          |
| Dimension A | 0.257" (6.6mm)   | 0.332" (8.5mm)   | 0.371" (9.5mm)   | 0.499" (12.8mm)  | 0.655" (16.8mm)  | 0.890" (22.8mm)  | 1.279" (32.8mm)   | 1.981" (50.8mm)   | <p>Diagram illustrating the dimensions of a terminal block: A (height), B (minimum width), C (maximum width), and D (diameter).</p> |
| Dimension B | 0.129" (3.3mm)   | 0.156" (4mm)     | 0.176" (4.5mm)   | 0.176" (4.5mm)   | 0.234" (6mm)     | 0.312" (8mm)     | 0.429" (11mm)     | 0.546" (14mm)     |                                                                                                                                     |
| Dimension C | 0.195" (5mm)     | 0.195" (5mm)     | 0.234" (6mm)     | 0.254" (6.5mm)   | 0.332" (8.5mm)   | 0.429" (11mm)    | 0.624" (16mm)     | 1.014" (26mm)     |                                                                                                                                     |
| Dimension D | Ø 0.125" (3.2mm) | Ø 0.140" (3.6mm) | Ø 0.164" (4.2mm) | Ø 0.203" (5.2mm) | Ø 0.242" (6.2mm) | Ø 0.332" (8.5mm) | Ø 0.410" (10.5mm) | Ø 0.488" (12.5mm) |                                                                                                                                     |

## Rated Current

| Applicable Wire               | Rated at 60°C | Applicable Wire              | Rated at 60°C |
|-------------------------------|---------------|------------------------------|---------------|
| 22 AWG (0.3mm <sup>2</sup> )  | 3A            | 6 (14mm <sup>2</sup> )       | 50A           |
| 20 AWG (0.5mm <sup>2</sup> )  | 5A            | 4 (22mm <sup>2</sup> )       | 75A           |
| 18 AWG (0.75mm <sup>2</sup> ) | 7A            | 0 (38mm <sup>2</sup> )       | 100A          |
| 16 AWG (1.25mm <sup>2</sup> ) | 10A           | 00 (60mm <sup>2</sup> )      | 150A          |
| 14 AWG (2mm <sup>2</sup> )    | 15A           | 0000 (100mm <sup>2</sup> )   | 200A          |
| 12 (3.5mm <sup>2</sup> )      | 20A           | 300mcm (150mm <sup>2</sup> ) | 300A          |
| 10 (5.5mm <sup>2</sup> )      | 30A           | 400mcm (200mm <sup>2</sup> ) | 350A          |



UL/CSA ratings are specified. The current carrying capacity depends on the rating of the wire used, as shown.