

Terminal Blocks

BN-W BNH-W Series



UL recognized, CSA certified, and TÜV compliant.
Screw-in and touch-down terminals available.



• See website for details on approvals and standards.

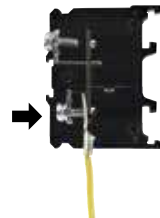
Touch-down terminal blocks reduce wiring time. (BNH-W/BNDH-W Series)

1. Insert the Crimping Terminal



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

2. Push the Screw Down



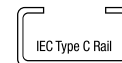
Push the screw down to temporarily hold the wire in place.

3. Tighten the Screw



The screws can be tightened easily with a pneumatic screwdriver.

- 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 and NECA C 2811.
- UL recognized, CSA certified, and EN compliant (TÜV approved). (Except common terminal)
- UL recognized for field wiring (FW2).

BN-W / BNH-W Series Terminal Blocks

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



- Complies with JIS C 8201-7-1 and NECA C 2811.

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)
	Screw-in	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
	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	38 to 49
	BN400BW□, BN400NW□		600V/350A	400MCM	660V/370A	200/(400MCM)	800V/370A	200	M12	83 to 116
	BN500BW□, BN500NW□		600V/500A	500MCM	660V/430A	240/(500MCM)	800V/430A	250	M16	
	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	1.4 to 2.0
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.

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

Specify the number of poles in place of □.

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Terminal Blocks

Terminal Style			Part No.		Ordering No.		Applicable Wire (mm ²)	Terminal Screw	Width (mm)	Package Quantity	Page
Standard											
Screw-in	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-013		
		40A	BN30W	BN30WPN50	5.5	M4	12	50			
		70A	BN50W	BN50WPN20	14	M5	15.5	20	G-014		
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-013		
		40A	BNH30W	BNH30WPN50	5.5	M4	12	50			
		70A	BNH50W	BNH50WPN20	14	M5	15.5	20	G-014		
		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	BN150NWPN05	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 mm², but 2 mm² wires can also be connected.

Terminal Blocks

Terminal Style			Part No.	Ordering No.	Applicable Wire (mm ²)	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	G-020
	3-pole		BN600NW3K	BN600NW3K					
	4-pole		BN600NW4K	BN600NW4K					

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Terminal Style			Part No.	Ordering No.	Applicable Wire (mm ²)	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									
Screw-in	16A	1-pole	BND15W	BND15WPN25	1.25 (2)*	M3	8	25	G-022
Touch-Down			BNDH15W	BNDH15WPN25					
Screw-in	21A	1-pole	BND15LW	BND15LWPN25	2	M3.5	8	25	
Touch-Down			BNDH15LW	BNDH15LWPN25					
Screw-in	21A	1-pole	BND15WT	BND15WTPN25	2	M3.5	12	25	G-023
Touch-Down			BNDH15WT	BNDH15WTPN25					
Common Terminal									
Screw-in 16A (Common Current)		4-pole	BN15MC4	BN15MC4PN10	1.25 (2)*	M3	8	10	G-024
		8-pole	BN15MC8	BN15MC8PN10					
		10-pole	BN15MC10	BN15MC10PN10					

* The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.

Specify the fuse rating in place of □. 1A: 1, 3A: 3, 5A: 5.

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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	Mar	Mar	Slide	Jump	Rem	Surf	Conn	Conn	
Standard	16A to 40A Screw-in Touch-Down	BN10W, BN15MW, BN15LW, BN15MWT, BN15LWT, BN30W	×	×	×	○	○	○	○	○	○	○	○	○	—	—	—	
		BNH10W, BNH15MW, BNH15LW, BNH15MWT, BNH15LWT, BNH30W	×	×	×	○	○	○	○	—	○	○	—	—	—	—	—	
	70A Screw-in Touch-Down	BN50W, 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.						Page												
Specify the number of poles in place of □.																		

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Standard		Screw-in Terminal			Touch-Down Terminal						
		Part No.			Part No.						
		☆ BN10W 16A M3			☆ BN15MW 16A M3						
		☆ BN15LW 21A M3.5									
		Dimensions			Dimensions						
		Ordering No.			Ordering No.						
		Package Quantity			Package Quantity						
		Weight (Approx.)			Weight (Approx.)						
		Part No.			Part No.						
		☆ BNH10W 16A M3			☆ BNH15MW 16A M3						
☆ BNH15LW 21A M3.5											
Dimensions			Dimensions								
Ordering No.			Ordering No.								
Package Quantity			Package Quantity								
Weight (Approx.)			Weight (Approx.)								
Standards				Standards				Standards			
Insulation Voltage				Insulation Voltage				Insulation Voltage			
Wire Size				Wire Size				Wire Size			
Rated Current *2				Rated Current *2				Rated Current *2			
Terminal screw				Terminal screw				Terminal screw			
Crimping Terminal				Crimping Terminal				Crimping Terminal			
Max. No. of Crimping Terminals				Max. No. of Crimping Terminals				Max. No. of Crimping Terminals			
Tightening Torque				Tightening Torque				Tightening Torque			
Crimping Terminal Dimensions (mm) *3				Crimping Terminal Dimensions (mm) *3				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: BNL6			
				C Rail/End Clip				Aluminum: BNCA1000, Steel: BNL7			
DIN + C Rail/End Clip				Aluminum: BNJA1000, Steel: BNL6/BNL7							

*1: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.

*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.

• Part No. with ☆ is UL recognized for field wiring (FW2).

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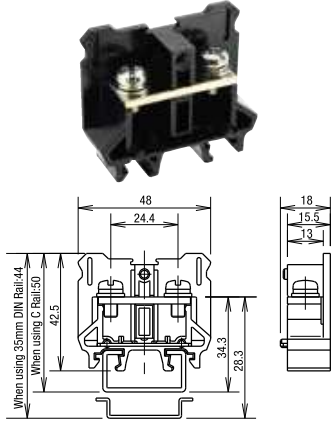
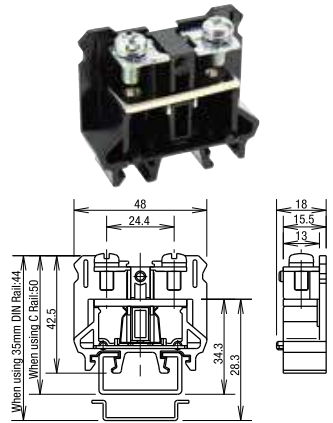
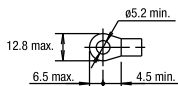
		Part No.	☆ BN15MWT	21A	M3.5	☆ BN15LWT	30A	M4	☆ BN30W	40A	M4
Standard	Screw-in Terminal	Dimensions									
		Ordering No.	BN15MWTPN50			BN15LWTPN50			BN30WPN50		
		Package Quantity	50			50			50		
		Weight (Approx.)	7g			10g			15.6g		
		Part No.	☆ BNH15MWT	21A	M3.5	☆ BNH15LWT	30A	M4	☆ BNH30W	40A	M4
Standard	Touch-Down Terminal	Dimensions									
		Ordering No.	BNH15MWTPN50			BNH15LWTPN50			BNH30WPN50		
		Package Quantity	50			50			50		
		Weight (Approx.)	8g			11g			16.8g		
		Part No.	☆ BNH15MWT	21A	M3.5	☆ BNH15LWT	30A	M4	☆ BNH30W	40A	M4
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	22-14 AWG	2 mm ² (22-14 AWG)	2 mm ²	22-14 AWG	3.5 mm ² (22-14 AWG)	3.5 mm ²	18-10 AWG	5.5 mm ² (18-10 AWG)	5.5 mm ²	
	Rated Current *1	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			
Tightening Torque			1.0 to 1.3 N·m			1.4 to 2.0 N·m			1.4 to 2.0 N·m		
Crimping Terminal Dimensions (mm) *2											
Accessories *3	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: BNL6									
	C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL7									
	DIN + C Rail/End Clip	Aluminum: BNJA1000, Steel: 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: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

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

• Part No. with ☆ is UL recognized for field wiring (FW2).

Standard	Screw-in Terminal	Part No.	☆ BN50W 70A M5		
		Dimensions			
		Ordering No.	BN50WPN20		
		Package Quantity	20		
		Weight (Approx.)	25.4g		
	Touch-Down Terminal	Part No.	☆ BNH50W 70A M5		
		Dimensions			
		Ordering No.	BNH50WPN20		
		Package Quantity	20		
		Weight (Approx.)	29g		
Specification / Ratings	Standards		UL/CSA	EN	JIS
	Insulation Voltage		600V	660V	800V
	Wire Size		16-6 AWG	14 mm ² (16-6 AWG)	14 mm ²
	Rated Current *1		60A	67A	70A
	Terminal screw		M5		
	Crimping Terminal		1.25-5 to 14-5		
	Max. No. of Crimping Terminals		2		
	Tightening Torque		2.6 to 3.7 N·m		
	Crimping Terminal Dimensions (mm) *2				
	Accessories *3	End Plate	BNE50W		
		Dust cover	BNC320		
		Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/725		
		Marking Strip Fastner	BNM3		
		DIN Rail/End Clip	Aluminum: BAA1000, Steel: BNL8		
		C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL8		
		DIN + C Rail/End Clip	Aluminum: BNJA1000, Steel: BNL8		

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

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• Part No. with ☆ is UL recognized for field wiring (FW2).

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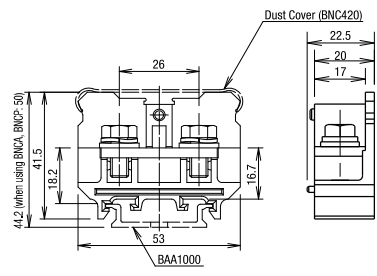
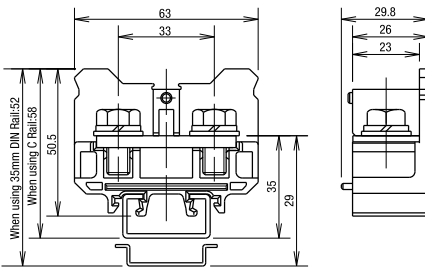
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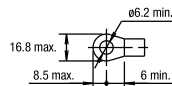
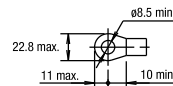
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Large Capacity Screw Terminal	Part No.	☆ BN75W 94A M6	BN100W 132A M8
	Dimensions	 	 
	Ordering No.	BN75WPN10	BN100WPN05
	Package Quantity	10	5
	Weight (Approx.)	45g	86g

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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 ² (8-4 AWG)	22 mm ²	16-2 AWG	38 mm ² (2AWG)	38 mm ²
	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: BNL8					
	Type C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL8					
	DIN+Type C Rail/End Clip	Aluminum: BNJA1000, Steel: BNL8					

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

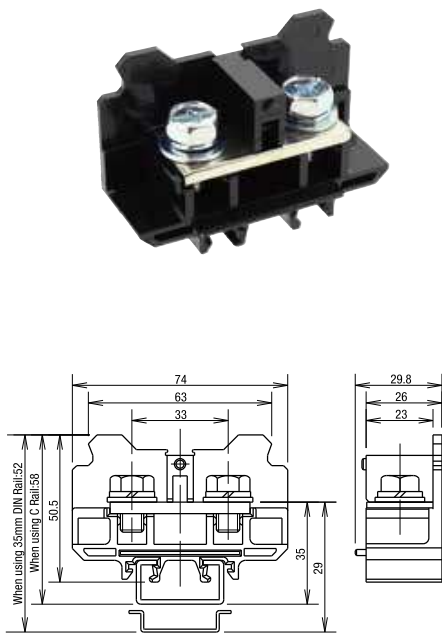
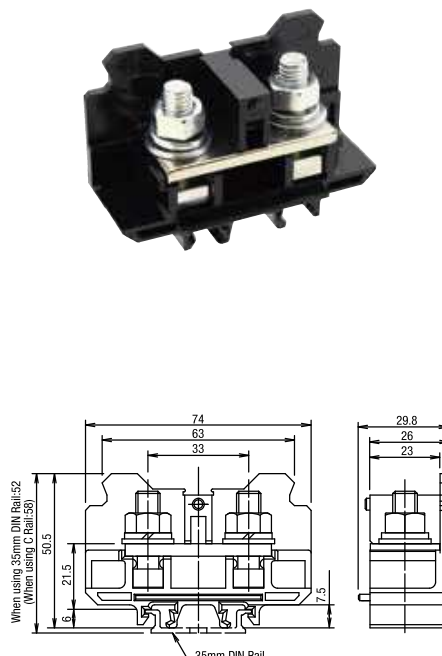
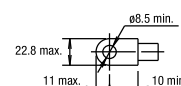
*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

*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.

• Part No. with ☆ is UL recognized for field wiring (FW2).

Large Capacity Screw Terminal	Part No.	BN150W175AM8			BN150NW175AM8		
	Dimensions						
	Ordering No.	BN150WPN05			BN150NWPN05		
	Packaging Quantity	5			5		
	Weight (Approx.)	88g			95g		
Standards	UL/CSA	EN	JIS	—	—	JIS	
Insulation Voltage	600V	660V	1000V	—	—	630V	
Wire Size	16-1/0 AWG	60 mm ² (1/0 AWG)	60 mm ²	—	—	60 mm ²	
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			
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					
	Marking Strip Fastner	BNM3					
	DIN Rail/End Clip	Aluminum BAA1000, Steel: BNL8					
	Type C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL8					
DIN+Type C Rail/End Clip	Aluminum: BNJA1000, Steel: 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 for tightening screws.

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

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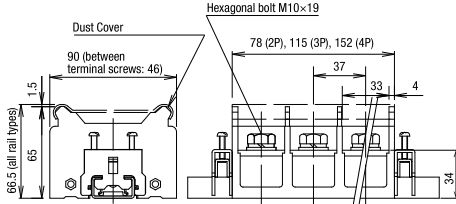
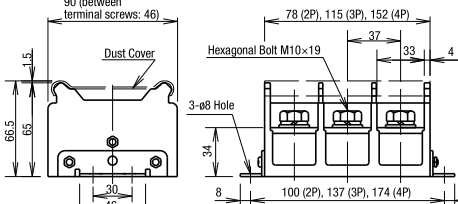
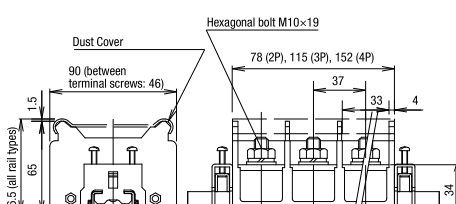
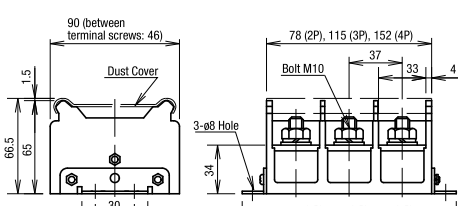
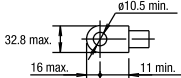
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Large Capacity	Screw Terminal	Part No.	BN200BW□		240A	M10	BN200BW□K		240A	M10	Surface Mount	
		Dimensions	 					 				
		Package Quantity	1					1				
		Weight (Approx.)	2P: 430g, 3P: 650g, 4P: 870g					2P: 490g, 3P: 710g, 4P: 930g				
	Stud Terminal	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				
		Standards		UL/CSA	EN	JIS	UL/CSA		EN	JIS		
		Specification / Ratings	Insulation Voltage	600V	660V	800V	600V		660V	800V		
Wire Size	4/0 AWG		100 mm ² (4/0 AWG)	100 mm ²	4/0 AWG		100 mm ² (4/0 AWG)	100 mm ²				
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				—						
	C Rail	Aluminum: BNCA1000				—						
	DIN+C Rail	Aluminum: BNJA1000				—						
	End Clip	Steel: BNL8				—						

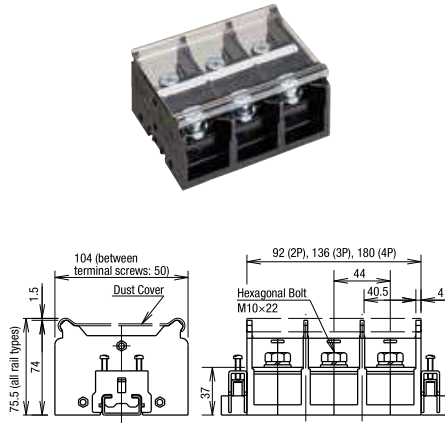
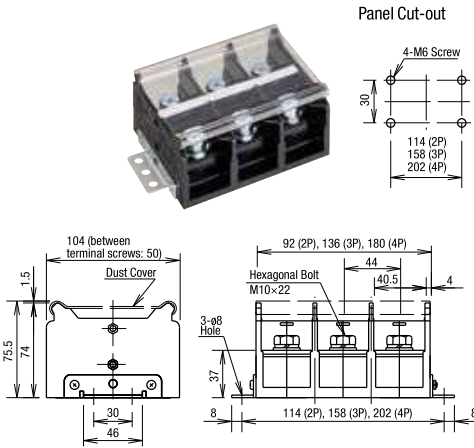
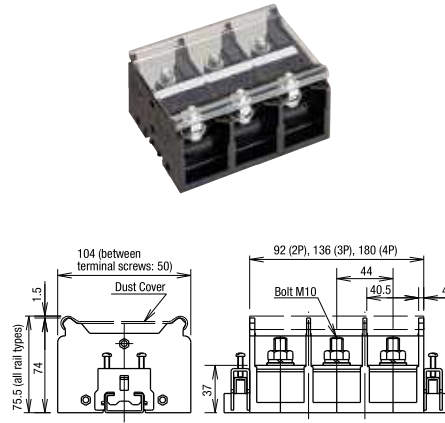
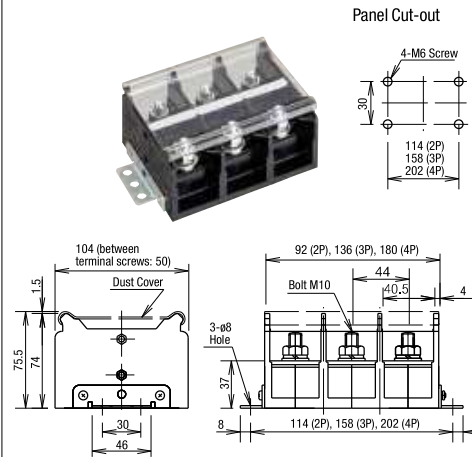
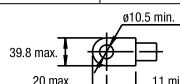
*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on G-006.

*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	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		
		Part no.	BN300NW□ 310A M10			BN300NW□K 310A M10 Surface Mount		
	Stud Terminal	Dimensions						
		Package Quantity	1			1		
		Weight (Approx.)	2P: 540g, 3P: 810g, 4P: 1080g			2P: 600g, 3P: 870g, 4P: 1140g		
	Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
	Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V
Wire Size		300 MCM	150 mm ² (300 MCM)	150 mm ²	300 MCM	150 mm ² (300 MCM)	150 mm ²	
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)			
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			—			
	C Rail	Aluminum: BNCA1000			—			
	DIN+C Rail	Aluminum: BNJA1000			—			
	End Clip	Steel: 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.

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Large Capacity	Screw Terminal	Part no.	BN400BW□370AM12			BN400BW□K370AM12Surface Mount			
		Dimensions							
		Package Quantity	1			1			
		Weight (Approx.)	2P: 950g, 3P: 1400g, 4P: 1860g			2P: 1030g, 3P: 1480g, 4P: 1940g			
		Part No.	BN400NW□370AM12			BN400NW□K370AM12Surface Mount			
	Stud Terminal	Dimensions							
		Package Quantity	1			1			
		Weight (Approx.)	2P: 980g, 3P: 1460g, 4P: 1930g			2P: 1060g, 3P: 1540g, 4P: 1990g			
		Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
		Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V
Wire Size	400 MCM		200 mm ² (400 MCM)	200 mm ²	400 MCM	200 mm ² (400 MCM)	200 mm ²		
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			—				
	C Rail	Aluminum: BNCA1000			—				
	DIN+C Rail	Aluminum: BNJA1000			—				
	End Clip	Steel: BNL8			—				

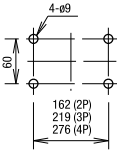
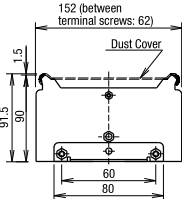
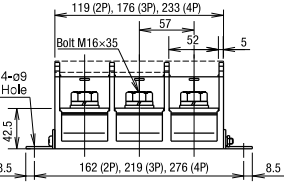
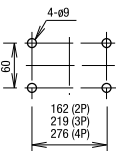
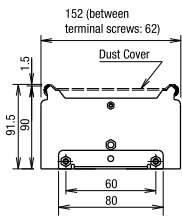
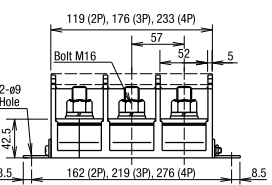
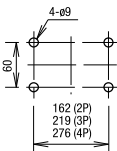
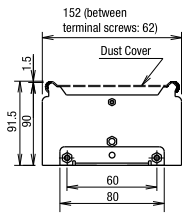
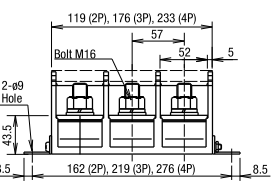
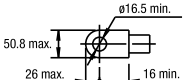
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*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

*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 Surface Mount	Screw Terminal	Part No	BN500BW□K	430A	M16	Surface Mount	—				
		Dimensions	 Panel Cut-out   Dust Cover 					—			
		Package Quantity	1					—			
		Weight (Approx.)	2P: 1550g, 3P: 2250g, 4P: 2950g					—			
	Stud Terminal	Part No.	BN500NW□K	430A	M16	Surface Mount	BN600NW□K	520A	M16	Surface Mount	
		Dimensions	 Panel Cut-out   Dust Cover 					 Panel Cut-out   Dust Cover 			
		Package Quantity	1					1			
		Weight (Approx.)	2P: 1600g, 3P: 2300g, 4P: 3000g					2P: 1650g, 3P: 2400g, 4P: 3150g			
	Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS				
	Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V			
Wire Size		500 MCM	240 mm ² (500 MCM)	250 mm ²	600 MCM	300 mm ² (600 MCM)	325 mm ²				
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.

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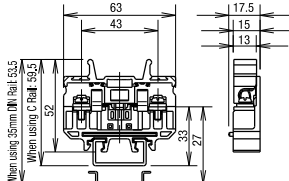
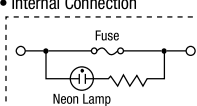
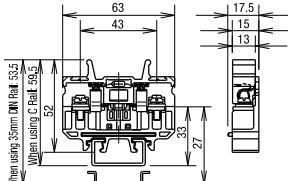
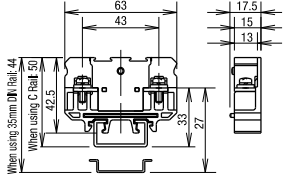
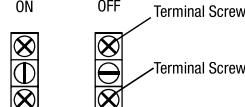
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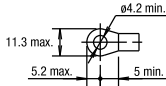
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Screw-in Terminal with Fuse	BNF10S-□A 10A M4	BNF10N-□A (With Lamp) 10A M4	Screw-in Terminal with Disconnecting Switch	BNT20 20A M4
	 Fuse Ratings • Rated Voltage: 250V • Rated Current: 1, 3, 5A • Cartridge Fuse: JIS C 6575-2 6.35×31.8 mm or 6.40×30.0 mm • Part No.: BNF10S-1A, BNF10S-3A, BNF10S-5A • Cartridge used: FGB1 by FUJI Terminal Industry Co., Ltd. Notes: 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. • Part No.: BNF10SW • Rated Insulation Voltage: 600V • Rated Current: 10A • Applicable Wire: 18-10 AWG • UL File No.: E78117 • CSA File No.: LR64803	 Notes: Neon lamp turns on when the fuse blows. For the neon lamp to turn on, the voltages must be from 100 to 250V AC. Fuse Ratings • Rated Voltage: 250V • Rated Current: 1, 3, 5A • Cartridge Fuse: JIS C 6575-2 6.35×31.8mm or 6.40×30.0mm • Part No.: BNF10N-1A, BNF10N-3A, BNF10N-5A Note: 6.4×30.0mm fuse can also be used. Notes: 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. • Part No.: BNF10NW • Rated Insulation Voltage: 300V • Rated Current: 10A • Applicable Wire: 18-10 AWG • UL File No.: E78117 • CSA File No.: LR64803		 Notes: • Rated Current: 20A • This terminal block cannot be used as a disconnect switch. • When switching on/off, make sure that voltage is not applied. 
Ordering No.	BNF10S-□APN20	BNF10N-□APN20	Ordering No.	BNT20PN20
Package Quantity	20	20	Package Quantity	20
Weight (Approx.)	34g	34g	Weight (Approx.)	36g

Standards	JIS	JIS
Insulation Voltage	600V	600V
Wire Size	5.5 mm ²	5.5 mm ²
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: BNL6
	C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL7
	DIN+C Rail/End Clip	Aluminum: BNJA1000, Steel: BNL6/BNL7

BNE20		BNC520
PVC 1m/BNM7, Fiber glass 1m/BNM9		PVC 25m/BNM725

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

Double-Deck Terminal Block	Screw-in 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		
Specification / Ratings	Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
	Insulation Voltage		600V	660V	800V	600V	660V	800V
	Wire Size		22-14 AWG	2 mm ² (22-14 AWG)	1.25 mm ² (*1) (2 mm ² max)	22-14 AWG	2 mm ² (22-14 AWG)	2 mm ²
	Rated Current *2		10A	22A	16A	15A	22A	21A
	Terminal Screw		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: BNL6					
	C Rail/End Clip		Aluminum: BNCA1000, Steel: BNL7					
	DIN+C Rail/End Clip		Aluminum: BNJA1000, Steel: BNL6/BNL7					

*1: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.

*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.

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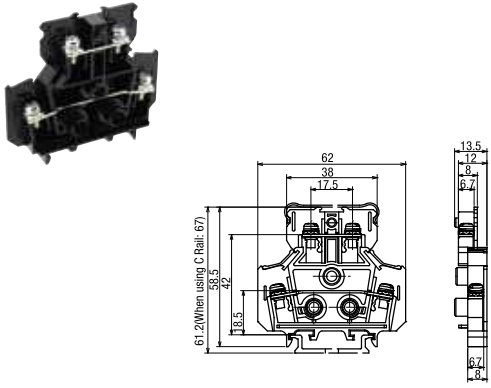
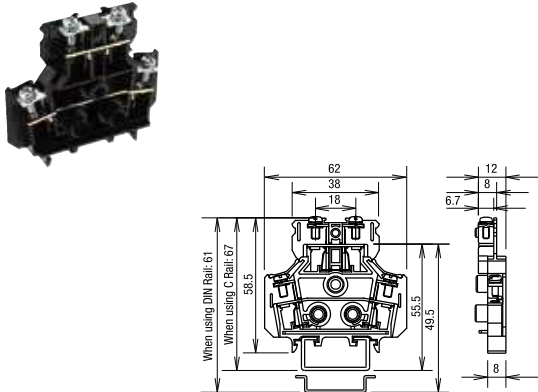
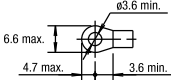
Controllers

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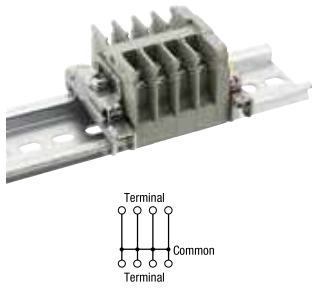
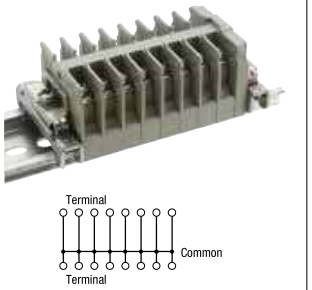
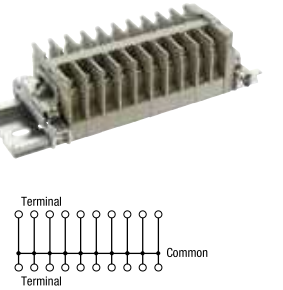
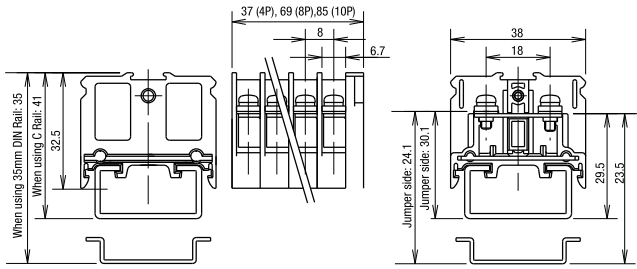
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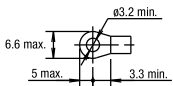
Double-Deck Terminal Block	Screw-in Terminal	Part No.	BND15WT 21A M3.5		
		Dimensions			
		Ordering No.	BND15WTPN25		
		Package Quantity	25		
		Weight (Approx.)	17g		
	Touch-Down Terminal	Part No.	BNDH15WT 21A M3.5		
		Dimensions			
		Ordering No.	BNDH15WTPN25		
		Package Quantity	25		
		Weight (Approx.)	17g		
	Standards		UL/CSA	EN	JIS
	Specification / Ratings	Insulation Voltage	600V	660V	800V
		Wire Size	22-14 AWG	2mm ² (22-14 AWG)	2 mm ²
		Rated Current *1	15A	22A	21A
		Terminal Screw	M3		
		Crimping Terminal	1.25-3.5 to 2-3.5		
		Max. No. of Crimping Terminals	2		
		Tightening Torque	1.0 to 1.3 N·m		
	Crimping Terminal (mm) *2				
	Accessories *3	End Plate	BNDE15W/BNDE15W2		
		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: BNN		
		DIN Rail/End Clip	Aluminum: BAA1000, Steel: BNL6		
		C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL7		
		DIN+C Rail/End Clip	Aluminum: BNJA1000, Steel: 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: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.

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

Common Terminal Screw-in Terminal	Part No.	BN15MC416A (common current)M3		BN15MC816A (common current)M3		BN15MC1016A (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 ² (2 mm ² 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: BNL6
	C Rail / End Clip	Aluminum: BNCA1000, Steel: BNL7
	DIN+C Rail / End Clip	Aluminum: BNJA1000, Steel: BNL6/BNL7

*1: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.

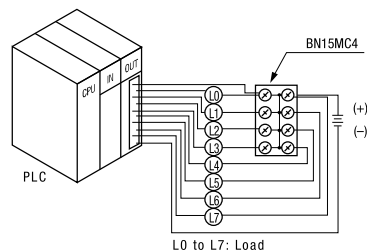
*2: Do not remove the built-in common jumper. Common terminal type terminal blocks cannot be disassembled.

*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.

*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.

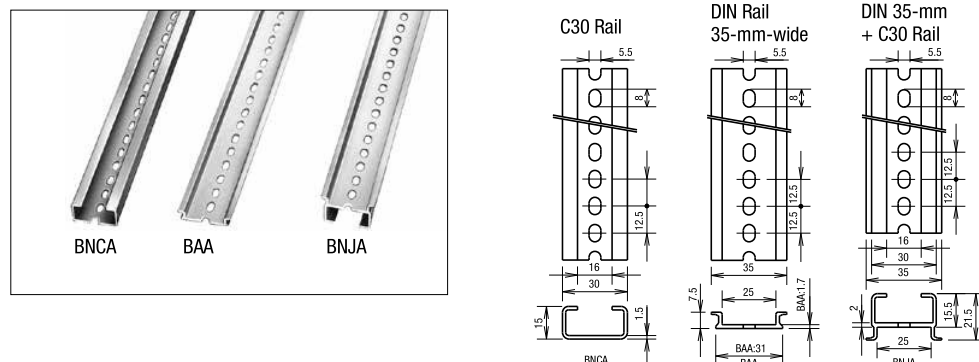
Securing a marking strip with the end plate

Part No.	Ordering No.	Applicable Terminal Blocks	Thickness (mm)	Weight (Approx.)	Package Quantity
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	
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	
BNDE15W2	BNDE15W2PN10	BND15W, BND15WT, BNDH15W, BNDH15WT	Upper deck: 5.5 Lower deck: 1.5	5.5g	
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 three styles.



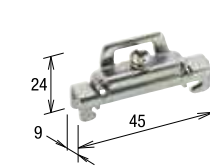
Approvals:
IEC60715
JIS C 2812

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

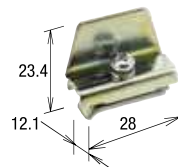
Accessories (End Clip / Rail Mounting Clip / Dust Cover)

End Clips

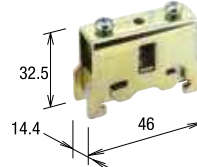
Used to secure the ends of the terminal blocks assembled on the rail.



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



BNL7 (M4 Screw)



BNL8 (M4 Screw) (*3)

- Material: Steel
- Plating: Trivalent zinc chromate

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	×	×	—	15.2g	10
BNL7	BNL7PN10	BNCA, BNCP, BNJA	×	×	—	16g	10
BNL8	BNL8PN10	BAA, BNCA, BNCP, BNJA	— (*1)	×	×	56g	10

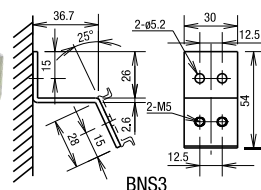
*1: Do not use BNL8 because the insulation distance will be insufficient if used.

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

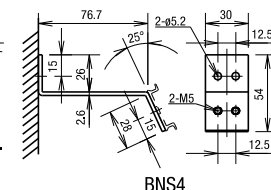
*3: Slide the end clip onto the DIN rail.

Rail Mounting Clips

Used to raise the DIN rail from the panel surface.



BNS3



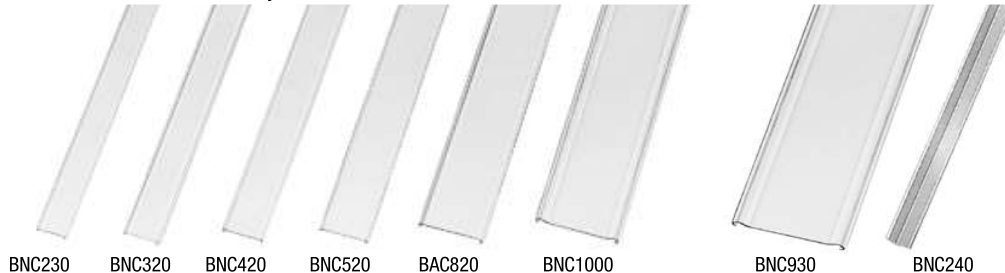
BNS4

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



BNC230

BNC320

BNC420

BNC520

BAC820

BNC1000

BNC930

BNC240

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
	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

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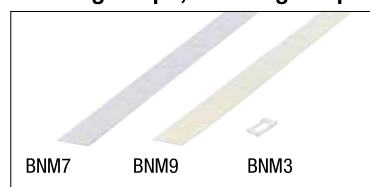
Sensors

AUTO-ID

BN

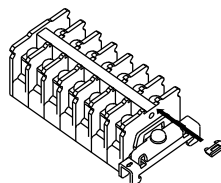
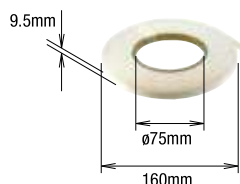
Accessories (Marking Strips / Marking Strip Fastener / Slide Marking Strip)

Marking Strips, Marking Strip Fastener

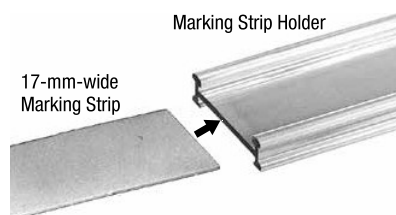


Item	Part No.	Ordering No.	Weight (approx.)	Package Quantity	Specification
Marking Strip	BNM7	BNM7PN10	7.2g	10	PVC (glossy surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM9	BNM9PN10	6.4g	10	Fiber glass (matte surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM725	BNM725	—	1	PVC (matte surface) 25 m × 9.5 mm × 0.5 mm
Marking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

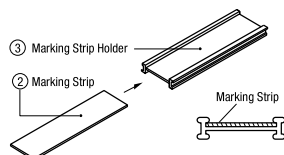


Item	Part No.	Ordering No.	Terminal Blocks	Specification	Package Quantity
① End Plate	BNES15W	BNES15WPN10	BN10W to BN15LWT	For sliding marking strip	10
	BNES30W	BNES30WPN10	BN30W	For sliding marking strip	10
② Marking Strip	BNM5	BNM5PN10	BN10W to BN15LWT BN30W	PVC (Note)	10
③ Marking Strip Holder	BNMH1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

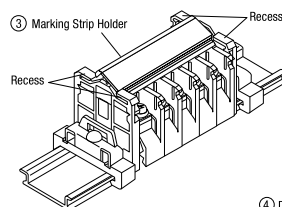
Note: Length 1000 mm × Width 9.5 mm × Thickness 0.5 mm

Installing the Sliding Marking Strip

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

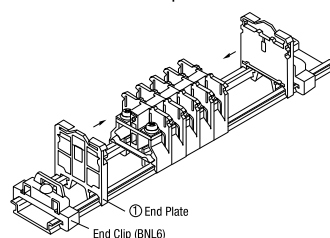


3. Insert the marking strip holder into the recess of the end plate.

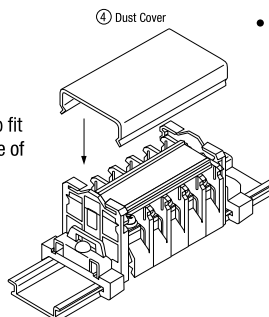


2. Installing the end plate

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

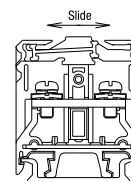


4. Press the dust cover to fit onto the bottom groove of the end plate.



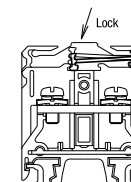
Movement

- 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.

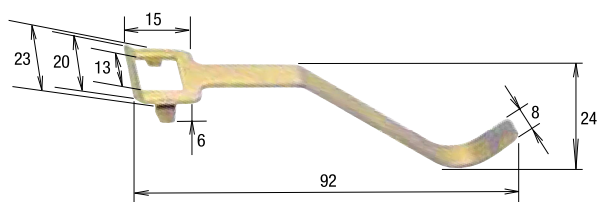
Part No.	Ordering No.	Terminal Centers	Insulation	Dimensions	Current (Note 1, 2)	Applicable Terminal Block	Weight (Approx.)	Package Quantity
BNJ16	BNJ16PN10	7 mm	Without	Ring Terminal 	10A	BN10W BNH10W	2.8g	10
BNJ16B	BNJ16BPN10		With	Fork Terminal 				10
BNJ16F	BNJ16FPN10		Without	Fork Terminal 			2.7g	10
BNJ16FB	BNJ16FBPN10		With	Fork Terminal 				10
BNJ26W	BNJ26WPN10	8 mm	Without	Ring Terminal 	20A	BN15MW BNH15MW BN15MWT BNH15MWT BND15W BNDH15W BND15WT BNDH15WT	3.1g	10
BNJ26WB	BNJ26WBPN10		With	Fork Terminal 				10
BNJ26FW	BNJ26FWPN10		Without	Fork Terminal 			3.1g	10
BNJ26FWB	BNJ26FWBPN10		With	Fork Terminal 				10
BNJ46	BNJ46PN10	10.5 mm	Without	Ring Terminal 	20A	BN15LW BNH15LW BN15LWT BNH15LWT BND15LW BNDH15LW	4.6g	10
BNJ46B	BNJ46BPN10		With	Fork Terminal 				10
BNJ46F	BNJ46FPN10		Without	Fork Terminal 			3.0g	10
BNJ46FB	BNJ46FBPN10		With	Fork Terminal 				10
BNJ56	BNJ56PN10	12 mm	Without	Ring Terminal 	30A	BN30W BNH30W	3.2g	10
BNJ56B	BNJ56BPN10		With	Fork Terminal 				10
BNJ56F	BNJ56FPN10		Without	Fork Terminal 			4.5g	10
BNJ56FB	BNJ56FBPN10		With	Fork Terminal 				10

- 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	Ring Terminal 	80A	BN50W BNH50W	10
BNJ62B	BNJ62BPN10		With				

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

Accessories (Removal Tool)



A tool for removing terminal blocks from the DIN rail.

Part No.	Weight (Approx.)	Package Quantity
BND2	8.6g	1

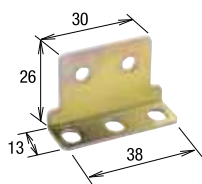
• Material: Steel

• 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
BNDL2	BNDL2PN10	BND15W, BNDH15W BND15WT, BNDH15WT BND15LW, BNDH15LW	14.3g	10

• Material: Steel

• Plating: Zinc

Connecting Rods

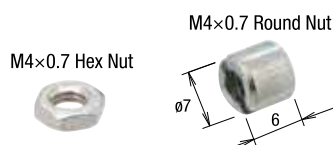


Part No.	Ordering No.	Applicable Terminal Block	Weight (Approx.)	Dimensions (mm)	Package Quantity
BNR1	BNR1PN10	BND15W, BNDH15W BND15WT, BNDH15WT	21g	265 mm (M4×0.7)	10
BNR2	BNR2PN10	BND15LW, BNDH15LW	43g	500 mm (M4×0.7)	10

• Material: Steel

• Plating: Zinc

Connecting Nuts



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

• Material: Steel

• Plating: Zinc

Calculating Rail Lengths and Mounting Centers

• BNCA, BAA, 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

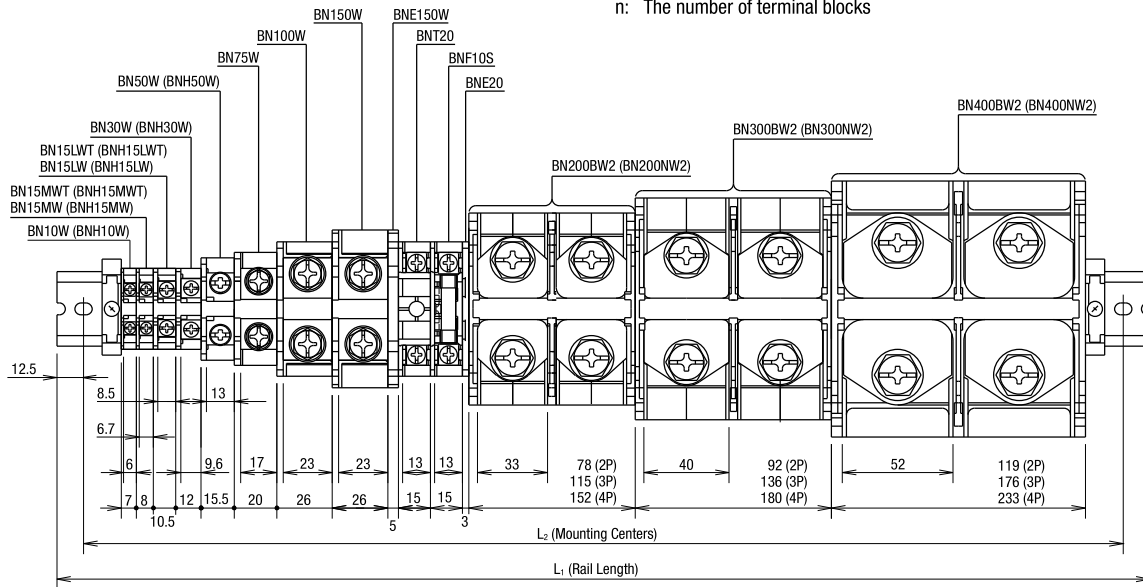
C: Thickness of end clip when using 2 pieces of:

$$\text{BNL6} = 56.0 \text{ mm}$$

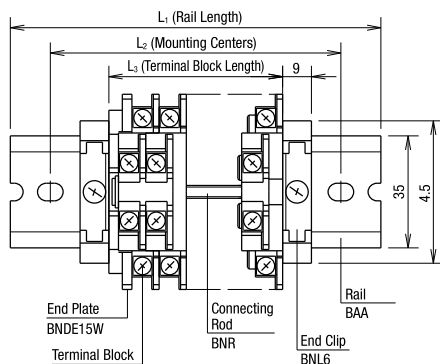
$$\text{BNL7} = 62.5 \text{ mm}$$

$$\text{BNL8} = 67.0 \text{ mm}$$

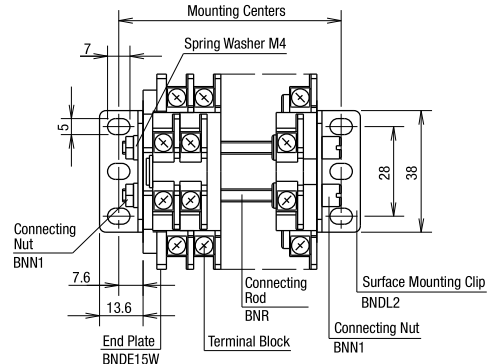
n: The number of terminal blocks



Rail Length (Double-Deck)



Mounting Centers (Double-Deck)



Calculating the length (mm)

Part No.	BND15W BNDH15W BND15WT	BND15LW BNDH15LW
L1 (*1)	$12.5 \times N$	
L2 (*1)	$L_1 - 25$	
L3 (*1, *2)	$8 \times n + 9$	$10.5 \times n + 10.3$
Connecting Rod Length (*1, *2)	$8 \times n + 8.7$	$10.5 \times n + 10$

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

For BND15W, BNDH15W, BND15WT

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

For BND15LW, BNDH15LW

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

Calculating the length (mm)

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

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.

APEM

Switches &
Pilot Lights

Control Boxes

Emergency
Stop Switches

Enabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Operator
Interfaces

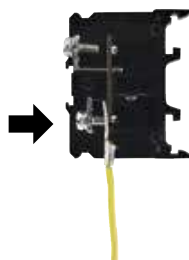
Sensors

AUTO-ID

BN

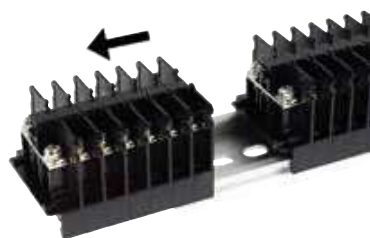
Instructions

How to Use Touch-Down Terminals

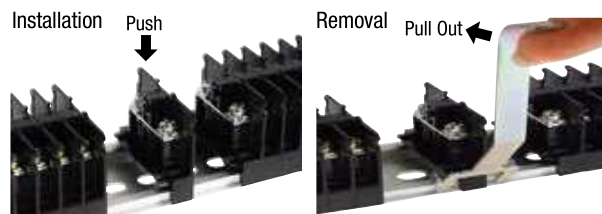


1. With the terminal screws in the up position, insert a ring crimping terminal.
2. Push down the head of the screw lightly to hold the crimping terminal.
3. When the wiring is in position, tighten all the screws simultaneously.
4. To remove the wiring, loosen the screw and lightly push up.

Installation and Removal on Rails



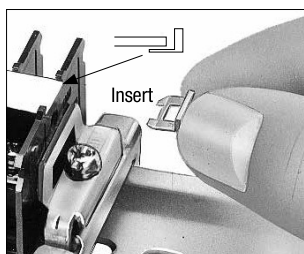
Additional Installation and Removal (on DIN Rail)



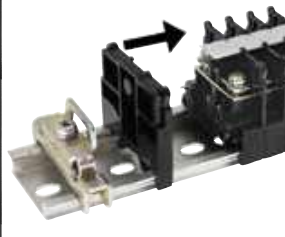
Notes: The following terminal blocks can be added or removed:
BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W,
BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT

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

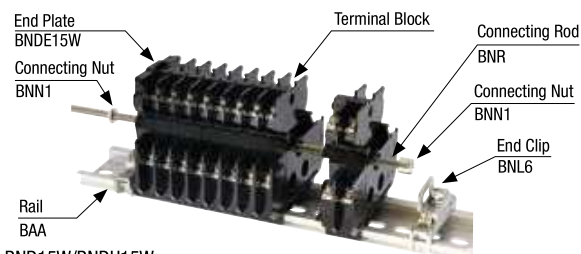


Installing End Plate

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

Installation of Double-Deck Terminal Blocks (BND)

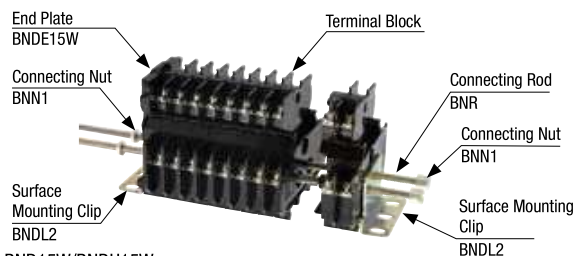
Rail Mount (photo: when using BND15W, BNDH15W, BNDE15W2)



BND15W/BNDH15W

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



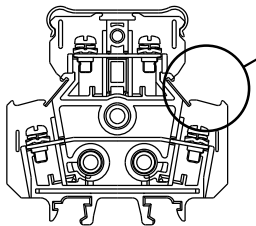
BND15W/BNDH15W

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).

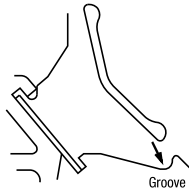
Instructions

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

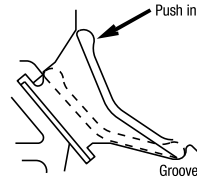
Installing Dust Covers on Lower Deck Terminals



Lower Deck Dust Cover



1. Press the lower end of the dust cover into the groove.

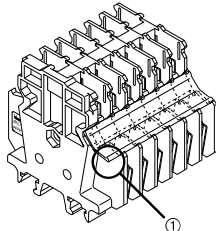


2. With the lower end of the dust cover pressed into the groove, push in the top end in the direction of the arrow.

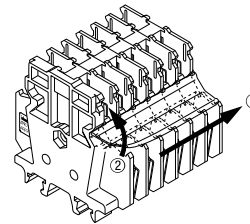
Removing Dust Covers from Lower Deck Terminals

Turn the power off before removing the dust cover.

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

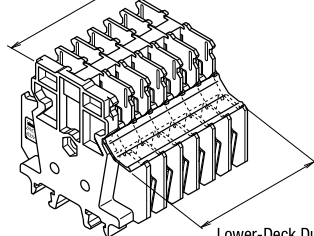


2. Lift up in the direction of the arrow.
3. If the dust cover cannot be removed all at once, place fingers between the terminal block and dust cover, and slowly remove the dust cover.



Length of Double-Deck Dust Covers

Upper-Deck Dust Cover
BNC230



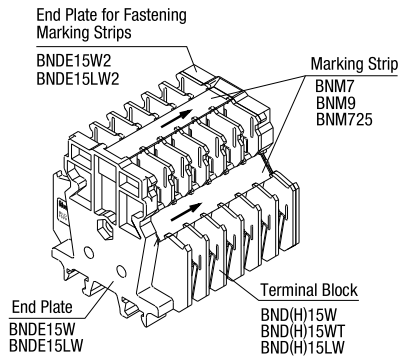
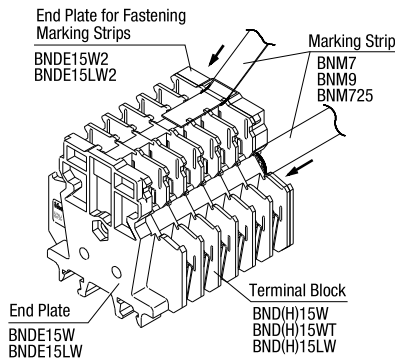
Lower-Deck Dust Cover
BNC240

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.



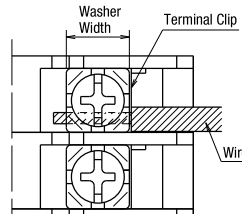
Notes on Wiring

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.



Ordering Terms and Conditions

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.
 - i. Use in applications that require a high degree of safety, including nuclear power control equipment, transportation equipment (railroads / airplanes / ships / vehicles / vehicle instruments, etc.), equipment for use in outer space, elevating equipment, medical instruments, safety devices, or any other equipment, instruments, or the like that could endanger life or human health
 - 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
If you would like to use IDEC products in the above applications, be sure to consult with an IDEC sales representative.

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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