Terminal Blocks

BN-W
BNH-W Series

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

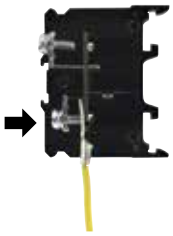
• See website for details on approvals and standards.

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

1. Insert the Crimping Terminal

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

2. Push the Screw Down

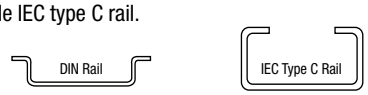


Push the screw down to temporarily hold the wire in place.

3. Tighten the Screw

The screws can be tightened easily with a pneumatic screwdriver.

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

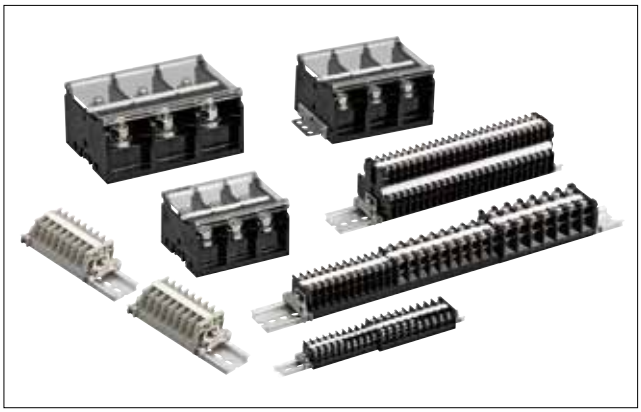


- 9.5-mm-wide marking strips can be used on all models. 17-mm-wide sliding type marking strips also available. (BN10W to BN30W)
- Terminal blocks of different shapes and capacities can be installed without using an end plate. (BN/BNH10W to BN/BNH30W)
- Screw and stud terminals available for large capacity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

For more information, visit http://asia.idec.com

BN-W / BNH-W Series Terminal Blocks

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



General Ratings

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

Material

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

Ratings/Terminal Screw Tightening Torque

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

∗1: Ratings approved by TÜV based on EN60947-7-1.
∗2: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected. The wire size in ( ) does not comply with JIS standards.
∗3: Part No. with ★ is UL recognized for field wiring (FW2).
Specify the number of poles in place of □.

Terminal Blocks

Terminal Style			Part No.	Ordering No.	Applicable Wire (mm^2)	Terminal Screw	Width (mm)	Package Quantity	Page
Standard									
Self-Lifting	1-pole	16A	**BN10W**	BN10WPN50	1.25	M3	7	50	G-012
			BN15MW	BN15MWPN50	1.25 (2) (Note)	M3	8	50	
		21A	**BN15LW**	BN15LWPN50	2	M3.5	10.5	50	
			BN15MWT	BN15MWTPN50	2	M3.5	8	50	G-013
		30A	**BN15LWT**	BN15LWTPN50	3.5	M4	10.5	50	
		40A	**BN30W**	BN30WPN50	5.5	M4	12	50	
		50A	**BN40W**	BN40WPN20	8	M5	14	20	G-014
		70A	**BN50W**	BN50WPN20	14	M5	15.5	20	
Touch-Down	1-pole	16A	**BNH10W**	BNH10WPN50	1.25	M3	7	50	G-012
			BNH15MW	BNH15MWPN50	1.25 (2) (Note)	M3	8	50	
		21A	**BNH15LW**	BNH15LWPN50	2	M3.5	10.5	50	
			BNH15MWT	BNH15MWTPN50	2	M3.5	8	50	G-013
		30A	**BNH15LWT**	BNH15LWTPN50	3.5	M4	10.5	50	
		40A	**BNH30W**	BNH30WPN50	5.5	M4	12	50	
		50A	**BNH40W**	BNH40WPN20	8	M5	14	20	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	G-017
	3-pole		**BN200NW3**	BN200NW3					
	4-pole		**BN200NW4**	BN200NW4					
	2-pole	310A	**BN300NW2**	BN300NW2	150	M10	44	1	G-018
	3-pole		**BN300NW3**	BN300NW3					
	4-pole		**BN300NW4**	BN300NW4					
	2-pole	370A	**BN400NW2**	BN400NW2	200	M12	57	1	G-019
	3-pole		**BN400NW3**	BN400NW3					
	4-pole		**BN400NW4**	BN400NW4					

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

For more information, visit http://asia.idec.com

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	
	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	
			BNF10N-☐	BNF10N-☐APN20					
Double-Deck Terminal Block									
Self-Lifiting	16A	1-pole	**BND15W**	BND15WPN25	1.25 (2)*	M3	8	25	G-022
Touch-Down			**BNDH15W**	BNDH15WPN25					
Self-Lifting	21A	1-pole	**BND15LW**	BND15LWPN25	2	M3.5	8	25	
Touch-Down			**BNDH15LW**	BNDH15LWPN25					
Self-Lifting	21A	1-pole	**BND15WT**	BND15WTPN25	2	M3.5	12	25	G-023
Touch-Down			**BNDH15WT**	BNDH15WTPN25					
Common Terminal									
Self-Lifting Type 16A (Common Current)		4-pole	**BN15MC4**	BN15MC4PN10	1.25 (2)*	M3	8	10	G-024
		8-pole	**BN15MC8**	BN15MC8PN10					
		10-pole	**BN15MC10**	BN15MC10PN10					

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

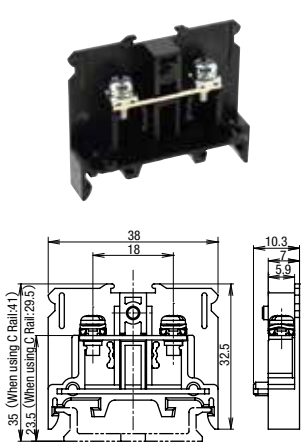
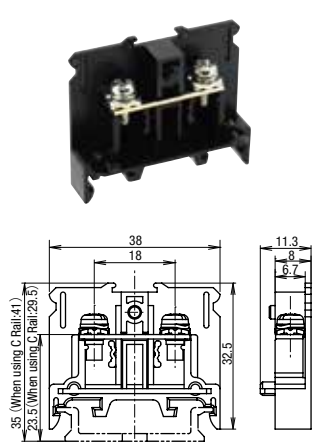
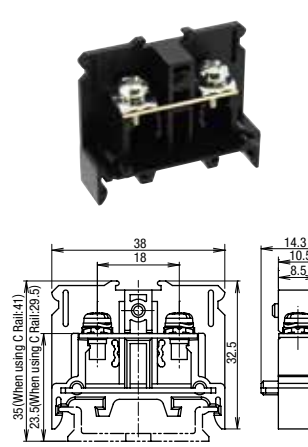
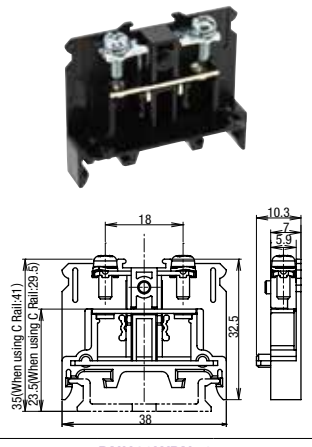
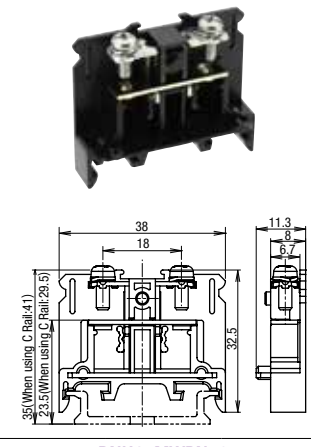
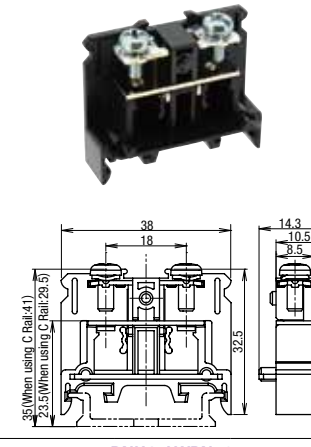
Accessories

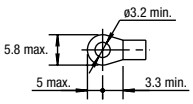
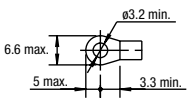
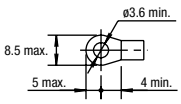
When ordering accessories, check if the accessories are necessary by referring to the table.
×: Necessary
○: Optional

Terminal		Part No.	Accessories (×: 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
Standard	16A to 40A Self-Lifting Touch-Down	**BN10W, BN15MW, BN15LW, BN15MWT, BN15LWT, BN30W**	×	×	×	○	○	○	○	○	○	○	—	—	—
		BNH10W, BNH15MW, BNH15LW, BNH15MWT, BNH15LWT, BNH30W	×	×	×	○	○	○	○	—	○	○	—	—	—
	50A to 70A Self-Lifting Touch-Down	**BN40W, BN50W, BNH40W, BNH50W**	×	×	×	○	○	○	○	—	○	—	—	—	—
Large Capacity	Rail Mount 1-Pole 94A to 175A	**BN75W, BN100W, BN150W, BN150NW**	×	×	×	○	○	○	○	—	—	—	—	—	—
	Rail Mount 240A to 370A	**BN200BW□, BN300BW□, BN400BW□ BN200NW□, BN300NW□, BN400NW□**	—	×	×	—	Supplied	Supplied	—	—	—	—	—	—	—
	Surface Mount 240A to 520A	**BN200BW□K, BN300BW□K, BN400BW□K BN200NW□K, BN300NW□K, BN400NW□K BN500BW□K, BN500NW□K, BN600NW□K**	—	—	—	—			—	—	—	—	—	—	—
With Disconnecting Switch		**BNT20**	×	×	×	○	○	○	○	—	—	—	—	—	—
With Fuse		**BNF10S-□A, BNF10N-□A**	×	×	×	○	—	○	○	—	—	—	—	—	—
Double-Deck		**BND15W, BND15LW, BNDH15W, BNDH15LW, BND15WT, BNDH15WT**	×	× *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 □.

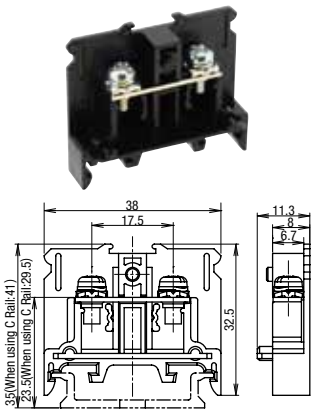
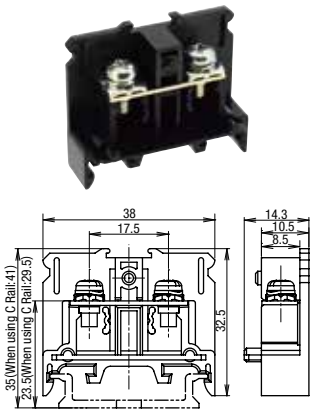
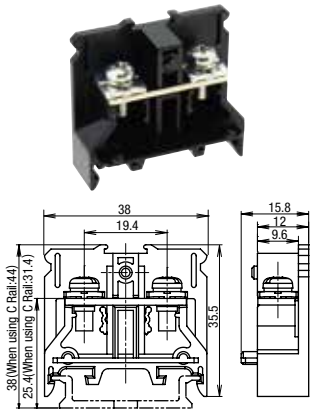
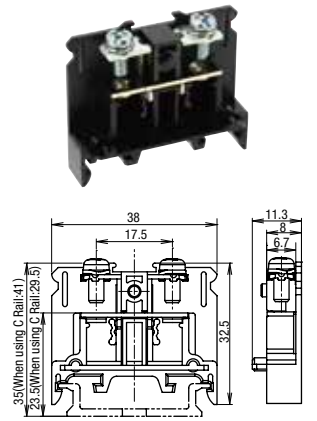
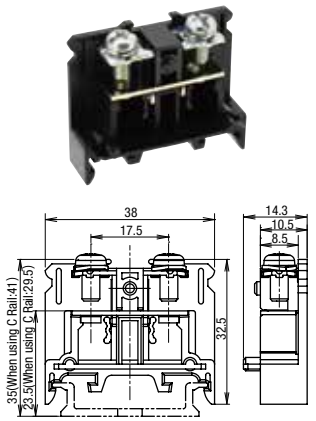
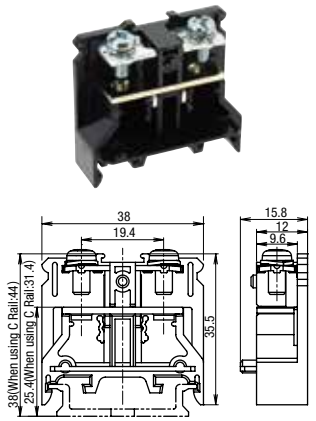
For more information, visit http://asia.idec.com

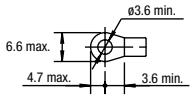
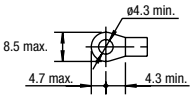
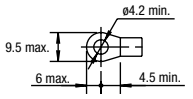
Standard	Self-Lifting Terminal	Part No.	BN10W 16A M3	BN15MW 16A M3	BN15LW 21A M3.5
		Dimensions			
		Ordering No.	BN10WPN50	BN15MWPN50	BN15LWPN50
		Package Quantity	50	50	50
		Weight (Approx.)	6.5g	7.3g	10g
	Touch-Down Terminal	Part No.	BNH10W 16A M3	BNH15MW 16A M3	BNH15LW 21A M3.5
		Dimensions			
		Ordering No.	BNH10WPN50	BNH15MWPN50	BNH15LWPN50
		Package Quantity	50	50	50
		Weight (Approx.)	7.5g	8.2g	11.2g

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 ∗1	22-16 AWG	1.25 mm² (22-16 AWG)	1.25 mm²	22-14 AWG	2 mm² (22-14 AWG)	1.25 mm² (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								
	Marking Strip Fastner	BNM3								
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BAP1000/BNL6								
	C Rail/End Clip	Aluminum: BNCA1000/BNL7								
	DIN + C Rail/End Clip	Aluminum: BNJA1000/BNL6, BNL7								

∗1: The wire size in ( ) does not comply with JIS standards.
∗2: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.
∗3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
∗4: See G-025 for details on accessories.

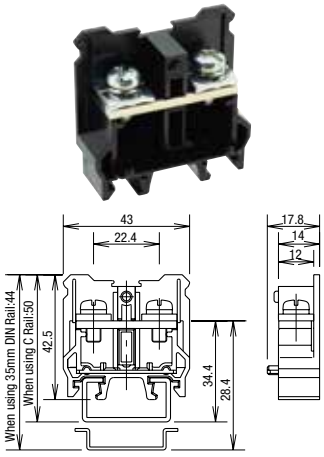
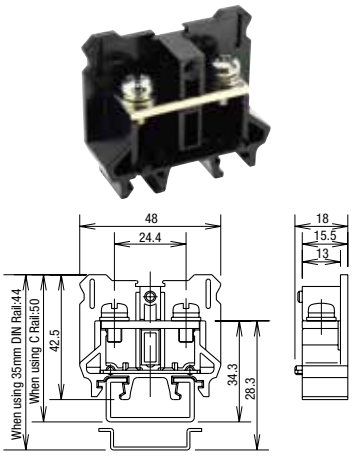
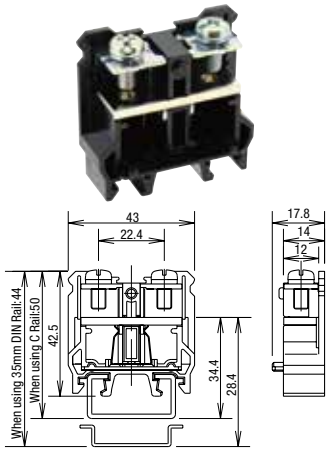
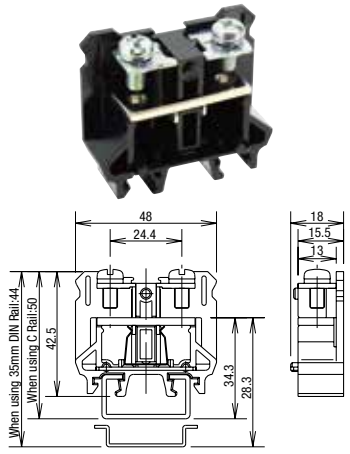
BN-W / BNH-W Series Terminal Blocks

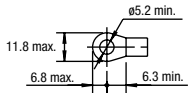
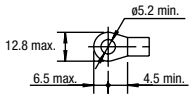
Standard	Self-Lifting Terminal	Part No.	BN15MWT 21A M3.5	BN15LWT 30A M4	BN30W 40A M4
		Dimensions			
		Ordering No.	BN15MWTPN50	BN15LWTPN50	BN30WPN50
		Package Quantity	50	50	50
		Weight (Approx.)	7g	10g	15.6g
	Touch-Down Terminal	Part No.	BNH15MWT 21A M3.5	BNH15LWT 30A M4	BNH30W 40A M4
		Dimensions			
		Ordering No.	BNH15MWTPN50	BNH15LWTPN50	BNH30WPN50
		Package Quantity	50	50	50
		Weight (Approx.)	8g	11g	16.8g

Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS	UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	630V	600V	660V	630V
	Wire Size ∗1	22-14 AWG	2 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 ∗2	15A	22A	21A	30A	22A	30A	35A	38A	40A
	Terminal screw	M3.5			M4			M4		
	Crimping Terminal	1.25-3.5 to 2-3.5			1.25-4 to 3.5-4			1.25-4 to 5.5-4		
	Max. No. of Crimping Terminals	2			2			2		
	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) ∗3										
Accessories ∗4	End Plate	BNE15W						BNE30W		
	Dust Cover	BNC230						BNC230		
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/725								
	Marking Strip Fastner	BNM3								
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BAP1000/BNL6								
	C Rail/End Clip	Aluminum: BNCA1000/BNL7								
	DIN + C Rail/End Clip	Aluminum: BNJA1000/BNL6, BNL7								

∗1: The wire size in ( ) does not comply with JIS standards.
∗2: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.
∗3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
∗4: See G-025 for details on accessories.

For more information, visit http://asia.idec.com

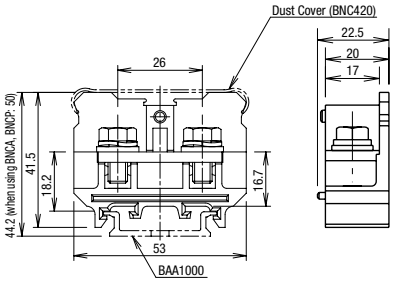
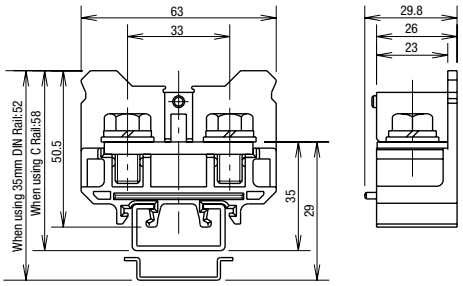
Standard	Self-Lifting Terminal	Part No.	BN40W 50A M5	BN50W 70A M5
		Dimensions		
		Ordering No.	BN40WPN20	BN50WPN20
		Package Quantity	20	20
		Weight (Approx.)	25g	25.4g
	Touch-Down Terminal	Part No.	BNH40W 50A M5	BNH50W 70A M5
		Dimensions		
		Ordering No.	BNH40WPN20	BNH50WPN20
		Package Quantity	20	20
		Weight (Approx.)	25g	29g

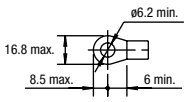
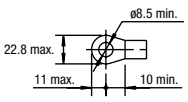
Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	630V	600V	660V	800V
	Wire Size *1	16-8 AWG	8 mm² (16-8 AWG)	8 mm²	16-6 AWG	14 mm² (16-6 AWG)	14 mm²
	Rated Current *2	40A	50A	50A	60A	67A	70A
	Terminal screw	M5			M5		
	Crimping Terminal	1.25-5 to 8-5			1.25-5 to 14-5		
	Max. No. of Crimping Terminals	2			2		
	Tightening Torque	2.6 to 3.7 N·m			2.6 to 3.7 N·m		
Crimping Terminal Dimensions (mm) *3							
Accessories *4	End Plate	BNE40W			BNE50W		
	Dust cover	BNC330			BNC320		
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/725					
	Marking Strip Fastner	BNM3					
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BAP1000/BNL6			Aluminum: BAA1000, Steel: BAP1000/BNL8		
	C Rail/End Clip	Aluminum: BNCA1000/BNL7			Aluminum: BNCA1000/BNL8		
	DIN + C Rail/End Clip	Aluminum: BNJA1000/BNL6, BNL7			Aluminum: BNJA1000/BNL8		

*1: The wire size in ( ) does not comply with JIS standards.
*2: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on G-006.
*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
*4: See G-025 for details on accessories.

BN-W / BNH-W Series Terminal Blocks

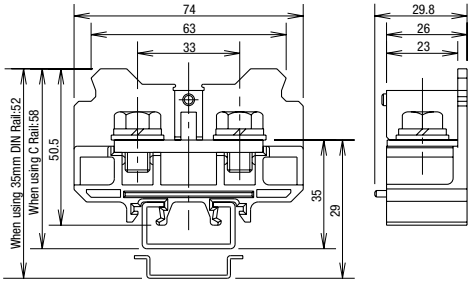
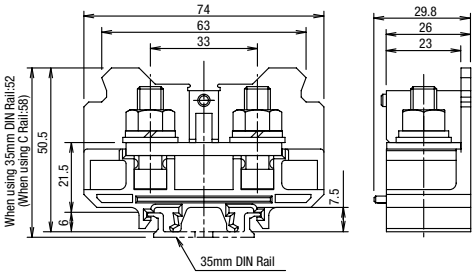
Large Capacity Screw Terminal

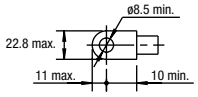
Part No.	BN75W 94A M6	BN100W 132A M8
Dimensions		
Ordering No.	BN75WPN10	BN100WPN05
Package Quantity	10	5
Weight (Approx.)	45g	86g

Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	1000V	600V	660V	1000V
	Wire Size	16-4 AWG	22 mm^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: BAP1000/BNL8					
	Type C Rail/End Clip	Aluminum: BNCA1000/BNL8					
	DIN+Type C Rail/End Clip	Aluminum: BNJA1000/BNL8					

∗1: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.
∗2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.
∗3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
∗4: Applicable wrench or screwdriver can be used to tighten screws.
∗5: See G-025 for details on accessories.

For more information, visit http://asia.idec.com

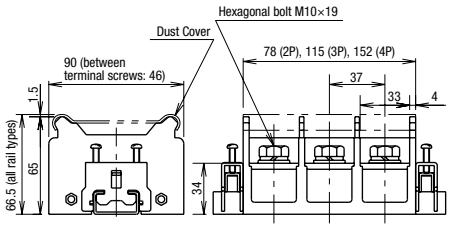
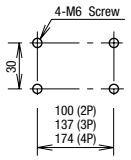
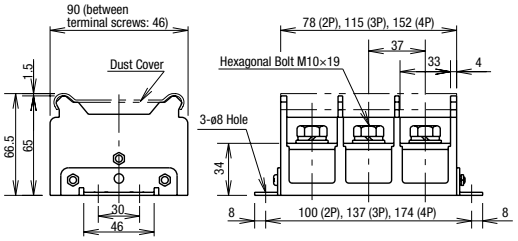
Large Capacity Screw Terminal		Part No.	BN150W 175A M8	BN150NW 175A M8
		Dimensions		
		Ordering No.	BN150WPN05	BN150NWPN05
		Packaging Quantity	5	5
		Weight (Approx.)	88g	95g

Standards			UL/CSA	EN	JIS	—	—	JIS
Specification / Ratings		Insulation Voltage	600V	660V	1000V	—	—	630V
		Wire Size	16-1/0 AWG	60 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 (∗2)		
		Tightening Torque	10 to 13.5 N·m			10 to 13.5 N·m		
Crimping Terminal Dimensions (mm) ∗3								
Accessories ∗5		End Plate	BNE150W					
		Dust Cover	BNC520					
		Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725			PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725		
		Marking Strip Fastner	BNM3					
		DIN Rail/End Clip	Aluminum BAA1000, Steel: BAP1000/BNL8					
		Type C Rail/End Clip	Aluminum: BNCA1000/BNL8					
		DIN+Type C Rail/End Clip	Aluminum: BNJA1000/BNL8					

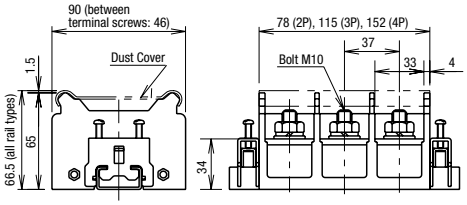
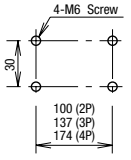
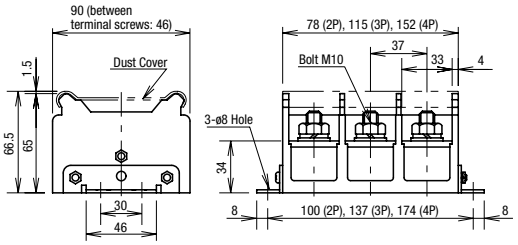
∗1: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.
∗2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range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

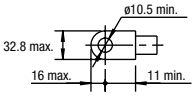
BN-W / BNH-W Series Terminal Blocks

Large Capacity — Screw Terminal

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

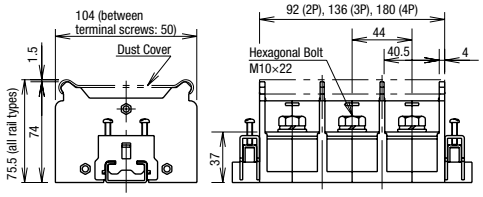
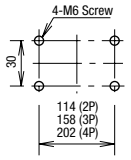
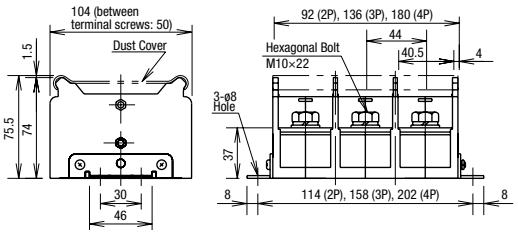
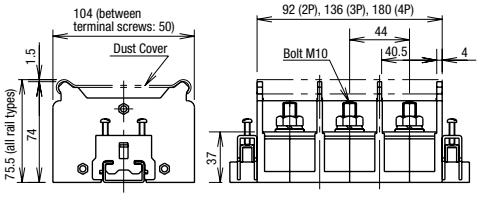
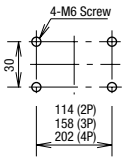
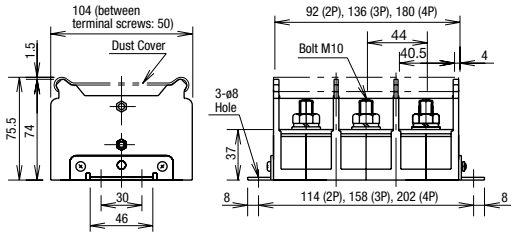
Large Capacity — Stud Terminal

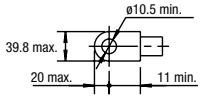
Part No.	BN200NW□ 240A M10	BN200NW□K 240A M10 Surface Mount	
Dimensions		Panel Cut-out  	
Package Quantity	1	1	
Weight (Approx.)	2P: 500g, 3P: 720g, 4P: 940g	2P: 560g, 3P: 780g, 4P: 1000g	

Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V
	Wire Size	4/0 AWG	100 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, Steel: BAP1000			—		
	C Rail	Aluminum: BNCA1000			—		
	DIN+C Rail	Aluminum: BNJA1000			—		
	End Clip	BNL8			—		

∗1: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.
∗2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.
∗3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
∗4: See G-025 for details on accessories.
Specify the number of poles in place of □. 2-pole: 2, 3-pole: 3, 4-pole: 4.

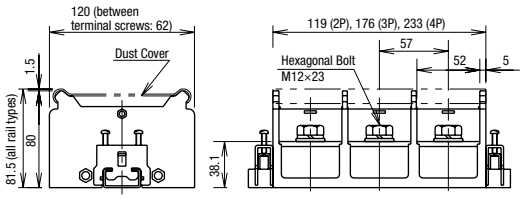
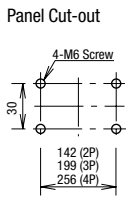
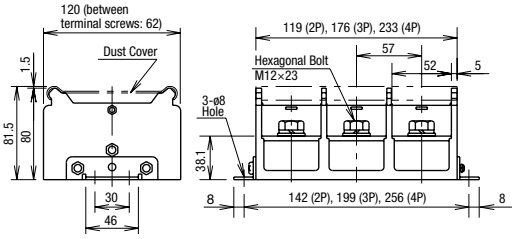
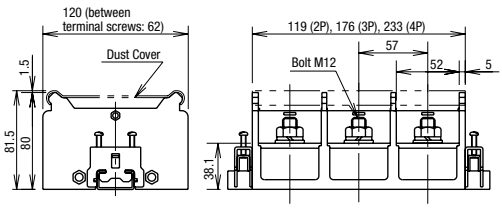
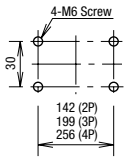
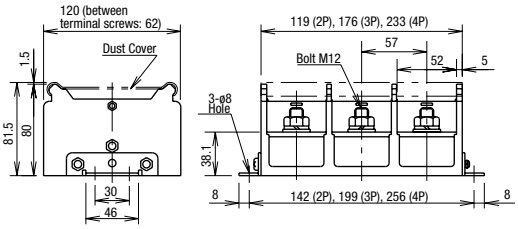
For more information, visit http://asia.idec.com

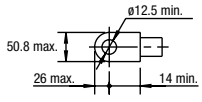
Large Capacity	Screw Terminal	Part no.	BN300BW□ 310A M10	BN300BW□K 310A M10 Surface Mount
		Dimensions		 
		Package Quantity	1	1
		Weight (Approx.)	2P: 480g, 3P: 750g, 4P: 1020g	2P: 540g, 3P: 810g, 4P: 1080g
	Stud Terminal	Part no.	BN300NW□ 310A M10	BN300NW□K 310A M10 Surface Mount
		Dimensions		 
		Package Quantity	1	1
		Weight (Approx.)	2P: 540g, 3P: 810g, 4P: 1080g	2P: 600g,3P: 870g, 4P: 1140g

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, Steel: BAP1000			—		
	C Rail	Aluminum: BNCA1000			—		
	DIN+C Rail	Aluminum: BNJA1000			—		
	End Clip	BNL8			—		

∗1: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.
∗2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.
∗3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
∗4: See G-025 for details on accessories.
Specify the number of poles in place of □. 2-pole: 2, 3-pole: 3, 4-pole: 4.

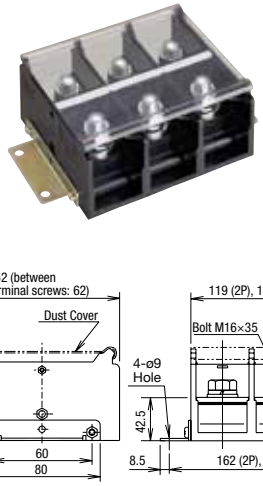
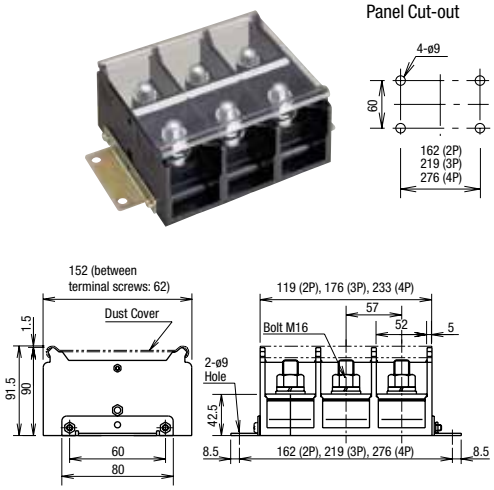
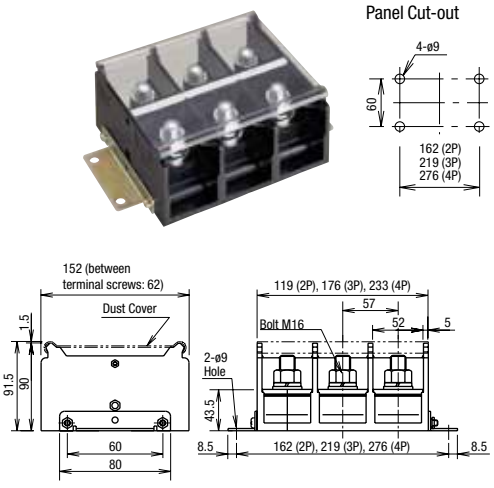
BN-W / BNH-W Series Terminal Blocks

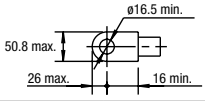
Large Capacity	Screw Terminal	Part no.	BN400BW☐ 370A M12	BN400BW☐K 370A M12 Surface Mount
		Dimensions		 
		Package Quantity	1	1
		Weight (Approx.)	2P: 950g, 3P: 1400g, 4P: 1860g	2P: 1030g, 3P: 1480g, 4P: 1940g
	Stud Terminal	Part No.	BN400NW☐ 370A M12	BN400NW☐K 370A M12 Surface Mount
		Dimensions		 
		Package Quantity	1	1
		Weight (Approx.)	2P: 980g, 3P: 1460g, 4P: 1930g	2P: 1060g, 3P: 1540g, 4P: 1990g

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, Steel: BAP1000			—		
	C Rail	Aluminum: BNCA1000			—		
	DIN+C Rail	Aluminum: BNJA1000			—		
	End Clip	BNL8			—		

∗1: The rated current differs according to operating conditions. See “Selecting Terminal Blocks by Current According to JIS Standards” on G-006.
∗2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.
∗3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
∗4: See G-025 for details on accessories.
Specify the number of poles in place of ☐. 2-pole: 2, 3-pole: 3, 4-pole: 4.

For more information, visit http://asia.idec.com

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		—
	Stud Terminal	Part No.	BN500NW☐K 430A M16 Surface Mount		BN600NW☐K 520A M16 Surface Mount
		Dimensions			
		Package Quantity	1		1
		Weight (Approx.)	2P: 1600g, 3P: 2300g, 4P: 3000g		2P: 1650g, 3P: 2400g, 4P: 3150g

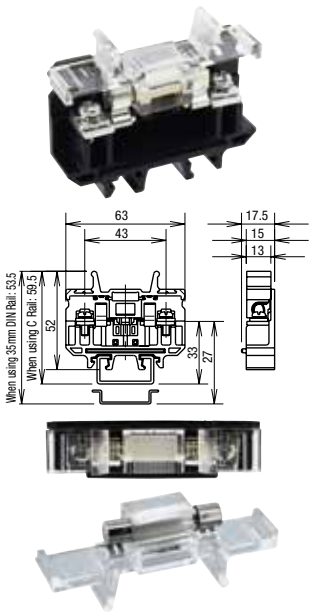
Standards		UL/CSA	EN	JIS	UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	800V	600V	660V	800V
	Wire Size	500 MCM	240 mm² (500 MCM)	250 mm²	600 MCM	300 mm² (600 MCM)	325 mm²
	Rated Current ∗1	500A	430A	430A	600A	520A	520A
	Terminal Screw ∗2	M16			M16		
	Crimping Terminal	14-16 to 200-16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

Self-Lifting Terminal with Fuse

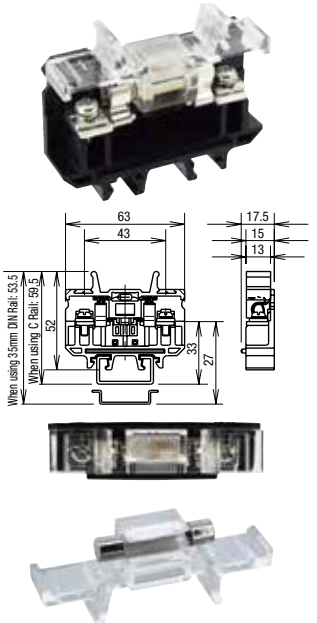
BNF10S-□A 10A M4



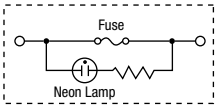
Fuse Ratings
- Rated Voltage: 250V
- Rated Current: 1, 3, 5A
- Cartridge Fuse: JIS C 6575-2 6.35×31.8 mm or 6.40×30.0 mm
- Part No.: BNF10S-1A, BNF10S-3A, BNF10S-5A
- Cartridge used: FGB1 by FUJI Terminal Industry Co., Ltd.

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.

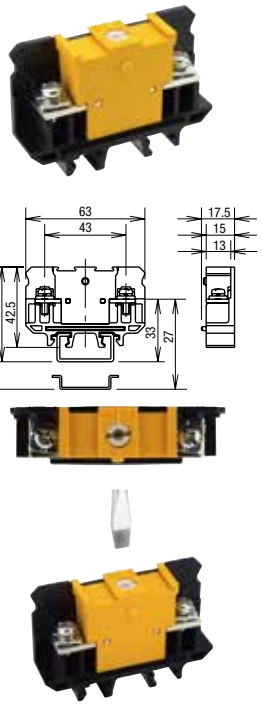
Fuse Ratings
- Rated Voltage: 250V
- Rated Current: 1, 3, 5A
- Cartridge Fuse: JIS C 6575-2 6.35×31.8mm or 6.40×30.0mm
- Part No.: BNF10N-1A, BNF10N-3A, BNF10N-5A

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

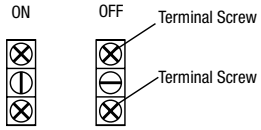
Ordering No.	BNF10S-□APN20	BNF10N-□APN20
Package Quantity	20	20
Weight (Approx.)	34g	34g

Self-Lifting Terminal with Disconnecting Switch

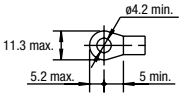
BNT20 20A M4



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.

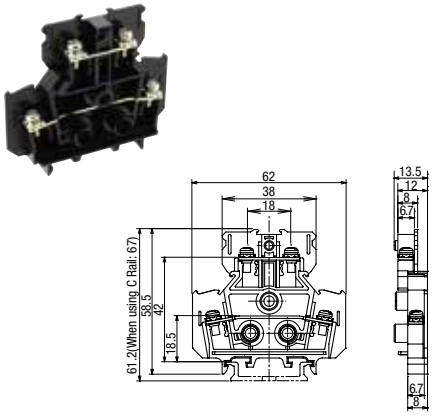
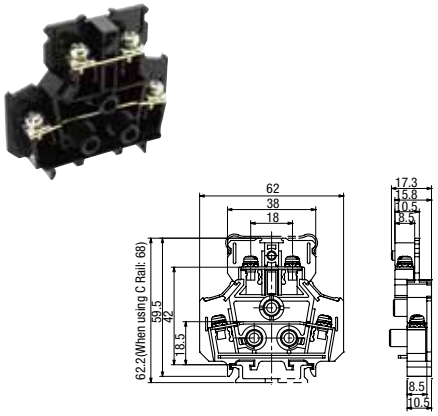
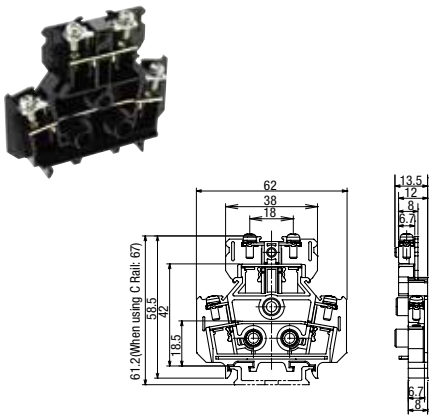
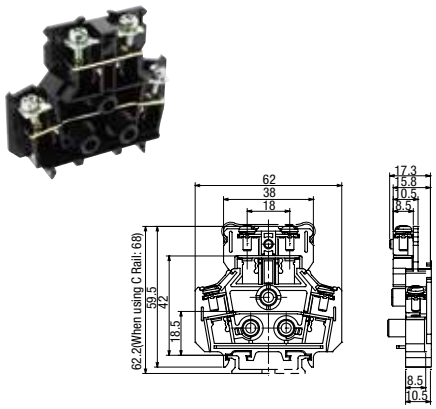


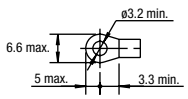
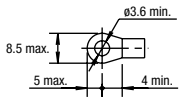
Ordering No.	BNT20PN20
Package Quantity	20
Weight (Approx.)	36g

Standards		JIS	JIS
Specification / Ratings	Insulation Voltage	600V	600V
	Wire Size	5.5 mm²	5.5 mm²
	Rated Current	10A max.	20A
	Terminal Screw	M4	M4
	Crimping Terminal	1.25-4 to 5.5-4	1.25-4 to 5.5-4
	Max. No. of Crimping Terminals	2	2
	Tightening Torque	1.4 to 2.0 N·m	1.4 to 2.0 N·m
Crimping Terminal Dimensions (mm)			
Accessories *1	End Plate	BNE20	
	Dust Cover	—	BNC520
	Marking Strip	—	PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BAP1000 /BNL6	
	C Rail/End Clip	Aluminum: BNCA1000/BNL7	
	DIN+C Rail/End Clip	Aluminum: BNJA1000 /BNL6, BNL7	

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

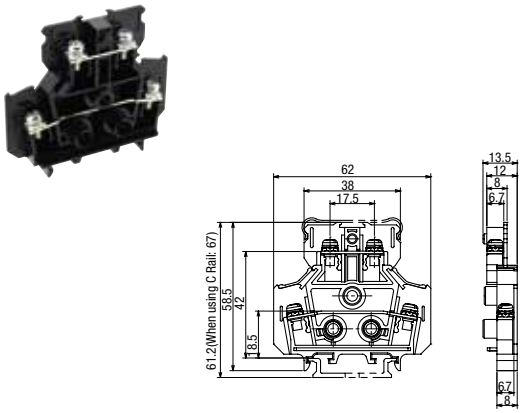
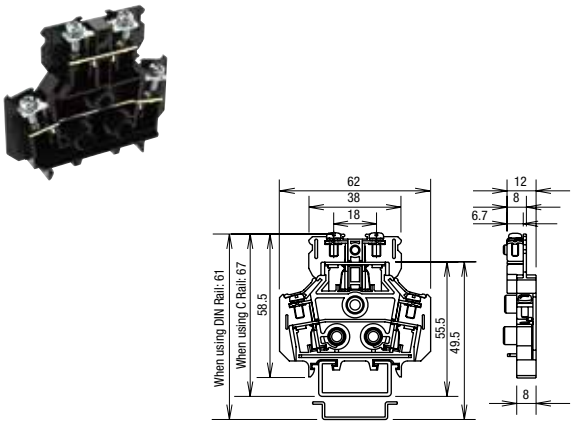
For more information, visit http://asia.idec.com

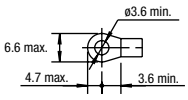
Double-Deck Terminal Block	Self-Lifting Terminal	Part No.	BND15W 16A M3	BND15LW 21A M3.5
		Dimensions		
		Ordering No.	BND15WPN25	BND15LWPN25
		Package Quantity	25	25
		Weight (Approx.)	16g	23g
	Touch-Down Terminal	Part No.	BNDH15W 16A M3	BNDH15LW 21A M3.5
		Dimensions		
		Ordering No.	BNDH15WPN25	BNDH15LWPN25
		Package Quantity	25	25
		Weight (Approx.)	17g	26g

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 (2 mm² max)	22-14 AWG	2 mm² (22-14 AWG)	2 mm²
	Rated Current *1	10A	22A	16A	15A	22A	21A
	Terminal Screw *2	M3			M3.5		
	Crimping Terminal	1.25-3 (2-3)			2-3.5		
	Max. No. of Crimping Terminals	2			2		
	Tightening Torque	0.6 to 1 N·m			1 to 1.3 N·m		
Crimping Terminal (mm) *3							
Accessories *4	End Plate	BNDE15W/BNDE15W2			BNDE15LW/BNDE15LW2		
	Dust Cover	Upper Deck: BNC230, Lower Deck: BNC240					
	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725					
	Marking Strip Fastener	BNM3					
	Surface Mounting Clip	BNDL2					
	Connecting Rod/ Connecting Nut	Connecting Rod: BNR1, BNR2, Connecting Nut: BNN1					
	DIN Rail/End Clip	Aluminum: BAA1000, Steel: BAP1000/BNL6					
	C Rail/End Clip	Aluminum: BNCA1000/BNL7					
	DIN+C Rail/End Clip	Aluminum: BNJA1000/BNL6, BNL7					

*1: The rated current differs according to operating conditions. See "Selecting Terminal Blocks by Current According to JIS Standards" on G-006.
*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.
*3: Use a CSA certified crimping terminal when using the terminal block as a CSA certified product.
*4: See G-025 for details on accessories.

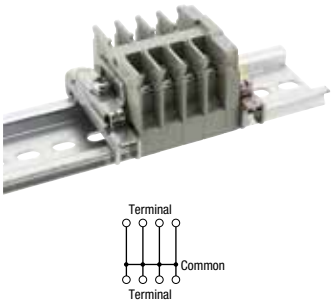
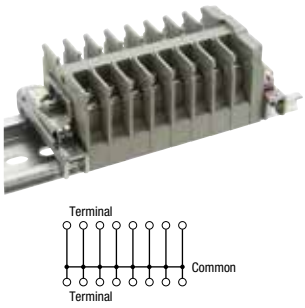
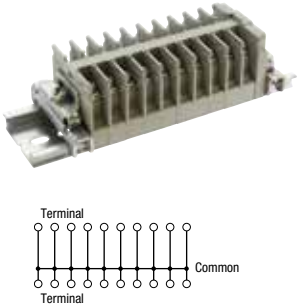
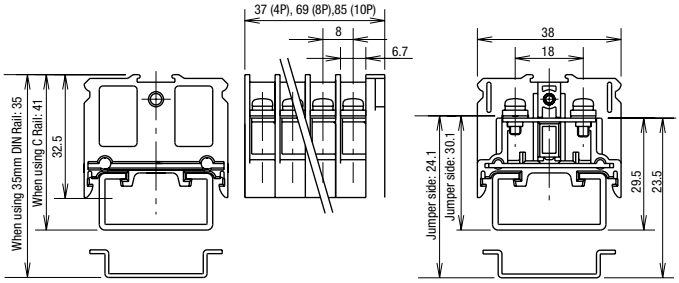
BN-W / BNH-W Series Terminal Blocks

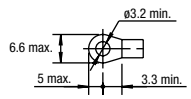
Double-Deck Terminal Block	Self-Lifting Terminal	Part No.	BND15WT 21A M3.5
		Dimensions	
		Ordering No.	BND15WTPN25
		Package Quantity	25
		Weight (Approx.)	17g
	Touch-Down Terminal	Part No.	BNDH15WT 21A M3.5
		Dimensions	
		Ordering No.	BNDH15WTPN25
		Package Quantity	25
		Weight (Approx.)	17g

Standards		UL/CSA	EN	JIS
Specification / Ratings	Insulation Voltage	600V	660V	800V
	Wire Size	22-14 AWG	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		
	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: BAP1000/BNL6		
	C Rail/End Clip	Aluminum: BNCA1000/BNL7		
	DIN+C Rail/End Clip	Aluminum: BNJA1000/BNL6, BNL7		

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

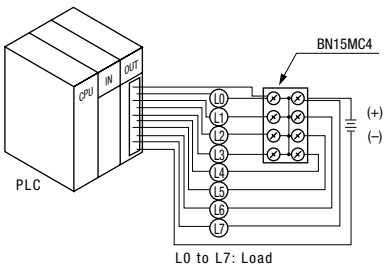
For more information, visit http://asia.idec.com

		Part No.	BN15MC4 16A (common current) M3	BN15MC8 16A (common current) M3	BN15MC10 16A (common current) M3
Common Terminal	Self-Lifting Terminal	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 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
	Marking Strip Fastener	BNM3
	DIN Rail / End Clip	Aluminum: BAA1000, Steel: BAP1000/BNL6
	C Rail / End Clip	Aluminum: BNCA1000/BNL7
	DIN+C Rail / End Clip	Aluminum: BNJA1000/BNL6, BNL7

*1: The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.
The wire size in ( ) does not comply with JIS standards.
*2: Do not remove the built-in common jumper. Common terminal type terminal blocks cannot be disassembled.
*3: Make sure that all terminal screws are tightened to an appropriate tightening torque before power is applied.
*4: Specifications are in compliance with JIS C 8201-7-1 except values in ( ).
*5: See G-025 for details on accessories.

Application Example



Features

- All terminals are short-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

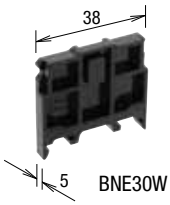
Accessories (End Plate / Rail)

End Plates

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

BNE15W

BNE20

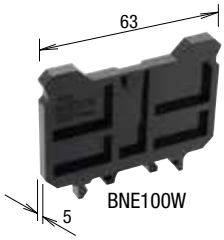


BNE30W

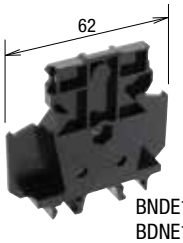
BNE40W

BNE50W

BNE75W



BNE100W



BNDE15W
Upper deck: 5 mm
Lower deck: 9 mm

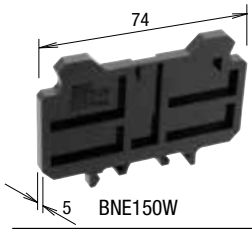
BDNE15LW
Upper deck: 5 mm
Lower deck: 10.25 mm

BNDE15W
BDNE15LW

BNDE15W2
Upper deck: 5.5 mm
Lower deck: 1.5 mm

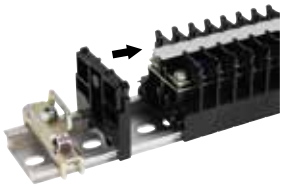
BDNE15LW2
Upper deck: 6.8 mm
Lower deck: 1.5 mm

BNDE15W2
BNDE15LW2



BNE150W

Securing a marking strip with the end plate

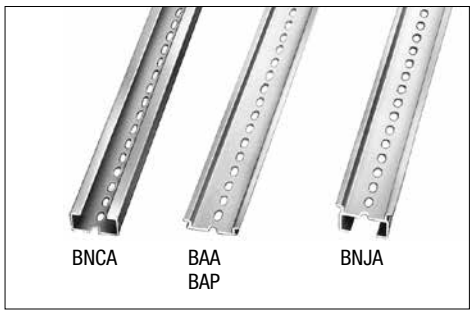


	Part No.	Ordering No.	Applicable Terminal Blocks	Thickness (mm)	Weight (Approx.)	Package Quantity
End Plate	**BNE15W**	BNE15WPN10	BN10W, BNH10W BN15MW, BNH15MW BN15LW, BNH15LW BN15MWT, BNH15MWT BN15LWT, BNH15LWT	5.0	4g	10
	BNE20	BNE20PN10	BNT20, BNF10S, BNF10N	3.0	8g	
	BNE30W	BNE30WPN10	BN30W, BNH30W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

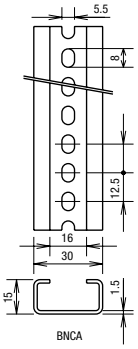
Note: BNDE15W2 and BNDE15LW2 are end plates used for securing marking strips at the end of double deck terminal blocks.

Rails

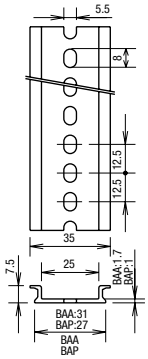
Rails for mounting terminal blocks. Available in four styles.



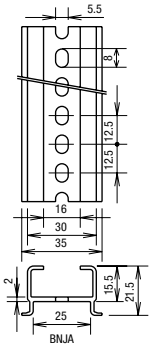
C30 Rail



DIN Rail
35-mm-wide



DIN 35-mm
+ C30 Rail



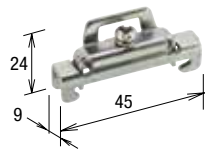
Approvals:
IEC60715
JIS C 2812

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

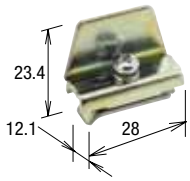
Accessories (End Clip / Rail Mounting Clip / Dust Cover)

End Clips

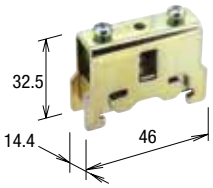
Used to secure the ends of the terminal blocks assembled on the rail.



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



BNL7 (M4 Screw)



BNL8 (M4 Screw)

- Material: Steel
- Plating: Trivalent zinc chromate

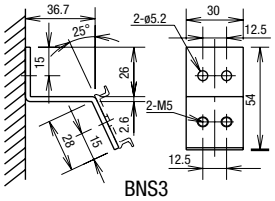
Note: Slide the end clip onto the DIN rail.

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

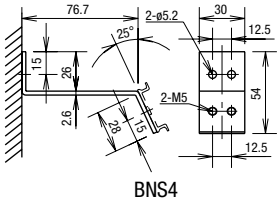
*1: Do not use BNL8 because the insulation distance will be insuffiecient if used.
*2: We recommend you to use BNL8 for secure hold.

Rail Mounting Clips

Used to raise the DIN rail from the panel surface.



BNS3



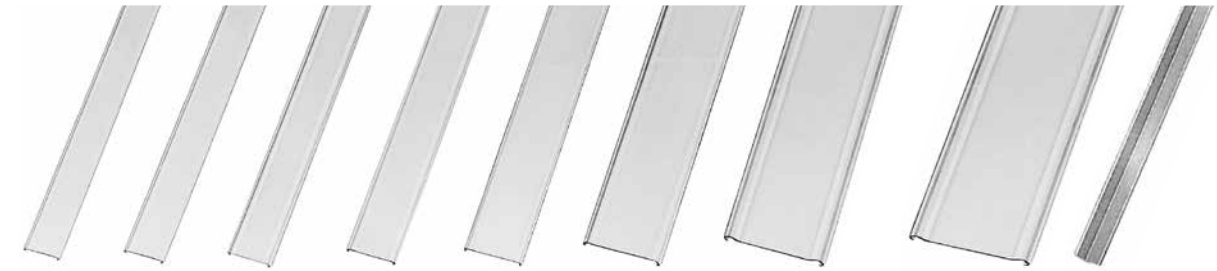
BNS4

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

- Material: Steel
- Plating: Trivalent zinc chromate

Dust Cover

Material: Polycarbonate



BNC230 BNC330 BNC320 BNC420 BNC520 BAC820 BNC1000 BNC930 BNC240

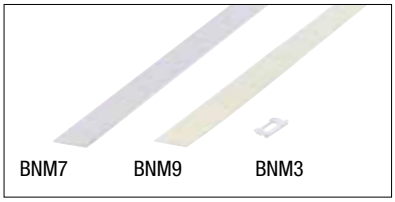
Length	Width (mm)	Part No.	Ordering No.	Terminal Blocks (□: No. of Poles)	Weight (Approx.)	Package Quantity
1m	39.6	**BNC230**	BNC230PN10	BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W, BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT	56g	10
	43	**BNC330**	BNC330PN10	BN40W, BNH40W	57g	10
	49.6	**BNC320**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

Dust Covers for Double Deck Terminal Blocks

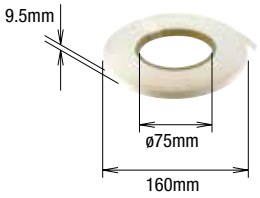
Length	Part No.	Ordering No.	Terminal Block	Weight (Approx.)	Package Quantity
1m	**Upper Deck BNC230**	BNC230PN10	BND15W, BNDH15W, BND15LW, BNDH15LW, BND15WT, BNDH15WT	56g	10
	Lower Deck BNC240	BNC240PN10		15g	10

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

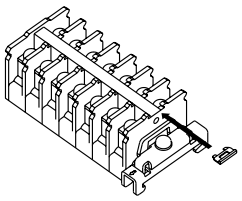
Marking Strips, Marking Strip Fastener



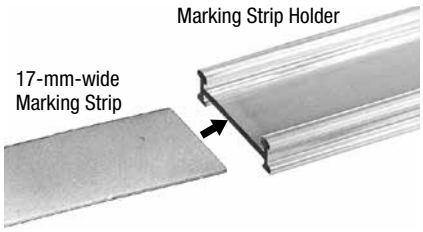
Item	Part No.	Ordering No.	Weight (approx.)	Package Quantity	Specification
Marking Strip	**BNM7**	BNM7PN10	7.2g	10	PVC (glossy surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM9	BNM9PN10	6.4g	10	Fiber glass (matte surface) 1000 mm × 9.5 mm × 0.5 mm
	BNM725	BNM725	—	1	PVC (matte surface) 25 m × 9.5 mm × 0.5 mm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



• To install the marking strip fastener



Sliding Marking Strip (BN10W to BN30W)



17-mm-wide marking strip
• Both top and bottom sides of the marking strip holder can be used.

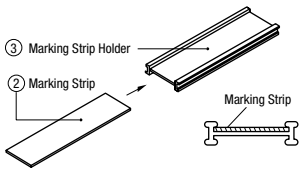
End plate (Thickness 5 mm)
BNES15W
BNES30W

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

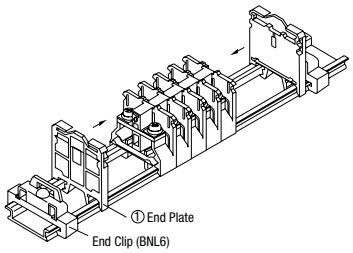
Note: Length 1000 mm × Width 9.5 mm × Thickness 0.5 mm

Installing the Sliding Marking Strip

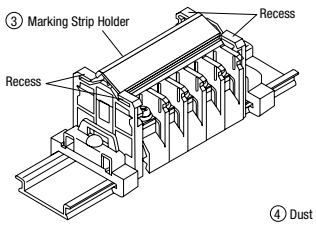
1. Insert the marking strip into the groove of the top of the marking strip holder.



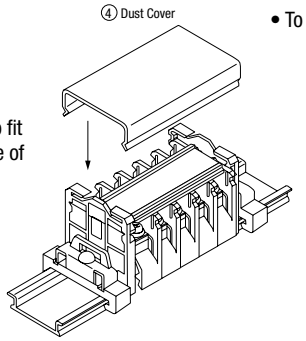
2. Installing the end plate
Attach the end plates to the terminal blocks and secure with end clips.



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

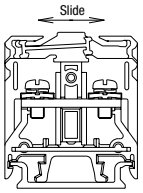


4. Press the dust cover to fit onto the bottom groove of the end plate.



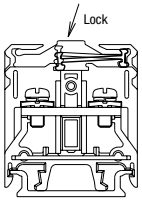
Movement

• 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

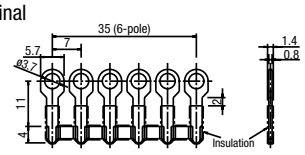
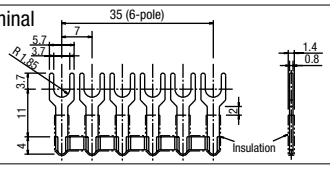
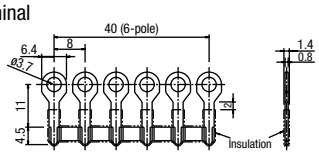
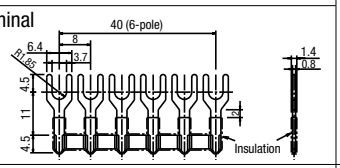
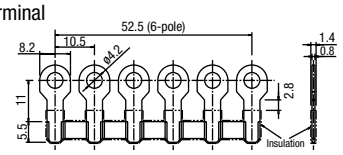
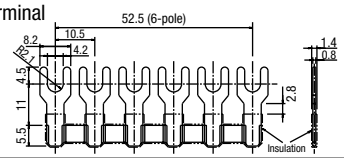
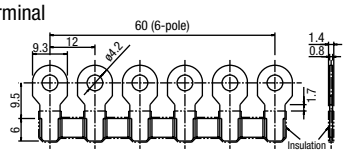
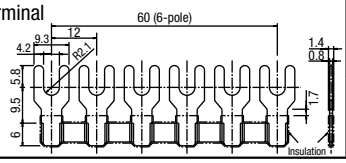


To lock the marking strip holder, lock by holding both edges of the holder.

For more information, visit http://asia.idec.com

Accessories (Jumper)

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

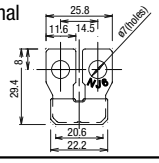
Part No.	Ordering No.	Terminal Centers	Insulation	Dimensions	Current (Note 1, 2)	Applicable Terminal Block	Weight (Approx.)	Package Quantity
BNJ16	BNJ16PN10	7 mm	Without	Ring Terminal 	10A	BN10W BNH10W	2.8g	10
BNJ16B	BNJ16BPN10		With					10
BNJ16F	BNJ16FPN10		Without	Fork Terminal 			2.7g	10
BNJ16FB	BNJ16FBPN10		With					10
BNJ26W	BNJ26WPN10	8 mm	Without	Ring Terminal 	20A	BN15MW BNH15MW BN15MWT BNH15MWT BND15W BNDH15W BND15WT BNDH15WT	3.1g	10
BNJ26WB	BNJ26WBPN10		With					10
BNJ26FW	BNJ26FWPN10		Without	Fork Terminal 			3.1g	10
BNJ26FWB	BNJ26FWBPN10		With					10
BNJ46	BNJ46PN10	10.5 mm	Without	Ring Terminal 	20A	BN15LW BNH15LW BN15LWT BNH15LWT BND15LW BNDH15LW	4.6g	10
BNJ46B	BNJ46BPN10		With					10
BNJ46F	BNJ46FPN10		Without	Fork Terminal 			3.0g	10
BNJ46FB	BNJ46FBPN10		With					10
BNJ56	BNJ56PN10	12 mm	Without	Ring Terminal 	30A	BN30W BNH30W	3.2g	10
BNJ56B	BNJ56BPN10		With					10
BNJ56F	BNJ56FPN10		Without	Fork Terminal 			4.5g	10
BNJ56FB	BNJ56FBPN10		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.	Ordering No.	Terminal Centers	Insulation	Dimensions	Current (Note 1, 2)	Applicable Terminal Block	Package Quantity
BNJ62	BNJ62PN10	14.5 mm	Without	Ring Terminal 	80A	BN40W (Note 3) BNH40W (Note 3) BN50W BNH50W	10
BNJ62B	BNJ62BPN10		With				

• Material: nickel-coated brass

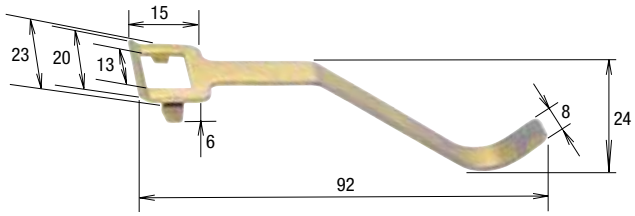
• Sheath: PVC

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.

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

Accessories (Removal Tool)



A tool for removing terminal blocks from the DIN rail.

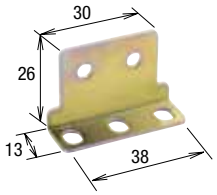
Part No.	Weight (Approx.)	Package Quantity
BND2	8.6g	1

- 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

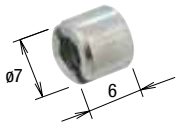
Part No.	Ordering No.	Applicable Terminal Block	Weight (Approx.)	Dimensions (mm)	Package Quantity
BNR1	BNR1PN10	BND15W, BNDH15W BND15WT, BNDH15WT BND15LW, BNDH15LW	21g	265 mm (M4×0.7)	10
BNR2	BNR2PN10		43g	500 mm (M4×0.7)	10

- Material: Steel
- Plating: Zinc

Connecting Nuts

M4×0.7 Hex Nut

M4×0.7 Round Nut



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

- Material: Steel
- Plating: Zinc

Calculating Rail Lengths and Mounting Centers

• BNCA, BAA, BAP, and BNJA Rails

$L_1 = 12.5 \times N$

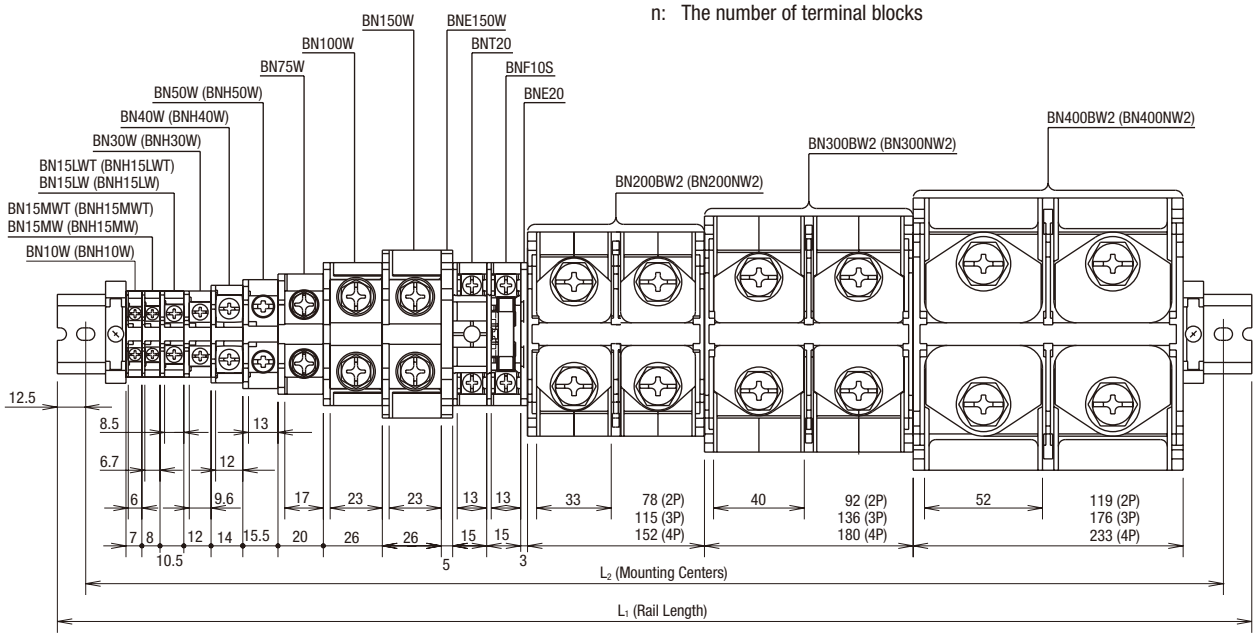
$L_2 = L_1 - 25$

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

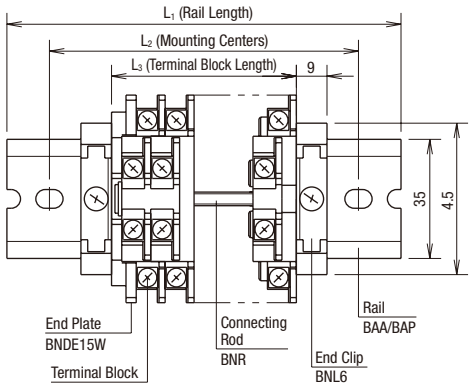
N: Rounded up numerical number from the calculated value of M. (Example: N for 19.1 is 20)

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

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



Rail Length (Double-Deck)



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)

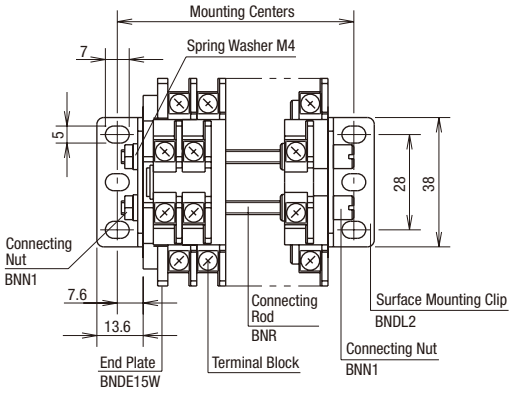
For BND15W, BNDH15W, BND15WT

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

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

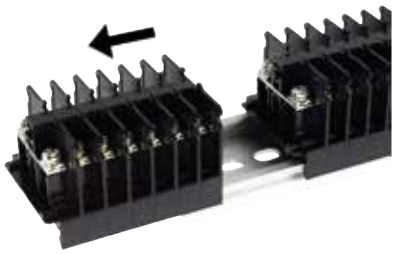
∗1: This formula is for calculating the maximum rail length including tolerance. Depending on the combination of terminal blocks, the required rail length may be shorter than the calculated value, particluarly when many terminal blocks are combined.
∗2: The length will be 1.5 mm longer when end plates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

Instructions

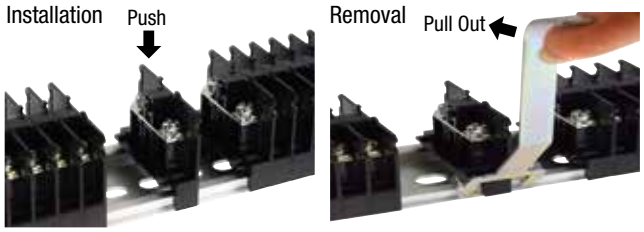
How to Use Touch-Down Terminals

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



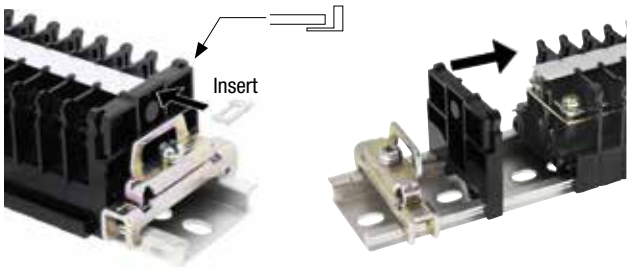
Additional Installation and Removal (on DIN Rail)



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).



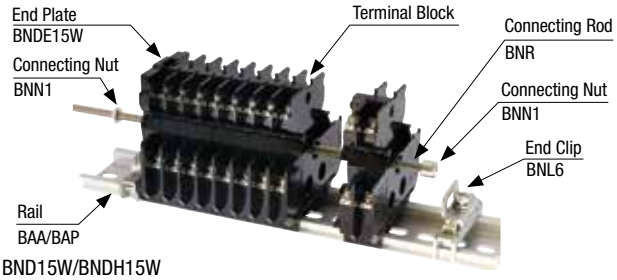
To Secure the Marking Strip

Installing End Plate

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

Installation of Double-Deck Terminal Blocks (BND)

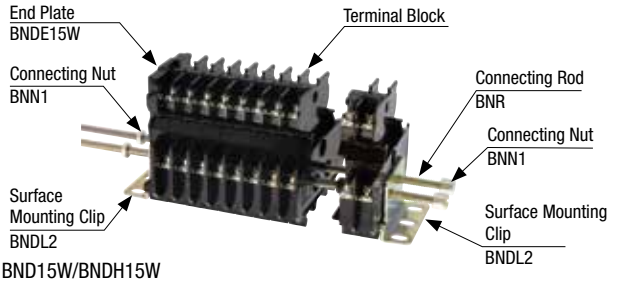
Rail Mount (photo: when using BND15W, BNDH15W, BNDE15W2)



BND15W/BNDH15W

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

Surface Mount



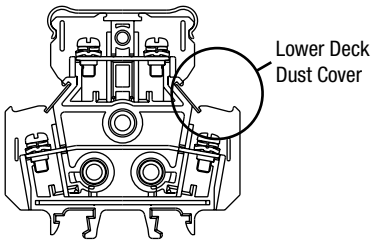
BND15W/BNDH15W

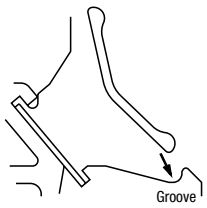
1. Assemble a row of terminal blocks with end plates on exposed ends.
2. Use BNDL2 mounting clips at both ends of a row.
3. With the two holes of the mounting clip (BNDL2) aligned with the terminal block holes, insert a connecting rod (BNR) through each hole.
4. Secure the ends of the connecting rods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

Instructions

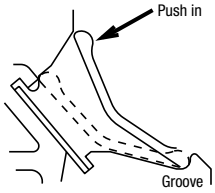
Dust Covers on the Lower Deck Terminal of Double-Deck Terminal Blocks

Installing Dust Covers on Lower Deck Terminals





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

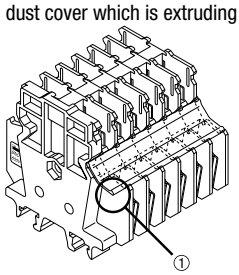


2. With the lower end of the dust cover pressed into the groove, push in the top end in the direction of the arrow.

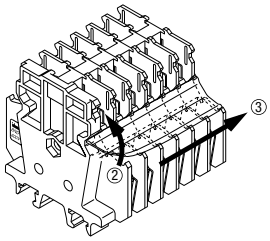
Removing Dust Covers from Lower Deck Terminals

Turn the power off before removing the dust cover.

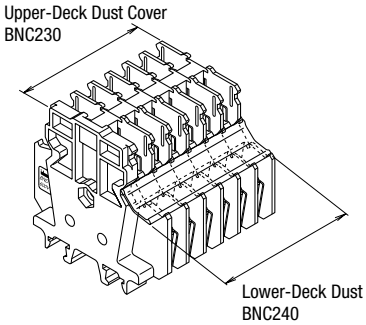
1. Hold the end of the dust cover which is extruding from the end plate.



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

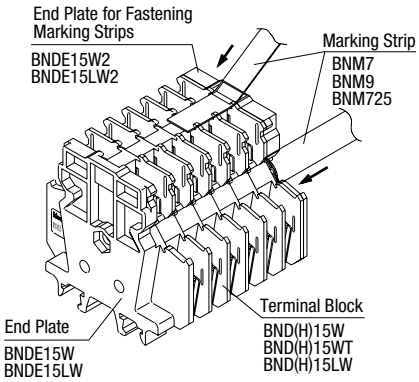


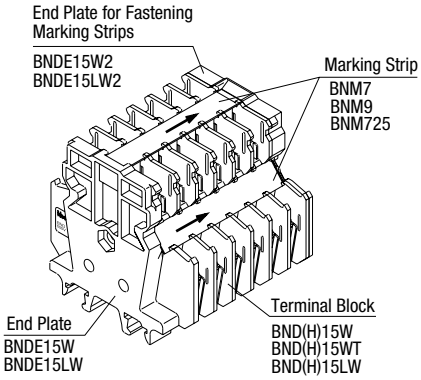
Cut required length depending on the number of terminal blocks used. (Length in mm)

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.

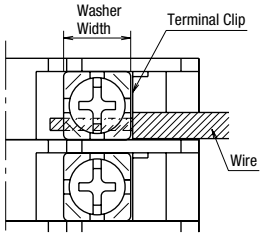




Notes on Wiring

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.