

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.

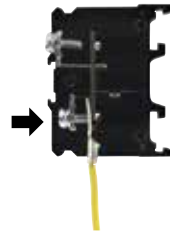
Touch-down terminal blocks reduce wiring time. (BNH-W/BNDH-W Series)

1. Insert the Crimping Terminal



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

2. Push the Screw Down



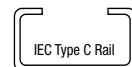
Push the screw down to temporarily hold the wire in place.

3. Tighten the Screw



The screws can be tightened easily with a pneumatic screwdriver.

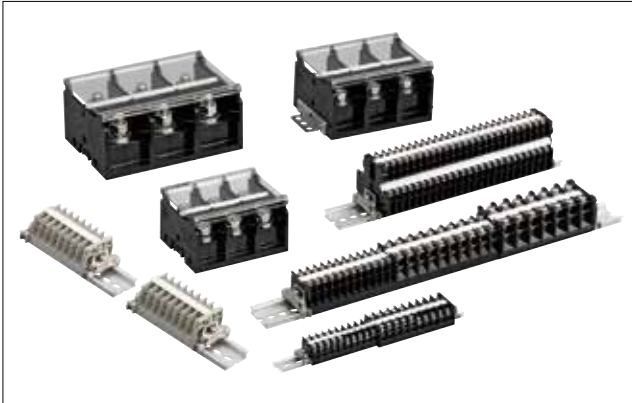
- Molded from UL94V-0 material with excellent flame and shock resistance.
- Terminal blocks can be mounted on a 35-mm-wide DIN rail and 30-mm-wide IEC type C rail.



- 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 281.1.

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 [mm ² /(AWG)]	Voltage/Current	Wire Size (mm ²)		
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
Large Capacity	BN50W	BNH50W	600V/60A	16-6	660V/67A	14/(16-6)	800V/70A	14	M5	2.6 to 3.7
	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	
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 □.

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

BN-W / BNH-W Series Terminal Blocks

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	
			BN15MW	BN15MWP50	1.25 (2) (Note)	M3	8	50	G-012
		21A	BN15LW	BN15LWPN50	2	M3.5	10.5	50	G-013
			BN15MWT	BN15MWTPN50	2	M3.5	8	50	
			BN15LWT	BN15LWTPN50	3.5	M4	10.5	50	
			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	
			BNH15MW	BNH15MWP50	1.25 (2) (Note)	M3	8	50	G-012
		21A	BNH15LW	BNH15LWPN50	2	M3.5	10.5	50	G-013
			BNH15MWT	BNH15MWTPN50	2	M3.5	8	50	
			BNH15LWT	BNH15LWTPN50	3.5	M4	10.5	50	
		40A	BNH30W	BNH30WPN50	5.5	M4	12	50	G-014
		70A	BNH50W	BNH50WPN20	14	M5	15.5	20	
Large Capacity (Rail Mount)									
Screw	1-pole	94A	BN75W	BN75WPN10	22	M6	20	10	G-015
		132A	BN100W	BN100WPN05	38	M8	26	5	
		175A	BN150W	BN150WPN05	60	M8	26	5	G-016
			BN150NW	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
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					

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	
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	G-023
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.

BN-W / BNH-W Series Terminal Blocks




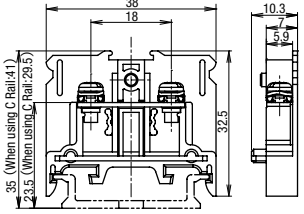
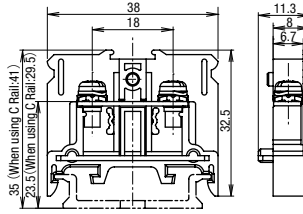
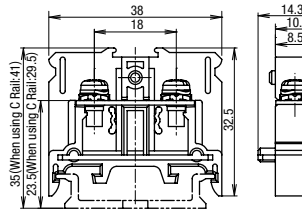



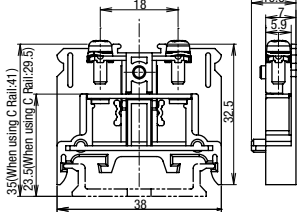
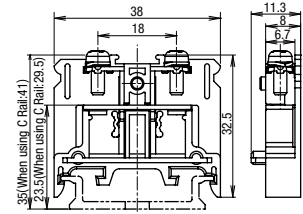
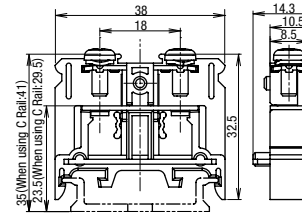
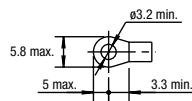
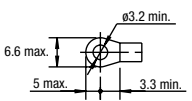
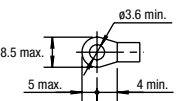
Accessories

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

X: Necessary

O: Optional

		Accessories (X: Necessary)														
		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		
APEM	Terminal	Part No.														
Switches & Pilot Lights	Standard	16A to 40A Screw-in Touch-Down	BN10W, BN15MW, BN15LW, BN15MWT, BN15LWT, BN30W	X	X	X	O	O	O	O	O	O	—	—	—	
Control Boxes		70A Screw-in Touch-Down	BNH10W, BNH15MW, BNH15LW, BNH15MWT, BNH15LWT, BNH30W	X	X	X	O	O	O	O	—	O	—	—	—	
Emergency Stop Switches		70A Screw-in Touch-Down	BN50W, BNH50W	X	X	X	O	O	O	—	O	—	—	—	—	
Enabling Switches	Large Capacity	Rail Mount 1-Pole 94A to 175A	BN75W, BN100W, BN150W, BN150NW	X	X	X	O	O	O	—	—	—	—	—	—	
Safety Products		Rail Mount 240A to 370A	BN200BW□, BN300BW□, BN400BW□ BN200NW□, BN300NW□, BN400NW□	—	X	X	—	Supplied	Supplied	—	—	—	—	—	—	
Explosion Proof		Surface Mount 240A to 520A	BN200BW□K, BN300BW□K, BN400BW□K BN200NW□K, BN300NW□K, BN400NW□K BN500BW□K, BN500NW□K, BN600NW□K	—	—	—	—	Supplied	Supplied	—	—	—	—	—	—	
Terminal Blocks	With Disconnecting Switch	BNT20		X	X	X	O	O	O	—	—	—	—	—	—	
Relays & Sockets	With Fuse	BNF10S-□A, BNF10N-□A		X	X	X	O	—	O	O	—	—	—	—	—	
Circuit Protectors	Double-Deck	BND15W, BND15LW, BNDH15W, BNDH15LW, BND15WT, BNDH15WT		X	X *1	X *1	O	O	O	—	O	—	X *2	X	X	
Power Supplies	Common Terminal	BN15MC□		—	X	X	—	O	O	O	—	—	—	—	—	
LED Illumination				G-025		G-026		G-027		G-028	G-029					
Controllers				Page												
Operator Interfaces	*1: Accessory not necessary for surface mounting.															
Sensors	*2: Accessory not necessary for rail mounting.															
AUTO-ID	Specify the number of poles in place of □.															


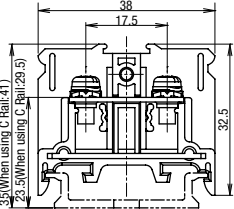
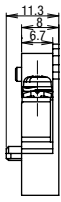

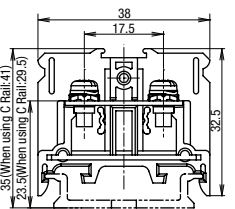
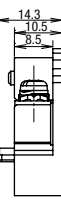

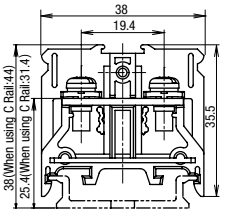

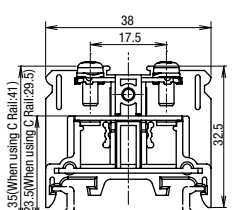
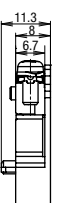

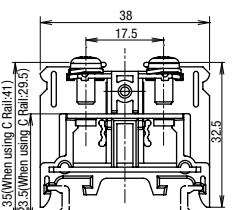
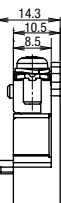

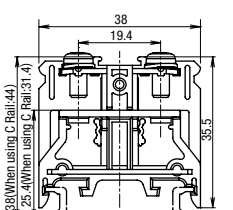
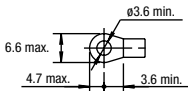
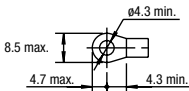
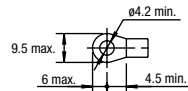
Standard		Screw-in Terminal			Touch-Down Terminal					
		Part No.	☆ BN10W 16A M3	☆ BN15MW 16A M3	☆ BN15LW 21A M3.5	☆ BNH10W 16A M3	☆ BNH15MW 16A M3	☆ BNH15LW 21A M3.5		
Dimensions										
										
	Ordering No.	BN10WPN50			BN15MWPN50			BN15LWPN50		
	Package Quantity	50			50			50		
Weight (Approx.)	5.5g			6.5g			6.5g			
Dimensions										
										
	Ordering No.	BNH10WPN50			BNH15MWPN50			BNH15LWPN50		
	Package Quantity	50			50			50		
Weight (Approx.)	6.5g			7g			7.5g			
Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS	UL/CSA	EN	JIS	
	Insulation Voltage	600V	660V	800V	600V	660V	800V	600V	660V	630V
	Wire Size	22-16 AWG	1.25 mm ² (22-16 AWG)	1.25 mm ²	22-14 AWG	2 mm ² (22-14 AWG)	1.25 mm ² (*1) (2mm ² max)	22-14 AWG	2 mm ² (22-14 AWG)	2 mm ²
	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										
	End Plate	BNE15W								
	Dust Cover	BNC230								
Accessories *4	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).

- APEM
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BN

BN-W / BNH-W Series Terminal Blocks

Standard	Part No.	☆ BN15MWT	21A	M3.5	☆ BN15LWT	30A	M4	☆ BN30W	40A	M4
		Dimensions								
Ordering No.		BN15MWT PN50			BN15LWT PN50			BN30W PN50		
Package Quantity		50			50			50		
Weight (Approx.)		9g			9.5g			13g		
Standard	Part No.	☆ BNH15MWT	21A	M3.5	☆ BNH15LWT	30A	M4	☆ BNH30W	40A	M4
		Dimensions								
Ordering No.		BNH15MWT PN50			BNH15LWT PN50			BNH30W PN50		
Package 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 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 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 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		
Standards		UL/CSA	EN	JIS	
Specification / Ratings	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.

*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).

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BN

BN-W / BNH-W Series Terminal Blocks

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

Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS	
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.



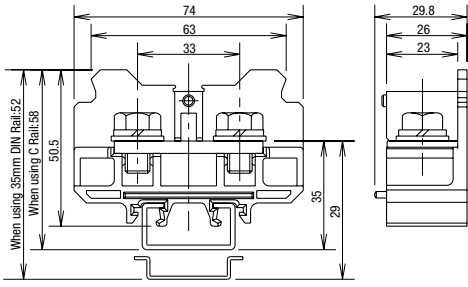
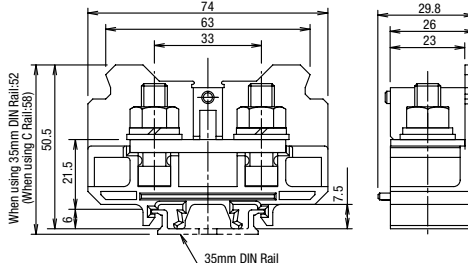
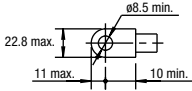
*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

*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).

Part No.		BN150W 175A M8			BN150NW 175A M8		
Large Capacity Screw Terminal	Dimensions						
							
	Ordering No.	BN150WPN05			BN150NWP05		
	Packaging 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 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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BN

BN-W / BNH-W Series Terminal Blocks

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		
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
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				
	Stud Terminal	Part no.	BN300NW□	310A	M10	BN300NW□K	310A	M10	Surface Mount	
		Dimensions								
		Package Quantity	1				1			
	Weight (Approx.)	2P: 540g, 3P: 810g, 4P: 1080g				2P: 600g, 3P: 870g, 4P: 1140g				
	Specification / Ratings	Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS		
		Insulation Voltage	600V	660V	800V	600V	660V	800V		
Wire Size		300 MCM	150 mm 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.
 *3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
 *4: See G-025 for details on accessories.
 Specify the number of poles in place of □. 2-pole: 2, 3-pole: 3, 4-pole: 4.

- APEM
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BN

BN-W / BNH-W Series Terminal Blocks

Part no.	BN400BW□ 370A M12			BN400BW□K 370A M12 Surface Mount		
	Dimensions					
Package Quantity	1			1		
Weight (Approx.)	2P: 950g, 3P: 1400g, 4P: 1860g			2P: 1030g, 3P: 1480g, 4P: 1940g		
Part No.	BN400NW□ 370A M12			BN400NW□K 370A M12 Surface Mount		
Dimensions						
Package Quantity	1			1		
Weight (Approx.)	2P: 980g, 3P: 1460g, 4P: 1930g			2P: 1060g, 3P: 1540g, 4P: 1990g		
Standards	UL/CSA	EN	JIS	UL/CSA	EN	JIS
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			—	

*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.


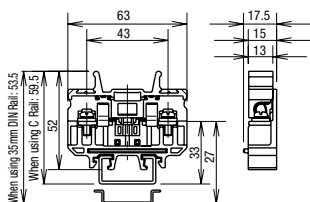



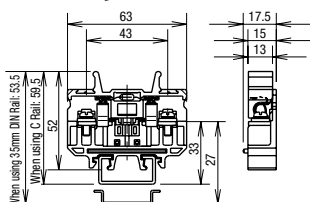


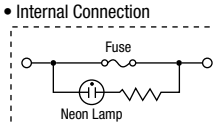

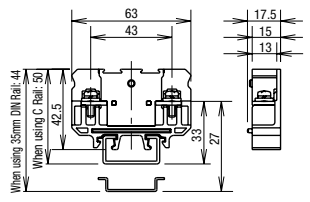


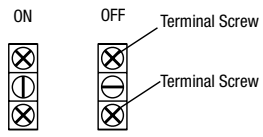
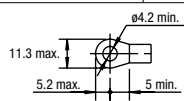
Large Capacity Surface Mount	Screw Terminal	Part No	BN500BW□K	430A	M16	Surface Mount	—		
		Dimensions							
		Package Quantity	1						
		Weight (Approx.)	2P: 1550g, 3P: 2250g, 4P: 2950g						
		Part No.	BN500NW□K	430A	M16	Surface Mount	BN600NW□K	520A	M16
	Stud Terminal	Dimensions							
		Package Quantity	1						
		Weight (Approx.)	2P: 1600g, 3P: 2300g, 4P: 3000g						
		Package Quantity	1						
		Weight (Approx.)	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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BN

BN-W / BNH-W Series Terminal Blocks

	BNF10S-□A 10A M4	BNF10N-□A (With Lamp) 10A M4	BNT20 20A M4
Screw-in Terminal with Fuse	    <p>Fuse Ratings</p> <ul style="list-style-type: none"> 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. <p>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.</p> <ul style="list-style-type: none"> Part No.: BNF10SW Rated Insulation Voltage: 600V Rated Current: 10A Applicable Wire: 18-10 AWG UL File No.: E78117 CSA File No.: LR64803 	    <p>• Internal Connection</p>  <p>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.</p> <p>Fuse Ratings</p> <ul style="list-style-type: none"> 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.: BNF10N-1A, BNF10N-3A, BNF10N-5A <p>Note: 6.4×30.0mm fuse can also be used.</p> <p>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.</p> <ul style="list-style-type: none"> Part No.: BNF10NW Rated Insulation Voltage: 300V Rated Current: 10A Applicable Wire: 18-10 AWG UL File No.: E78117 CSA File No.: LR64803 	    <p>Notes:</p> <ul style="list-style-type: none"> Rated Current: 20A This terminal block cannot be used as a disconnect switch. When switching on/off, make sure that voltage is not applied. <p>ON OFF Terminal Screw</p> 
	Screw-in Terminal with Disconnecting Switch		
Ordering No.	BNF10S-□APN20	BNF10N-□APN20	BNT20PN20
Package Quantity	20	20	20
Weight (Approx.)	34g	34g	36g
Standards	JIS		JIS
Specification / Ratings	Insulation Voltage	600V	
	Wire Size	5.5 mm ²	
	Rated Current	10A max.	
	Terminal Screw	M4	
	Crimping Terminal	1.25-4 to 5.5-4	
	Max. No. of Crimping Terminals	2	
	Tightening Torque	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		


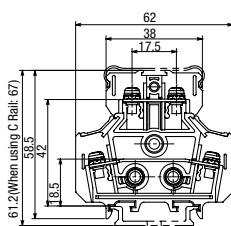
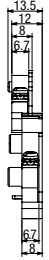

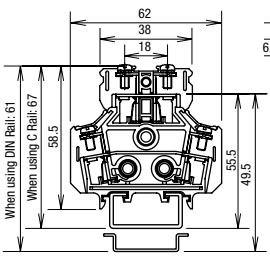
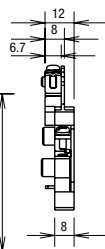
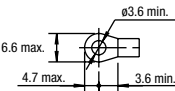
*1: See G-025 for details on accessories.

Double-Deck Terminal Block	Screw-in Terminal	Part No.	BND15W 16A M3			BND15LW 21A M3.5		
		Dimensions						
		Ordering No.	BND15WPN25			BND15LWPN25		
		Package Quantity	25			25		
		Weight (Approx.)	16g			23g		
	Touch-Down Terminal	Part No.	BNDH15W 16A M3			BNDH15LW 21A M3.5		
		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								
	<p>End Plate: BNDE15W/BNDE15W2</p> <p>Dust Cover: Upper Deck: BNC230, Lower Deck: BNC240</p> <p>Marking Strip: PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725</p> <p>Marking Strip Fastener: BNM3</p> <p>Surface Mounting Clip: BNDL2</p> <p>Connecting Rod/Connecting Nut: Connecting Rod: BNR1, BNR2, Connecting Nut: BNN1</p> <p>DIN Rail/End Clip: Aluminum: BAA1000, Steel: BNL6</p> <p>C Rail/End Clip: Aluminum: BNCA1000, Steel: BNL7</p> <p>DIN+C Rail/End Clip: Aluminum: BNJA1000, Steel: BNL6/BNL7</p>							

*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.

- 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

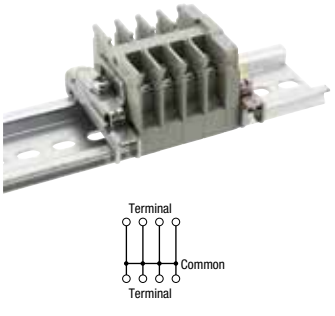
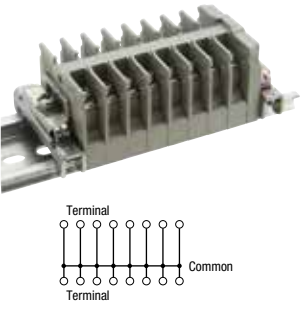
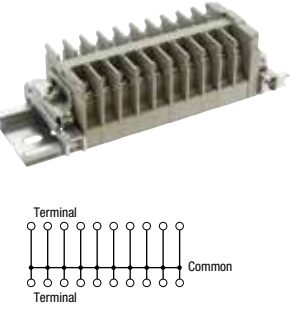
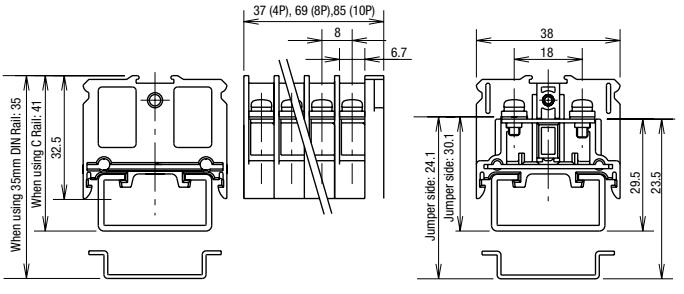
BN-W / BNH-W Series Terminal Blocks

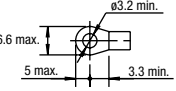
		Part No.	BND15WT	21A	M3.5		
Screw-in Terminal	Dimensions	  					
		Ordering No.	BND15WTPN25				
		Package Quantity	25				
		Weight (Approx.)	17g				
Touch-Down Terminal	Dimensions	  					
		Ordering No.	BNDH15WTPN25				
		Package Quantity	25				
		Weight (Approx.)	17g				
Standards	Insulation Voltage	UL/CSA	600V	EN	660V	JIS	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.

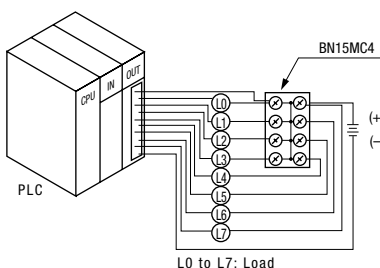
*3: See G-025 for details on accessories.

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

Standards		JIS
Specification / Ratings	Insulation Voltage	600V
	Wire Size	1.25 mm 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



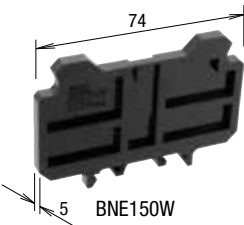
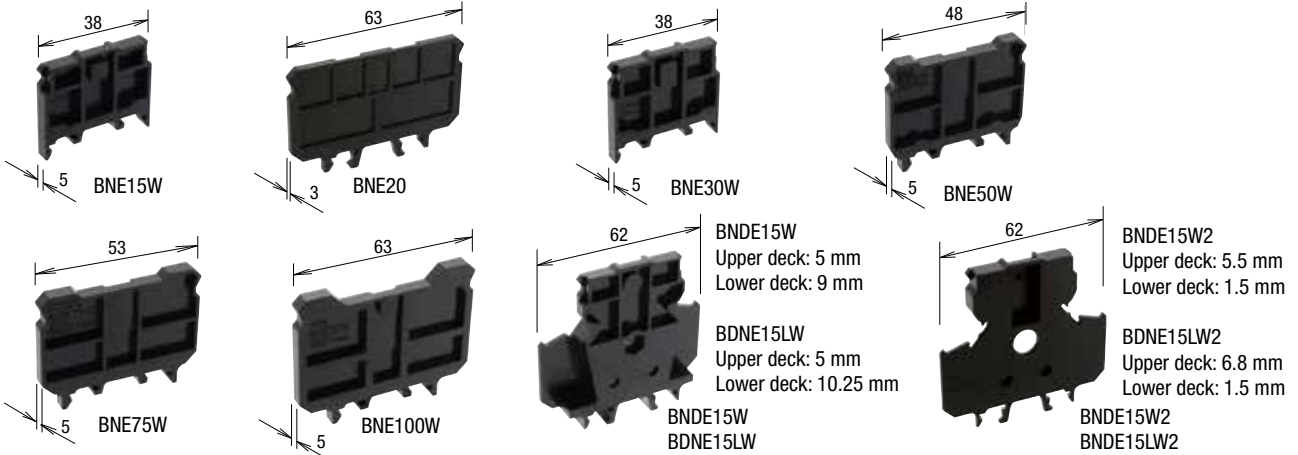
Features

- 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

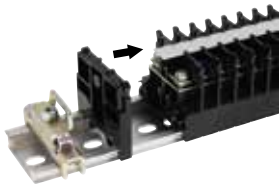
Accessories (End Plate / Rail)

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

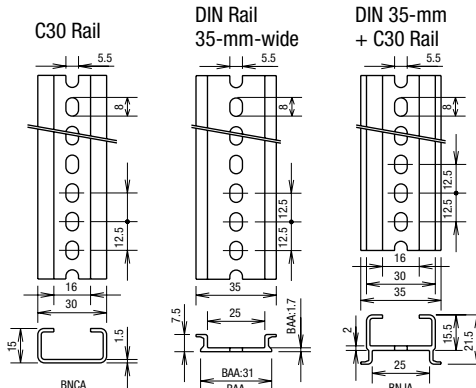
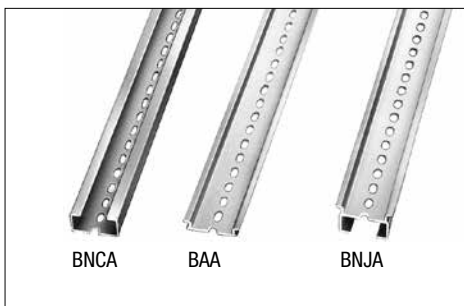


	Part No.	Ordering No.	Applicable Terminal Blocks	Thickness (mm)	Weight (Approx.)	Package Quantity
End Plate	BNE15W	BNE15WPN10	BN10W, BNH10W BN15MW, BNH15MW BN15LW, BNH15LW BN15MWT, BNH15MWT BN15LWT, BNH15LWT	5.0	4g	10
	BNE20	BNE20PN10	BNT20, BNF10S, BNF10N	3.0	8g	
	BNE30W	BNE30WPN10	BN30W, BNH30W	5.0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



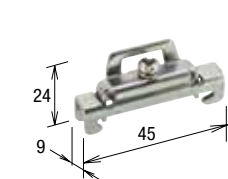
Approvals:
IEC60715
JIS C 2812

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

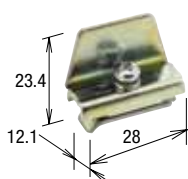
Accessories (End Clip / Rail Mounting Clip / Dust Cover)

End Clips

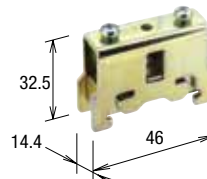
Used to secure the ends of the terminal blocks assembled on the rail.



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



BNL7 (M4 Screw)



BNL8 (M4 Screw) (*3)

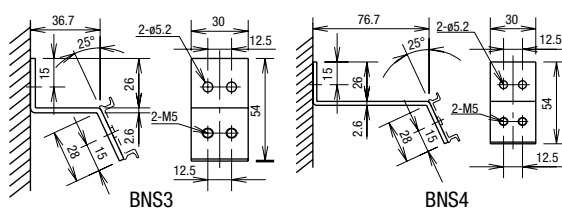
- Material: Steel
- Plating: Trivalent zinc chromate

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	×	× (*2)	—	15.2g	10
BNL7	BNL7PN10	BNCA, BNCP, BNJA	×	× (*2)	—	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.

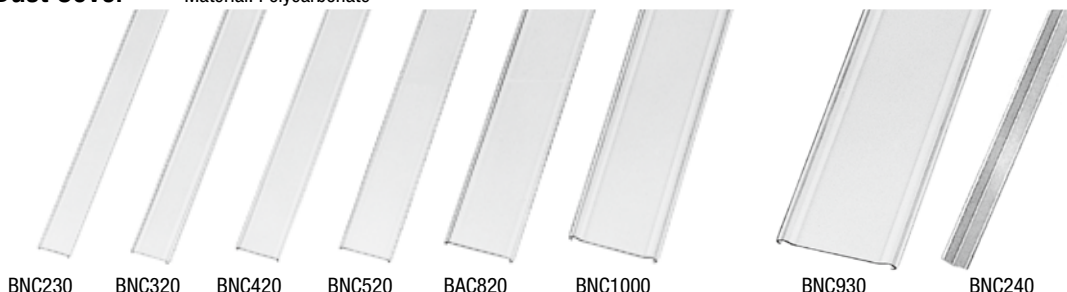


Part No.	Ordering No.	Weight (Approx.)	Package Quantity
BNS3	BNS3PN10	51.3g	10
BNS4	BNS4PN10	76.2g	10

- Material: Steel
- Plating: Trivalent zinc chromate

Dust Cover

Material: Polycarbonate



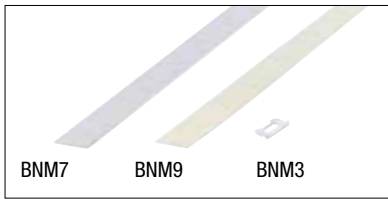
Length	Width (mm)	Part No.	Ordering No.	Terminal Blocks (□: No. of Poles)	Weight (Approx.)	Package Quantity
1m	39.6	BNC230	BNC230PN10	BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W, BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT	56g	10
	49.6	BNC320	BNC320PN10	BN50W, BNH50W	64g	10
	54.6	BNC420	BNC420PN10	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	BND15W, BNDH15W, BND15LW, BNDH15LW, BND15WT, BNDH15WT	15g	10

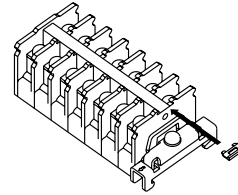
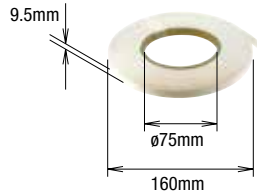
Accessories (Marking Strips / Marking Strip Fastener / Slide Marking Strip)

Marking Strips, Marking Strip Fastener

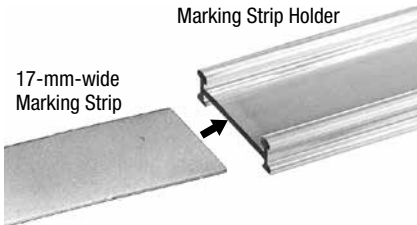


Item	Part No.	Ordering No.	Weight (approx.)	Package Quantity	Specification
Marking Strip	BNM7	BNM7PN10	7.2g	10	PVC (glossy surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM9	BNM9PN10	6.4g	10	Fiber glass (matte surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM725	BNM725	—	1	PVC (matte surface) 25 m × 9.5 mm × 0.5 mm
Marking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

- To install the marking strip fastener



Sliding Marking Strip (BN10W to BN30W)



17-mm-wide marking strip

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

End plate (Thickness 5 mm)
BNES15W
BNES30W



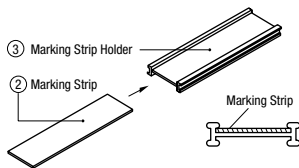
Terminal Block
BN10W to BN15LWT
BN30W

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		PVC (Note)	10
③ Marking Strip Holder	BNMH1	BNMH1PN10	BN10W to BN15LWT BN30W	1m	10
④ Dust Cover	BNCS230	BNCS230PN10		1m	10

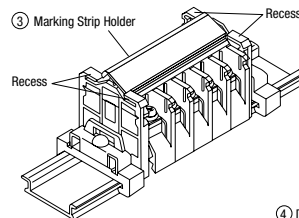
Note: Length 1000 mm × Width 9.5 mm × Thickness 0.5 mm

Installing the Sliding Marking Strip

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

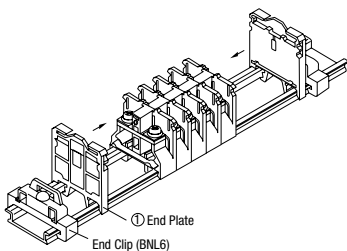


3. Insert the marking strip holder into the recess of the end plate.

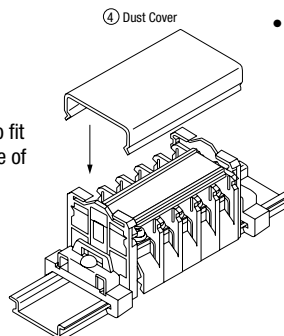


2. Installing the end plate

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

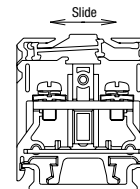


4. Press the dust cover to fit onto the bottom groove of the end plate.



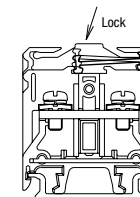
Movement

- Sliding movement of the marking strip holder



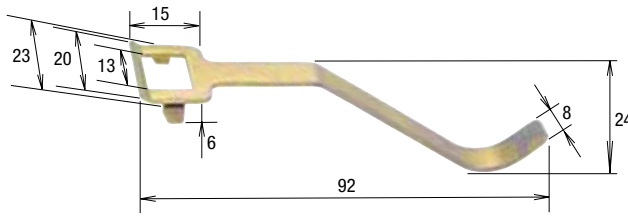
When sliding the marking strip holder, slide by holding both edges of the holder.

- To lock the marking strip holder



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

Accessories (Removal Tool)



A tool for removing terminal blocks from the DIN rail.

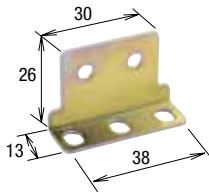
Part No.	Weight (Approx.)	Package Quantity
BND2	8.6g	1

- 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

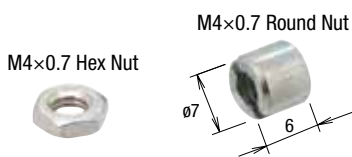
Connecting Rods



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

- 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

Calculating Rail Lengths and Mounting Centers

• BNCA, BAA, and BNJA Rails

$$L_1 = 12.5 \times N$$

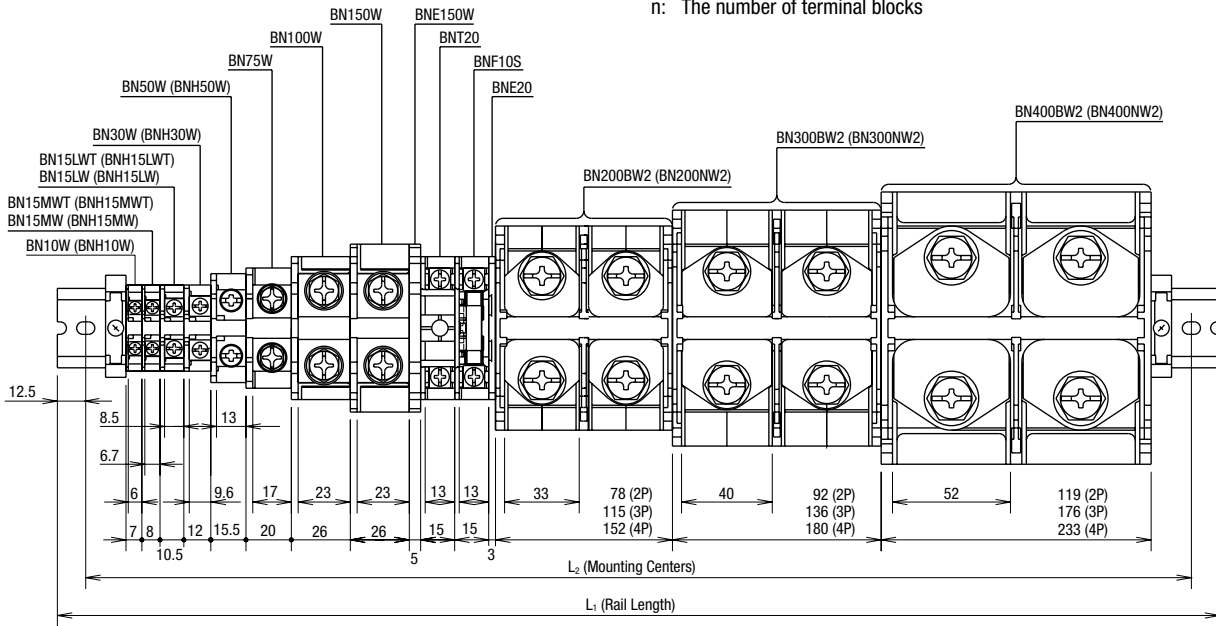
$$L_2 = L_1 - 25$$

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.

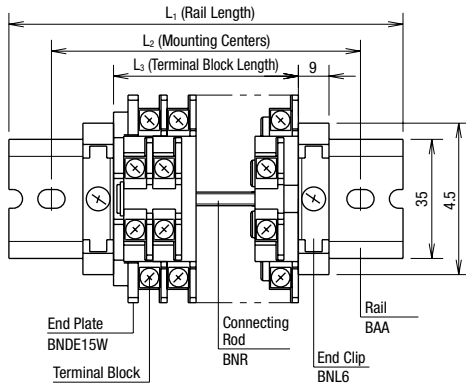
N: Rounded up numerical number from the calculated value of M. (Example: N for 19.1 is 20)

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

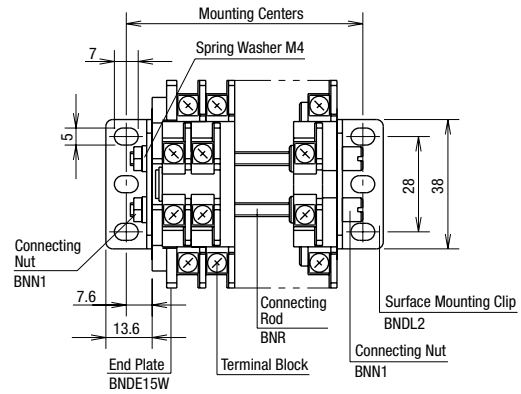
- A: Thickness of each terminal block
- B: Thickness of end plate
- C: Thickness of end clip when using 2 pieces of:
 - BNL6 = 56.0 mm
 - BNL7 = 62.5 mm
 - BNL8 = 67.0 mm
- n: The number of terminal blocks



Rail Length (Double-Deck)



Mounting Centers (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

For BND15LW, BNDH15LW

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

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

Calculating the length (mm)

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

n: The number of terminal blocks

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

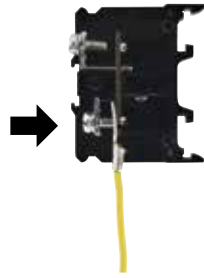
*2: The length will be 1.5 mm longer when end plates BNDE15W2 and BNDE15LW2 are used.

Instructions

How to Use Touch-Down Terminals



1. With the terminal screws in the up position, insert a ring crimping terminal.



2. Push down the head of the screw lightly to hold the crimping terminal.

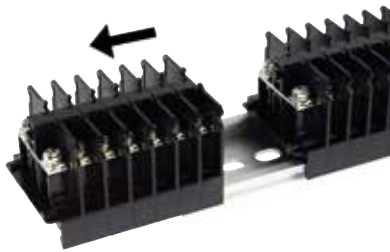


3. When the wiring is in position, tighten all the screws simultaneously.

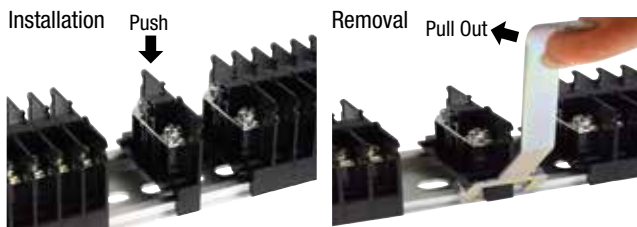


4. To remove the wiring, loosen the screw and lightly push up.

Installation and Removal on Rails



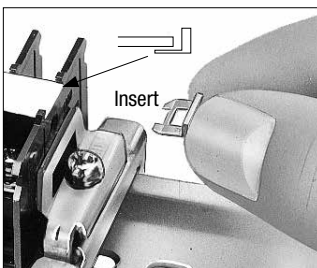
Additional Installation and Removal (on DIN Rail)



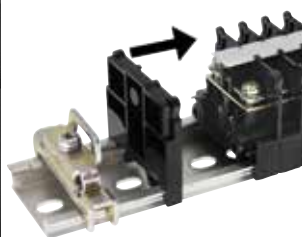
Notes: The following terminal blocks can be added or removed:
BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W,
BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT

Securing the Ends of the Marking Strip

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



To Secure the Marking Strip

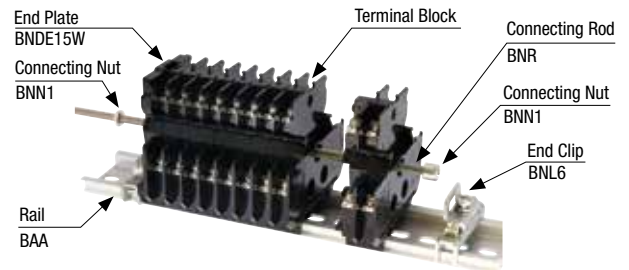


Installing End Plate

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

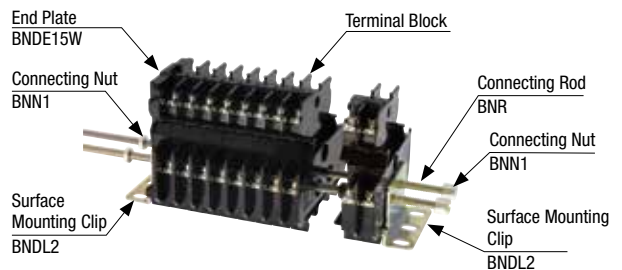
Installation of Double-Deck Terminal Blocks (BND)

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



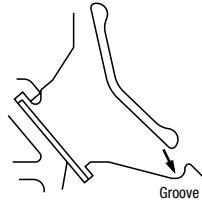
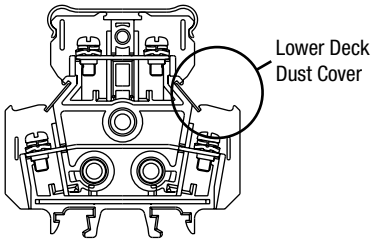
1. Assemble a row of terminal blocks with end plates on exposed ends.
2. Use BNDL2 mounting clips at both ends of a row.
3. With the two holes of the mounting clip (BNDL2) aligned with the terminal block holes, insert a connecting rod (BNR) through each hole.
4. Secure the ends of the connecting rods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

- 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

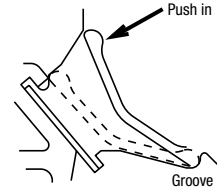
Instructions

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.

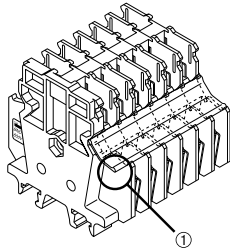


2. With the lower end of the dust cover pressed into the groove, push in the top end in the direction of the arrow.

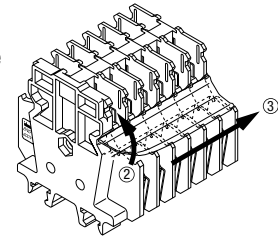
Removing Dust Covers from Lower Deck Terminals

Turn the power off before removing the dust cover.

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

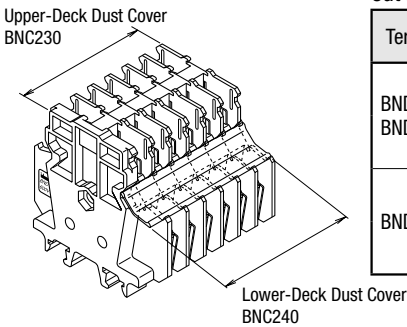


2. Lift up in the direction of the arrow.
3. If the dust cover cannot be removed all at once, place fingers between the terminal block and dust cover, and slowly remove the dust cover.



Length of Double-Deck Dust Covers

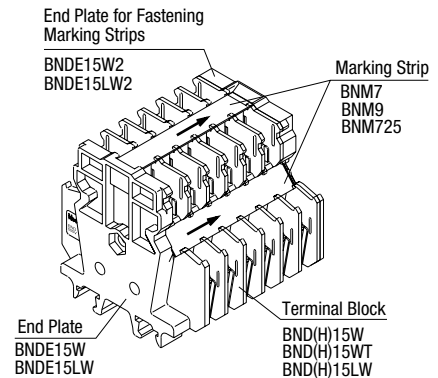
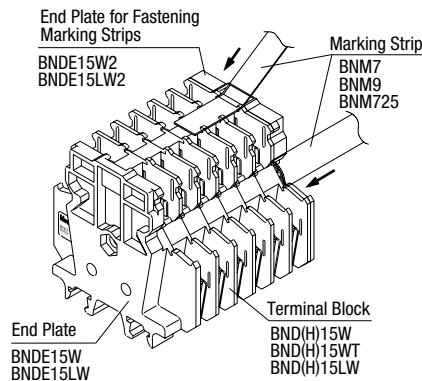
Cut required length depending on the number of terminal blocks used. (Length in mm)



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.



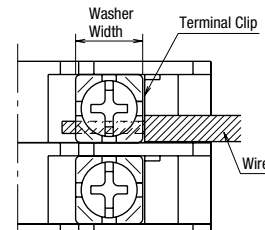
Notes on Wiring

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

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