

## Terminal Blocks

# BN-W BNH-W Series



UL recognized, CSA certified, and TÜV compliant.  
Self-lifting and touch-down terminals available.



• See website for details on approvals and standards.

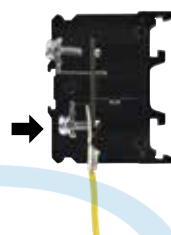
**Touch-down terminal blocks reduce wiring time.  
(BNH-W/BNDH-W Series)**

### 1. Insert the Crimping Terminal



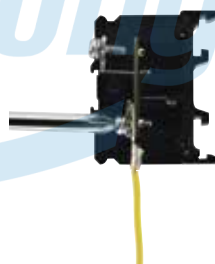
Terminal screw is always in the open position. No need to loosen the screw.

### 2. Push the Screw Down



Push the screw down to temporarily hold the wire in place.

### 3. Tighten the Screw



The screws can be tightened easily with a pneumatic screwdriver.

INDUSTRIAL AUTOMATION

- Molded from UL94V-0 material with excellent flame and shock resistance.
- Terminal blocks can be mounted on a 35-mm-wide DIN rail and 30-mm-wide IEC type C rail.

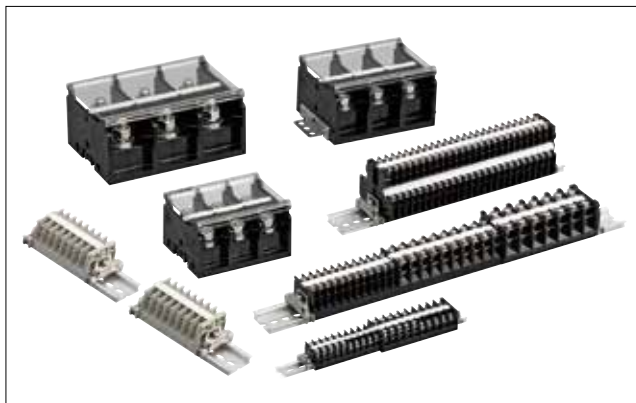


- 9.5-mm-wide marking strips can be used on all models. 17-mm-wide sliding type marking strips also available. (BN10W to BN30W)
- Terminal blocks of different shapes and capacities can be installed without using an end plate. (BN/BNH10W to BN/BNH30W)
- Screw and stud terminals available for large capacity terminal blocks.
- Additional mounting and removal of terminals is easy. (BN□10W to BN□150W)
- Complies with JIS C 8201-7-1.
- UL recognized, CSA certified, and EN compliant (TÜV approved). (Except common terminal)
- UL recognized for field wiring (FW2).

# CÔNG TY CỔ PHẦN CÔNG NGHỆ HỢP LONG

## BN-W / BNH-W Series Terminal Blocks

UL recognized, CSA certified, and TÜV compliant.  
Touch-down terminals reduce wiring time.



### General Ratings

Dielectric Strength	2500V AC, 1 minute
Insulation Resistance	100 MΩ minimum
Operating Temperature	-25 to +55°C (no freezing)
Storage Temperature	-25 to +70°C (no freezing)
Operating Humidity	45 to 85% RH (no condensation)

### Material

Parts Name	Material
Housing	Modified PPE
Bus Bars	Brass (Nickel-plated)
Terminal Screw	Steel (Zinc chrome-plated)
Spring	Stainless steel (touch-down type only)

### Ratings/Terminal Screw Tightening Torque

Style	Part No.		UL/CSA Ratings		EN Ratings (*1)		JIS Ratings		Terminal Screw	Tightening Torque (N·m)
	Self-Lifting	Touch-Down	Voltage/Current	Wire Size (AWG)	Voltage/Current	Wire Size [mm²/(AWG)]	Voltage/Current	Wire Size (mm²)		
Standard	BN10W ★	BNH10W ★	600V/15A	22-16	660V/16A	1.25/(22-16)	800V/16A	1.25	M3	0.6 to 1.0
	BN15MW ★	BNH15MW ★	600V/15A	22-14	660V/22A	2/(22-14)	800V/16A	1.25 (2) *2	M3	0.6 to 1.0
	BN15LW ★	BNH15LW ★	600V/20A	22-14	660V/22A	2/(22-14)	630V/21A	2	M3.5	1.0 to 1.3
	BN15MWT ★	BNH15MWT ★	600V/15A	22-14	660V/22A	2/(22-14)	800V/21A	2	M3.5	1.0 to 1.3
	BN15LWT ★	BNH15LWT ★	600V/30A	22-14	660V/22A	3.5/(22-14)	630V/30A	3.5	M4	1.4 to 2.0
	BN30W ★	BNH30W ★	600V/35A	18-10	660V/38A	5.5/(18-10)	630V/40A	5.5	M4	1.4 to 2.0
	BN40W	BNH40W	600V/40A	16-8	660V/50A	8/(16-8)	630V/50A	8	M5	2.6 to 3.7
	BN50W	BNH50W	600V/60A	16-6	660V/67A	14/(16-6)	800V/70A	14	M5	2.6 to 3.7
Large Capacity	BN75W ★		600V/80A	16-4	660V/94A	22/(8-4)	1000V/94A	22	M6	3.9 to 5.4
	BN100W		600V/100A	16-2	660V/132A	38/(2)	1000V/132A	38	M8	10 to 13.5
	BN150W		600V/150A	16-1/0	660V/175A	60/(1/0)	1000V/175A	60	M8	10 to 13.5
	BN150NW		600V/150A	16-1/0	660V/175A	60/(1/0)	630V/175A	60	M8	10 to 13.5
	BN200BW□, BN200NW□		600V/200A	4/0	660V/240A	100/(4/0)	800V/240A	100	M10	21 to 28
	BN300BW□, BN300NW□		600V/310A	300MCM	660V/310A	150/(300MCM)	800V/310A	150	M10	
	BN400BW□, BN400NW□		600V/350A	400MCM	660V/370A	200/(400MCM)	800V/370A	200	M12	38 to 49
	BN500BW□, BN500NW□		600V/500A	500MCM	660V/430A	240/(500MCM)	800V/430A	250	M16	83 to 116
	BN600NW□K		600V/600A	600MCM	660V/520A	300/(600MCM)	800V/520A	325	M16	
With Disconnecting Switch	BNT20	—	—	—	—	—	600V/20A	5.5	M4	1.4 to 2.0
With Fuse	BNF10S	—	—	—	—	—	600V/10A	5.5	M4	1.4 to 2.0
	BNF10N	—	—	—	—	—	600V/10A	5.5	M4	
Double-Deck	BND15W	BNDH15W	600V/10A	22-14	660V/22A	2/(22-14)	800V/16A	1.25 (2) *2	M3	0.6 to 1.0
	BND15LW	BNDH15LW	600V/15A	22-14	660V/22A	2/(22-14)	800V/21A	2	M3.5	1.0 to 1.3
	BND15WT	BNDH15WT	600V/15A	22-14	660V/22A	2/(22-14)	800V/21A	2	M3.5	1.0 to 1.3
Common Terminal	BN15MC□	—	—	—	—	—	600V/16A Common Current	1.25 (2) *2	M3	0.6 to 1.0

\*1: Ratings approved by TÜV based on EN60947-7-1.

\*2: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected. The wire size in ( ) does not comply with JIS standards.

\*3: Part No. with ★ is UL recognized for field wiring (FW2).

Specify the number of poles in place of □.

## Terminal Blocks

Terminal Style			Part No.	Ordering No.	Applicable Wire (mm <sup>2</sup> )	Terminal Screw	Width (mm)	Package Quantity	Page
Standard									
Self-Lifting	1-pole	16A	BN10W	BN10WPN50	1.25	M3	7	50	G-012
			BN15MW	BN15MWPN50	1.25 (2) (Note)	M3	8	50	
		21A	BN15LW	BN15LWPN50	2	M3.5	10.5	50	
			BN15MWT	BN15MWTPN50	2	M3.5	8	50	
		30A	BN15LWT	BN15LWTPN50	3.5	M4	10.5	50	G-014
		40A	BN30W	BN30WPN50	5.5	M4	12	50	
		50A	BN40W	BN40WPN20	8	M5	14	20	
		70A	BN50W	BN50WPN20	14	M5	15.5	20	
Touch-Down	1-pole	16A	BNH10W	BNH10WPN50	1.25	M3	7	50	G-012
			BNH15MW	BNH15MWPN50	1.25 (2) (Note)	M3	8	50	
		21A	BNH15LW	BNH15LWPN50	2	M3.5	10.5	50	
			BNH15MWT	BNH15MWTPN50	2	M3.5	8	50	
		30A	BNH15LWT	BNH15LWTPN50	3.5	M4	10.5	50	G-014
		40A	BNH30W	BNH30WPN50	5.5	M4	12	50	
		50A	BNH40W	BNH40WPN20	8	M5	14	20	
		70A	BNH50W	BNH50WPN20	14	M5	15.5	20	
Large Capacity (Rail Mount)									
Screw	1-pole	94A	BN75W	BN75WPN10	22	M6	20	10	G-015
		132A	BN100W	BN100WPN05	38	M8	26	5	
		175A	BN150W	BN150WPN05	60	M8	26	5	G-016
			BN150NW	BN150NWPNO5	60	M8	26	5	
	2-pole	240A	BN200BW2	BN200BW2	100	M10	37	1	G-017
	3-pole		BN200BW3	BN200BW3					
	4-pole		BN200BW4	BN200BW4					
	2-pole	310A	BN300BW2	BN300BW2	150	M10	44	1	G-018
	3-pole		BN300BW3	BN300BW3					
	4-pole		BN300BW4	BN300BW4					
	2-pole	370A	BN400BW2	BN400BW2	200	M12	57	1	G-019
	3-pole		BN400BW3	BN400BW3					
4-pole	BN400BW4		BN400BW4						
Stud	2-pole	240A	BN200NW2	BN200NW2	100	M10	37	1	G-017
	3-pole		BN200NW3	BN200NW3					
	4-pole		BN200NW4	BN200NW4					
	2-pole	310A	BN300NW2	BN300NW2	150	M10	44	1	G-018
	3-pole		BN300NW3	BN300NW3					
	4-pole		BN300NW4	BN300NW4					
	2-pole	370A	BN400NW2	BN400NW2	200	M12	57	1	G-019
	3-pole		BN400NW3	BN400NW3					
4-pole	BN400NW4		BN400NW4						

Note The rated applicable wire size is 1.25 mm<sup>2</sup>, but 2 mm<sup>2</sup> wires can also be connected.  
The wire size in ( ) does not comply with JIS standards.

## Terminal Blocks

Terminal Style			Part No.	Ordering No.	Applicable Wire (mm²)	Terminal Screw	Width (mm)	Package Quantity	Page
Large Capacity (Surface Mount)									
Screw	2-pole	240A	BN200BW2K	BN200BW2K	100	M10	37	1	G-017
	3-pole		BN200BW3K	BN200BW3K					
	4-pole		BN200BW4K	BN200BW4K					
	2-pole	310A	BN300BW2K	BN300BW2K	150	M10	44	1	G-018
	3-pole		BN300BW3K	BN300BW3K					
	4-pole		BN300BW4K	BN300BW4K					
	2-pole	370A	BN400BW2K	BN400BW2K	200	M12	57	1	G-019
	3-pole		BN400BW3K	BN400BW3K					
	4-pole		BN400BW4K	BN400BW4K					
	2-pole	430A	BN500BW2K	BN500BW2K	250	M16	57	1	G-020
	3-pole		BN500BW3K	BN500BW3K					
	4-pole		BN500BW4K	BN500BW4K					
Stud	2-pole	240A	BN200NW2K	BN200NW2K	100	M10	37	1	G-017
	3-pole		BN200NW3K	BN200NW3K					
	4-pole		BN200NW4K	BN200NW4K					
	2-pole	310A	BN300NW2K	BN300NW2K	150	M10	44	1	G-018
	3-pole		BN300NW3K	BN300NW3K					
	4-pole		BN300NW4K	BN300NW4K					
	2-pole	370A	BN400NW2K	BN400NW2K	200	M12	57	1	G-019
	3-pole		BN400NW3K	BN400NW3K					
	4-pole		BN400NW4K	BN400NW4K					
	2-pole	430A	BN500NW2K	BN500NW2K	250	M16	57	1	G-020
	3-pole		BN500NW3K	BN500NW3K					
	4-pole		BN500NW4K	BN500NW4K					
	2-pole	520A	BN600NW2K	BN600NW2K	325	M16	57	1	
	3-pole		BN600NW3K	BN600NW3K					
	4-pole		BN600NW4K	BN600NW4K					

Terminal Style			Part No.	Ordering No.	Applicable Wire (mm²)	Terminal Screw	Width (mm)	Package Quantity	Page
With Disconnecting Switch, Fuse									
Disconnecting Switch	20A	1-pole	BNT20	BNT20PN20	5.5	M4	15	20	G-021
With Fuse	10A	1-pole	BNF10S-□	BNF10S-□APN20	5.5	M4	15	20	
			BNF10N-□	BNF10N-□APN20					
Double-Deck Terminal Block									
Self-Lifting	16A	1-pole	BND15W	BND15WPN25	1.25 (2)*	M3	8	25	G-022
Touch-Down			BNDH15W	BNDH15WPN25					
Self-Lifting	21A	1-pole	BND15LW	BND15LWPN25	2	M3.5	8	25	
Touch-Down			BNDH15LW	BNDH15LWPN25					
Self-Lifting	21A	1-pole	BND15WT	BND15WTPN25	2	M3.5	12	25	G-023
Touch-Down			BNDH15WT	BNDH15WTPN25					
Common Terminal									
Self-Lifting Type 16A (Common Current)		4-pole	BN15MC4	BN15MC4PN10	1.25 (2)*	M3	8	10	G-024
		8-pole	BN15MC8	BN15MC8PN10					
		10-pole	BN15MC10	BN15MC10PN10					

\* The wire size in ( ) does not comply with JIS standards.  
The rated applicable wire size is 1.25 mm<sup>2</sup>, but 2 mm<sup>2</sup> wires can also be connected.  
Specify the fuse rating in place of □. 1A: 1, 3A: 3, 5A: 5.

## Accessories

When ordering accessories, check if the accessories are necessary by referring to the table.

×: Necessary

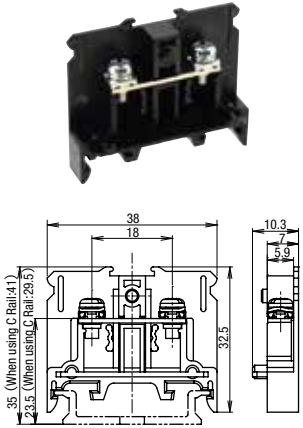
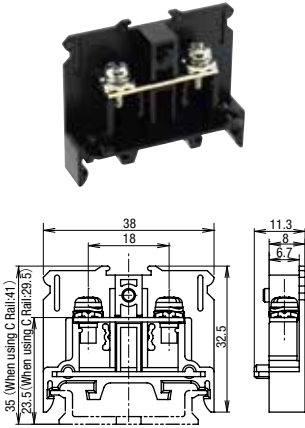
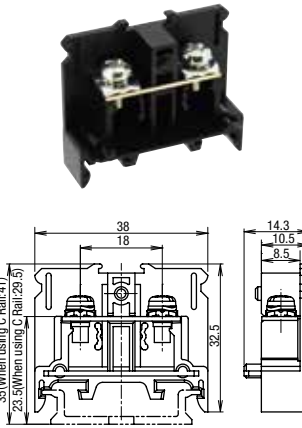
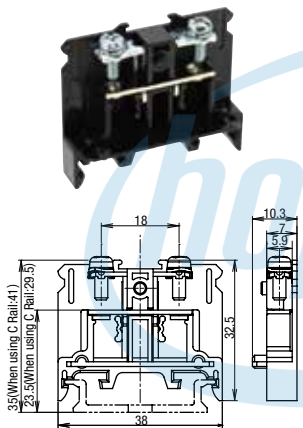
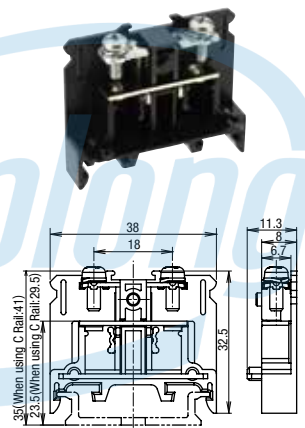
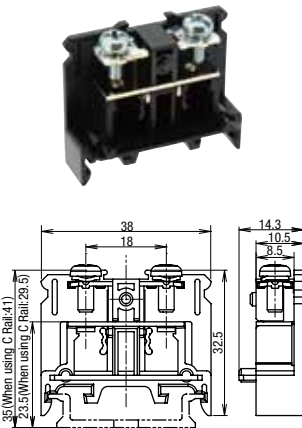
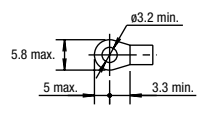
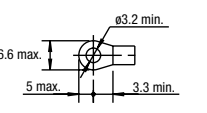
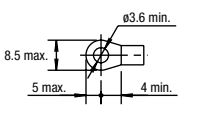
○: Optional

Terminal			Part No.			End	Rail	End	Rail	Dust	Mark	Mark	Slide	Jum	Rem	Surf	Conn	Conn
Standard	16A to 40A Self-Lifting Touch-Down	BN10W, BN15MW, BN15LW, BN15MWT, BN15LWT, BN30W	×	×	×	○	○	○	○	○	○	○	○	○	○	—	—	—
		BNH10W, BNH15MW, BNH15LW, BNH15MWT, BNH15LWT, BNH30W	×	×	×	○	○	○	○	○	○	—	○	○	—	—	—	
	50A to 70A Self-Lifting Touch-Down	BN40W, BN50W, BNH40W, BNH50W	×	×	×	○	○	○	○	○	○	—	○	—	—	—	—	
Large Capacity	Rail Mount 1-Pole 94A to 175A	BN75W, BN100W, BN150W, BN150NW	×	×	×	○	○	○	○	○	○	—	—	—	—	—	—	—
	Rail Mount 240A to 370A	BN200BW□, BN300BW□, BN400BW□ BN200NW□, BN300NW□, BN400NW□	—	×	×	—	Supplied	Supplied	—	—	—	—	—	—	—	—	—	—
	Surface Mount 240A to 520A	BN200BW□K, BN300BW□K, BN400BW□K BN200NW□K, BN300NW□K, BN400NW□K BN500BW□K, BN500NW□K, BN600NW□K	—	—	—	—			—	—	—	—	—	—	—	—	—	
	With Disconnecting Switch		BNT20	×	×	×	○	○	○	○	—	—	—	—	—	—	—	—
With Fuse		BNF10S-□A, BNF10N-□A	×	×	×	○	—	○	○	○	—	—	—	—	—	—	—	—
Double-Deck		BND15W, BND15LW, BNDH15W, BNDH15LW, BND15WT, BNDH15WT	×	×	×	○	○	○	○	○	—	○	—	×	×	×	×	
Common Terminal		BN15MC□	—	×	×	—	○	○	○	○	○	—	—	—	—	—	—	—
*1: Accessory not necessary for surface mounting.			G-025			G-026			G-027			G-028		G-029				
*2: Accessory not necessary for rail mounting.																		
Specify the number of poles in place of □																		
			Page															

\*1: Accessory not necessary for surface mounting.

\*2: Accessory not necessary for rail mounting.

Specify the number of poles in place of □.

Standard	Self-Lifting Terminal	Part No.	BN10W		16A	M3	BN15MW		16A	M3	BN15LW		21A	M3.5			
		Dimensions															
		Ordering No.	BN10WPN50					BN15MWPN50					BN15LWPN50				
		Package Quantity	50					50					50				
		Weight (Approx.)	6.5g					7.3g					10g				
	Touch-Down Terminal	Part No.	BNH10W		16A	M3	BNH15MW		16A	M3	BNH15LW		21A	M3.5			
		Dimensions															
		Ordering No.	BNH10WPN50					BNH15MWPN50					BNH15LWPN50				
		Package Quantity	50					50					50				
		Weight (Approx.)	7.5g					8.2g					11.2g				
Specification / Ratings	Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS	UL/CSA	EN	JIS	UL/CSA	EN	JIS			
	Insulation Voltage		600V	660V	800V	600V	660V	800V	600V	660V	800V	600V	660V	630V			
	Wire Size *1		22-16 AWG	1.25 mm <sup>2</sup> (22-16 AWG)	1.25 mm <sup>2</sup>	22-14 AWG	2 mm <sup>2</sup> (22-14 AWG)	1.25 mm <sup>2</sup> (2mm <sup>2</sup> max)	22-14 AWG	2 mm <sup>2</sup> (22-14 AWG)	2 mm <sup>2</sup>	22-14 AWG	2 mm <sup>2</sup> (22-14 AWG)	2 mm <sup>2</sup>			
	Rated Current *2		15A	16A	16A	15A	22A	16A	20A	22A	16A	20A	22A	21A			
	Terminal screw		M3			M3			M3.5								
	Crimping Terminal		1.25-3			1.25-3 (2-3)			2-3.5								
	Max. No. of Crimping Terminals		2			2			2								
	Tightening Torque		0.6 to 1.0 N·m			0.6 to 1.0 N·m			1.0 to 1.3 N·m								
	Crimping Terminal Dimensions (mm) *3																
	Accessories *4	End Plate		BNE15W													
Dust Cover		BNC230															
Marking Strip		PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725															
Marking Strip Fastner		BNM3															
DIN Rail/End Clip		Aluminum: BAA1000, Steel: BAP1000/BNL6															
C Rail/End Clip		Aluminum: BNCA1000/BNL7															
DIN + C Rail/End Clip		Aluminum: BNJA1000/BNL6, BNL7															

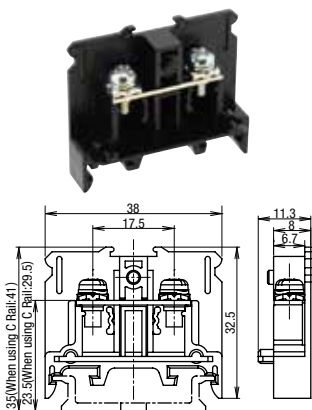
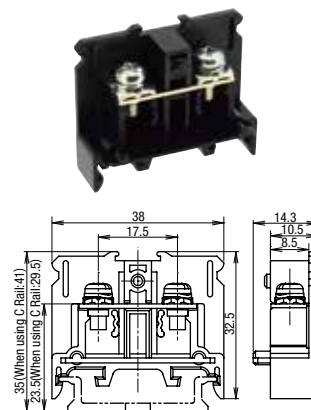
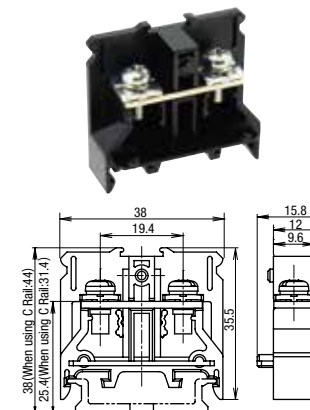
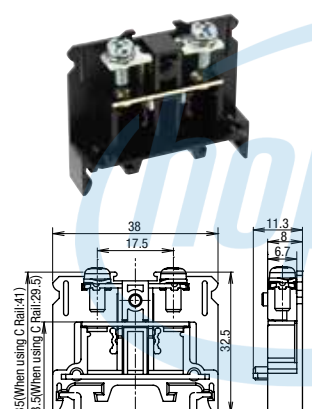
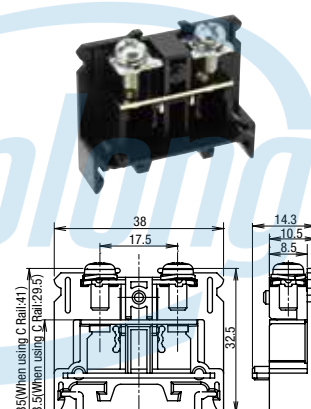
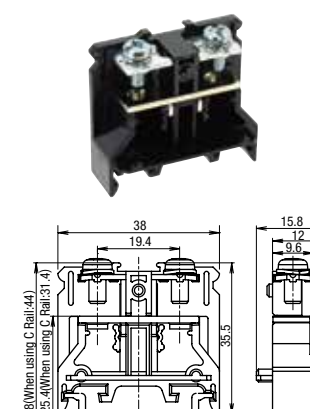
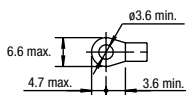
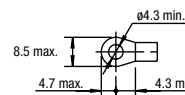
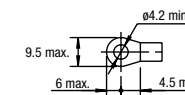
\*1: The wire size in ( ) does not comply with JIS standards.

\*2: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on G-006.

\*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

\*4: See G-025 for details on accessories.



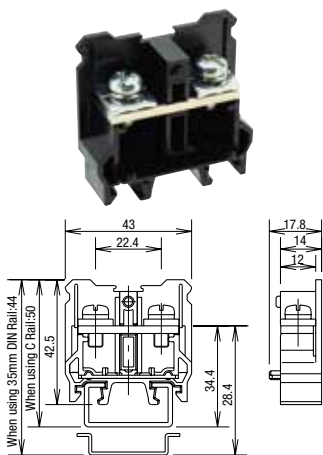
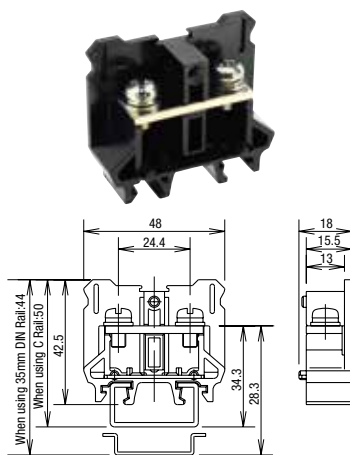
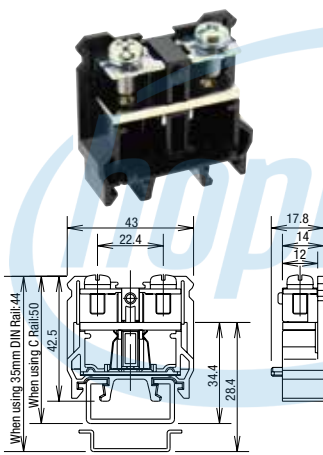
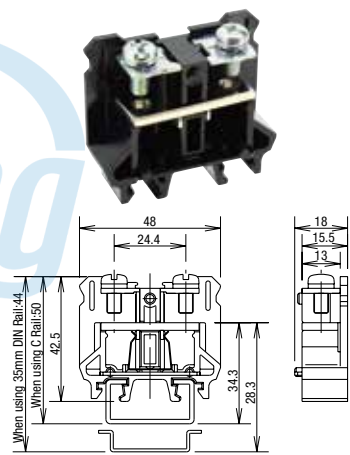
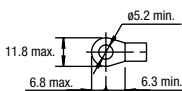
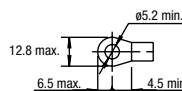
Standard	Self-Lifting Terminal	Part No.	BN15MWT	21A	M3.5	BN15LWT	30A	M4	BN30W	40A	M4
		Dimensions									
		Ordering No.	BN15MWTPN50			BN15LWTPN50			BN30WPN50		
		Package Quantity	50			50			50		
		Weight (Approx.)	7g			10g			15.6g		
	Touch-Down Terminal	Part No.	BNH15MWT	21A	M3.5	BNH15LWT	30A	M4	BNH30W	40A	M4
		Dimensions									
		Ordering No.	BNH15MWTPN50			BNH15LWTPN50			BNH30WPN50		
		Package Quantity	50			50			50		
		Weight (Approx.)	8g			11g			16.8g		
Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS	UL/CSA	EN	JIS	
Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	630V	600V	660V	630V	
	Wire Size *1	22-14 AWG	2 mm <sup>2</sup> (22-14 AWG)	2 mm <sup>2</sup>	22-14 AWG	3.5 mm <sup>2</sup> (22-14 AWG)	3.5 mm <sup>2</sup>	18-10 AWG	5.5 mm <sup>2</sup> (18-10 AWG)	5.5 mm <sup>2</sup>	
	Rated Current *2	15A	22A	21A	30A	22A	30A	35A	38A	40A	
	Terminal screw	M3.5			M4			M4			
	Crimping Terminal	1.25-3.5 to 2-3.5			1.25-4 to 3.5-4			1.25-4 to 5.5-4			
	Max. No. of Crimping Terminals	2			2			2			
Crimping Terminal Dimensions (mm) *3	Tightening Torque	1.0 to 1.3 N·m			1.4 to 2.0 N·m			1.4 to 2.0 N·m			
											
Accessories *4	End Plate	BNE15W						BNE30W			
	Dust Cover	BNC230						BNC230			
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/725									
	Marking Strip Fastner	BNM3									
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BAP1000/BNL6									
	C Rail/End Clip	Aluminum: BNCA1000/BNL7									
DIN + C Rail/End Clip	Aluminum: BNJA1000/BNL6, BNL7										

\*1: The wire size in ( ) does not comply with JIS standards.

\*2: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.

\*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

\*4: See **G-025** for details on accessories.

Standard	Self-Lifting Terminal	Part No.	BN40W 50A M5			BN50W 70A M5		
		Dimensions						
		Ordering No.	BN40WPN20			BN50WPN20		
		Package Quantity	20			20		
		Weight (Approx.)	25g			25.4g		
	Touch-Down Terminal	Part No.	BNH40W 50A M5			BNH50W 70A M5		
		Dimensions						
		Ordering No.	BNH40WPN20			BNH50WPN20		
		Package Quantity	20			20		
		Weight (Approx.)	25g			29g		
Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS	
Specification / Ratings	Insulation Voltage		600V			600V		
	Wire Size *1		16-8 AWG			16-6 AWG		
	Rated Current *2		40A			60A		
	Terminal screw		M5			M5		
	Crimping Terminal		1.25-5 to 8-5			1.25-5 to 14-5		
Max. No. of Crimping Terminals		2			2			
Tightening Torque		2.6 to 3.7 N·m			2.6 to 3.7 N·m			
Crimping Terminal Dimensions (mm) *3								
Accessories *4	End Plate		BNE40W			BNE50W		
	Dust cover		BNC330			BNC320		
	Marking Strip		PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/725					
	Marking Strip Fastner		BNM3					
	DIN Rail/End Clip		Aluminum: BAA1000, Steel: BAP1000/BNL6			Aluminum: BAA1000, Steel: BAP1000/BNL8		
	C Rail/End Clip		Aluminum: BNCA1000/BNL7			Aluminum: BNCA1000/BNL8		
DIN + C Rail/End Clip		Aluminum: BNJA1000/BNL6, BNL7			Aluminum: BNJA1000/BNL8			


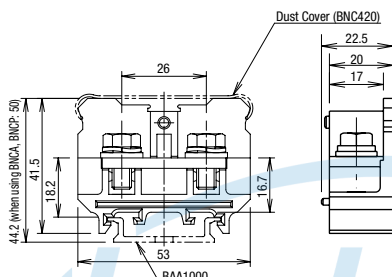

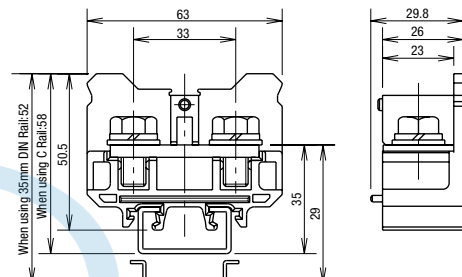
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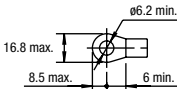
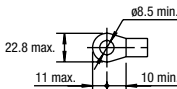
\*2: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.

\*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

\*4: See **G-025** for details on accessories.



Large Capacity Screw Terminal	Part No.	BN75W 94A M6	BN100W 132A M8
	Dimensions	 	 
	Ordering No.	BN75WPN10	BN100WPN05
	Package Quantity	10	5
	Weight (Approx.)	45g	86g

Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	1000V	600V	660V	1000V
	Wire Size	16-4 AWG	22 mm <sup>2</sup> (8-4 AWG)	22 mm <sup>2</sup>	16-2 AWG	38 mm <sup>2</sup> (2AWG)	38 mm <sup>2</sup>
	Rated Current *1	80A	94A	94A	100A	132A	132A
	Terminal screw *2	M6			M8		
	Crimping Terminal	2-6 to 22-6			2-8 to 38-8		
	Max. No. of Crimping Terminals	2			2		
	Socket Wrench	12.7 mm square drive hexagonal socket 10 (*4)			12.7 mm square drive hexagonal socket 13 (*2)		
Tightening Torque		3.9 to 5.4 N·m			10 to 13.5 N·m		
Crimping Terminal Dimensions (mm) *3							
Accessories *5	End Plate	BNE75W			BNE100W		
	Dust Cover	BNC420			BNC520		
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725					
	Marking Strip Fastner	BNM3					
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BAP1000/BNL8					
	Type C Rail/End Clip	Aluminum: BNCA1000/BNL8					
DIN+Type C Rail/End Clip		Aluminum: BNJA1000/BNL8					

\*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.

\*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

\*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

\*4: Applicable wrench or screwdriver can be used to tighten screws.

\*5: See **G-025** for details on accessories.

Large Capacity Screw Terminal	Part No.	BN150W175AM8			BN150NW175AM8		
	Dimensions						
	Ordering No.	BN150WPN05			BN150NWPNO5		
	Packaging Quantity	5			5		
	Weight (Approx.)	88g			95g		
Specification / Ratings	Standards	UL/CSA	EN	JIS	—	—	JIS
	Insulation Voltage	600V	660V	1000V	—	—	630V
	Wire Size	16-1/0 AWG	60 mm <sup>2</sup> (1/0 AWG)	60 mm <sup>2</sup>	—	—	60 mm <sup>2</sup>
	Rated Current *1	150A	175A	175A	—	—	175A
	Terminal screw *2	M8			M8		
	Crimping Terminal	2-8 to 60-8			2-8 to 60-8		
	Max. No. of Crimping Terminals	2			2		
	Socket Wrench	12.7 mm square drive hexagonal socket 13 (*4)			12.7 mm square drive hexagonal socket 13 (*2)		
Tightening Torque	10 to 13.5 N · m			10 to 13.5 N · m			
Crimping Terminal Dimensions (mm) *3							
Accessories *5	End Plate	BNE150W					
	Dust Cover	BNC520					
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725			PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725		
	Marking Strip Fastner	BNM3					
	DIN Rail/End Clip	Aluminum BAA1000, Steel: BAP1000/BNL8					
	Type C Rail/End Clip	Aluminum: BNCA1000/BNL8					
	DIN+Type C Rail/End Clip	Aluminum: BNJA1000/BNL8					


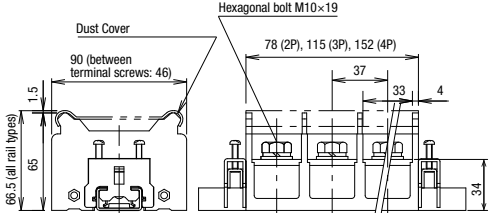

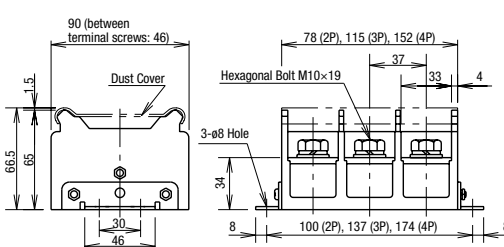

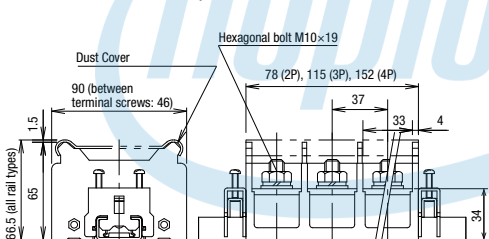

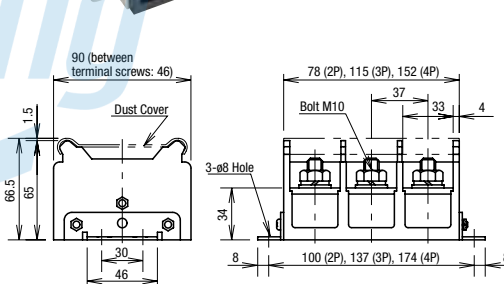
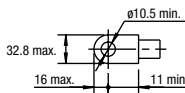
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\*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

\*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

\*4: Applicable wrench or screwdriver can be used for tightening screws.

\*5: See G-025 for details on accessories.

Large Capacity	Screw Terminal	Part No.	BN200BW□ 240A M10		BN200BW□K 240A M10 Surface Mount			
		Dimensions	 		 			
		Package Quantity	1		1			
	Weight (Approx.)	2P: 430g, 3P: 650g, 4P: 870g		2P: 490g, 3P: 710g, 4P: 930g				
	Stud Terminal	Part No.	BN200NW□ 240A M10		BN200NW□K 240A M10 Surface Mount			
		Dimensions	 		 			
		Package Quantity	1		1			
	Weight (Approx.)	2P: 500g, 3P: 720g, 4P: 940g		2P: 560g, 3P: 780g, 4P: 1000g				
	Specification / Ratings	Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS
		Insulation Voltage	600V	660V	800V	600V	660V	800V
Wire Size		4/0 AWG	100 mm <sup>2</sup> (4/0 AWG)	100 mm <sup>2</sup>	4/0 AWG	100 mm <sup>2</sup> (4/0 AWG)	100 mm <sup>2</sup>	
Rated Current *1		200A	240A	240A	200A	240A	240A	
Terminal Screw *2		M10			M10			
Crimping Terminal		5.5-10 to 100-10			5.5-10 to 100-10			
Max. No. of Crimping Terminals		2			2			
Socket Wrench		12.7 mm square drive hexagonal socket 17 (*2)			12.7 mm square drive hexagonal socket 17 (*2)			
Tightening Torque	21 to 28 N·m			21 to 28 N·m				
Crimping Terminal Dimensions (mm) *3								
Accessories (Supplied)		End Plate, Dust Cover, Marking Strip are supplied. (Note) Marking Strip Fastener (BNM3) is not necessary.						
Accessories *4	DIN Rail	Aluminum: BAA1000, Steel: BAP1000			—			
	C Rail	Aluminum: BNCA1000			—			
	DIN+C Rail	Aluminum: BNJA1000			—			
	End Clip	BNL8			—			


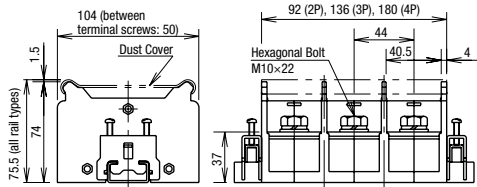

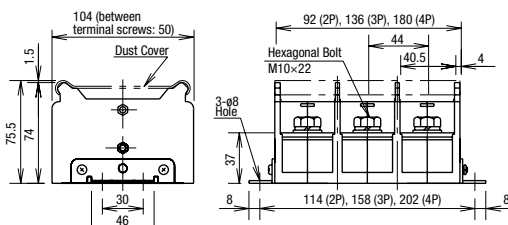
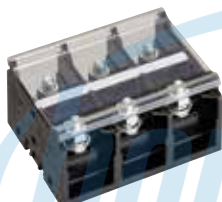
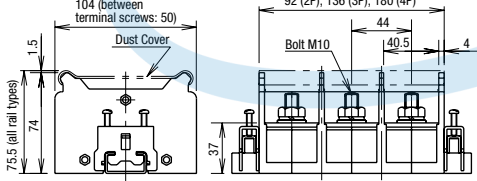

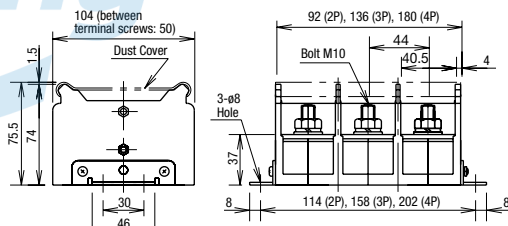
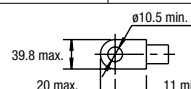
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\*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

\*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

\*4: See G-025 for details on accessories.

Specify the number of poles in place of ☐. 2-pole: 2, 3-pole: 3, 4-pole: 4.

Large Capacity	Screw Terminal	Part no.	BN300BW□ 310A M10			BN300BW□K 310A M10 Surface Mount		
		Dimensions	 			 		
		Package Quantity	1			1		
		Weight (Approx.)	2P: 480g, 3P: 750g, 4P: 1020g			2P: 540g, 3P: 810g, 4P: 1080g		
	Stud Terminal	Part no.	BN300NW□ 310A M10			BN300NW□K 310A M10 Surface Mount		
		Dimensions	 			 		
		Package Quantity	1			1		
		Weight (Approx.)	2P: 540g, 3P: 810g, 4P: 1080g			2P: 600g, 3P: 870g, 4P: 1140g		
	Specification / Ratings	Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS
		Insulation Voltage	600V	660V	800V	600V	660V	800V
Wire Size		300 MCM	150 mm <sup>2</sup> (300 MCM)	150 mm <sup>2</sup>	300 MCM	150 mm <sup>2</sup> (300 MCM)	150 mm <sup>2</sup>	
Rated Current *1		310A	310A	310A	310A	310A	310A	
Terminal Screw *2		M10			M10			
Crimping Terminal		5.5-10 to 150-10			5.5-10 to 150-10			
Max. No. of Crimping Terminals		2			2			
Socket Wrench		12.7 mm square drive hexagonal socket 17 (*2)			12.7 mm square drive hexagonal socket 17 (*2)			
Accessories *4	Tightening Torque	21 to 28 N·m			21 to 28 N·m			
	Crimping Terminal Dimensions (mm) *3							
	Accessories (Supplied)	End Plate, Dust Cover, Marking Strip are supplied. (Note) Marking Strip Fastener (BNM3) is not necessary.						
	DIN Rail	Aluminum: BAA1000, Steel: BAP1000			—			
	C Rail	Aluminum: BNCA1000			—			
DIN+C Rail	Aluminum: BNJA1000			—				
End Clip	BNL8			—				

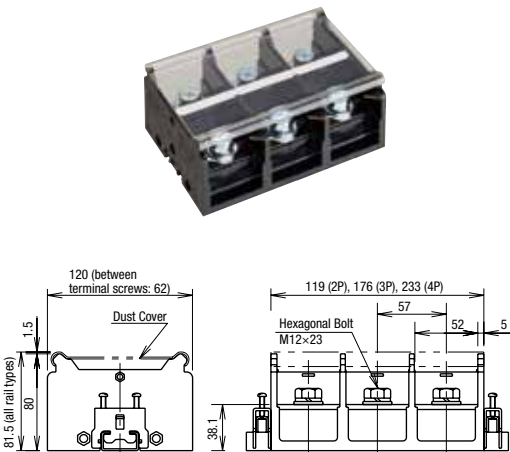
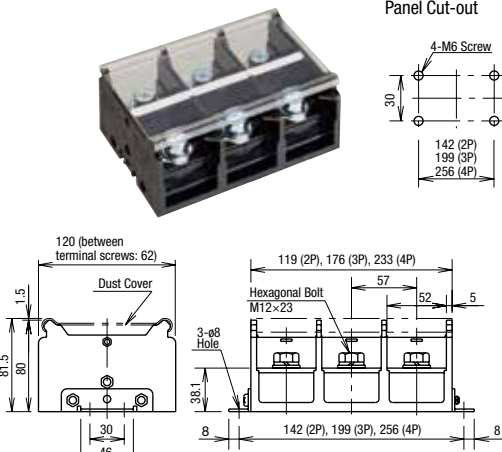
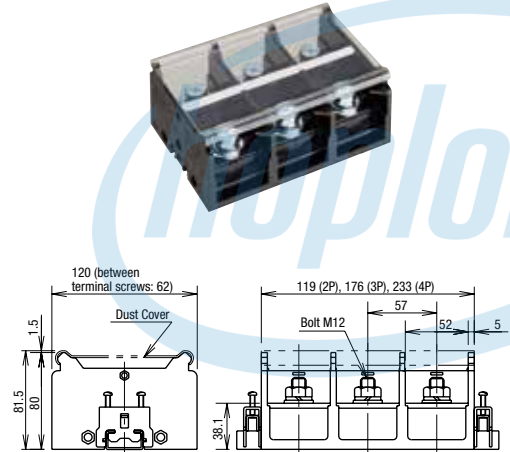
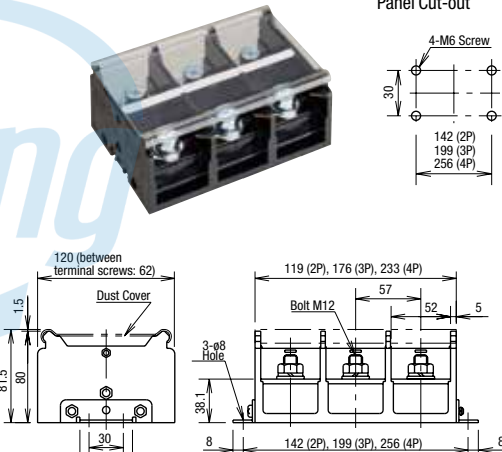
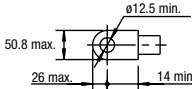
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\*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

\*4: See **G-025** for details on accessories.

Specify the number of poles in place of □. 2-pole: 2, 3-pole: 3, 4-pole: 4.

Large Capacity	Screw Terminal	Part no.	BN400BW□ 370A M12		BN400BW□K 370A M12		Surface Mount	
		Dimensions						
		Package Quantity	1		1			
	Weight (Approx.)	2P: 950g, 3P: 1400g, 4P: 1860g		2P: 1030g, 3P: 1480g, 4P: 1940g				
	Stud Terminal	Part No.	BN400NW□ 370A M12		BN400NW□K 370A M12		Surface Mount	
		Dimensions						
		Package Quantity	1		1			
	Weight (Approx.)	2P: 980g, 3P: 1460g, 4P: 1930g		2P: 1060g, 3P: 1540g, 4P: 1990g				
	Specification / Ratings	Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS
		Insulation Voltage	600V	660V	800V	600V	660V	800V
Wire Size		400 MCM	200 mm <sup>2</sup> (400 MCM)	200 mm <sup>2</sup>	400 MCM	200 mm <sup>2</sup> (400 MCM)	200 mm <sup>2</sup>	
Rated Current *1		350A	370A	370A	350A	370A	370A	
Terminal Screw *2		M12			M12			
Crimping Terminal		14-12 to 200-12			14-12 to 200-12			
Max. No. of Crimping Terminals		2			2			
Socket Wrench		12.7 mm square drive hexagonal socket 19 (*2)			12.7 mm square drive hexagonal socket 19 (*2)			
Tightening Torque		38 to 49 N·m			38 to 49 N·m			
Crimping Terminal Dimensions (mm) *3								
Accessories (Supplied)	End Plate, Dust Cover, Marking Strip are supplied. (Note) Marking Strip Fastener (BNM3) is not necessary.							
Accessories *4	DIN Rail	Aluminum: BAA1000, Steel: BAP1000			—			
	C Rail	Aluminum: BNCA1000			—			
	DIN+C Rail	Aluminum: BNJA1000			—			
	End Clip	BNL8			—			

\*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on G-006.


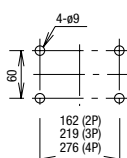
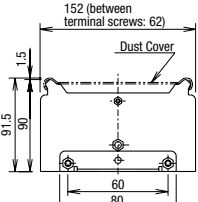
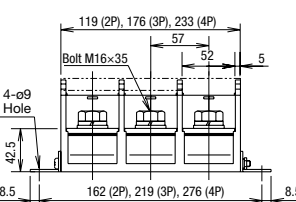
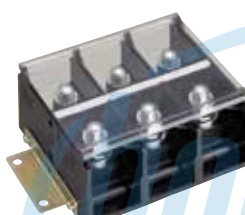
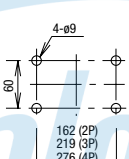
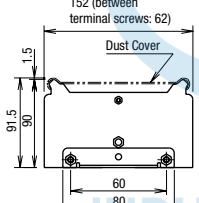
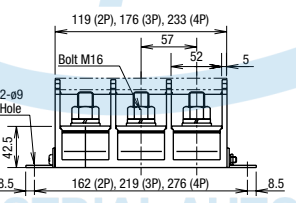
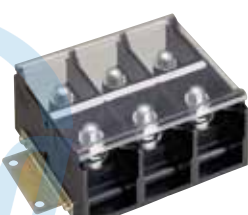
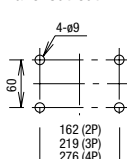
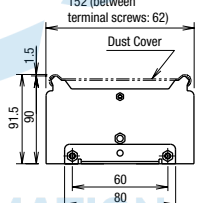
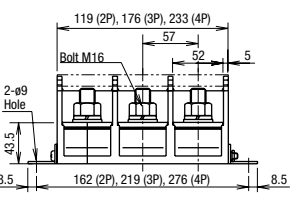
\*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

\*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

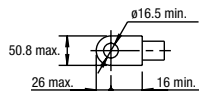
\*4: See G-025 for details on accessories.

Specify the number of poles in place of □. 2-pole: 2, 3-pole: 3, 4-pole: 4.



Large Capacity Surface Mount	Screw Terminal	Part No	BN500BW□K		430A	M16	Surface Mount	—		
		Dimensions	<div><div></div><div><div>Panel Cut-out</div></div></div> <div><div></div><div></div></div>						—	
		Package Quantity	1						—	
		Weight (Approx.)	2P: 1550g, 3P: 2250g, 4P: 2950g						—	
		Part No.	BN500NW□K		430A	M16	Surface Mount	BN600NW□K		
	Stud Terminal	Dimensions	<div><div></div><div><div>Panel Cut-out</div></div></div> <div><div></div><div></div></div>						BN600NW□K	
		Package Quantity	1						1	
		Weight (Approx.)	2P: 1600g, 3P: 2300g, 4P: 3000g						2P: 1650g, 3P: 2400g, 4P: 3150g	
		Part No.	BN500NW□K		430A	M16	Surface Mount	BN600NW□K		
		Dimensions	<div><div></div><div><div>Panel Cut-out</div></div></div> <div><div></div><div></div></div>						—	

Specification / Ratings	Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS
	Insulation Voltage	600V	660V	800V	600V	660V	800V
	Wire Size	500 MCM	240 mm <sup>2</sup> (500 MCM)	250 mm <sup>2</sup>	600 MCM	300 mm <sup>2</sup> (600 MCM)	325 mm <sup>2</sup>
	Rated Current *1	500A	430A	430A	600A	520A	520A
	Terminal Screw *2	M16			M16		
	Crimping Terminal	14-16 to 200-16		325-16	14-16 to 200-16		325-16
	Max. No. of Crimping Terminals	2		1	2		1
	Socket Wrench	12.7 mm square drive hexagonal socket 24 (*2)			12.7 mm square drive hexagonal socket 24 (*2)		
	Tightening Torque	83 to 116 N·m			83 to 116 N·m		

Crimping Terminal Dimensions (mm) *3	
Accessories (Supplied) *4	End Plate, Dust Cover, Marking Strip are supplied. (Note) Marking Strip Fastener (BNM3) is not necessary.

\*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.

\*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

\*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

\*4: See **G-025** for details on accessories.

Specify the number of poles in place of □. 2-pole: 2, 3-pole: 3, 4-pole: 4.



APEM

Switches &  
Pilot Lights

Control Boxes

Emergency  
Stop SwitchesEnabling  
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays &amp; Sockets

Circuit  
Protectors

Power Supplies

LED Illumination



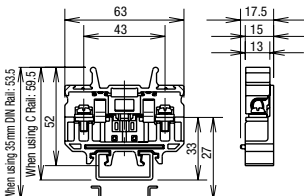



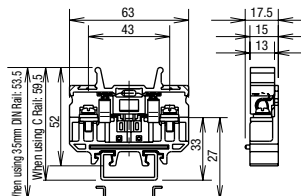



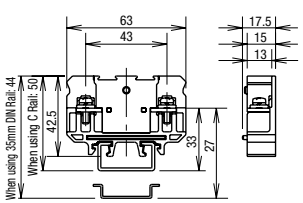

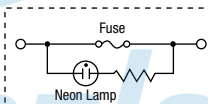
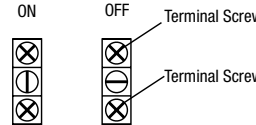
Controllers

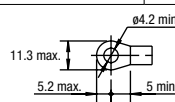
Operator  
Interfaces

Sensors

AUTO-ID

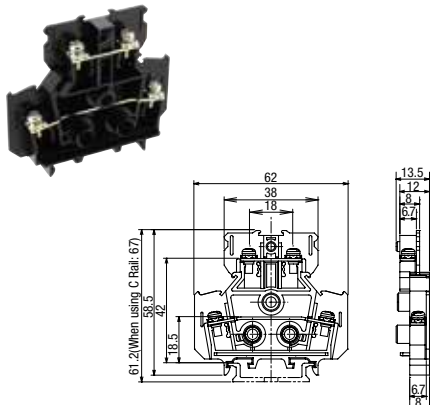
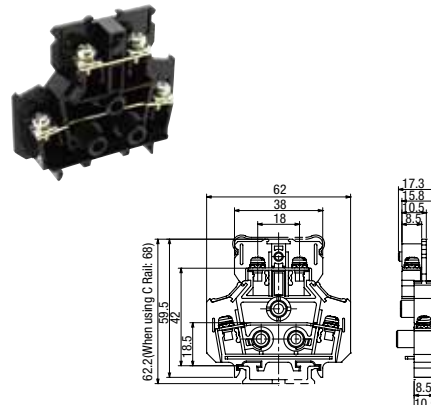
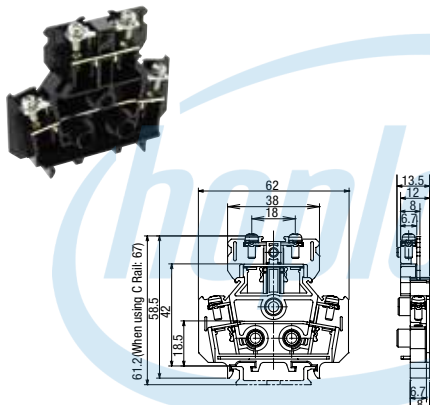
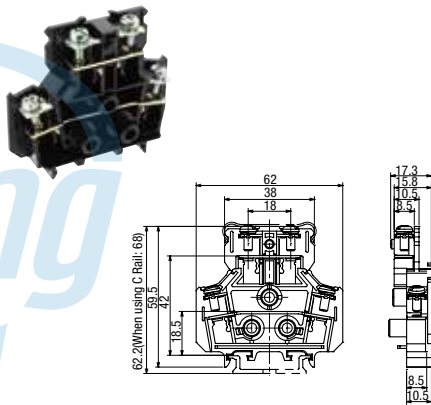
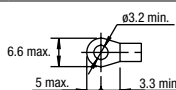
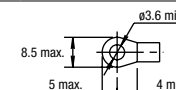
BN

Self-Lifting Terminal with Fuse	<div><div>BNF10S-□A10AM4</div><div></div></div>	<div><div>BNF10N-□A (With Lamp)10AM4</div><div></div></div>	Self-Lifting Terminal with Disconnecting Switch	<div><div>BNT2020AM4</div><div></div></div>
	<div><div>Fuse Ratings</div><div><ul style="list-style-type: none"><li>Rated Voltage: 250V</li><li>Rated Current: 1, 3, 5A</li><li>Cartridge Fuse: JIS C 6575-2 6.35×31.8 mm or 6.40×30.0 mm</li><li>Part No.: BNF10S-1A BNF10S-3A BNF10S-5A</li><li>Cartridge used: FGB1 by FUJI Terminal Industry Co., Ltd.</li></ul></div><div><div>Notes:</div><div>UL/CSA approved products shown below are not supplied with fuses. When UL/CSA approval is required for fuse terminal blocks, use UL/CSA-rated fuses.</div><div><ul style="list-style-type: none"><li>Part No.: BNF10SW</li><li>Rated Insulation Voltage: 600V</li><li>Rated Current: 10A</li><li>Applicable Wire: 18-10 AWG</li><li>UL File No.: E78117</li><li>CSA File No.: LR64803</li></ul></div></div></div>	<div><div>Internal Connection</div><div></div><div><div>Notes:</div><div>Neon lamp turns on when the fuse blows. For the neon lamp to turn on, the volt-ages must be from 100 to 250V AC.</div><div><div>Fuse Ratings</div><div><ul style="list-style-type: none"><li>Rated Voltage: 250V</li><li>Rated Current: 1, 3, 5A</li><li>Cartridge Fuse: JIS C 6575-2 6.35×31.8mm or 6.40×30.0mm</li><li>Part No.: BNF10N-1A BNF10N-3A BNF10N-5A</li></ul></div><div><div>Note:</div><div>6.4×30.0mm fuse can also be used.</div></div></div></div></div>		<div><div>Notes:</div><div><ul style="list-style-type: none"><li>Rated Current: 20A</li><li>This terminal block cannot be used as a disconnect switch.</li><li>When switching on/off, make sure that voltage is not applied.</li></ul></div><div><div>ON</div><div>OFF</div><div></div></div></div>
	<div><div>Ordering No.</div><div>BNF10S-□APN20</div></div>	<div><div>Ordering No.</div><div>BNF10N-□APN20</div></div>		<div><div>Ordering No.</div><div>BNT20PN20</div></div>
	<div><div>Package Quantity</div><div>20</div></div>	<div><div>Package Quantity</div><div>20</div></div>		<div><div>Package Quantity</div><div>20</div></div>
	<div><div>Weight (Approx.)</div><div>34g</div></div>	<div><div>Weight (Approx.)</div><div>34g</div></div>		<div><div>Weight (Approx.)</div><div>36g</div></div>

Standards		JIS	JIS
Specification / Ratings	Insulation Voltage	600V	600V
	Wire Size	5.5 mm <sup>2</sup>	5.5 mm <sup>2</sup>
	Rated Current	10A max.	20A
	Terminal Screw	M4	M4
	Crimping Terminal	1.25-4 to 5.5-4	1.25-4 to 5.5-4
	Max. No. of Crimping Terminals	2	2
Tightening Torque		1.4 to 2.0 N·m	1.4 to 2.0 N·m
Crimping Terminal Dimensions (mm)			
Accessories *1	End Plate	BNE20	
	Dust Cover	—	
	Marking Strip	—	
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BAP1000 /BNL6	
	C Rail/End Clip	Aluminum: BNCA1000/BNL7	
	DIN+C Rail/End Clip	Aluminum: BNJA1000 /BNL6, BNL7	

Accessories *1		BNC520
PVC 1m/BNM7, Fiber glass 1m/BNM9		
PVC 25m/BNM725		

\*1: See G-025 for details on accessories.

Double-Deck Terminal Block	Self-Lifting Terminal	Part No.	BND15W16AM3			BND15LW21AM3.5		
		Dimensions						
		Ordering No.	BND15WPN25			BND15LWPN25		
		Package Quantity	25			25		
		Weight (Approx.)	16g			23g		
	Touch-Down Terminal	Part No.	BNDH15W16AM3			BNDH15LW21AM3.5		
		Dimensions						
		Ordering No.	BNDH15WPN25			BNDH15LWPN25		
		Package Quantity	25			25		
		Weight (Approx.)	17g			26g		
Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS	
Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V	
	Wire Size	22-14 AWG	2 mm <sup>2</sup> (22-14 AWG)	1.25 mm <sup>2</sup> (2 mm <sup>2</sup> max)	22-14 AWG	2 mm <sup>2</sup> (22-14 AWG)	2 mm <sup>2</sup>	
	Rated Current *1	10A	22A	16A	15A	22A	21A	
	Terminal Screw *2	M3			M3.5			
	Crimping Terminal	1.25-3 (2-3)			2-3.5			
	Max. No. of Crimping Terminals	2			2			
Tightening Torque	0.6 to 1 N·m			1 to 1.3 N·m				
Crimping Terminal (mm) *3								
Accessories *4	End Plate	BNDE15W/BNDE15W2			BNDE15LW/BNDE15LW2			
	Dust Cover	Upper Deck: BNC230, Lower Deck: BNC240						
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725						
	Marking Strip Fastener	BNM3						
	Surface Mounting Clip	BNDL2						
	Connecting Rod/ Connecting Nut	Connecting Rod: BNR1, BNR2, Connecting Nut: BNN1						
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BAP1000/BNL6						
C Rail/End Clip	Aluminum: BNCA1000/BNL7							
DIN+C Rail/End Clip	Aluminum: BNJA1000/BNL6, BNL7							

\*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on **G-006**.




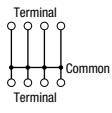
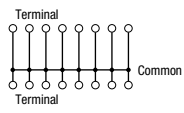
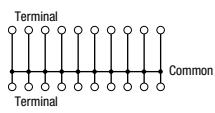
\*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

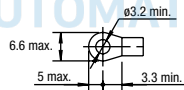
\*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

\*4: See **G-025** for details on accessories.

INDUSTRIAL AUTOMATION

\*3: See **G-025** for details on accessories.

Common Terminal Self-Lifting Terminal	Part No.	BN15MC4	16A (common current)	M3	BN15MC8	16A (common current)	M3	BN15MC10	16A (common current)	M3
	No. of Poles	4			8			10		
	Shape									
	Dimensions									
	Ordering No.	BN15MC4PN10			BN15MC8PN10			BN15MC10PN10		
	Package Quantity	10			10			10		
	Weight (Approx.)	30g			57g			70g		
	Color	Light Gray			Light Gray			Light Gray		

Standards		JIS
Specification / Ratings	Insulation Voltage	600V
	Wire Size	1.25 mm <sup>2</sup> (2 mm <sup>2</sup> max.)
	Rated Current	16A/Common Current
	Terminal Screw	M3
	Crimping Terminal	1.25-3 (2-3)
	Max. No. of Crimping Terminals	2
	Tightening Torque	0.6-1.0 N·m
	Crimping Terminal Dimensions (mm)	
Accessories *5	End Plate	Supplied
	Dust Cover	BNC230
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725
	Marking Strip Fastener	BNM3
	DIN Rail / End Clip	Aluminum: BAA1000, Steel: BAP1000/BNL6
	C Rail / End Clip	Aluminum: BNCA1000/BNL7
	DIN+C Rail / End Clip	Aluminum: BNJA1000/BNL6, BNL7

\*1: The rated applicable wire size is 1.25 mm<sup>2</sup>, but 2 mm<sup>2</sup> wires can also be connected.

The wire size in ( ) does not comply with JIS standards.

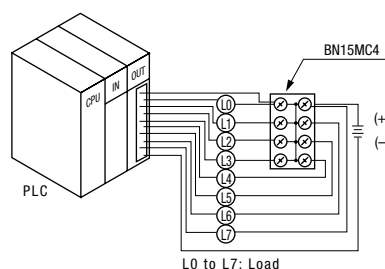
\*2: Do not remove the built-in common jumper. Common terminal type terminal blocks cannot be disassembled.

\*3: Make sure that all terminal screws are tightened to an appropriate tightening torque before power is applied.

\*4: Specifications are in compliance with JIS C 8201-7-1 except values in ( ).

\*5: See G-025 for details on accessories.

## Application Example



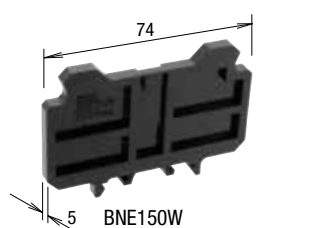
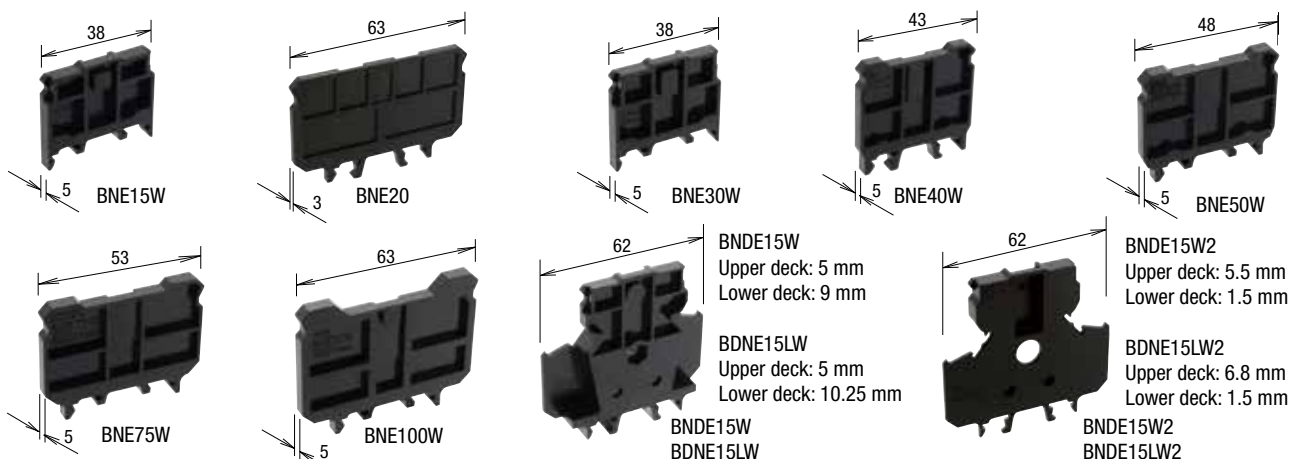
## Features

- All terminals are short-circuited by a built-in common jumper. External jumpers are not required.
- Accessories (marking strip, cover, and rails) are compatible with standard types.
- Common terminal type terminal blocks can be combined with other standard types as they are identical in shape and in size as BN15MW.
- Color: Light Gray

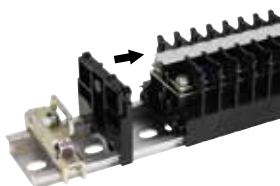
## Accessories (End Plate / Rail)

## End Plates

Used for ends of terminal blocks. Also used to hold the marking strips in place.



Securing a marking strip with the end plate

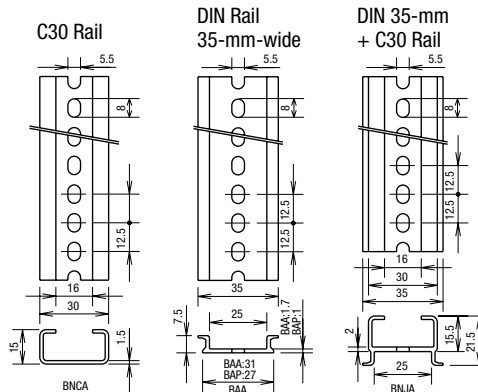
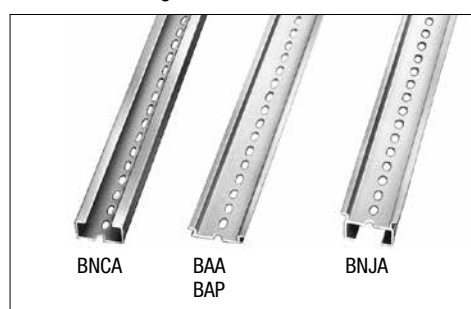


	Part No.	Ordering No.	Applicable Terminal Blocks	Thickness (mm)	Weight (Approx.)	Package Quantity
End Plate	BNE15W	BNE15WPN10	BN10W, BNH10W BN15MW, BNH15MW BN15LW, BNH15LW BN15MWT, BNH15MWT BN15LWT, BNH15LWT	5.0	4g	10
	BNE20	BNE20PN10	BNT20, BNF10S, BNF10N	3.0	8g	
	BNE30W	BNE30WPN10	BN30W, BNH30W	5.0	4g	
	BNE40W	BNE40WPN10	BN40W, BNH40W	5.0	5g	
	BNE50W	BNE50WPN10	BN50W, BNH50W	5.0	6g	
	BNE75W	BNE75WPN10	BN75W	5.0	6g	
	BNE100W	BNE100WPN10	BN100W	5.0	9g	
	BNE150W	BNE150WPN10	BN150W, BN150NW	5.0	10g	
	BNDE15W	BNDE15WPN10	BND15W, BND15WT, BNDH15W, BNDH15WT	Upper deck: 5.0 Lower deck: 9.0	5.5g	
	BNDE15LW	BNDE15LWPN10	BND15LW, BNDH15LW	Upper deck: 5.0 Lower deck: 10.25	6g	
End Plate for Securing End Plate	BNDE15W2	BNDE15W2PN10	BND15W, BND15WT, BNDH15W, BNDH15WT	Upper deck: 5.5 Lower deck: 1.5	5.5g	10
	BNDE15LW2	BNDE15LW2PN10	BND15LW, BNDH15LW	Upper deck: 6.8 Lower deck: 1.5	6g	

Note: BNDE15W2 and BNDE15LW2 are end plates used for securing marking strips at the end of double deck terminal blocks.

## Rails

Rails for mounting terminal blocks. Available in four styles.



Approvals:  
IEC60715  
JIS C 2812

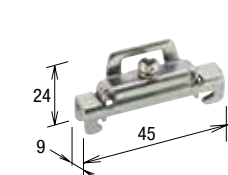
Length	Part No.	Ordering No.	Material	Weight (Approx.)	Package Quantity
1000 mm	BNCA1000	BNCA1000PN10	Aluminum	260g	10
	BAA1000	BAA1000PN10	Aluminum	200g	10
	BAP1000	BAP1000PN10	Steel	320g	10
	BNJA1000	BNJA1000PN10	Aluminum	340g	10



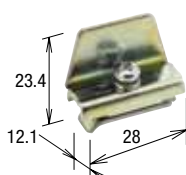
## Accessories (End Clip / Rail Mounting Clip / Dust Cover)

## End Clips

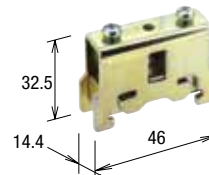
Used to secure the ends of the terminal blocks assembled on the rail.



BNL6 (M4 Screw)  
Tightening torque: 1.1 N·m



BNL7 (M4 Screw)



BNL8 (M4 Screw)

- Material: Steel
- Plating: Trivalent zinc chromate

Note: Slide the end clip onto the DIN rail.

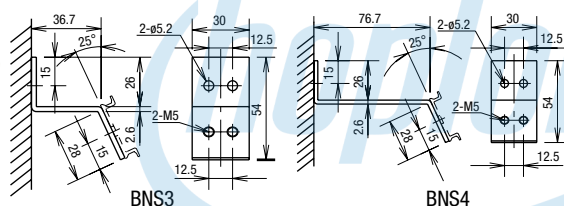
Part No.	Ordering No.	Rails	For Terminal Blocks up to BND and BN□40	For BN□50 and BN□75	For Terminal Blocks BN□100 and larger	Weight (Approx.)	Package Quantity
BNL6	BNL6PN10	BAA, BAP	×	× (*2)	—	15.2g	10
BNL7	BNL7PN10	BNCA, BNCP, BNJA	×	× (*2)	—	16g	10
BNL8	BNL8PN10	BAA, BAP, BNCA, BNCP, BNJA	— (*1)	×	×	56g	10

\*1: Do not use BNL8 because the insulation distance will be insufficient if used.

\*2: We recommend you to use BNL8 for secure hold.

## Rail Mounting Clips

Used to raise the DIN rail from the panel surface.

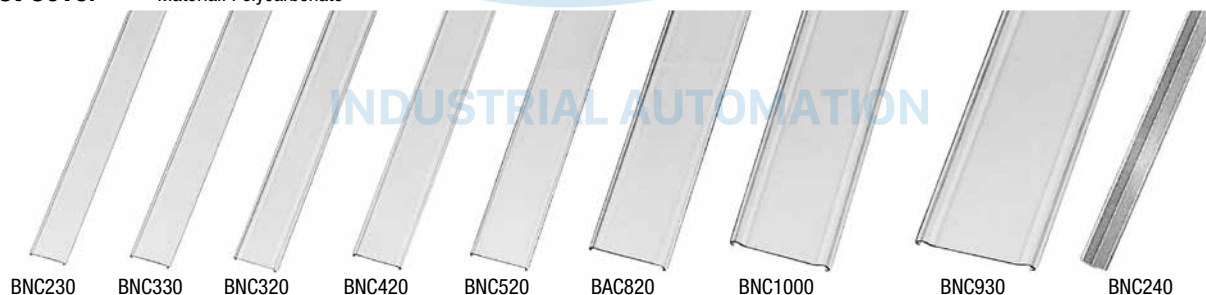


Part No.	Ordering No.	Weight (Approx.)	Package Quantity
BNS3	BNS3PN10	51.3g	10
BNS4	BNS4PN10	76.2g	10

- Material: Steel
- Plating: Trivalent zinc chromate

## Dust Cover

Material: Polycarbonate



Length	Width (mm)	Part No.	Ordering No.	Terminal Blocks (□: No. of Poles)	Weight (Approx.)	Package Quantity
1m	39.6	BNC230	BNC230PN10	BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W, BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT	56g	10
	43	BNC330	BNC330PN10	BN40W, BNH40W	57g	10
	49.6	BNC320	BNC320PN10	BN50W, BNH50W	64g	10
	54.6	BNC420	BNC420PN10	BN75W	72g	10
	65	BNC520	BNC520PN10	BN150W, BN150NW, BNT20, BN100W	96g	10
	82	BAC820	BAC820PN10	BN200BW□(K), BN200NW□(K)	204g	10
	96	BNC910	BNC910PN10	BN300BW□(K), BN300NW□(K)	222g	10
	110	BNC1000	BNC1000PN10	BN400BW□(K), BN400NW□(K)	256g	10
	145	BNC930	BNC930PN10	BN500BW□(K), BN500NW□(K), BN600NW□(K)	310g	10

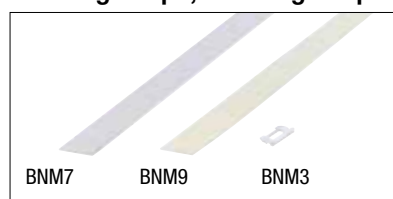
## Dust Covers for Double Deck Terminal Blocks

Length	Part No.	Ordering No.	Terminal Block	Weight (Approx.)	Package Quantity
1m	Upper Deck BNC230	BNC230PN10	BND15W, BNDH15W, BND15LW, BNDH15LW, BND15WT, BNDH15WT	56g	10
	Lower Deck BNC240	BNC240PN10		15g	10



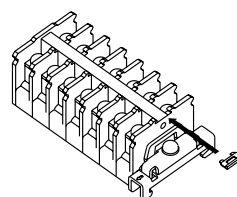
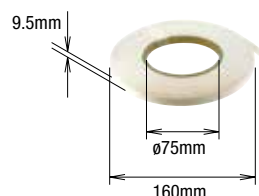
## Accessories (Marking Strips / Marking Strip Fastener / Slide Marking Strip)

## Marking Strips, Marking Strip Fastener

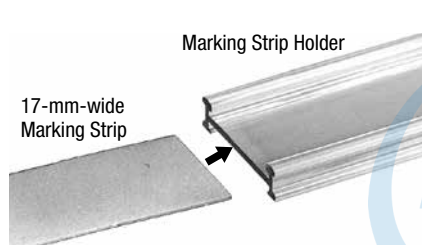


Item	Part No.	Ordering No.	Weight (approx.)	Package Quantity	Specification
Marking Strip	BNM7	BNM7PN10	7.2g	10	PVC (glossy surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM9	BNM9PN10	6.4g	10	Fiber glass (matte surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM725	BNM725	—	1	PVC (matte surface) 25 m × 9.5 mm × 0.5 mm
Marking Strip Fastener	BNM3	BNM3PN50	0.1g	50	

- To install the marking strip fastener



## Sliding Marking Strip (BN10W to BN30W)



17-mm-wide marking strip

- Both top and bottom sides of the marking strip holder can be used.

End plate (Thickness 5 mm)  
BNES15W  
BNES30W

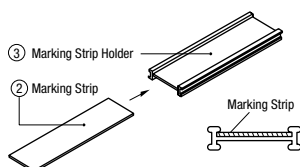


Item	Part No.	Ordering No.	Terminal Blocks	Specification	Package Quantity
① End Plate	BNES15W	BNES15WPN10	BN10W to BN15LWT	For sliding marking strip	10
	BNES30W	BNES30WPN10	BN30W	For sliding marking strip	10
② Marking Strip	BNM5	BNM5PN10	BN10W to BN15LWT BN30W	PVC (Note)	10
③ Marking Strip Holder	BNMH1	BNMH1PN10		1m	10
④ Dust Cover	BNCS230	BNCS230PN10		1m	10

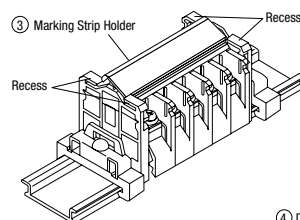
Note: Length 1000 mm × Width 9.5 mm × Thickness 0.5 mm

## Installing the Sliding Marking Strip

1. Insert the marking strip into the groove of the top of the marking strip holder.

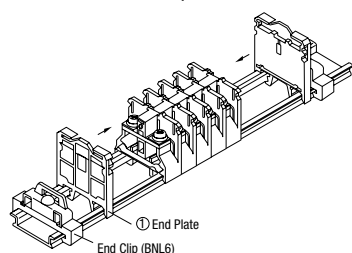


3. Insert the marking strip holder into the recess of the end plate.

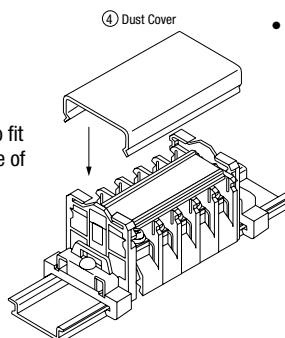


2. Installing the end plate

Attach the end plates to the terminal blocks and secure with end clips.

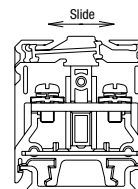


4. Press the dust cover to fit onto the bottom groove of the end plate.



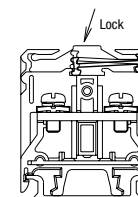
## Movement

- Sliding movement of the marking strip holder



When sliding the marking strip holder, slide by holding both edges of the holder.

- To lock the marking strip holder



To lock the marking strip holder, lock by holding both edges of the holder.

### Jumpers for 6 Poles (Material: Brass, Plating: Nickel-plated, Insulation: PVC)

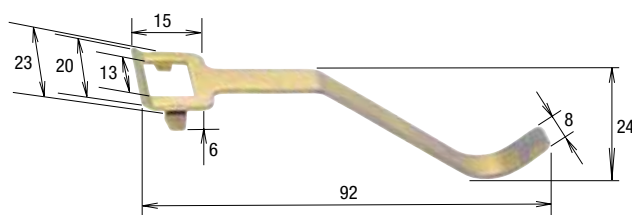
Without

- Note 2: Ensure that the current does not exceed the rated current of the terminal block to be used.

Part No.	Ordering No.	Terminal Centers	Insulation	Dimensions	Current (Note 1, 2)	Applicable Terminal Block	Package Quantity
BNJ62	BNJ62PN10	14.5 mm	Without		80A	BN40W (Note 3) BNH40W (Note 3) BN50W BNH50W	10
BNJ62B	BNJ62BPN10		With				

- Note 3: BN40W and BNH40: Do not install adjacently.

## Accessories (Removal Tool)



A tool for removing terminal blocks from the DIN rail.

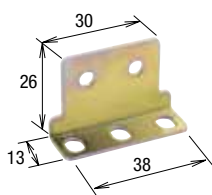
Part No.	Weight (Approx.)	Package Quantity
<b>BND2</b>	8.6g	1

- Material: Steel
- Plating: Zinc

Note: Cannot be used for terminal blocks other than BN10W, BNH10W, BN15MW, BNH15MWT, BN15LW, BNH15LW, BN15LWT, BNH15LWT, BN30W, and BNH30W.

## Accessories for BND Double-Deck Terminal Blocks

## Surface Mounting Clip



Part No.	Ordering No.	Applicable Terminal Block	Weight (Approx.)	Package Quantity
<b>BNDL2</b>	<b>BNDL2PN10</b>	BND15W, BNDH15W BND15WT, BNDH15WT BND15LW, BNDH15LW	14.3g	10

- Material: Steel
- Plating: Zinc

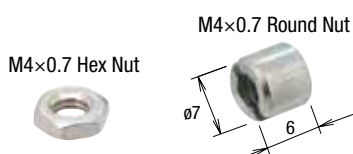
## Connecting Rods



Part No.	Ordering No.	Applicable Terminal Block	Weight (Approx.)	Dimensions (mm)	Package Quantity
<b>BNR1</b>	<b>BNR1PN10</b>	BND15W, BNDH15W BND15WT, BNDH15WT BND15LW, BNDH15LW	21g	265 mm (M4×0.7)	10
<b>BNR2</b>	<b>BNR2PN10</b>	BND15W, BNDH15W BND15WT, BNDH15WT BND15LW, BNDH15LW	43g	500 mm (M4×0.7)	10

- Material: Steel
- Plating: Zinc

## Connecting Nuts



Part No.	Ordering No.	Applicable Terminal Block	Weight (Approx.)	Package Quantity
<b>BNN1</b>	<b>BNN1PN1H</b>	BND15W, BNDH15W BND15WT, BNDH15WT BND15LW, BNDH15LW	14g	100 (pairs of both nuts)

- Material: Steel
- Plating: Zinc

APEM

Switches &  
Pilot Lights

Control Boxes

Emergency  
Stop SwitchesEnabling  
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays &amp; Sockets

Circuit  
Protectors

Power Supplies

LED Illumination

Controllers

Operator  
Interfaces

Sensors

AUTO-ID

BN

G-030

## Calculating Rail Lengths and Mounting Centers

## • BNCA, BAA, BAP, and BNJA Rails

$$L_1 = 12.5 \times N$$

$$L_2 = L_1 - 25$$

Note: This formula is for calculating the maximum rail length including tolerance. Depending on the combination of terminal blocks, the required rail length may be shorter than the calculated value, particularly when many terminal blocks are combined.

N: Rounded up numerical number from the calculated value of M. (Example: N for 19.1 is 20)

$$M = \frac{(A + 0.1)n + B + C}{12.5}$$

A: Thickness of each terminal block

B: Thickness of end plate

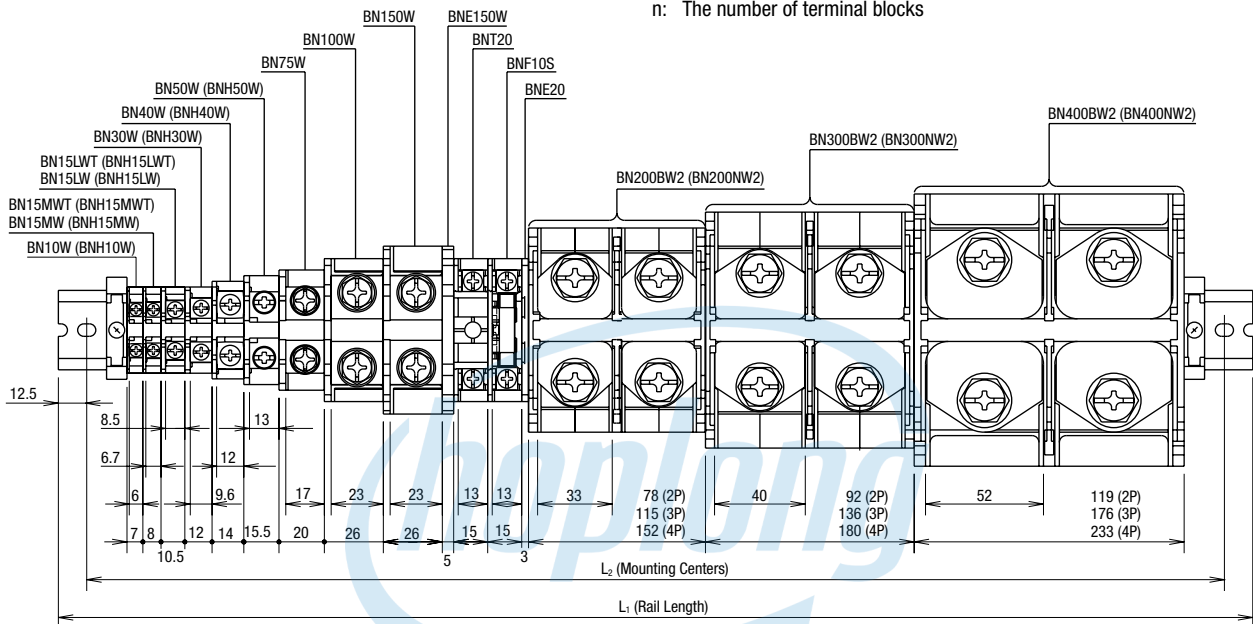
C: Thickness of end clip when using 2 pieces of:

BNL6 = 56.0 mm

BNL7 = 62.5 mm

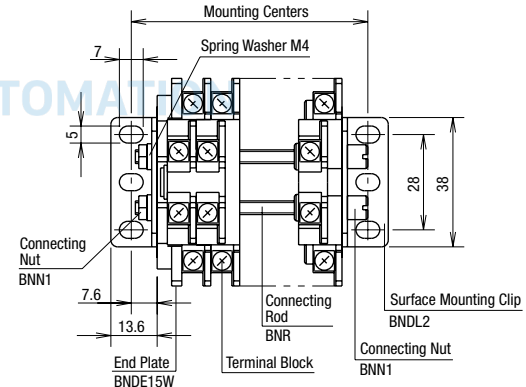
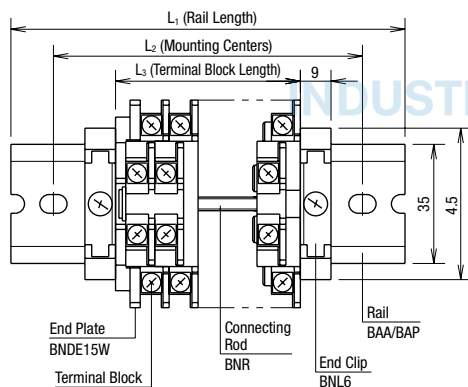
BNL8 = 67.0 mm

n: The number of terminal blocks



## Rail Length (Double-Deck)

## Mounting Centers (Double-Deck)



## Calculating the length (mm)

Part No.	BND15W BNDH15W BND15WT	BND15LW BNDH15LW
L1 (*1)	12.5 × N	
L2 (*1)	L <sub>1</sub> - 25	
L3 (*1, *2)	8 × n + 9	10.5 × n + 10.3
Connecting Rod Length (*1, *2)	8 × n + 8.7	10.5 × n + 10

N: Rounded up numerical number from the calculated value of M.  
(Example: N for 19.1 is 20)

For BND15W, BNDH15W, BND15WT

For BND15LW, BNDH15LW

$$M = \frac{(8 \times n + 9 + 62.5)}{12.5}$$

$$M = \frac{10.5 \times n + 10.3 + 62.5}{12.5}$$

## Calculating the length (mm)

Part No.	BND15W BNDH15W BND15WT	BND15LW BNDH15LW
Mounting Centers (*1, *2)	8 × n + 24.2	10.5 × n + 25.5
Connecting Rod Length (*1, *2)	8 × n + 20.2	10.5 × n + 21.5

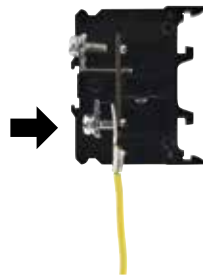
n: The number of terminal blocks

\*1: This formula is for calculating the maximum rail length including tolerance. Depending on the combination of terminal blocks, the required rail length may be shorter than the calculated value, particularly when many terminal blocks are combined.

\*2: The length will be 1.5 mm longer when end plates BNDE15W2 and BNDE15LW2 are used.

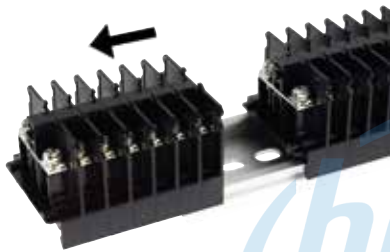
## Instructions

### How to Use Touch-Down Terminals

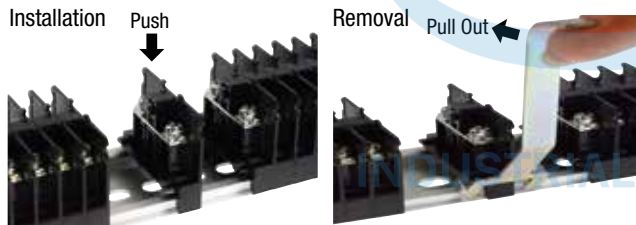


1. With the terminal screws in the up position, insert a ring crimping terminal.
2. Push down the head of the screw lightly to hold the crimping terminal.
3. When the wiring is in position, tighten all the screws simultaneously.
4. To remove the wiring, loosen the screw and lightly push up.

### Installation and Removal on Rails



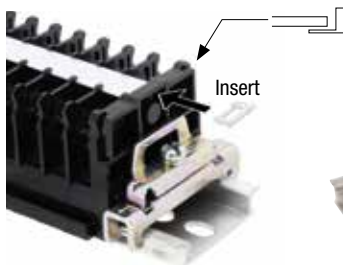
### Additional Installation and Removal (on DIN Rail)



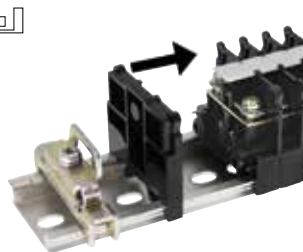
Notes: The following terminal blocks can be added or removed:  
BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W,  
BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT

### Securing the Ends of the Marking Strip

The ends of the marking strip can be secured with a marking strip fastener (or end plate).



To Secure the Marking Strip

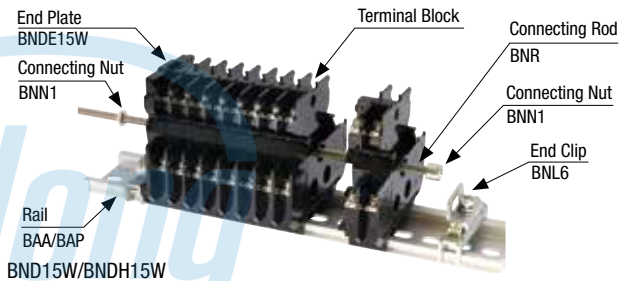


Installing End Plate

For double-deck, use an end plate to secure marking strips (BNDE15W2, BNDE15LW2).

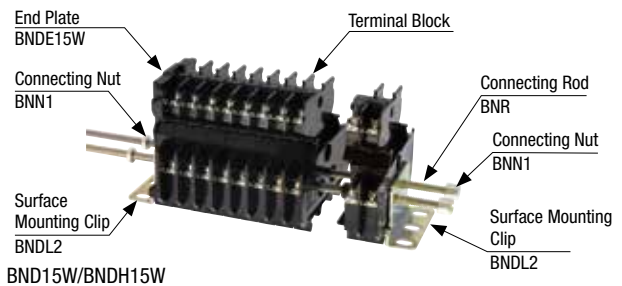
### Installation of Double-Deck Terminal Blocks (BND)

Rail Mount (photo: when using BND15W, BNDH15W, BNDE15W2)



1. Install end plate. Then mount the terminal blocks onto the DIN rail.
2. Insert connecting rod (BNR) through each hole of the terminal blocks.
3. Secure the ends of the connecting rods with connecting nuts (BNN1).
4. To prevent side-to-side movement on the DIN rail, use the BNL6 end clips at both ends of the rail.

### Surface Mount



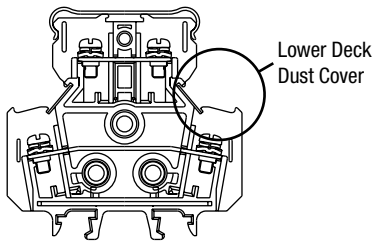
1. Assemble a row of terminal blocks with end plates on exposed ends.
2. Use BNDL2 mounting clips at both ends of a row.
3. With the two holes of the mounting clip (BNDL2) aligned with the terminal block holes, insert a connecting rod (BNR) through each hole.
4. Secure the ends of the connecting rods with the connecting nuts (BNN1).



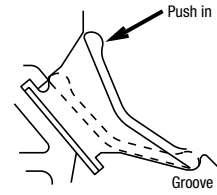
## Instructions

### Dust Covers on the Lower Deck Terminal of Double-Deck Terminal Blocks

#### Installing Dust Covers on Lower Deck Terminals



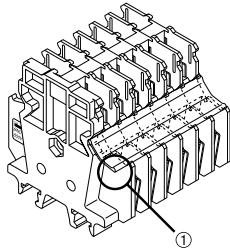
1. Press the lower end of the dust cover into the groove.
2. With the lower end of the dust cover pressed into the groove, push in the top end in the direction of the arrow.



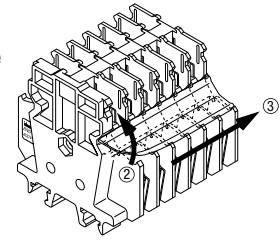
#### Removing Dust Covers from Lower Deck Terminals

Turn the power off before removing the dust cover.

1. Hold the end of the dust cover which is extruding from the end plate.

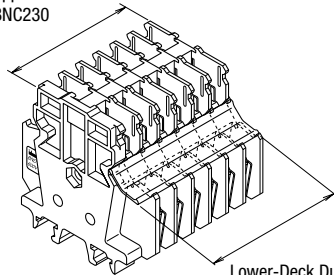


2. Lift up in the direction of the arrow.
3. If the dust cover cannot be removed all at once, place fingers between the terminal block and dust cover, and slowly remove the dust cover.



#### Length of Double-Deck Dust Covers

Upper-Deck Dust Cover  
BNC230



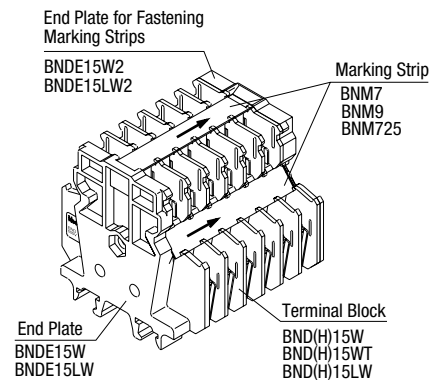
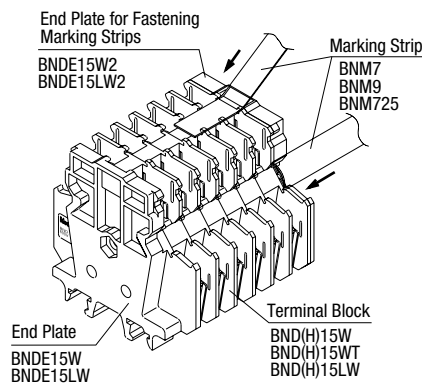
Lower-Deck Dust Cover  
BNC240

Cut required length depending on the number of terminal blocks used. (Length in mm)

Terminal Block	Dust Cover	1-pole	2-pole	3-pole	4-pole	5-pole	6-pole	7-pole	8-pole	n-pole
BND(H)15W BND(H)15WT	Upper Deck	12	20	28	36	44	52	60	68	8 (n+1) - 4
	Lower Deck	16	24	32	32	48	56	64	72	8 (n+1)
BND(H)15LW	Upper Deck	16	26.5	37	47.5	58	68.5	79	89.5	10.5 (n+1) - 5
	Lower Deck	21	31.5	42	52.5	63	73.5	84	94.5	10.5 (n+1)

### Securing Marking Strip with Marking Strip Fasteners for Double-Deck Terminal Blocks

Because marking strips can be secured without using marking strip fasteners, installation time can be shortened. Also, marking strips can be inserted and removed after installation.



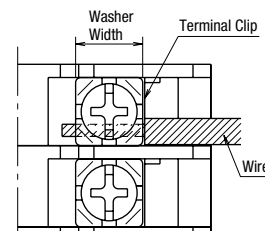
### Notes on Wiring

#### Crimping Terminals

- When using crimping terminals, be sure to use insulated terminals to prevent electric shocks.

#### Without Crimping Terminals

- Insert the wire until the insulation comes into contact with the terminal metal part.
- Strip the insulation so that the wire is longer than the width of the wire clamp.
- When connecting two wires, use wires of the same size.





Thank you for using IDEC Products.

By purchasing products listed in our catalogs, datasheets, and the like (hereinafter referred to as "Catalogs") you agree to be bound by these terms and conditions. Please read and agree to the terms and conditions before placing your order.

### 1. Notes on contents of Catalogs

- (1) Rated values, performance values, and specification values of IDEC products listed in this Catalog are values acquired under respective conditions in independent testing, and do not guarantee values gained in combined conditions.  
Also, durability varies depending on the usage environment and usage conditions.
- (2) Reference data and reference values listed in Catalogs are for reference purposes only, and do not guarantee that the product will always operate appropriately in that range.
- (3) The specifications / appearance and accessories of IDEC products listed in Catalogs are subject to change or termination of sales without notice, for improvement or other reasons.
- (4) The content of Catalogs is subject to change without notice.

### 2. Note on applications

- (1) If using IDEC products in combination with other products, confirm the applicable laws / regulations and standards.  
Also, confirm that IDEC products are compatible with your systems, machines, devices, and the like by using under the actual conditions. IDEC shall bear no liability whatsoever regarding the compatibility with IDEC products.
- (2) The usage examples and application examples listed in Catalogs are for reference purposes only. Therefore, when introducing a product, confirm the performance and safety of the instruments, devices, and the like before use. Furthermore, regarding these examples, IDEC does not grant license to use IDEC products to you, and IDEC offers no warranties regarding the ownership of intellectual property rights or non-infringement upon the intellectual property rights of third parties.
- (3) When using IDEC products, be cautious when implementing the following.
  - i. Use of IDEC products with sufficient allowance for rating and performance
  - ii. Safety design, including redundant design and malfunction prevention design that prevents other danger and damage even in the event that an IDEC product fails
  - iii. Wiring and installation that ensures the IDEC product used in your system, machine, device, or the like can perform and function according to its specifications
- (4) Continuing to use an IDEC product even after the performance has deteriorated can result in abnormal heat, smoke, fires, and the like due to insulation deterioration or the like. Perform periodic maintenance for IDEC products and the systems, machines, devices, and the like in which they are used.
- (5) IDEC products are developed and manufactured as general-purpose products for general industrial products. They are not intended for use in the following applications, and in the event that you use an IDEC product for these applications, unless otherwise agreed upon between you and IDEC, IDEC shall provide no guarantees whatsoever regarding IDEC products.
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  - ii. Use in applications that require a high degree of reliability, such as provision systems for gas / waterworks / electricity, etc., systems that operate continuously for 24 hours, and settlement systems
  - iii. Use in applications where the product may be handled or used deviating from the specifications or conditions / environment listed in the Catalogs, such as equipment used outdoors or applications in environments subject to chemical pollution or electromagnetic interference  
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### 3. Inspections

We ask that you implement inspections for IDEC products you purchase without delay, as well as thoroughly keep in mind management/maintenance regarding handling of the product before and during the inspection.

### 4. Warranty

#### (1) Warranty period

The warranty period for IDEC products shall be one (1) year after purchase or delivery to the specified location. However, this shall not apply in cases where there is a different specification in the Catalogs or there is another agreement in place between you and IDEC.

#### (2) Warranty scope

Should a failure occur in an IDEC product during the above warranty period for reasons attributable to IDEC, then IDEC shall replace or repair that product, free of charge, at the purchase location / delivery location of the product, or an IDEC service base. However, failures caused by the following reasons shall be deemed outside the scope of this warranty.

- i. The product was handled or used deviating from the conditions / environment listed in the Catalogs
  - ii. The failure was caused by reasons other than an IDEC product
  - iii. Modification or repair was performed by a party other than IDEC
  - iv. The failure was caused by a software program of a party other than IDEC
  - v. The product was used outside of its original purpose
  - vi. Replacement of maintenance parts, installation of accessories, or the like was not performed properly in accordance with the user's manual and Catalogs
  - vii. The failure could not have been predicted with the scientific and technical standards at the time when the product was shipped from IDEC
  - viii. The failure was due to other causes not attributable to IDEC (including cases of force majeure such as natural disasters and other disasters)
- Furthermore, the warranty described here refers to a warranty on the IDEC product as a unit, and damages induced by the failure of an IDEC product are excluded from this warranty.

### 5. Limitation of liability

The warranty listed in this Agreement is the full and complete warranty for IDEC products, and IDEC shall bear no liability whatsoever regarding special damages, indirect damages, incidental damages, or passive damages that occurred due to an IDEC product.

### 6. Service scope

The prices of IDEC products do not include the cost of services, such as dispatching technicians. Therefore, separate fees are required in the following cases.

- (1) Instructions for installation / adjustment and accompaniment at test operation (including creating application software and testing operation, etc.)
- (2) Maintenance inspections, adjustments, and repairs
- (3) Technical instructions and technical training
- (4) Product tests or inspections specified by you

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