Terminal Blocks

BN-W
BNH-W Series

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

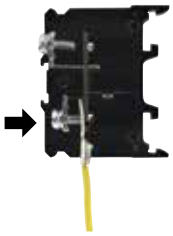
• See website for details on approvals and standards.

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

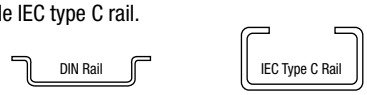


Push the screw down to temporarily hold the wire in place.

3. Tighten the Screw

The screws can be tightened easily with a pneumatic screwdriver.

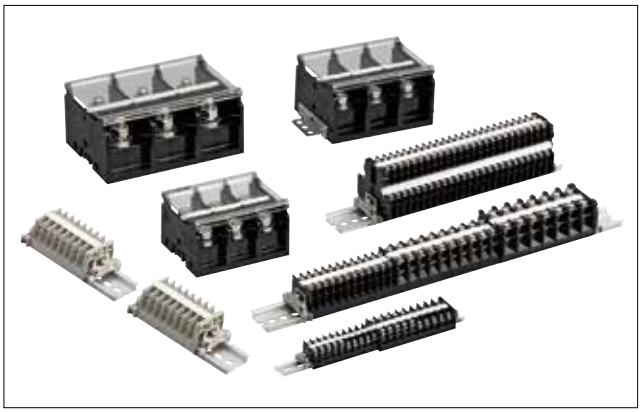
- Molded from UL94V-0 material with excellent flame and shock resistance.
- Terminal blocks can be mounted on a 35-mm-wide DIN rail and 30-mm-wide IEC type C rail.



- 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	
	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.
∗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.	Applicable Wire (mm^2)	Terminal Screw	Width (mm)	Quantity	Page
Standard								
Screw-in	1-pole	16A	BN10W	1.25	M3	7	50	G-012
			BN15MW	1.25 (2) (Note)	M3	8	50	
		21A	BN15LW	2	M3.5	10.5	50	
			BN15MWT	2	M3.5	8	50	G-013
		30A	BN15LWT	3.5	M4	10.5	50	
		40A	BN30W	5.5	M4	12	50	
		70A	BN50W	14	M5	15.5	20	G-014
Touch-Down	1-pole	16A	BNH10W	1.25	M3	7	50	G-012
			BNH15MW	1.25 (2) (Note)	M3	8	50	
		21A	BNH15LW	2	M3.5	10.5	50	
			BNH15MWT	2	M3.5	8	50	G-013
		30A	BNH15LWT	3.5	M4	10.5	50	
		40A	BNH30W	5.5	M4	12	50	
		70A	BNH50W	14	M5	15.5	20	G-014
Large Capacity (Rail Mount)								
Screw	1-pole	94A	BN75W	22	M6	20	10	G-015
		132A	BN100W	38	M8	26	5	
		175A	BN150W	60	M8	26	5	G-016
			BN150NW	60	M8	26	5	
	2-pole	240A	BN200BW2	100	M10	37	1	G-017
	3-pole		BN200BW3					
	4-pole		BN200BW4					
	2-pole	310A	BN300BW2	150	M10	44	1	G-018
	3-pole		BN300BW3					
	4-pole		BN300BW4					
	2-pole	370A	BN400BW2	200	M12	57	1	G-019
	3-pole		BN400BW3					
	4-pole		BN400BW4					
Stud	2-pole	240A	BN200NW2	100	M10	37	1	G-017
	3-pole		BN200NW3					
	4-pole		BN200NW4					
	2-pole	310A	BN300NW2	150	M10	44	1	G-018
	3-pole		BN300NW3					
	4-pole		BN300NW4					
	2-pole	370A	BN400NW2	200	M12	57	1	G-019
	3-pole		BN400NW3					
	4-pole		BN400NW4					

Note The rated applicable wire size is 1.25 mm^2, but 2 mm^2 wires can also be connected.

Terminal Blocks

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

Terminal Style			Part No.	Applicable Wire (mm^2)	Terminal Screw	Width (mm)	Quantity	Page
With Disconnecting Switch, Fuse								
Disconnecting Switch	20A	1-pole	BNT20	5.5	M4	15	20	G-021
With Fuse	10A	1-pole	BNF10S-☐	5.5	M4	15	20	
			BNF10N-☐					
Double-Deck Terminal Block								
Screw-in	16A	1-pole	BND15W	1.25 (2)*	M3	8	25	G-022
Touch-Down			BNDH15W					
Screw-in	21A	1-pole	BND15LW	2	M3.5	8	25	
Touch-Down			BNDH15LW					
Screw-in	21A	1-pole	BND15WT	2	M3.5	12	25	G-023
Touch-Down			BNDH15WT					
Common Terminal								
Screw-in 16A (Common Current)		4-pole	BN15MC4	1.25 (2)*	M3	8	10	G-024
		8-pole	BN15MC8					
		10-pole	BN15MC10					

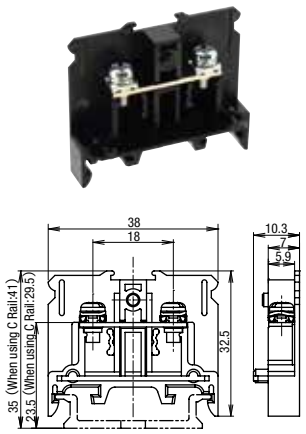
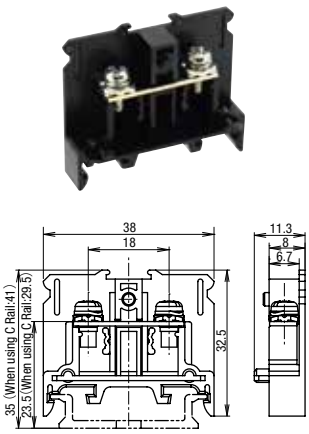
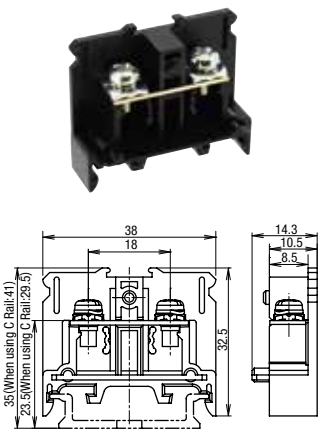
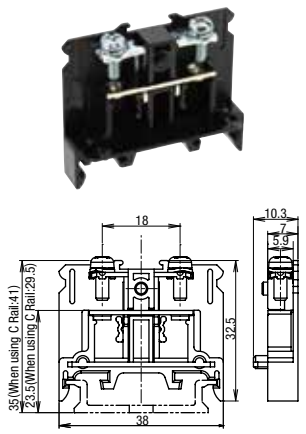
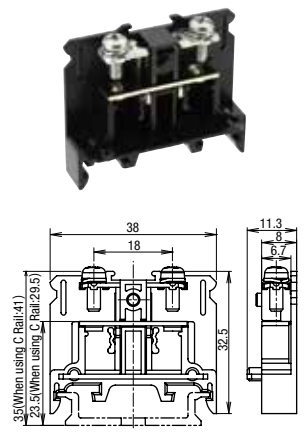
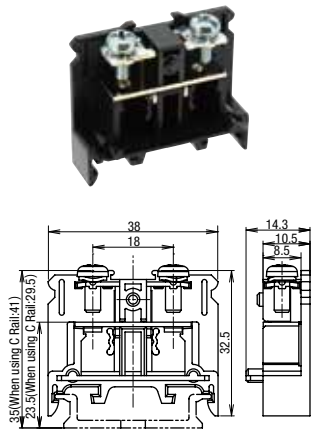
* The rated applicable wire size is 1.25 mm^2, but 2 mm^2 wires can also be connected.
Specify the fuse rating in place of ☐. 1A: 1, 3A: 3, 5A: 5.

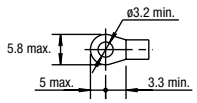
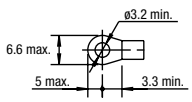
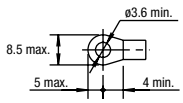
Accessories

When ordering accessories, check if the accessories are necessary by referring to the table.
×: Necessary
○: Optional

Terminal		Part No.	End Plate	Rail	End Clip	Rail Mounting Clip	Dust Cover	Marking Strip	Marking Strip Fastener	Sliding Marking Strip	Jumper	Removal Tool	Surface Mount Clip	Connecting Rod	Connecting Nut
			Accessories (×: Necessary)												
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**	×	× *1	× *1	○	○	○	○	—	○	—	× *2	×	×
Common Terminal		**BN15MC□**	—	×	×	—	○	○	○	○	—	—	—	—	—
			G-025		G-026			G-027			G-028	G-029			
			Page												

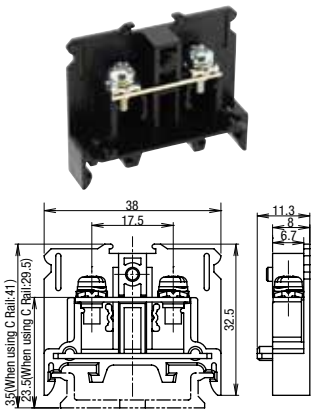
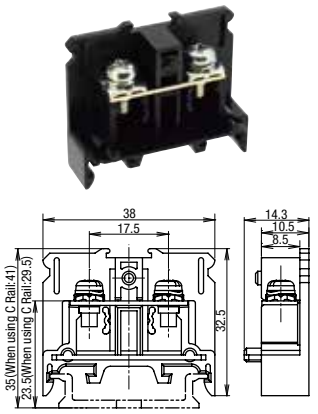
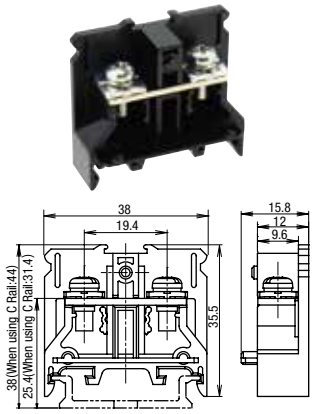
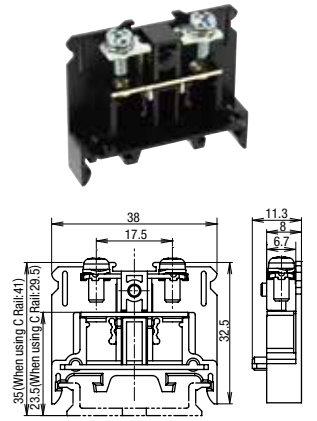
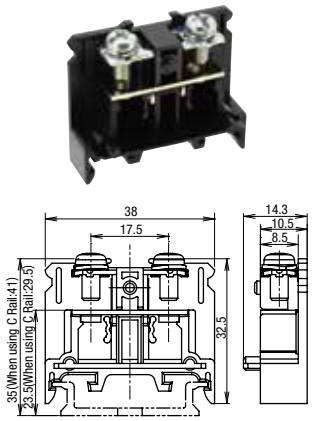
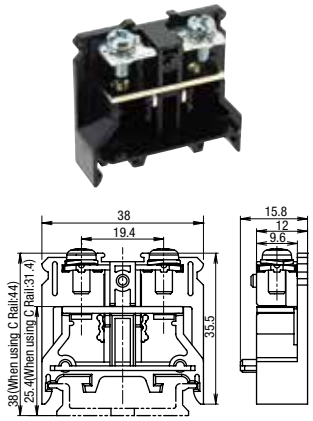
*1: Accessory not necessary for surface mounting.
*2: Accessory not necessary for rail mounting.
Specify the number of poles in place of □.

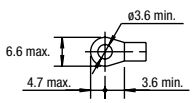
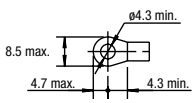
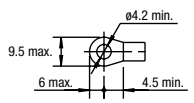
Standard	Screw-in Terminal	Part No.	☆ BN10W 16A M3	☆ BN15MW 16A M3	☆ BN15LW 21A M3.5
		Dimensions			
		Quantity	50	50	50
		Weight (Approx.)	5.5g	6.5g	6.5g
	Touch-Down Terminal	Part No.	☆ BNH10W 16A M3	☆ BNH15MW 16A M3	☆ BNH15LW 21A M3.5
		Dimensions			
		Quantity	50	50	50
		Weight (Approx.)	6.5g	7g	7.5g

Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS	UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V	600V	660V	630V
	Wire Size	22-16 AWG	1.25 mm² (22-16 AWG)	1.25 mm²	22-14 AWG	2 mm² (22-14 AWG)	1.25 mm² (*1) (2mm² max)	22-14 AWG	2 mm² (22-14 AWG)	2 mm²
	Rated Current *2	15A	16A	16A	15A	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, BNM725-TK1700								
	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								

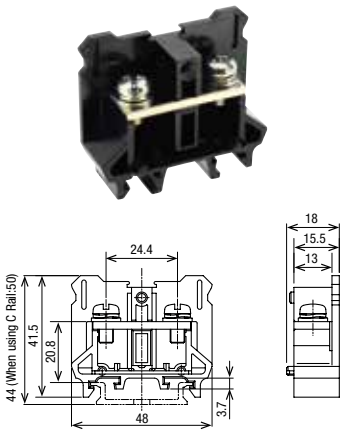
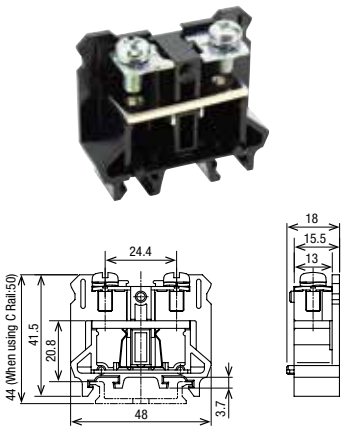
*1: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.
*2: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on G-006.
*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
*4: See G-025 for details on accessories.
• Part No. with ☆ is UL recognized for field wiring (FW2).

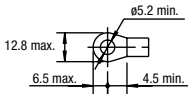
BN-W / BNH-W Series Terminal Blocks

Standard	Screw-in Terminal	Part No.	☆ BN15MWT 21A M3.5	☆ BN15LWT 30A M4	☆ BN30W 40A M4
		Dimensions			
		Quantity	50	50	50
		Weight (Approx.)	9g	9.5g	13g
	Touch-Down Terminal	Part No.	☆ BNH15MWT 21A M3.5	☆ BNH15LWT 30A M4	☆ BNH30W 40A M4
		Dimensions			
		Quantity	50	50	50
		Weight (Approx.)	10g	10g	14g

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 mm² (22-14 AWG)	2 mm²	22-14 AWG	3.5 mm² (22-14 AWG)	3.5 mm²	18-10 AWG	5.5 mm² (18-10 AWG)	5.5 mm²
	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, BNM725-TK1700								
	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).

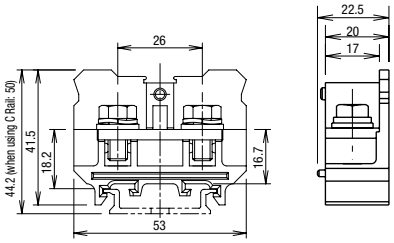
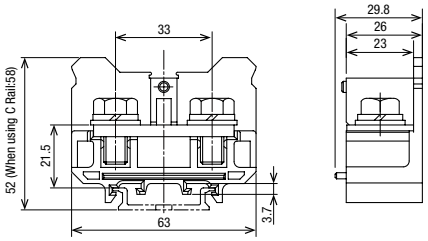
Standard	Screw-in Terminal	Part No.	☆ BN50W 70A M5	
		Dimensions		
		Quantity	20	
		Weight (Approx.)	25.4g	
	Touch-Down Terminal	Part No.	☆ BNH50W 70A M5	
		Dimensions		
		Quantity	20	
		Weight (Approx.)	29g	

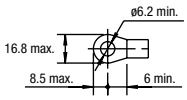
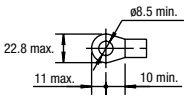
Standards		UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	800V
	Wire Size	16-6 AWG	14 mm² (16-6 AWG)	14 mm²
	Rated Current ∗1	60A	67A	70A
	Terminal screw	M5		
	Crimping Terminal	1.25-5 to 14-5		
	Max. No. of Crimping Terminals	2		
	Tightening Torque	2.6 to 3.7 N·m		
Crimping Terminal Dimensions (mm) ∗2				
Accessories ∗3	End Plate	BNE50W		
	Dust cover	BNC320		
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/725, BNM725-TK1700		
	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.
∗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).

BN-W / BNH-W Series Terminal Blocks

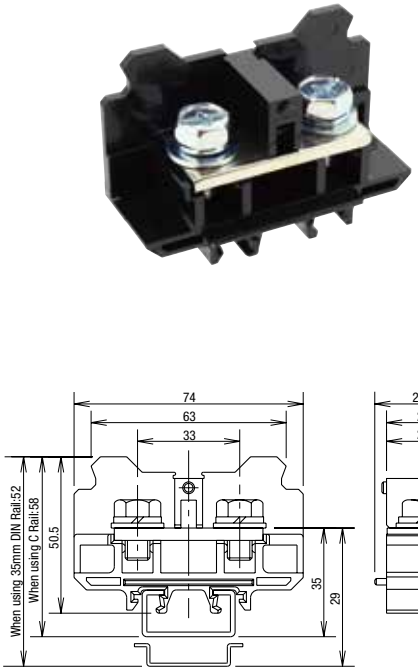
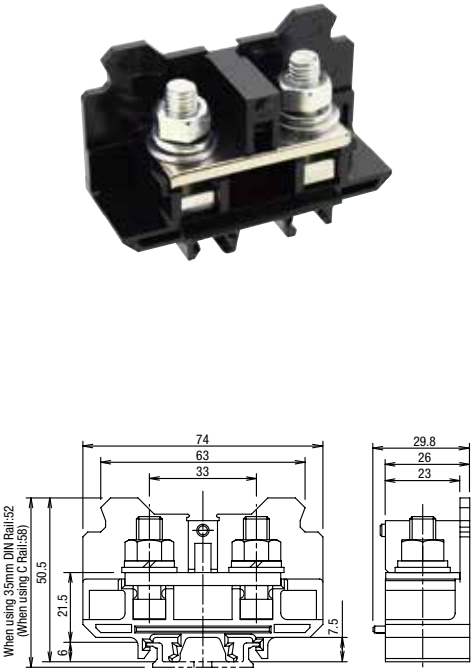
Large Capacity / Screw Terminal

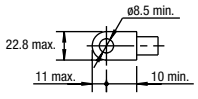
Part No.	☆ BN75W 94A M6	BN100W 132A M8
Dimensions	 	 
Quantity	10	5
Weight (Approx.)	45g	86g

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 mm² (8-4 AWG)	22 mm²	16-2 AWG	38 mm² (2AWG)	38 mm²
	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, BNM725-TK1700					
	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).

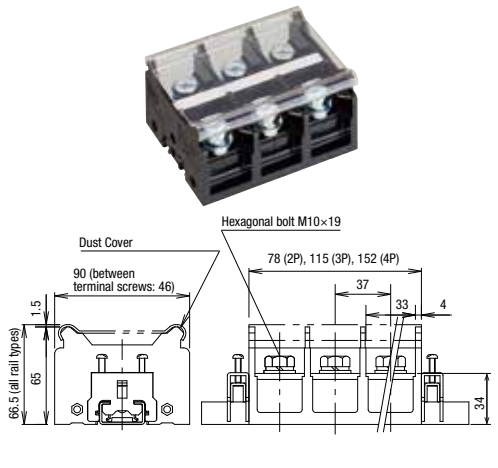
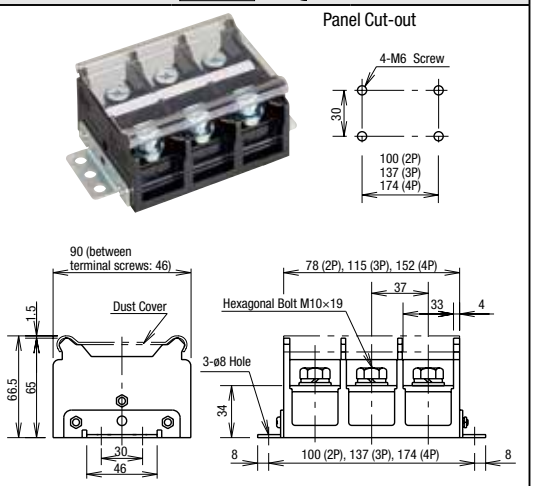
		Part No.	BN150W 175A M8	BN150NW 175A M8
Large Capacity	Screw Terminal	Dimensions		
		Quantity	5	5
		Weight (Approx.)	88g	95g

Standards		UL/CSA	EN	JIS	—	—	JIS
Specification / Ratings	Insulation Voltage	600V	660V	1000V	—	—	630V
	Wire Size	16-1/0 AWG	60 mm² (1/0 AWG)	60 mm²	—	—	60 mm²
	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, BNM725-TK1700			PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725, BNM625, BNM725-TK1700		
	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					

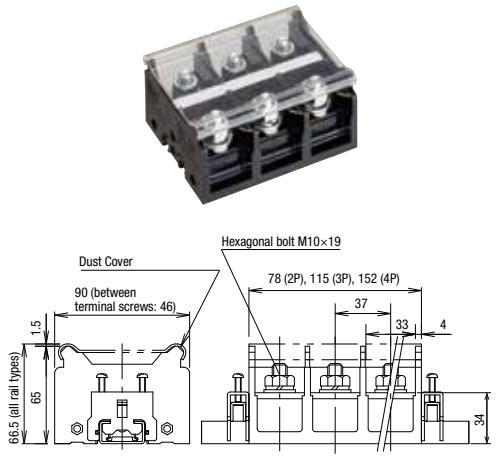
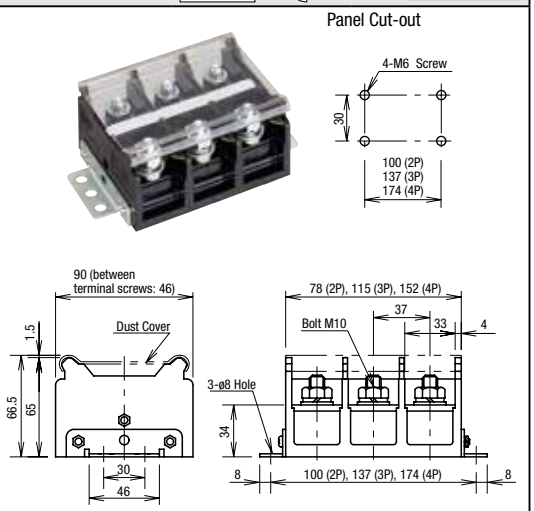
∗1: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.
∗2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range 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.

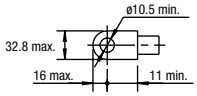
BN-W / BNH-W Series Terminal Blocks

Large Capacity — Screw Terminal

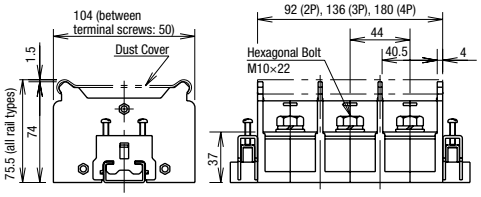
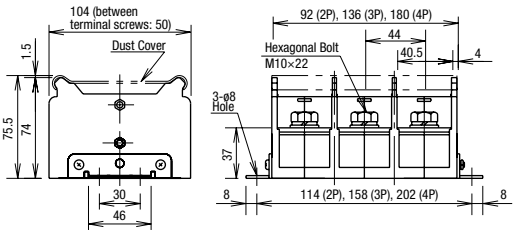
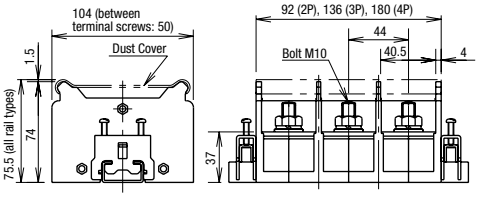
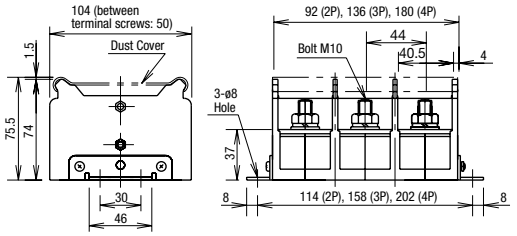
Part No.	BN200BW□ 240A M10	BN200BW□K 240A M10 Surface Mount	
Dimensions			
Quantity	1	1	
Weight (Approx.)	2P: 430g, 3P: 650g, 4P: 870g	2P: 490g, 3P: 710g, 4P: 930g	

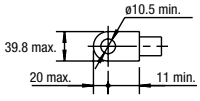
Large Capacity — Stud Terminal

Part No.	BN200NW□ 240A M10	BN200NW□K 240A M10 Surface Mount	
Dimensions			
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 mm² (4/0 AWG)	100 mm²	4/0 AWG	100 mm² (4/0 AWG)	100 mm²
	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	 	 
		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	 	 
		Quantity	1	1
		Weight (Approx.)	2P: 540g, 3P: 810g, 4P: 1080g	2P: 600g,3P: 870g, 4P: 1140g

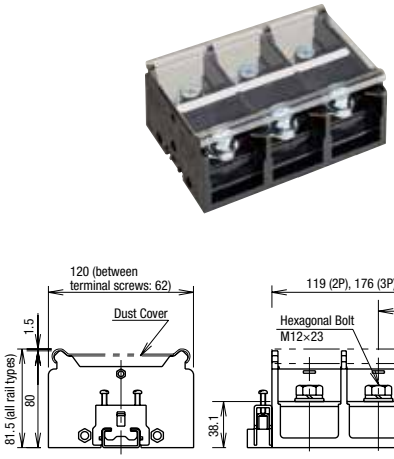
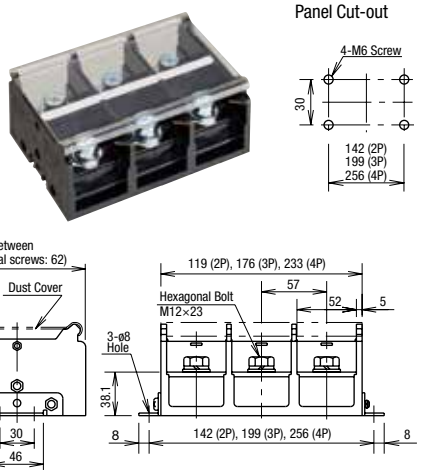
Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V
	Wire Size	300 MCM	150 mm² (300 MCM)	150 mm²	300 MCM	150 mm² (300 MCM)	150 mm²
	Rated Current ∗1	310A	310A	310A	310A	310A	310A
	Terminal Screw ∗2	M10			M10		
	Crimping Terminal	5.5-10 to 150-10			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.
∗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.

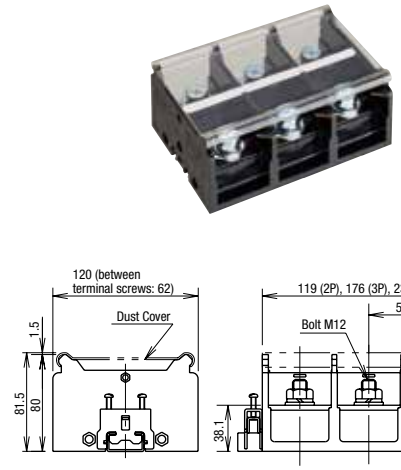
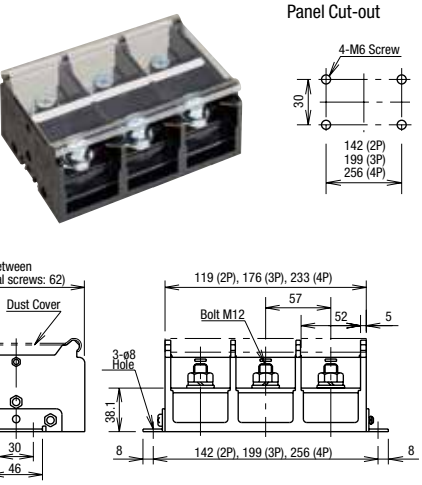
BN-W / BNH-W Series Terminal Blocks

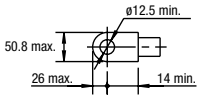
Large Capacity

Screw Terminal

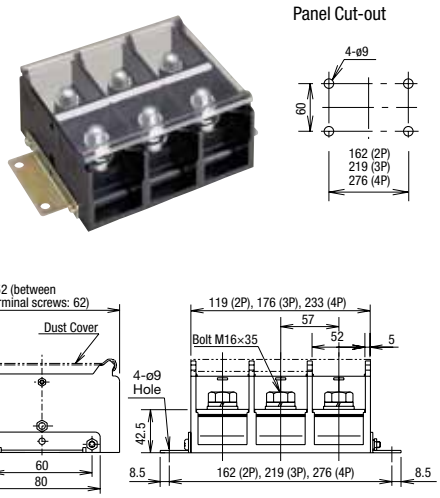
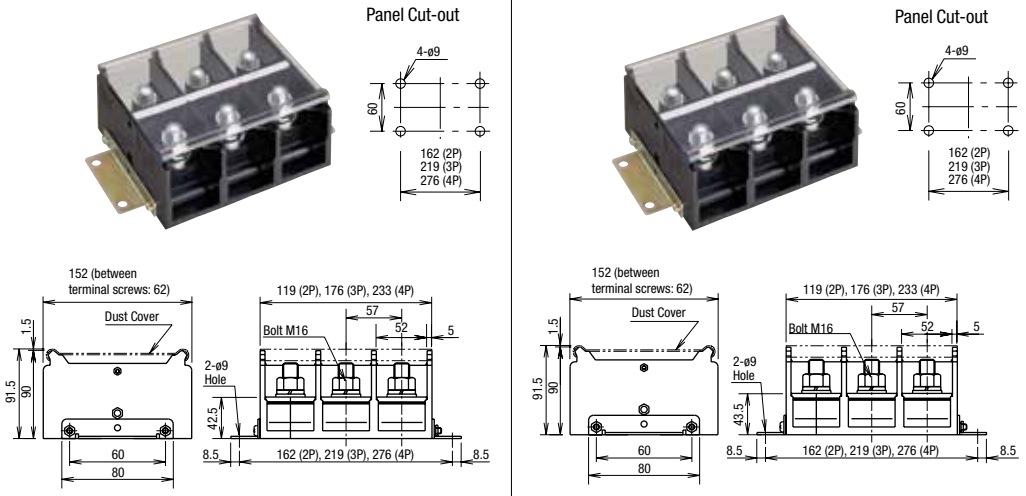
Part no.	BN400BW□ 370A M12	BN400BW□K 370A M12 Surface Mount
Dimensions		
Quantity	1	1
Weight (Approx.)	2P: 950g, 3P: 1400g, 4P: 1860g	2P: 1030g, 3P: 1480g, 4P: 1940g

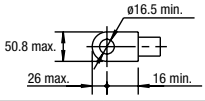
Stud Terminal

Part No.	BN400NW□ 370A M12	BN400NW□K 370A M12 Surface Mount
Dimensions		
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 mm² (400 MCM)	200 mm²	400 MCM	200 mm² (400 MCM)	200 mm²
	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			—		

∗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		—
		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		
		Quantity	1	1
		Weight (Approx.)	2P: 1600g, 3P: 2300g, 4P: 3000g	2P: 1650g, 3P: 2400g, 4P: 3150g

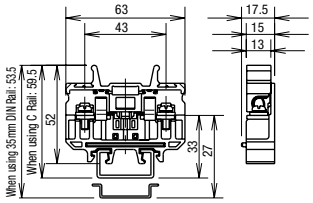
Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V
	Wire Size	500 MCM	240 mm² (500 MCM)	250 mm²	600 MCM	300 mm² (600 MCM)	325 mm²
	Rated Current ∗1	500A	430A	430A	600A	520A	520A
	Terminal Screw ∗2	M16			M16		
	Crimping Terminal	14-16 to 200-16	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.

BN-W / BNH-W Series Terminal Blocks

Screw-in Terminal with Fuse

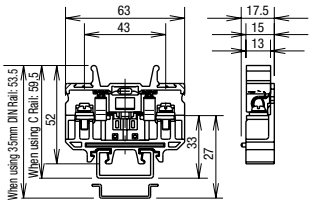
BNF10S-□A — 10A — M4



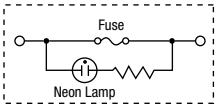
Fuse Ratings
- Rated Voltage: 250V
- Rated Current: 1, 3, 5A
- Cartridge Fuse: JIS C 6575-2 6.35×31.8 mm or 6.40×30.0 mm
- Part No.: BNF10S-1A, BNF10S-3A, BNF10S-5A
- Cartridge used: FGB1 by FUJI Terminal Industry Co., Ltd.

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

BNF10N-□A (With Lamp) — 10A — M4



- Internal Connection



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.

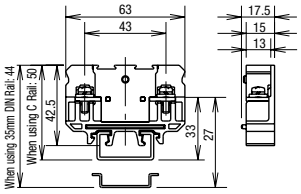
Fuse Ratings
- Rated Voltage: 250V
- Rated Current: 1, 3, 5A
- Cartridge Fuse: JIS C 6575-2 6.35×31.8mm or 6.40×30.0mm
- Part No.: BNF10N-1A, BNF10N-3A, BNF10N-5A

Note: 6.4×30.0mm fuse can also be used.

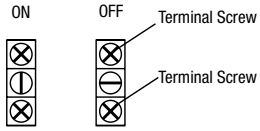
Notes: UL/CSA approved products shown below are not supplied with fuses. When UL/CSA approval is required for fuse terminal blocks, use UL/CSA-rated fuses.
- Part No.: BNF10NW
- Rated Insulation Voltage: 300V
- Rated Current: 10A
- Applicable Wire: 18-10 AWG
- UL File No.: E78117
- CSA File No.: LR64803

Screw-in Terminal with Disconnecting Switch

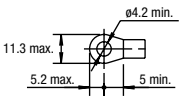
BNT20 — 20A — M4



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.

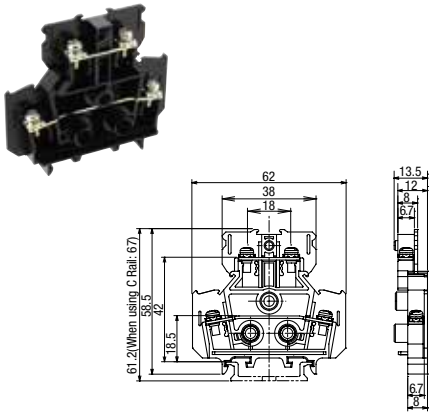
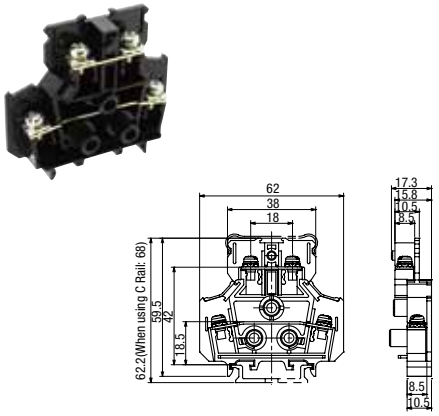
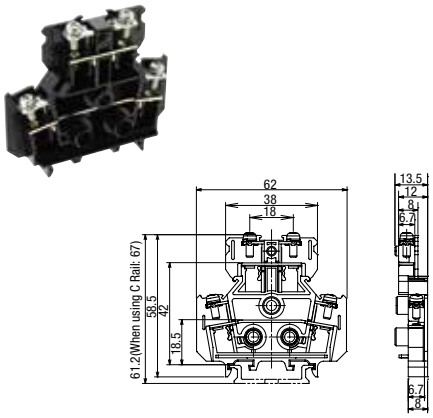
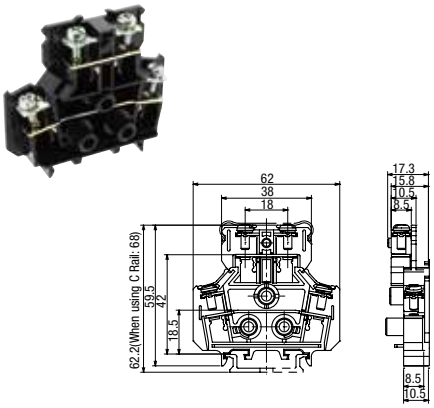


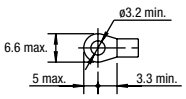
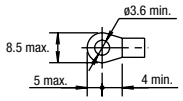
Quantity	20	20	20
Weight (Approx.)	34g	34g	36g

Standards		JIS	JIS
Specification / Ratings	Insulation Voltage	600V	600V
	Wire Size	5.5 mm²	5.5 mm²
	Rated Current	10A max. (depends on fuse rating)	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	—	BNC520
	Marking Strip	—	PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725, BNM725-TK1700
	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: See G-025 for details on accessories.

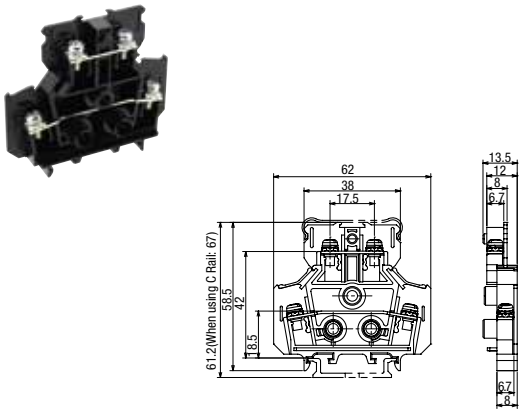
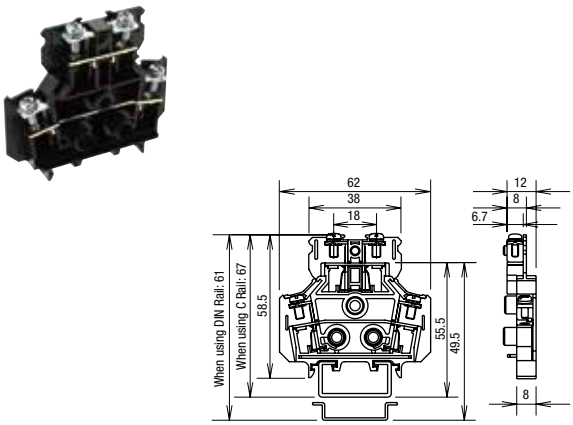
IDEC

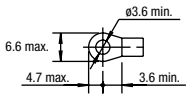
Double-Deck Terminal Block				
Screw-in Terminal	Part No.	BND15W 16A M3	BND15LW 21A M3.5
	Dimensions		
	Quantity	25	25
	Weight (Approx.)	16g	23g
Touch-Down Terminal	Part No.	BNDH15W 16A M3	BNDH15LW 21A M3.5
	Dimensions		
	Quantity	25	25
	Weight (Approx.)	17g	26g

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 mm² (22-14 AWG)	1.25 mm² (*1) (2 mm² max)	22-14 AWG	2 mm² (22-14 AWG)	2 mm²
	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, BNM725-TK1700					
	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					

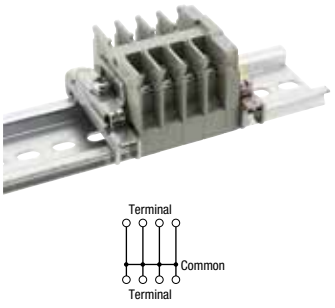
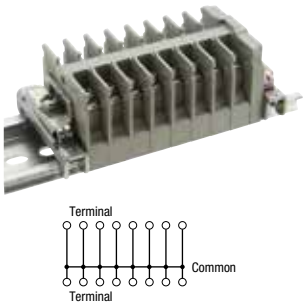
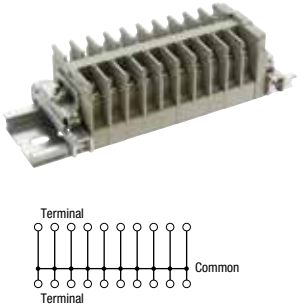
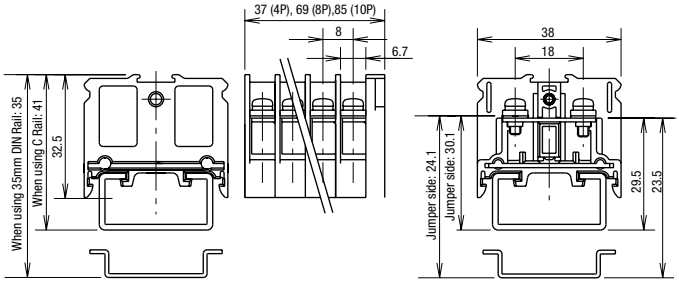
*1: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.
*2: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on G-006.
*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
*4: See G-025 for details on accessories.

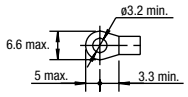
BN-W / BNH-W Series Terminal Blocks

Double-Deck Terminal Block	Screw-in Terminal	Part No.	BND15WT 21A M3.5
		Dimensions	
		Quantity	25
		Weight (Approx.)	17g
	Touch-Down Terminal	Part No.	BNDH15WT 21A M3.5
		Dimensions	
		Quantity	25
		Weight (Approx.)	17g

Standards		UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	800V
	Wire Size	22-14 AWG	2mm² (22-14 AWG)	2 mm²
	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, BNM725-TK1700		
	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		

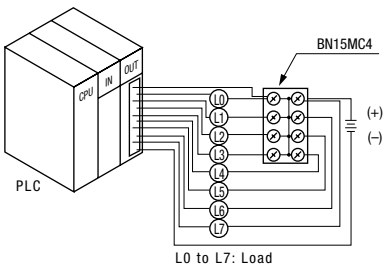
∗1: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.
∗2: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
∗3: See G-025 for details on accessories.

		Part No.	BN15MC4 16A (common current) M3	BN15MC8 16A (common current) M3	BN15MC10 16A (common current) M3
Common Terminal	Screw-in Terminal	No. of Poles	4	8	10
		Shape			
		Dimensions			
		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 mm² (2 mm² 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, BNM725-TK1700
	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-circuted 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

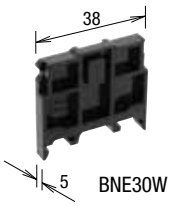
Accessories (End Plate / Rail)

End Plates

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

BNE15W

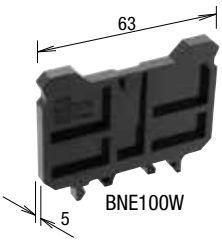
BNE20



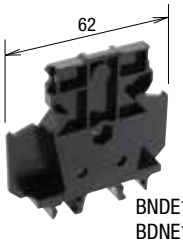
BNE30W

BNE50W

BNE75W



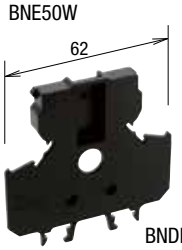
BNE100W



BNDE15W
Upper deck: 5 mm
Lower deck: 9 mm

BDNE15LW
Upper deck: 5 mm
Lower deck: 10.25 mm

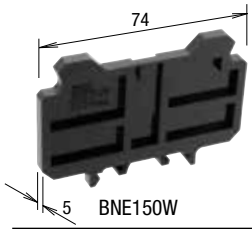
BNDE15W
BDNE15LW



BNDE15W2
Upper deck: 5.5 mm
Lower deck: 1.5 mm

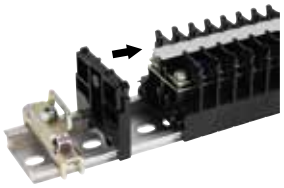
BDNE15LW2
Upper deck: 6.8 mm
Lower deck: 1.5 mm

BNDE15W2
BNDE15LW2



BNE150W

Securing a marking strip with the end plate

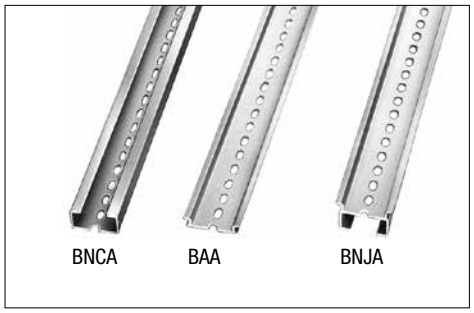


	Part No.	Applicable Terminal Blocks	Thickness (mm)	Weight (Approx.)	Quantity
End Plate	BNE15W	BN10W, BNH10W BN15MW, BNH15MW BN15LW, BNH15LW BN15MWT, BNH15MWT BN15LWT, BNH15LWT	5.0	4g	10
	BNE20	BNT20, BNF10S, BNF10N	3.0	8g	
	BNE30W	BN30W, BNH30W	5.0	4g	
	BNE50W	BN50W, BNH50W	5.0	6g	
	BNE75W	BN75W	5.0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

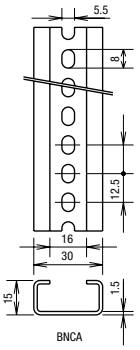
Note: BNDE15W2 and BNDE15LW2 are end plates used for securing marking strips at the end of double deck terminal blocks.

Rails

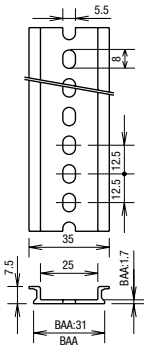
Rails for mounting terminal blocks. Available in three styles.



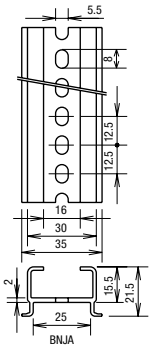
C30 Rail



DIN Rail
35-mm-wide



DIN 35-mm
+ C30 Rail



Approvals:
IEC60715
JIS C 2812

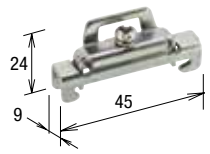
Length	Part No.	Material	Weight (Approx.)	Quantity
1000 mm	BNCA1000	Aluminum	260g	10
	BAA1000	Aluminum	200g	10
	BNJA1000	Aluminum	340g	10

IDEC

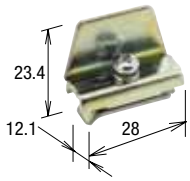
Accessories (End Clip / Rail Mounting Clip / Dust Cover)

End Clips

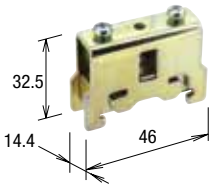
Used to secure the ends of the terminal blocks assembled on the rail.



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



BNL7 (M4 Screw)



BNL8 (M4 Screw) (*3)

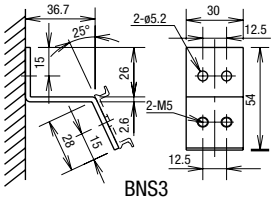
- Material: Steel
- Plating: Trivalent zinc chromate

Part No.	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.)	Quantity
BNL6	BAA	×	× (*2)	—	15.2g	10
BNL7	BNCA, BNCP, BNJA	×	× (*2)	—	16g	10
BNL8	BAA, BNCA, BNCP, BNJA	— (*1)	×	×	56g	10

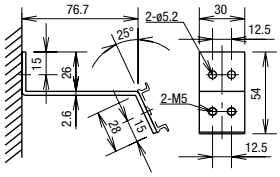
*1: Do not use BNL8 because the insulation distance will be insuffiecient if used.
*2: We recommend you to use BNL8 for secure hold.
*3: Slide the end clip onto the DIN rail.

Rail Mounting Clips

Used to raise the DIN rail from the panel surface.



BNS3



BNS4

Part No.	Weight (Approx.)	Quantity
BNS3	51.3g	10
BNS4	76.2g	10

- Material: Steel
- Plating: Trivalent zinc chromate

Dust Cover

Material: Polycarbonate

BNC230 BNC320 BNC420 BNC520 BAC820 BNC1000 BNC930 BNC240

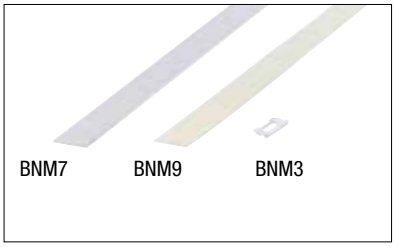
Length	Width (mm)	Part No.	Terminal Blocks (□: No. of Poles)	Weight (Approx.)	Quantity
1m	39.6	BNC230	BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W, BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT	56g	10
	49.6	BNC320	BN50W, BNH50W	64g	10
	54.6	BNC420	BN75W	72g	10
	65	BNC520	BN150W, BN150NW, BNT20,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

Dust Covers for Double Deck Terminal Blocks

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

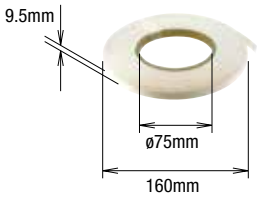
Accessories (Marking Strips / Marking Strip Fastener / Slide Marking Strip)

Marking Strips, Marking Strip Fastener

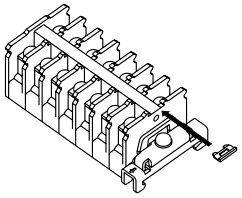


Item	Part No.	Weight (approx.)	Quantity	Specification
Marking Strip	BNM7	7.2g	10	PVC (glossy surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM9	6.4g	10	Fiber glass (matte surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM725-TK1700	—	1	PVC (glossy surface) 25 m × 9.5 mm × 0.5 mm
	BNM725	—	1	PVC (matte surface) 25 m × 9.5 mm × 0.5 mm
Marking Strip Fastener	BNM3	0.1g	50	

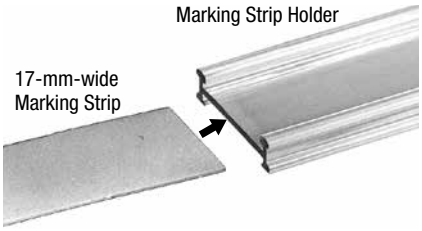
Note: BNM7, BNM725-TK1700 (slick surface) recommended when printing using printers.



• 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

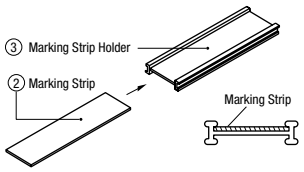
Terminal Block
BN10W to BN15LWT
BN30W

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

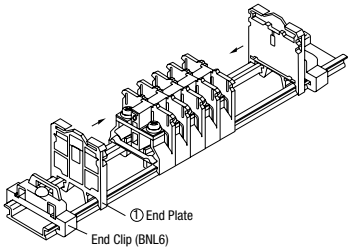
Note: Length 1000 mm × Width 9.5 mm × Thickness 0.5 mm

Installing the Sliding Marking Strip

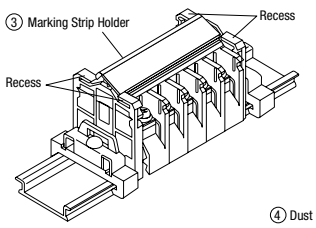
1. Insert the marking strip into the groove of the top of the marking strip holder.



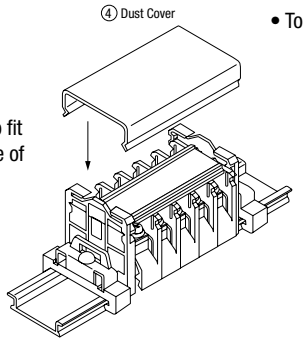
2. Installing the end plate
Attach the end plates to the terminal blocks and secure with end clips.



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

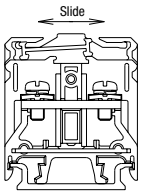


4. Press the dust cover to fit onto the bottom groove of the end plate.



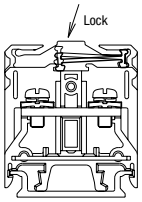
Movement

• Sliding movement of the marking strip holder



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

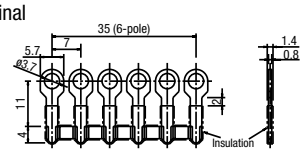
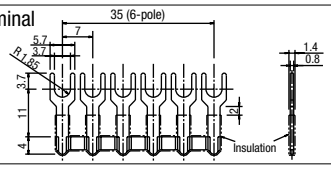
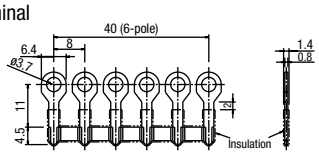
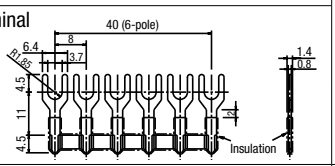
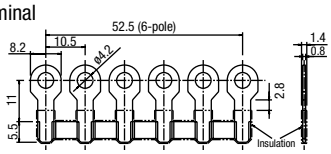
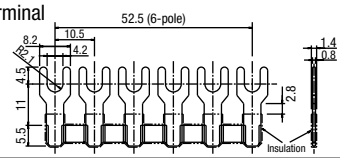
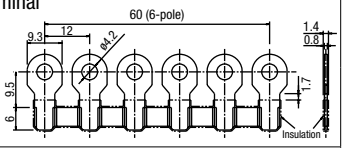
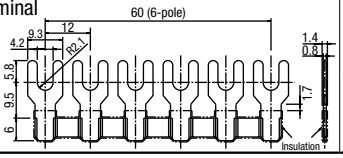
• To lock the marking strip holder



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

Accessories (Jumper)

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

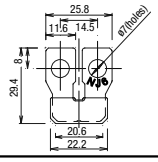
Part No.	Terminal Centers	Insulation	Dimensions	Current (Note 1, 2)	Applicable Terminal Block	Weight (Approx.)	Quantity
BNJ16	7 mm	Without	Ring Terminal 	10A	BN10W BNH10W	2.8g	10
BNJ16B		With					10
BNJ16F		Without	Fork Terminal 			2.7g	10
BNJ16FB		With					10
BNJ26W	8 mm	Without	Ring Terminal 	20A	BN15MW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

• Insulation color: Black, Insulation material: PVC

Note 1: Ensure that the total current to the jumper does not exceed the maximum current.

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

Jumper for 2 poles

Part No.	Terminal Centers	Insulation	Dimensions	Current (Note 1, 2)	Applicable Terminal Block	Quantity
BNJ62	14.5 mm	Without	Ring Terminal 	80A	BN50W BNH50W	10
BNJ62B		With				

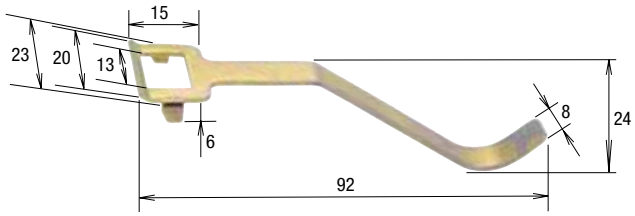
• Material: nickel-coated brass

• Sheath: PVC

Note 1: Ensure that the total current to the jumper does not exceed the maximum current.

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.

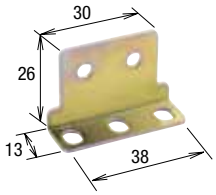
Part No.	Weight (Approx.)	Quantity
BND2	8.6g	1

- 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.	Applicable Terminal Block	Weight (Approx.)	Quantity
BNDL2	BND15W, BNDH15W BND15WT, BNDH15WT BND15LW, BNDH15LW	14.3g	10

- Material: Steel
- Plating: Zinc

Connecting Rods

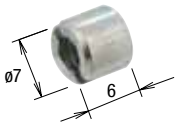
Part No.	Applicable Terminal Block	Weight (Approx.)	Dimensions (mm)	Quantity
BNR1	BND15W, BNDH15W BND15WT, BNDH15WT BND15LW, BNDH15LW	21g	265 mm (M4×0.7)	10
BNR2		43g	500 mm (M4×0.7)	10

- Material: Steel
- Plating: Zinc

Connecting Nuts

M4×0.7 Hex Nut

M4×0.7 Round Nut



Part No.	Applicable Terminal Block	Weight (Approx.)	Quantity
BNN1	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

$L_1 = 12.5 \times N$

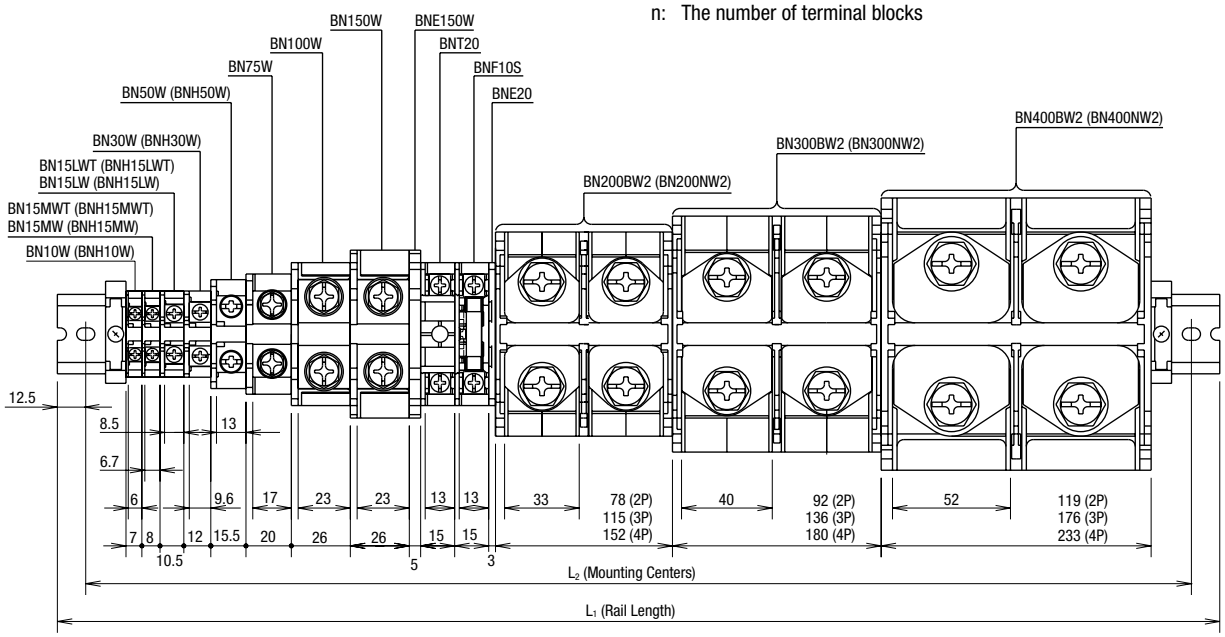
$L_2 = L_1 - 25$

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.

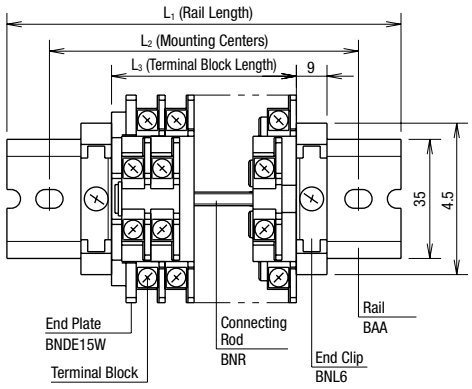
N: Rounded up numerical number from the calculated value of M. (Example: N for 19.1 is 20)

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

A: Thickness of each terminal block
B: Thickness of end plate
C: Thickness of end clip when using 2 pieces of:
BNL6 = 56.0 mm
BNL7 = 62.5 mm
BNL8 = 67.0 mm
n: The number of terminal blocks



Rail Length (Double-Deck)



Calculating the length (mm)

Part No.	BND15W BNDH15W BND15WT	BND15LW BNDH15LW
L1 (∗1)	12.5 × N	
L2 (∗1)	$L_1 - 25$	
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)

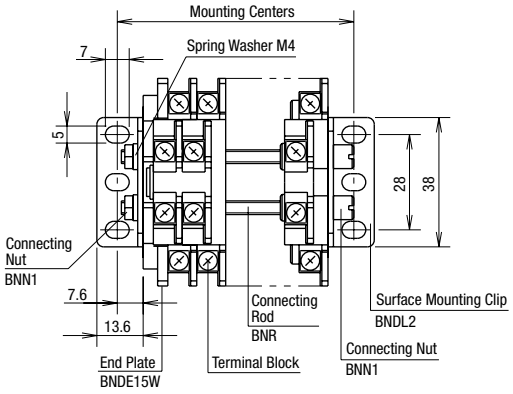
For BND15W, BNDH15W, BND15WT

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

For BND15LW, BNDH15LW

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

Mounting Centers (Double-Deck)



Calculating the length (mm)

Part No.	BND15W BNDH15W BND15WT	BND15LW BND15HLW
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

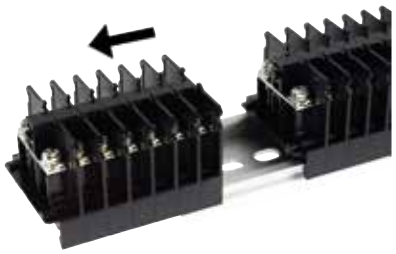
∗1: This formula is for calculating the maximum rail length including tolerance. Depending on the combination of terminal blocks, the required rail length may be shorter than the calculated value, particluarly when many terminal blocks are combined.
∗2: The length will be 1.5 mm longer when end plates BNDE15W2 and BNDE15LW2 are used.

Instructions

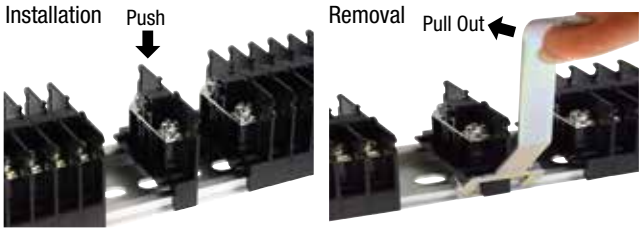
How to Use Touch-Down Terminals

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



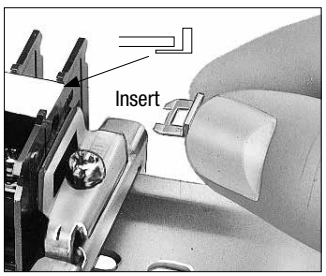
Additional Installation and Removal (on DIN Rail)



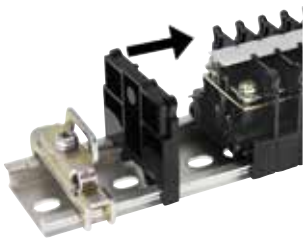
Notes: The following terminal blocks can be added or removed:
BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W, BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT

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

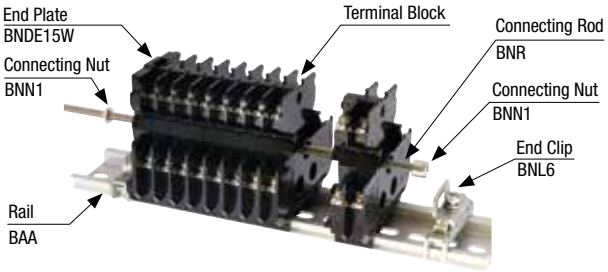


Installing End Plate

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

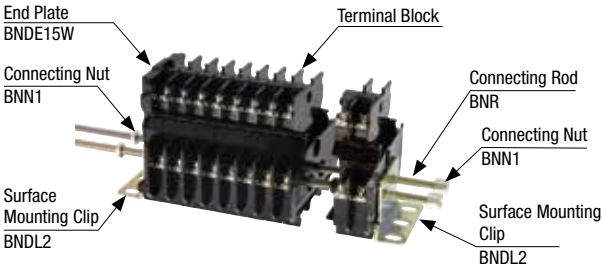
Installation of Double-Deck Terminal Blocks (BND)

Rail Mount (photo: when using BND15W, BNDH15W, BNDE15W)



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 (photo: when using BND15W, BNDH15W, BNDE15W)

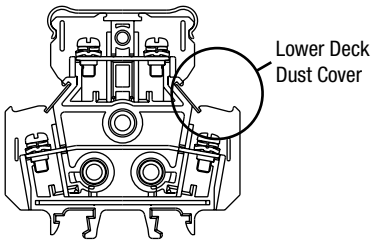


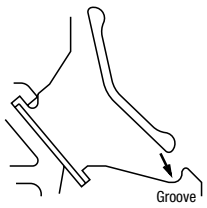
1. Assemble a row of terminal blocks with end plates on exposed ends.
2. Use BNDL2 mounting clips at both ends of a row.
3. With the two holes of the mounting clip (BNDL2) aligned with the terminal block holes, insert a connecting rod (BNR) through each hole.
4. Secure the ends of the connecting rods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

Instructions

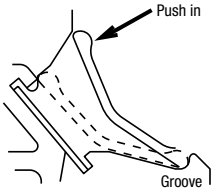
Dust Covers on the Lower Deck Terminal of Double-Deck Terminal Blocks

Installing Dust Covers on Lower Deck Terminals





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

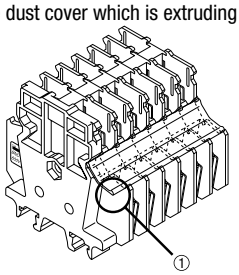


2. With the lower end of the dust cover pressed into the groove, push in the top end in the direction of the arrow.

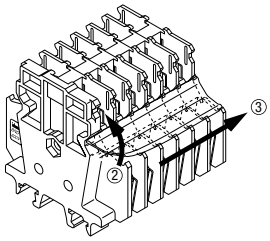
Removing Dust Covers from Lower Deck Terminals

Turn the power off before removing the dust cover.

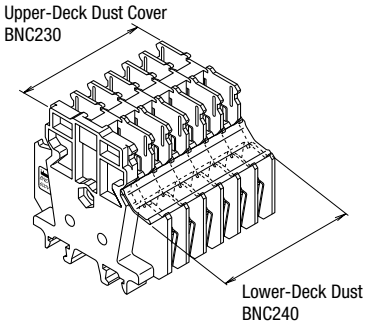
1. Hold the end of the dust cover which is extruding from the end plate.



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

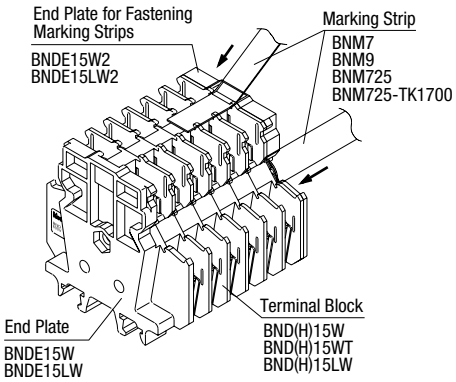


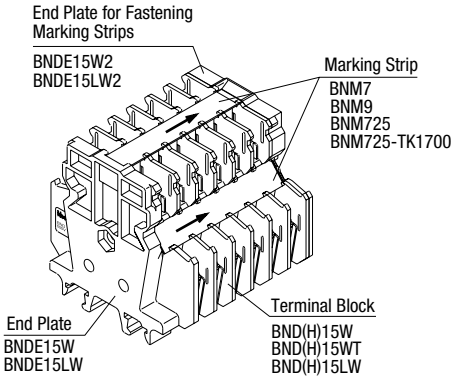
Cut required length depending on the number of terminal blocks used. (Length in mm)

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.





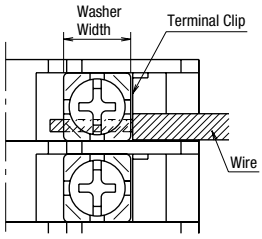
Notes on Wiring

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

The above content assumes transactions and usage within your region. Please consult with an IDEC sales representative regarding transactions and usage outside of your region. Also, IDEC provides no guarantees whatsoever regarding IDEC products sold outside your region.

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