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.

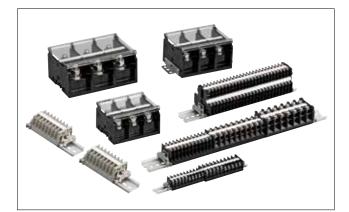


 9.5-mm-wide marking strips can be used on all models.
 17-mm-wide sliding type marking strips also available. (BN10W to BN30W)

DIN Rail

- 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 \square 10W to BN \square 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).

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

	Par	t No.	UL/CSA	Ratings	EN Ra	tings (*1)	JIS Ra	tings	Terminal	Tightening
Style	Self-Lifting	Touch-Down	Voltage/ Current	Wire Size (AWG)	Voltage/ Current	Wire Size [mm²/(AWG)]	Voltage/ Current	Wire Size (mm²)	Screw	Torque (N·m)
	BN10W \star	BNH10W \star	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
Standard	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 \star	BNH30W ★	600V/35A	18-10	660V/38A	5.5/(18-10)	630V/40A	5.5	M4	1.4 to 2.0
	BN50W	BNH50W	600V/60A	16-6	660V/67A	14/(16-6)	800V/70A	14	M5	2.6 to 3.7
	BN75W \star		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 10 13.5
	BN150NW		600V/150A	16-1/0	660V/175A	60/(1/0)	630V/175A	60	M8	10 to 13.5
Large Capacity	BN200BW□, E	BN200NW	600V/200A	4/0	660V/240A	100/(4/0)	800V/240A	100	M10	21 to 28
	BN300BW□, E	SN300NW	600V/310A	300MCM	660V/310A	150/(300MCM)	800V/310A	150	M10	21 10 20
	BN400BW□, E	N400NW□	600V/350A	400MCM	660V/370A	200/(400MCM)	800V/370A	200	M12	38 to 49
	BN500BW□, E	SN500NW□	600V/500A	500MCM	660V/430A	240/(500MCM)	800V/430A	250	M16	83 to 116
	BN600NW CK		600V/600A	600MCM	660V/520A	300/(600MCM)	800V/520A	325	M16	03 10 110
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
wiul ruse	BNF10N	—	_	_	—		600V/10A	5.5	M4	1.4 10 2.0
	BND15W	BNDH15W	600V/10A	22-14	660V/22A	2/(22-14)	800V/16A	1.25 (2) *2	M3	0.6 to 1.0
Double-Deck	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 \Box .

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

APEM Switches & Pilot Lights Control Boxes Emergency Stop Switches Enabling Switches

Safety Products Explosion Proof

Relays & Sockets

Circuit Protectors Power Supplies LED Illumination Controllers

Operator Interfaces Sensors AUTO-ID

Terminal Blocks

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Blocks	Term	inal Style		Part No.	Ordering No.	Applicable Wire (mm²)	Terminal Screw	Width (mm)	Package Quantity	Page
	Standard					<u>.</u>				
			16A	BN10W	BN10WPN50	1.25	M3	7	50	
			IUA	BN15MW	BN15MWPN50	1.25 (2) (Note)	M3	8	50	G-012
APEM			21A	BN15LW	BN15LWPN50	2	M3.5	10.5	50	
Switches &	Self-Lifting	1-pole	214	BN15MWT	BN15MWTPN50	2	M3.5	8	50	
Pilot Lights			30A	BN15LWT	BN15LWTPN50	3.5	M4	10.5	50	G-013
Control Boxes			40A	BN30W	BN30WPN50	5.5	M4	12	50	
Emergency			70A	BN50W	BN50WPN20	14	M5	15.5	20	G-014
Stop Switches			16A	BNH10W	BNH10WPN50	1.25	M3	7	50	
Enabling Switches			TOA	BNH15MW	BNH15MWPN50	1.25 (2) (Note)	M3	8	50	G-012
Safety Products			21A	BNH15LW	BNH15LWPN50	2	M3.5	10.5	50	
	Touch-Down	1-pole	ZIA	BNH15MWT	BNH15MWTPN50	2	M3.5	8	50	
Explosion Proof			30A	BNH15LWT	BNH15LWTPN50	3.5	M4	10.5	50	G-013
Terminal Blocks			40A	BNH30W	BNH30WPN50	5.5	M4	12	50]
Terminal Diocks			70A	BNH50W	BNH50WPN20	14	M5	15.5	20	G-014
Relays & Sockets	Large Capacity (Rail Mour				•	· · · · · · · · · · · · · · · · · · ·				
Circuit			94A	BN75W	BN75WPN10	22	M6	20	10	0.015
Protectors		4	132A	BN100W	BN100WPN05	38	M8	26	5	G-015
Power Supplies		1-pole 175/ 2-pole	1754	BN150W	BN150WPN05	60	M8	26	5	0.010
			175A	BN150NW	BN150NWPN05	60	M8	26	5	G-016
LED Illumination				BN200BW2	BN200BW2	100	M10	37		
Controllers		3-pole	240A	BN200BW3	BN200BW3				1	G-017
Operator	Screw	4-pole		BN200BW4	BN200BW4					
Interfaces		2-pole		BN300BW2	BN300BW2					
Sensors		3-pole	310A	BN300BW3	BN300BW3	150	M10	44	1	G-018
		4-pole		BN300BW4	BN300BW4					
AUTO-ID		2-pole		BN400BW2	BN400BW2					
		3-pole	370A	BN400BW3	BN400BW3	200	M12	57	1	G-019
		4-pole		BN400BW4	BN400BW4	1				
		2-pole		BN200NW2	BN200NW2					
BN		3-pole	240A	BN200NW3	BN200NW3	100	M10	37	1	G-017
		4-pole		BN200NW4	BN200NW4					
		2-pole		BN300NW2	BN300NW2					
	Stud	3-pole	310A	BN300NW3	BN300NW3	150	M10	44	1	G-018
		4-pole		BN300NW4	BN300NW4	1				
		2-pole		BN400NW2	BN400NW2					
	:	3-pole	370A	BN400NW3	BN400NW3	200	M12	57	1	G-019
		4-pole	_	BN400NW4						
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Note The rated applicable wire size is 1.25 mm², but 2 mm² wires can also be connected.

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Terminal Blocks

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Terr	minal Style		Part No.	Ordering No.	Applicable Wire (mm²)	Terminal Screw	Width (mm)	Package Quantity	Page	Blocks
Large Capacity	(Surface Mou	unt)								
	2-pole		BN200BW2K	BN200BW2K						
	3-pole	240A	BN200BW3K	BN200BW3K	100	M10	37	1	G-017	
	4-pole		BN200BW4K	BN200BW4K						APEM
	2-pole		BN300BW2K	BN300BW2K						Switches &
	3-pole	310A	BN300BW3K	BN300BW3K	150	M10	44	1	G-018	Pilot Lights
Screw	4-pole		BN300BW4K	BN300BW4K						Control Boxes
Screw	2-pole		BN400BW2K	BN400BW2K						Emergency
	3-pole	370A	BN400BW3K	BN400BW3K	200	M12	57	1	G-019	Stop Switches
	4-pole		BN400BW4K	BN400BW4K						Enabling Switches
	2-pole		BN500BW2K	BN500BW2K						Safety Products
	3-pole	430A	BN500BW3K	BN500BW3K	250	M16	57	1	G-020	
	4-pole		BN500BW4K	BN500BW4K						Explosion Proof
	2-pole	e 240A BN200NW3K BN200NW3K 100 M10	BN200NW2K	BN200NW2K						Terminal Blocks
	3-pole		M10	37	1	G-017	Terminar Diocks			
	4-pole		BN200NW4K	BN200NW4K						Relays & Sockets
	2-pole		BN300NW2K	BN300NW2K						Circuit
	3-pole	310A	BN300NW3K	BN300NW3K	150	M10	44	1	G-018	Protectors
	4-pole		BN300NW4K	BN300NW4K						Power Supplies
	2-pole		BN400NW2K	BN400NW2K						LED Illumination
Stud	3-pole	370A	BN400NW3K	BN400NW3K	200	M12	57	1	G-019	
	4-pole		BN400NW4K	BN400NW4K						Controllers
	2-pole		BN500NW2K	BN500NW2K						Operator
	3-pole	430A	BN500NW3K	BN500NW3K	250	M16	57	1		Interfaces
	4-pole		BN500NW4K	BN500NW4K					G-020	Sensors
	2-pole		BN600NW2K	BN600NW2K					u-020	AUTO-ID
	3-pole	520A	BN600NW3K	BN600NW3K	325	5 M16	57	1		
	4-pole		BN600NW4K	BN600NW4K						

Terminal	Terminal Style		Part No.	Part No. Ordering No. Applic		Terminal Screw	Width (mm)	Package Quantity	Page
With Disconnecting S	witch, F	use							
Disconnecting Switch	20A	1-pole	BNT20	BNT20PN20	5.5	M4	15	20	
With Fuse	10A	1 0010	BNF10S-	BNF10S- APN20	5.5	M4	15	20	G-021
with Fuse	TUA	1-pole	BNF10N-	BNF10N- APN20	5.5	1114	15	20	
Double-Deck Termina	I Block			·					
Self-Lifiting	16A	1 nolo	BND15W	BND15WPN25	1.05 (0)	M3	0	25	
Touch-Down	TOA	1-pole	BNDH15W	BNDH15WPN25	1.25 (2)*	IVIS	8	20	G-022
Self-Lifting	014	1	BND15LW	BND15LWPN25	0	Мог	0	05	G-022
Touch-Down	21A	1-pole	BNDH15LW	BNDH15LWPN25	2	M3.5	8	25	
Self-Lifting	014	1	BND15WT	BND15WTPN25	2	МОГ	12	25	G-023
Touch-Down	21A	1-pole	BNDH15WT	BNDH15WTPN25	2	M3.5	12	25	G-023
Common Terminal				·	· · · · ·		· · · · · ·		
0 K 1 K T 104		4-pole	BN15MC4	BN15MC4PN10					
Self-Lifting Type 16A (Common Current)		8-pole	BN15MC8	BN15MC8PN10	1.25 (2)*	M3	8	10	G-024
		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 \Box . 1A: 1, 3A: 3, 5A: 5.

rmina	A	Accessories	Accessories (X: Necessary)													
rminal Blocks	When ordering accessories, check if the accessories are necessary by referring to the table. X: Necessary O: Optional		neck if the accessories are necessary by referring	End Plate		End Clip	Rail Mounting Clip	Dust Cover	Marking Strip	Marking Strip Fastener	Sliding Marking Strip	per	Removal Tool	Surface Mount Clip	Connecting Rod	Connecting Nut
APEM	Terminal Part No.				Rail	End	Rail	Dust	Marl	Marl	Slidi	Jumper	Rem	Surf	Cont	Cont
Switches & Pilot Lights		16A to 40A	BN10W, BN15MW, BN15LW, BN15MWT, BN15LWT, BN30W	×	×	×	0	0	0	0	0	0	0	—	_	_
Control Boxes	Standard	Self-Lifting Touch-Down	BNH10W, BNH15MW, BNH15LW, BNH15MWT, BNH15LWT, BNH30W	×	×	×	0	0	0	0	_	0	0	_	_	—
Emergency Stop Switches Enabling Switches	Star	70A Self-Lifting Touch-Down	BN50W, BNH50W	×	×	×	0	0	0	0		0	_		_	_
Safety Products	ty	Rail Mount 1-Pole 94A to 175A	BN75W, BN100W, BN150W, BN150NW	×	×	×	0	0	0	0	_	_	-	_	_	_
Explosion Proof Terminal Blocks	Large Capacity	Rail Mount 240A to 370A	BN200BW□, BN300BW□, BN400BW□ BN200NW□, BN300NW□, BN400NW□	_	×	×	_	ed	led	_	_	_	-	_	_	_
Relays & Sockets	Large	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	_	_	_	_	_	_	
Circuit Protectors	Wit	h Disconnecting Switch	BNT20	×	×	×	0	0	0	0	_	_	_	_	_	_
Power Supplies	Wit	h Fuse	BNF10S-□A, BNF10N-□A	×	×	×	0	_	0	0	—	—	_	—	_	—
LED Illumination	Dou	ıble-Deck	BND15W, BND15LW, BNDH15W, BNDH15LW, BND15WT, BNDH15WT	×	× *1	× *1	0	0	0	0	_	0	_	× *2	×	×
Controllers	Common Terminal BN15MC		BN15MC	—	×	×	_	0	0	0	0	—	_	—	_	
Operator Interfaces	*1: Accessory not necessary for surface mounting.			G-()25		G-026			G-027		G-028		G-0	29	
Sensors	 *2: Accessory not necessary for rail mounting. Specify the number of poles in place of □. 			Page												

AUTO-ID

		Part No.	☆ BN10W	N 16A	E M3	☆ BN15M	W 16A	₹ <u>M3</u>	☆ BN15LW	/ 21A	EM3.5	rmin
				-			10		1			rminal Blocks
	Self-Lifting Terminal	Dimensions	36 (When using C Rail41) 23.5 (When using C Rail41)			35 (When using C Rail-41).	36 (When using C 33.5 (When using C 32.5 (When using C 33.5 (When					APEM Switches & Pilot Lights Control Boxes Emergency Stop Switches Enabling Switches Safety Products
		Ordering No.		BN10WPN50			BN15MWPN50)		BN15LWPN50		Explosion Proof
_		Package Quantity		50			50			50		Terminal Blocks
Standard		Weight (Approx.)		6.5g			7.3g			10g		
Stan		Part No.	☆ BNH10\	W 16A	E M3	☆ BNH15M	1W 16A	<u>{ МЗ</u>	☆ BNH15L	N 21A	M3.5	Relays & Sockets
				~							8	Circuit Protectors
			1	Ph -		84 P			1	\$		Power Supplies
			- TT								LED Illumination	
	lal											Controllers
	srmin	Dimensione	V			A			₩.			Operator Interfaces
	vn Te	Dimensions		- 18		⊨	38		<u> </u>	38 >	14.3	Sensors
	Touch-Down Terminal		5(When using C Rail:41) 23.5(When using <u>C</u> Rail:29.5)			Men using C Rail:1) i(When using C Rail:29.5)			hen using C Raii:41) (When using C Raii:29.5)			AUTO-ID
				38						j(ฃ		BN
		Ordering No.		BNH10WPN50)	BNH15MWPN50				BNH15LWPN50)	
		Package Quantity		50		50			50			
		Weight (Approx.)		7.5g		8.2g			11.2g			
Sta	Indard	ds	UL/CSA	EN	JIS	UL/CSA	EN	JIS	UL/CSA	EN	JIS	
	Inst	ulation Voltage	600V	660V	800V	600V	660V	800V	600V	660V	630V	
Specification / Ratings		e 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 mm²	
/ Ra	Rated Current *2		15A	16A	16A	15A	22A	16A	20A	22A	21A	
tion		minal screw		M3			M3			M3.5		
ifica		mping Terminal		1.25-3			1.25-3 (2-3)			2-3.5		
Spec	-	k. No. of Crimping Terminals		2			2			2		
	Tign	htening Torque		0.6 to 1.0 N · m			0.6 to 1.0 N · m			1.0 to 1.3 N ⋅ m		
		g Terminal ions (mm) *3	5.8 ma		<u>min.</u> 3.3 min.	6.6 m		<u>min.</u> <u>3 min.</u>	e3.6 min. 8.5 max. 5 max. 4 min.			
	End	l Plate	BNE15W									
4		st Cover					BNC230					
Accessories *4		rking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725									
ssor		rking Strip Fastner					BNM3					
Acce		I Rail/End Clip	Aluminum: BAA1000, Steel: BNL6									
4		ail/End Clip	Aluminum: BNCA1000, Steel: BNL7									
	DIN	I + C Rail/End Clip				Aluminum: B	NJA1000, Stee	I: BNL6/BNL7				I
*1.	· The rated applicable wire size is 1.25 mm ² but 2 mm ² wires can also be connected											

*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.

ern													
nina			Part No.	☆ BN15MW	T 21A	M3.5	☆ BN15LV	/T 30A	E M4	☆ BN30W	/ 40A	E M4	
APEM Switches & Pilot Lights Control Boxes Emergency Stop Switches Enabling		Self-Lifting Terminal	Dimensions	using C failt 41)			When using C Rait(1) When using C Rait(29.5)			n using C fall 34) n using C fall 31.4)			
Switches Safety Products							33.56Wite			38 Wine			
Explosion Proof			Ordering No.	BN15MWTPN50				3N15LWTPN50			BN30WPN50		
Terminal Blocks			Package Quantity	50				50			50		
Palava & Saakata	lays & Sockets				7g 10g					15.6g			
Relays & Sockets	Stan		Part No.	☆ BNH15MV	/T 21A	M3.5	☆ BNH15L	NT 30A	₹ <u>M4</u>	☆ BNH30V	N 40A	E M4	
Circuit Protectors									~				
Power Supplies					A 18	1		4 103	t		6	2	
LED Illumination							P 1						
Controllers								-	L	11			
Operator	Dimensions							and the					
Interfaces										Acres 1			
Sensors			Dimensions		<u>38</u> 17.5 ⇒			38	= <u>14.3</u>	-	38	15.8	
AUTO-ID BN		Touch-Do		35(When using C Rall 41)			35(When using C Flair(4)) 23.5(When using C Flair(4)) 32.5(Plair(4)) 32.5(Plair(4)) 3			300When using C Reli (4)			
			Ordering No.	BNH15MWTPN50			BNH15LWTPN50			BNH30WPN50			
			Package Quantity		50			50			50		
			Weight (Approx.)		8g			11g			16.8g		
	Star			UL/CSA	EN	JIS	UL/CSA	EN	JIS	UL/CSA	EN	JIS	
		Insu	lation Voltage	600V	660V	800V	600V	660V	630V	600V	660V	630V	
	sĝu	Wire	e 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	
	Specification / Ratings		ed Current *1	15A	22A	21A	30A	22A	30A	35A	38A	40A	
	tion		ninal screw		M3.5			M4			M4		
	ifica		nping Terminal	1.2	5-3.5 to 2-3	.5		.25-4 to 3.5-4	•	1	.25-4 to 5.5-4	1	
	peci		No. of Crimping Terminals		2			2			2		
	Crimping Terminal Dimensions (mm) *2		Itening Torque	1	.0 to 1.3 N·m			1.4 to 2.0 N·m		1	.4 to 2.0 N · m	1	
				6.6 max. <u>4.7 r</u>		<u>min.</u> <u>6 min.</u>	8.5 ma <u>4.</u>		<u>nin.</u> 3 min.	9.5 ma <u>6</u>		<u>min.</u> 5 min.	
		End	Plate			BNE	15W				BNE30W		
	Dust Cover			BNC230 BNC230									
	* Marking Strip			PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/725									
	Marking Strip Marking Strip Fastner DIN Rail/End Clip			BNM3									
	BIN Rail/End Clip						Aluminum	i: BAA1000, St	eel: BNL6				
	C Rail/End Clip						Aluminum	BNCA1000, S	teel: BNL7				
	DIN + C Rail/End Clip Aluminum: BNJ				: BNJA1000, Steel: BNL6/BNL7								
	*1: T	he ra	ated current differs acco	ording to operatir	q conditions	. See "Selectine	Terminal Block	s by Current A	ccording 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.

IDEC

APEM

Switches & Pilot Lights

Control Boxes

Emergency Stop Switches Enabling Switches

Safety Products

Explosion Proof

Terminal Block

Relays & Sockets

Circuit Protectors Power Supplies

LED Illumination

Controllers

Operator Interfaces

Sensors

AUTO-ID

		Part No.	☆ BN		70A				
		Part NO.	× BN:		TUA	, <u>M5</u>			
	Self-Lifting Terminal	Dimensions	When using 35mm DN Rail-44 When using C Rail-50						
		Ordering No.			WPN20				
ą		Package Quantity			20				
Standard		Weight (Approx.)			5.4g				
Sta		Part No.	☆ BNH	50W	70A	E_M5			
	Touch-Down Terminal	Dimensions	When using 35mm DNI Reli:44						
		Ordering No.		BNH5	OWPN20				
		Package Quantity			20				
		Weight (Approx.)			29g				
Sta	ndaro		UL/CSA		EN	JIS			
5	Insu	Ilation Voltage	600V		60V	800V			
Specification / Ratings		e Size	16-6 AWG	(16-	6 AWG)	14 mm ²			
ion /		ed Current *1	60A		67A	70A			
ficat		ninal screw nping Terminal	<u> </u>		M5 5 to 14-5				
peci		No. of Crimping Terminals		1.20-3	2				
S		tening Torque		2.6 to	2 3.7 N · m				
		5			ø5.2 min.				
Crir Dim	iensi	g Terminal ons (mm) *2	1	2.8 max.					
		Plate	BNE50W						
۳		t cover	BNC320						
nries		king Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/725						
Accessories *3		king Strip Fastner	BNM3 Aluminum: BAA1000, Steel: BNL8						
Acci		Rail/End Clip ail/End Clip	Aluminum: BAA1000, Steel: BNL8 Aluminum: BNCA1000, Steel: BNL8						
		+ C Rail/End Clip	Aluminum: BNCA1000, Steel: BNL8 Aluminum: BNJA1000, Steel: BNL8						
*1: The rated current differs according to operating conditions. See "Selecting Termin									

*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.

Tern									
nina			Part No.	☆ BN7	5W 94A	E M6	BN100)w 132A	M8
Terminal Blocks									
				5					
APEM						4			4
Switches & Pilot Lights								1 Alexandre	
Control Boxes								ALC: NO	
Emergency Stop Switches					A				•
Enabling Switches	ţ	a							
Safety Products	Large Capacity	Screw Terminal	Dimensions						
Explosion Proof	rge C	'ew T				Dust Cover (BNC420)		63	29.8
Terminal Blocks	La	Sci			26	22.5 20 17			
Relays & Sockets				s 11 (***					
Circuit Protectors				44.2 Minen using BNCA, BNCP.			When using 33mm DN Rail:22		
Power Supplies				en using	<u> </u>				
LED Illumination									
Controllers				<	53 BAA1000				v_
Operator Interfaces									
Sensors			Ordering No.		DNZEWDNIO			DN100WDN05	
AUTO-ID		Ordering No. Package Quantity Weight (Approx.)			BN75WPN10 10			BN100WPN05 5	
					45g			86g	
			5 (11)					0	
	Star	ndard	S	UL/CSA	EN	JIS	UL/CSA	EN	JIS
BN		Insu	lation Voltage	600V	660V	1000V	600V	660V	1000V
	Specification / Ratings	Wire	e Size	16-4 AWG	22 mm ² (8-4 AWG)	22 mm ²	16-2 AWG	38 mm ² (2AWG)	38 mm ²
	/ Ra	Rate	ed Current *1	80A	94A	94A	100A	132A	132A
	tion		ninal screw *2		M6			M8	
	ifica		nping Terminal		2-6 to 22-6			2-8 to 38-8	
	pec	Max	No. of Crimping Terminals		2			2	
	S		ket Wrench	12.7 mm squ	are drive hexagona		12.7 mm squ	uare drive hexagonal s	ocket 13 (*2)
		Tigh	tening Torque		39 to 54 N·m			10 to 13 5 N m	

S	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				
	nping Terminal nensions (mm) *3	06.2 min. 16.8 max. 8.5 max. 6 min.	22.8 max. 11 max. 10 min.				
	End Plate	BNE75W	BNE100W				
ي	Dust Cover	BNC420	BNC520				
es *	Marking Strip	PVC 1m/BNM7, Fiber glass 1m/BNM9, PVC 25m/BNM725					
sori	Marking Strip Fastner	BN	M3				
Accessories	DIN Rail/End Clip	Aluminum: BAA1	000, Steel: BNL8				
Type C Rail/End Clip Aluminum: BNCA1000, Steel: BNL8							
	DIN+Type C Rail/End Clip	Aluminum: BNJA	1000, 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. BN150W 175A <imtext>M8 BN150NW 175A <imtext></imtext></imtext>	
	M® Blocks
	APEM
	Switches & Pilot Lights
	Control Boxes
la l	Emergency Stop Switches Enabling Switches
B E Dimensions	Safety Products
Ain Dimensions Burger S. Crew Research Company and Crew Research Compa	Explosion Proof
$\begin{vmatrix} \hline 63 \\ \hline 33 \\ \hline 23 \\ \hline 74 $	Terminal Blocks
	Relays & Sockets Circuit Protectors
When using 35mm DN Rait 35 We using 35 We	Power Supplies
	Controllers
35mm DIN Rail	Operator Interfaces
Ordering No. BN150WPN05 BN150NWPN05	Sensors
Packaging Quantity 5 5	AUTO-ID
Weight (Approx.) 88g 95g Standards UL/CSA EN JIS — — —	JIS
Insulation Voltage 600V 660V 1000V — —	630V BN
Big Wire Size 16-1/0 AWG 60 mm ² (1/0 AWG) 60 mm ² — —	60 mm ²
wire Size 16-1/0 AWG (1/0 AWG) 60 mm² — _ </td <td>175A</td>	175A
Terminal screw *2 M8	
Crimping Terminal 2-8 to 60-8 2-8 to 60-8 Max. No. of Crimping Terminals 2 2 Contract Women 2 2	
Socket Wrench 12.7 mm square drive hexagonal socket 13 (*4) 12.7 mm square drive hexagonal so	socket 13
Tightening Torque 10 to 13.5 N·m 10 to 13.5 N·m	
Crimping Terminal Dimensions (mm) *3	
End Plate BNE150W	
Dust Cover BNC520	
Marking Strip PVC 1m/BNM7, Fiber glass 1m/BNM9 PVC 25m/BNM725	
Marking Strip PVC 25m/BNM725 Marking Strip Fastner BNM3 DIN Rail/End Clip Aluminum BAA1000, Steel: BNL8	
Big 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.



AUTO-ID

		Part No.	BN200B	W 240A	EM10	BN200BW□K	240A	Surface Mount
	Screw Terminal	Dimensions	Dust Cover 90 (between terminal screws: 4	Hexagonal bolt M10×15	- 3P), 152 (4P) 	90 (between terminal screws: 46		100 (2P) 173 (3P) 174 (4P) 115 (3P), 152 (4P) ↓ 37 ⇒
							╜╶╨┊╇╢╌┼╴), 137 (3P), 174 (4P)
₹.		Package Quantity		1			1	
Large Capacity		Weight (Approx.)		430g, 3P: 650g, 4P: 8	-		490g, 3P: 710g, 4P:	
le C		Part No.	BN200N	IW 240A	EM10	BN200NW□K	240A (M10	Surface Mount
	minal	ninal		Hexagonal bolt M10×13				<u>4-M6 Screw</u>
	Stud Terminal	Dimensions	Dust Cover 90 (between terminal screws: - 90 (between terminal screws: - 90 (between terminal screws: -			90 (between terminal screws: 44		7), 115 (3P), 152 (4P) 0 1 37 33 4 1 4 1 1 1 1 1 1 1 1 1 1 1 1 1
		Package Quantity		1			1	
		Weight (Approx.)	2P: 5	500g, 3P: 720g, 4P:	940g	2P: 5	60g, 3P: 780g, 4P:	1000g
Sta	ndaro		UL/CSA	EN	JIS	UL/CSA	EN	JIS
	Insu	ulation Voltage	600V	660V	800V	600V	660V	800V
ngs	Wire	e 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
/ Rat	Rate	ed Current *1	200A	240A	240A	200A	240A	240A
tion		minal Screw *2		M10			M10	
Specification / Ratings		nping Terminal		5.5-10 to 100-10			5.5-10 to 100-10	
peci	Max.	No. of Crimping Terminals		2			2	
	Soc	ket Wrench	12.7 mm squ	lare drive hexagonal so	ocket 17 (*2)	12.7 mm sq	uare drive hexagonal s	socket 17 (*2)
	Tigh	ntening Torque		21 to 28 N·m			21 to 28 N·m	
		g Terminal ons (mm) *3			32.8 max.	010.5 min.		
Acc	esso	ries (Supplied)			nd Plate, Dust Cover, M e) Marking Strip Fasten			
*4	DIN	Rail		Aluminum: BAA1000			_	
Accessories *4	C R	ail		Aluminum: BNCA1000			—	
Cesso		+C Rail		Aluminum: BNJA1000				
Acc	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.

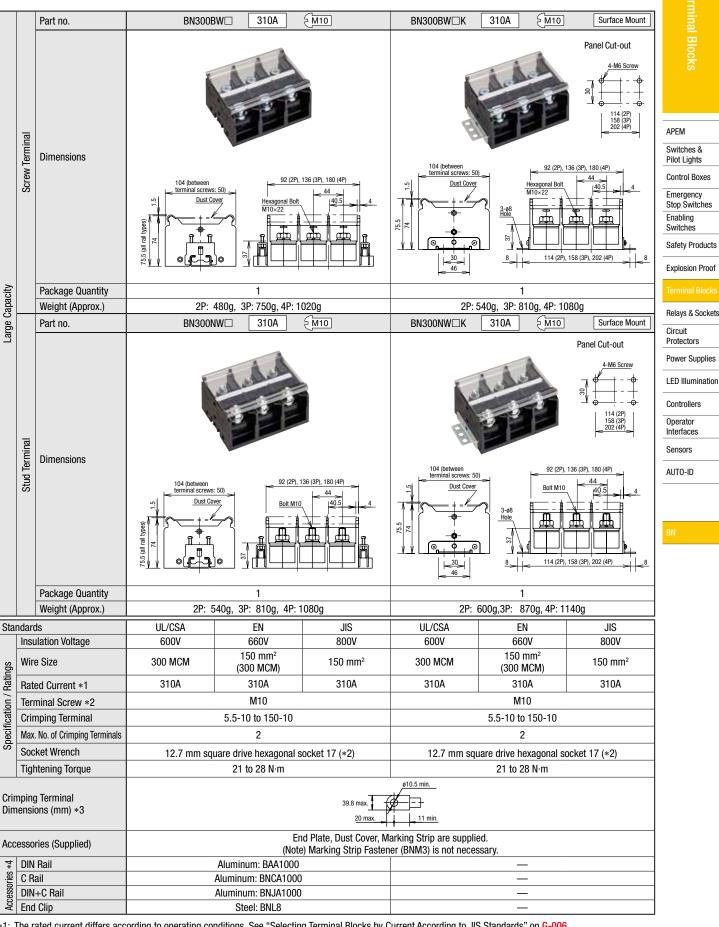
*2: The grooves on the head of the hex bolt are for temporary tightening. For proper tightening, use an applicable socket wrench and tighten within the range of the recommended tightening torque.

*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.

IDEC

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



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

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

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



		Part no.	BN400B	N	370A	(M12)	BN400BW⊡K	370A	EM12	Surface Mount
	rminal	Dimensions		A	1.				ľ	Panel Cut-out $ \begin{array}{c} 4-M6 Screw \\ \hline 4-M6 Screw \\ $
	Screw Terminal	Dimensions	120 (between terminal screws: 62) Dust Cover			P), 176 (3P), 233 (4P)	120 (between terminal screws: 62) Dust Cover			(3P), 233 (4P)
pacit		Package Quantity Weight (Approx.)	20: 01	50a 2D	1 : 1400g, 4P:	1860a	2D: 1(1 030g, 3P: 14	180a /D:1	940a
Large Capacity		Part No.	BN400N		370A	A M12	BN400NW□K	370A	M12	Surface Mount
La	Stud Terminal	Dimensions					Panel Cut-out ↓ -M6 Screw ↓			
	Stu	Package Quantity	120 (between terminal screws: 62) Dust Cover				Since the second secon		Bolt M12	(3P), 233 (4P) 57 52 52 52 5 52 5 52 5 52 5 52 5 52 5 52 5 52 5 52 5 52 5 52 5 52 5 52 5 52 5 52 5 52 5 52 52
		Weight (Approx.)		30g, 3P	2: 1460g, 4P:		, ,	060g, 3P: 15		
Sta	ndaro Insi	as ulation Voltage	UL/CSA 600V		EN 660V	JIS 800V	UL/CSA 600V	EN 660		JIS 800V
sbu		re Size	400 MCM		00 mm ² 00 MCM)	200 mm ²	400 MCM	200 r (400 N	nm²	200 mm ²
/ Rati	Rat	ed Current *1	350A		370A	370A	350A	370		370A
Specification / Ratings		minal Screw *2			M12			M1		
cifica		mping Terminal		14-1	2 to 200-12			14-12 to		
Spec	<u> </u>	K. No. of Crimping Terminals	10.7		2		10.7	2		akat 10 (+2)
	Socket Wrench Tightening Torque		12.7 mm squ		re hexagonal∷ to 49 N·m	socket 19 (*2)	12.7 mm square drive hexagonal socket 19 (*2) 38 to 49 N·m			
Dim	nping nensi	g Terminal ions (mm) *3				50.8 max.	ø12.5 min. ø12.5 min. at 4 min. arking Strin are suppli			
		ories (Supplied)			(Not	te) Marking Strip Faster				
es *4		l Rail			um: BAA1000				-	
Accessories	C R DIN	iail I+C Rail			ım: BNCA100 ım: BNJA100				-	
Acce		d Clip	,		eel: BNL8	<u> </u>				
		rated current differs acco	ording to operating con			a Torminal Plooks by (urrent According to 11	Ctondordo"		

*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.

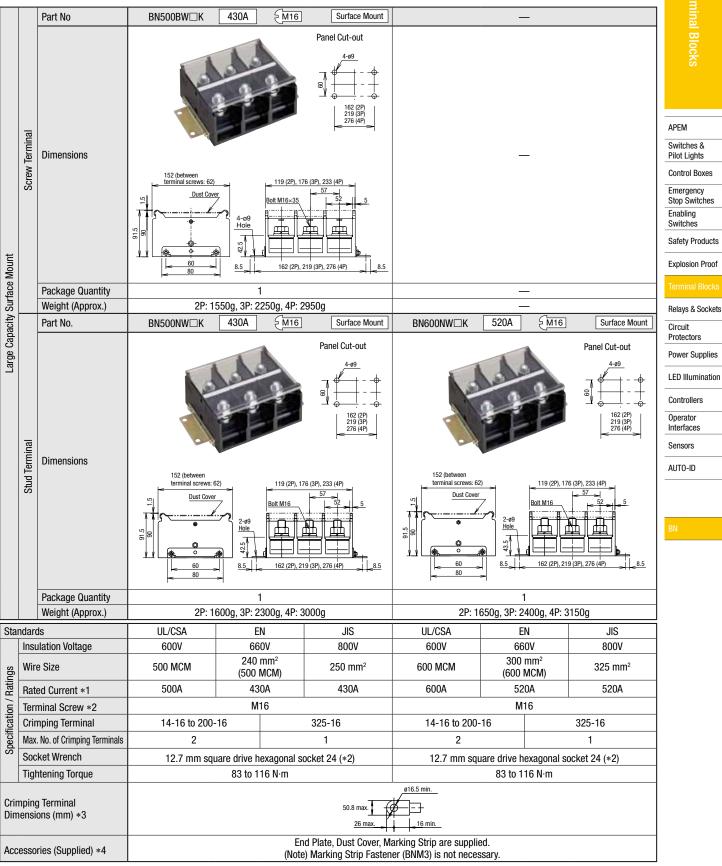
*4: See G-025 for details on accessories.

IDEC

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

DN

Sensors AUTO-ID



*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 \Box . 2-pole: 2, 3-pole: 3, 4-pole: 4.



APEM	
Switches & Pilot Lights	
Control Boxes	
Emergency Stop Switches	
Enabling Switches	
Safety Products	
Explosion Proof	d.
	it E
	<pre></pre>
Relays & Sockets	
Circuit	rminal
-	Terminal
Circuit	iftino Terminal v
Circuit Protectors	Self-1 iffing Terminal v
Circuit Protectors Power Supplies	Self-1 iffing Terminal v
Circuit Protectors Power Supplies LED Illumination	Self-1 iffing Terminal v
Circuit Protectors Power Supplies LED Illumination Controllers	Self-1 iffing Terminal
Circuit Protectors Power Supplies LED Illumination Controllers Operator	Self-1 iffling Terminal v
Circuit Protectors Power Supplies LED Illumination Controllers Operator Interfaces	Salf-1 iffind Terminal v

	BNF10S-□A 10/	M4	BNF10N-□A (With Lamp) 10A E M4		BNT20 20A E M4			
	63 63 63 63 63 63 63 63 63 63 63 63 63 6			•				
	Went using 55mm DN Nati. 55.1 When using C Pair 56.1			witch				
Self-Lifting Terminal with Fuse				th Disconnecting S				
Self-Lifting Ter	Fuse Ratings • Rated Voltage: 250V • Rated Current: 1, 3, 5, • Cartridge Fuse: JIS C 6 6.35×31.8 mm or 6.40× • Part No.: BNF10S-1A, BNF • Cartridge used: FGB1 t Industr	575-2 30.0 mm 10S-3A, BNF10S-5A	Internal Connection Fuse Neon Lamp 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.	Self-Lifting Terminal with Disconnecting Switch	Notes: • Rated Current: 20A • This terminal block cannot be used as a			
	Notes: UL/CSA approved p below are not supp When UL/CSA approv terminal blocks, use I • Part No.: BNF10SW • Rated Insulation Vo • Rated Current: 10A • Applicable Wire: 18 • UL File No.: E78117 • CSA File No.: LR64t	roducts shown lied with fuses. al is required for fuse IL/CSA-rated fuses. tage: 600V -10 AWG	 ages must be from 100 to 2500 Ac. Fuse Ratings Rated Voltage: 250V Rated Current: 1, 3, 5A Cartridge Fuse: JIS C 6575-2 6.35×31.8mm or 6.40×30.0mm Part No.: BNF10N-1A, BNF10N-3A, BNF10N-5A Note: 6.4×30.0mm fuse can also be used. Notes: UL/CSA approved products shown below are not supplied with fuses. When UL/CSA approval is required for fuse terminal blocks, use UL/CSA-rated fuses. Part No.: BNF10NW Rated Insulation Voltage: 300V Rated Current: 10A Applicable Wire: 18-10 AWG UL File No.: E78117 CSA File No.: LR64803 		Has terminal block cannot be used as a disconnect switch. When switching on/off, make sure that voltage is not applied. ON OFF Terminal Screw			
Ordering No.	BNF10S-DA	PN20	BNF10N-□APN20	Ordering No.	BNT20PN20			
Package Quantity Weight	20		20	Package Quantity Weight	20			
(Approx.)	34g		34g	(Approx.)	36g			
Specification / Ratings	Insulation Voltage Wire Size Rated Current Terminal Screw Crimping Terminal Max. No. of Crimping Terminals Tightening Torque	5.5 mm² 10A max. v M4 1.25-4 to 5.5-4		JIS 600V 5.5 mm ² 20A M4 1.25-4 to 5.5-4 2 1.4 to 2.0 N·m				
Crimping Te	Crimping Terminal Dimensions (mm)		11.3 max	4.2 min.				
	End Plate		BNE20		DNCE20			
Accessories *1	Dust Cover			P\/	BNC520 /C 1m/BNM7, Fiber glass 1m/BNM9			
sorie	Marking Strip		_		PVC 25m/BNM725			
seoc	DIN Rail/End Clip		Aluminum: BAA1000,					
AC	C Rail/End Clip		Aluminum: BNCA1000,					
	DIN+C Rail/End Clip		Aluminum: BNJA1000, St	eel: BNL6/BN	L7			
. 1. 0 0 -	See G-025 for details on accessories.							

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

Image: stand biology of the stand bioly of the stand biology of the stand bioly of the stan	_					_				erm
Image: provision of the second seco			Part No.	BND1	5W 16A そ	M3	BND1	5LW 21A 🗧	M3.5	inal
Ordering No. BND15WP125 BND15WP125 BND15WP125 Depactage Duantity D	ý	Self-Lifting Terminal	Dimensions	a a			8			APEM Switches & Pilot Lights Control Boxes Emergency Stop Switches Enabling Switches
Image: Source Supples Image: Source Sup	Blocl		Ordering No.		BND15WPN25			BND15LWPN25		
Image: Source Supples Image: Source Sup	inal									Explosion Proof
Image: Source Supples Image: Source Sup	erm				16g			23g		Terminal Blocks
Image: Source Supples Image: Source Sup	L X		ĺ	BNDH		M3	BNDH		M3.5	Belays & Sockate
Image: Source Supples Image: Source Sup	e-De					2			2	
Image: Standards U/CSA EN J/S U/S EN J/S U/S <td>Double</td> <td></td> <td></td> <td></td> <td>P</td> <td></td> <td>8</td> <td></td> <td></td> <td>Protectors</td>	Double				P		8			Protectors
Image: space of the second				P- 3	A.		P	The second se		
Ordering No. BNDH15WPN25 BNDH15LWPN25 Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>		inal		Lines			1000		<u>-17.3 -</u>	Controllers
Ordering No. BNDH15WPN25 BNDH15LWPN25 Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>		Terr	Dimensions		62 ≤ 38 18			* <u>62</u> * <u>38</u> * <u>18 +</u>	15.8 10.5 8.5	
Ordering No. BNDH15WPN25 BNDH15LWPN25 Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>		uwo								
Ordering No. BNDH15WPN25 BNDH15LWPN25 Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>		ch-D								
Ordering No. BNDH15WPN25 BNDH15LWPN25 Package Quantity 25 25 Weight (Approx.) 17g 26g Standards UL/CSA EN JIS Insulation Voltage 600V 660V 800V Wire Size 22-14 AWG 2 mm² 1.25 mm²(1) 22-14 AWG 2 mm² Mated Current *2 10A 22A 16A 15A 22A 21A Terminal Screw M3.5 2:3.5 3.3 m².1 2:3.5 3.5 m².4 Max. o. d'Crimping Terminal 1.25-3 (2-3) 2:3.5 3.5 m².4 3.5 m².4 m².4 Tightening Torque 0.6 to 1 N m 1 to 1.3 N·m 4.5 ma².4 mm. 5.5 ma².4 mm.4 mm.4 Surface Mounting Clip 5.5 ma².4 mm.5 m².4 mm.5 m².4 mm.5 m².4 mm.4 mm.4 mm.4 mm.4 mm.4 mm.4 mm.4		Tou			61.2.(Mnen using C			62 20/men using		
Package Quantity Weight (Approx.) 25 25 Standards UL/CSA EN JIS UL/CSA EN JIS Insulation Voltage 600V 660V 800V 600V 660V 800V Wire Size 22-14 AWG 2 mm² 1.25 mm²(+1) 22-14 AWG 2 mm² Rated Current *2 10A 22A 16A 15A 22A 21A Terminal Screw M3 M3.5 Crimping Terminal 1.25-3 (2-3) 2-3.5 3.5 Max. No. of Crimping Terminal 2 ma² 2 mm² 2 2 3.5 Tightening Torque 0.6 to 1 N·m 1 to 1.3 N·m 8.5 mms			Oudening No.		DND14 SWDNOS	+ ⁰ +				BN
Weight (Approx.) 17g 26g Standards UL/CSA EN JIS UL/CSA EN JIS Insulation Voltage 600V 660V 800V 660V 800V Wire Size 22-14 AWG 2mm² 1.25 mm²(*1) 22-14 AWG 2 mm² 2 mm² Rated Current *2 10A 22A 16A 15A 22A 21A Terminal Screw M3 M3.5 2-3.5 2 2 2 Max. No. of Crimping Terminal 1.25-3 (2-3) 2-3.5 2 2 2 Tightening Torque 0.6 to 1 N·m 1 to 1.3 N·m 85 max 5 max 4 mm. View provide 0.6 to 1 N·m 1 to 1.3 N·m 85 max 5 max 4 mm. Upper Deck: BNC230, Lower Deck: BNC240 BNDE15UW/BNDE15W2 BNDE15UW/BNDE15UW2 BNDE15UW/BNM7.55 Marking Strip Fastener BNM3 5 max 5 m										
Standards UL/CSA EN JIS UL/CSA EN JIS Insulation Voltage 600V 660V 800V 660V 800V 800V <td></td>										
Insulation Voltage 600V 660V 800V 660V 800V Wire Size 22-14 AWG 2 mm² 1.25 mm²(+1) 22-14 AWG 2 mm² 2 mm² Rated Current *2 10A 22A 16A 15A 22A 21A Terminal Screw M3 M3.5 2-3.5 2 2 Max. No. of Crimping Terminal 1.25-3 (2-3) 2-3.5 2 2 2 Tightening Torque 0.6 to 1 N·m 1 to 1.3 N·m 3.5 mm. 3.5 mm. 3.5 mm. 3.5 mm. 5 mm. 5 mm. 5 mm. 5 mm. 4.5 mm. 4.5 mm. 5 mm.	Cto	ndar				110			IIC	
Wire Size 22-14 AWG 2 mm² (22-14 AWG) 1.25 mm²(*1) (2 mm² max) 22-14 AWG 2 mm² (22-14 AWG) 2 mm² (22-14 AWG) 2 mm² (22-14 AWG) Rated Current *2 10A 22A 16A 15A 22A 21A Terminal Screw M3	010	r								
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Tightening Torque 0.6 to 1 N·m 1 to 1.3 N·m Crimping Terminal (mm) *3 Image: state	atin					(2 mm ² max)				
Tightening Torque 0.6 to 1 N·m 1 to 1.3 N·m Crimping Terminal (mm) *3 Image: state	n/F			10A		16A	15A		21A	
Tightening Torque 0.6 to 1 N·m 1 to 1.3 N·m Crimping Terminal (mm) *3 Image: state	catic									
Tightening Torque 0.6 to 1 N·m 1 to 1.3 N·m Crimping Terminal (mm) *3 Image: state	ecifi									
Crimping Terminal (mm) *3 ^{6.6 max} ^{6.6 max} ^{5 max} ^{5 max} ^{6.6 max} ^{5 max} ^{6.6 max}	Sp							t.		
Crimping Terminal (mm) *3 6.6 max 8.5 max 6.6 max 5 max 5 max 5 max 4 min. 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 Rod: BNR1, BNR2, Connecting Nut: BNN1 DIN Rail/End Clip Aluminum: BAA1000, Steel: BNL6 C Rail/End Clip Aluminum: BNCA1000, Steel: BNL7		figh	itening lorque							
Cimping terminal (init) *3 Image: state and state										
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Marking Strip Fastener BNM3 Surface Mounting Clip BNDL2 Connecting Rod/ Connecting Rod: BNR1, BNR2, Connecting Nut: BNN1 DIN Rail/End Clip Aluminum: BAA1000, Steel: BNL6 C Rail/End Clip Aluminum: BNCA1000, Steel: BNL7										
DIN Rail/End Clip Aluminum: BAA1000, Steel: BNL6 C Rail/End Clip Aluminum: BNCA1000, Steel: BNL7	*4				FVG I			NIVIT LJ		
DIN Rail/End Clip Aluminum: BAA1000, Steel: BNL6 C Rail/End Clip Aluminum: BNCA1000, Steel: BNL7	Dries									
DIN Rail/End Clip Aluminum: BAA1000, Steel: BNL6 C Rail/End Clip Aluminum: BNCA1000, Steel: BNL7	ccessc	Con	necting Rod/		Con			NN1		
	∣◄	DIN	Rail/End Clip							
DIN+C Rail/End Clip Aluminum: BNJA1000, Steel: BNL6/BNL7										
*1. The rated applicable wire size is 1.25 mm ² but 2 mm ² wires can also be connected			· · · ·				0, 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.

STM .									
inal			Part No.	BN	D15WT	21A	E <u>M3.</u>	5	
erminal Blocks				4 A	2				
APEM		Self-Lifting Terminal	Dimensions		•	-	62 - 38		
Switches & Pilot Lights		ing Te	Dimensions		R R	1			
Control Boxes		elf-Lift			C Rail: 6		<u> P</u>		
Emergency Stop Switches Enabling Switches		Sc			61.2(When using C Rail: 67)	18.2			
Safety Products	lock		Ordering No.		BND	15WTPN2	5	<u>[8]</u>	
Explosion Proof	nal B		Package Quantity		DND	25	.0		
Terminal Blocks	Termi		Weight (Approx.)			17g	_		
Relays & Sockets	Deck		Part No.	BND	DH15WT	21A	EM3	.5	
Circuit Protectors	Double-Deck Terminal Block			8 B					
Power Supplies					2				
LED Illumination				1					
Controllers		inal				Ι.	62		
Operator Interfaces		n Term	Dimensions						
Sensors		Touch-Down Termina			61				
AUTO-ID BN		Touch			When using DIN Rail: 67				
			Ordering No.	BNDH15WTPN25					
			Package Quantity	25					
	01-0		Weight (Approx.)	LIL (00A		17g			
	Sta	ndaro Insi	is Ilation Voltage	UL/CSA 600V		EN 660V		JIS 800V	
	sbu		e Size	22-14 AWG		2mm ²		2 mm ²	
	Specification / Ratings	Rate	ed Current *1	15A	(22	-14 AWG) 22A		21A	
	cation		ninal Screw			M3			
	ecific		nping Terminal		1.25-	3.5 to 2-3	8.5		
	S,		. No. of Crimping Terminals Itening Torque		1.01	2 to 1.3 N·r	n		
		ngi			1.0		6 min		
	Crir	npinę	g Terminal (mm) *2		6.6 max.		.6 min		
			Plate			W/BNDE1		N0040	
			t Cover king Strip	Upper D PVC 1m/BNM7	eck: BNC2	-			
	÷.		king Strip Fastener			BNM3	10,1 10		
	ories	Sur	face Mounting Clip			BNDL2			
	Accessories *3		necting Rod/ necting Nut	Connecting	Rod: BNR1	, BNR2, C	onnectin	g Nut: BNN	
	A		Rail/End Clip		ıminum: BA				
			ail/End Clip		minum: BN				
	*1. 1		+C Rail/End Clip	Alumir ding to operating conditions	um: BNJA1				

*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.



BN15MC10 16A (common current) SM3

10



APEM Switches &

Pilot Lights Control Boxes

Emergency Stop Switches

Enabling Switches

Safety Products

Explosion Proof

Relays & Sockets Circuit Protectors

Power Supplies

LED Illumination

Controllers Operator

Interfaces Sensors

AUTO-ID

		NO. OI POIES	4	8	10				
minal	rminal	Shape	Terminal Terminal Common Terminal						
Common Terminal	Self-Lifting Terminal	Dimensions	When using 35mm DIN Rait: 35	37 (4P), 69 (8P),85 (10P) 8 - 6.7 100 100 100 100 100 100 100 10					
		Ordering No.	BN15MC4PN10	BN15MC8PN10	BN15MC10PN10				
		Package Quantity	10	10	10				
		Weight (Approx.)	30g	57g	70g				
		Color	Light Gray	Light Gray	Light Gray				
Sta	ndard	S		JIS					
	Insu	lation Voltage		600V					
ngs		e Size		1.25 mm ² (2 mm ² max.)					
Rati	Rate	ed Current		16A/Common Current					
) no	Tern	ninal Screw		М3					
icati		nping Terminal		1.25-3 (2-3)					
Specification / Ratings		. No. of Crimping		2					
S		ninals tening Torque		0.6-1.0 N·m					
	riyi								
Crir Dim	nping nensio	g Terminal ions (mm)							
	End	Plate		Supplied					
ي	Dus	t Cover		BNC230					
Accessories *5		king Strip	PVC 1r	n/BNM7, Fiber glass 1m/BNM9, PVC 25m/Bl	NM725				
sori	Mar	king Strip Fastener		BNM3					
ces	DIN	Rail / End Clip		Aluminum: BAA1000, Steel: BNL6					
Ă	C Ra	ail / End Clip		Aluminum: BNCA1000, Steel: BNL7					
	DIN	+C Rail / End Clip		Aluminum: BNJA1000, Steel: BNL6/BNL7					
	The rated applicable wire size is 1.25 mm ² but 2 mm ² wires can also be connected								

BN15MC8 16A (common current) SM3

8

*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.

BN15MC4 16A (common current)

4

Part No. No. of Poles

*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

BN15MC4 (+) (-) PL C L0 to L7: Load

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

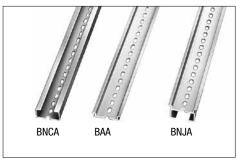
Used for ends of terminal blocks. Also used to hold the marking strips in place.

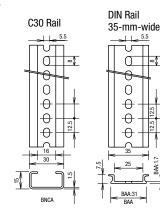


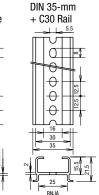
Note: BNDE15W2 and BNDE15LW2 are end plates used for securing marking strips at the end of double deck terminal blocks.

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
	BNCA1000	BNCA1000PN10	Aluminum	260g	10
1000 mm	BAA1000	BAA1000PN10	Aluminum	200g	10
	BNJA1000	BNJA1000PN10	Aluminum	340g	10

APEM

Switches & Pilot Lights

Control Boxes

Relays & Sockets

LED Illumination

Controllers

Operator Interfaces Sensors AUTO-ID

Circuit

Protectors Power Supplies

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



32

BNL8 (M4 Screw) (*3)

 Material: 	Steel
• Disting	Trivelant

• Plating: Trivalent zinc chromate

Tightonir	ng torque: 1.1 N·m						inte ententate	
nginenii								Emergency Stop Switches
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	Weight (Approx.)	Package Quantity	Enabling Switches
					larger	(Approx.)	Quantity	Safety Products
BNL6	BNL6PN10	BAA	×	× (*2)	—	15.2g	10	
BNL7	BNL7PN10	BNCA, BNCP, BNJA	×	× (*2)	—	16g	10	Explosion Proof
BNL8	BNL8PN10	BAA, BAP, BNCA, BNCP, BNJA	— (*1)	×	×	56g	10	Terminal Blocks

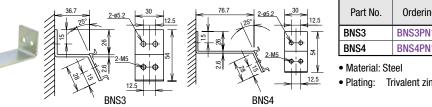
*1: Do not use BNL8 because the insulation distance will be insufficcient if used.

*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						

Trivalent zinc chromate

Dust Cover Material: Polycarbonate BNC1000 BNC230 BNC320 BNC420 BNC520 BAC820 BNC930 BNC240

Length	Width (mm)	Part No.	Ordering No.	Terminal Blocks (□: No. of Poles)	Weight (Approx.)	Package Quantity
	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
1m	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	BNC230PN10	BND15W, BNDH15W, BND15LW, BNDH15LW, BND15WT	56g	10	
		Lower Deck BNC240	BNC240PN10	BND15LW, BNDH15LW, BND15WT, BNDH15WT	15g	10



Accessories (Marking Strips / Marking Strip Fastener / Slide Marking Strip) Marking Strips, Marking Strip Fastener Weight Package Item Part No. Ordering No. Specification (approx.) Quantity PVC (glossy surface) BNM7 BNM7PN10 10 7.2g 1000 mm \times 9.5 mm \times 0.5 mm Fiber glass (matte surface) Marking Strip BNM9 BNM9PN10 6.4g 10 APEM 1000 mm \times 9.5 mm \times 0.5 mm BNM7 BNM9 BNM3 PVC (matte surface) Switches & BNM725 **BNM725** 1 ____ $25 \text{ m} \times 9.5 \text{ mm} \times 0.5 \text{ mm}$ Pilot Lights Marking Strip BNM3 BNM3PN50 50 Control Boxes 0.1g Fastener Emergency Stop Switches • To install the marking strip fastener Enabling 9.5mm Switches Safety Products Explosion Proof ø75mm 160mm Relays & Sockets Circuit Protectors Sliding Marking Strip (BN10W to BN30W) Power Supplies End plate (Thickness 5 mm)

LED Illumination Marking Strip Holder Controllers 17-mm-wide Operator Marking Strip Interfaces Sensors AUTO-ID

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

BNES15W BNES30W

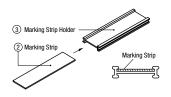


	Item	Part No.	Ordering No.	Terminal Blocks	Specification	Package Quantity
BN BN		BNES15W	BNES15WPN10	BN10W to BN15LWT	For sliding marking strip	10
① End Plate	BNES30W	BNES30WPN10	BN30W For sliding marking strip		10	
	② Marking Strip BNM5		BNM5PN10		PVC (Note)	10
	③ Marking Strip Holder	BNMH1	BNMH1PN10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

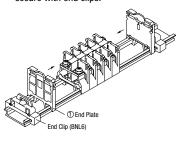
Note: Length 1000 mm × Width 9.5 mm × Thickness 0.5 mm

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 Marking Strip Holde (4) Dust Cover

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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.

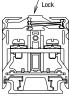
Movement

· 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.

Ferminal Blocks

Accessories (Jumper)

Jumpers for 6 Poles (Material: Brass, Plating: Nickel-plated, Insulation: PVC)							I Blocks		
Part No.	Ordering No.	Terminal Centers	Insulation	Dimensions	Current (Note 1, 2)	Applicable Terminal Block	Weight (Approx.)	Package Quantity	cks
BNJ16	BNJ16PN10		Without	Ring Terminal 57 7 7 14 14 14			2.84	10	
BNJ16B	BNJ16BPN10		With		101	BN10W	2.8g	10	APEM Switches &
BNJ16F	BNJ16FPN10	7 mm	Without	Fork Terminal	10A	BNH10W		10	Pilot Lights Control Boxes
BNJ16FB	BNJ16FBPN10		With				2.7g	10	Emergency Stop Switches Enabling Switches
BNJ26W	BNJ26WPN10		Without	Ring Terminal $40 (6-pole)$				10	Safety Products Explosion Proof
BNJ26WB	BNJ26WBPN10		With			BN15MW BNH15MW BN15MWT BNH15MWT	3.1g	10	Terminal Blocks
BNJ26FW	BNJ26FWPN10	8 mm	Without	Fork Terminal $40 (6-pole)$	20A	BND15W BNDH15W BND15WT		10	Relays & Sockets Circuit Protectors
BNJ26FWB	BNJ26FWBPN10	-	With			BNDH15WT	3.1g	10	Power Supplies
BNJ46	BNJ46PN10		Without	Ring Terminal 52.5 (6-pole)				10	Controllers Operator
BNJ46B	BNJ46BPN10		With			BN15LW BNH15LW	4.6g	10	Interfaces Sensors
BNJ46F	BNJ46FPN10	10.5 mm	Without	Fork Terminal $52.5 (6-pole)$ $\frac{82}{10.5}$ $\frac{10.5}{10.4}$ $\frac{11.4}{10.8}$	20A	BN15LWT BNH15LWT BND15LW BNDH15LW		10	AUTO-ID
BNJ46FB	BNJ46FBPN10	-	With				3.0g	10	BN
BNJ56	BNJ56PN10		Without	$\begin{array}{c} \text{Ring Terminal} \\ \begin{array}{c} 9.3 \\ \end{array} \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \begin{array}{c} 0 \\ 0 \\ 0 \\ \end{array} \xrightarrow[]{12} \\ \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \xrightarrow[]{12} \\ \xrightarrow[]{12} \\ \end{array} \xrightarrow[]{12} \\ \xrightarrow[]{12}$				10	
BNJ56B	BNJ56BPN10		With	Fork Terminal $60 (6-pole)$ 42^{23} 12 14 03 14 03 14 03 14 03 14 03 14 03 14 03 14 03 14 03 14 03 14 03 14 03 14 14 15 14 14 14 14 14 14 14 14		BN30W BNH30W	3.2g	10	
BNJ56F	BNJ56FPN10	12 mm	Without		30A		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	904	BN50W	10
BNJ62B	BNJ62BPN10	14.5 mm	With		80A	BNH50W	10

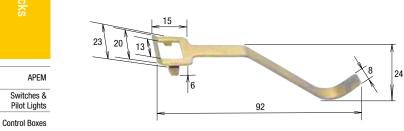
Material: nickel-coated brass

Sheath: PVC

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

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

Accessories (Removal Tool)



A tool for removing terminal blo	cks from the DIN rail.
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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

Safety Products Explosion Proof

Relays & Sockets

Power Supplies

LED Illumination Controllers Operator

Circuit

Protectors

Interfaces Sensors AUTO-ID

Emergency Stop Switches Enabling

Switches



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	21g	265 mm (M4×0.7)	10
BNR2	BNR2PN10	BND15WT, BNDH15WT BND15LW, BNDH15LW	43g	500 mm (M4×0.7)	10

Material: Steel

• Plating: Zinc

Connecting Nuts





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

 Material: Steel • Plating: Zinc

G-029

Calculating Rail Lengths and Mounting Centers

• BNCA, BAA, and BNJA Rails

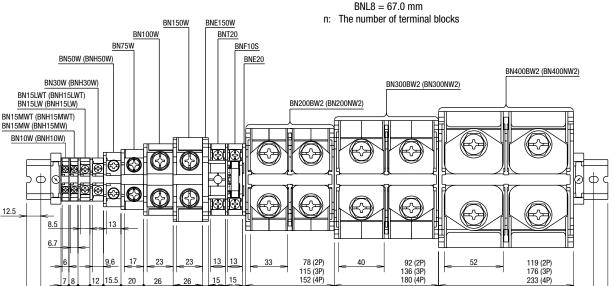
 $L_1 = 12.5 \times N$ $L_2 = L_1 - 25$

12.5

- This formula is for calculating the maximum rail length including Note: 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)

 $M = \frac{(A + 0.1) n + B + C}{1}$ 12.5

- A: Thickness of each terminal block
- Thickness of end plate B:
- C: Thickness of end clip when using 2 pieces of: BNL6 = 56.0 mmBNL7 = 62.5 mm BNL8 = 67.0 mm



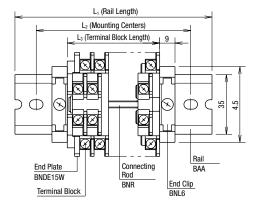
L₂ (Mounting Centers L1 (Rail Length)

*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

3

Rail Length (Double-Deck)

10.5



Calculating the length (mm)

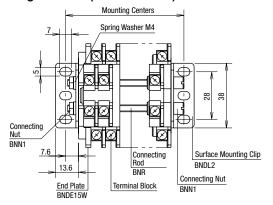
Part No.	BND15W BNDH15W BND15WT	BND15LW BNDH15LW
L1 (*1)	12.5 × N	
L2 (*1)	L ₁ – 25	
L3 (*1, *2)	8 × n + 9	$10.5 \times n + 10.3$
Connecting Rod Length (*1, *2)	8 × n + 8.7	10.5 × n + 10

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
$M = \frac{(8 \times n + 9 + 62.5)}{(8 \times n + 9 + 62.5)}$	$M = \frac{10.5 \times n + 10.3 + 62.5}{10.5 \times n + 10.3 + 62.5}$
12.5	12.5

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.

Mounting Centers (Double-Deck)



Calculating the length (mm)

Part No.	BND15W BNDH15W BND15WT	BND15LW BND15HLW
Mounting Centers (*1, *2)	$8 \times n + 24.2$	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

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Instructions

How to Use Touch-Down Terminals



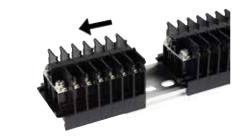


With the terminal screws in the up position, insert a ring crimping terminal.

+

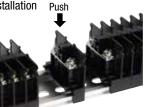
2. Push down the head of the screw lightly to hold the crimping terminal.

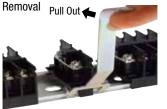
Installation and Removal on Rails



Additional Installation and Removal (on DIN Rail)

Installation

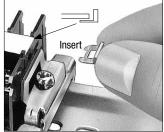


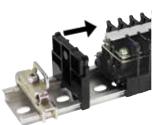


Notes: The following terminal blocks can be added or removed: BN10W, BNH10W, BN15MW, BNH15MW, BN15LW, BNH15LW, BN30W, BNH30W, BN15MWT, BNH15MWT, BN15LWT, BNH15LWT

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).

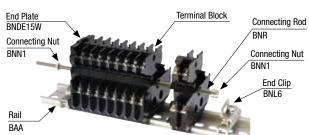


3. When the wiring is in position, tighten all the screws simultaneously.



in position,
ws4. To remove the wiring, loosen the
screw and lightly push up.

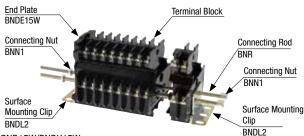
Installation of Double-Deck Terminal Blocks (BND) Rail Mount (photo: when using BND15W, BNDH15W, BNDE15W2)



BND15W/BNDH15W

- 1. Install end plate. Then mount the terminal blocks onto the DIN rail.
- 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.
- Secure the ends of the connecting rods with the connecting nuts (BNN1).

Sensors

Push in

2. With the lower end of the dust cover pressed

into the groove, push in the top end in the

direction of the arrow.

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Dust Cover 1. Press the lower end of the dust cover into the groove. **Removing Dust Covers from Lower Deck Terminals**

Lower Deck

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

Turn the power off before removing the dust cover.

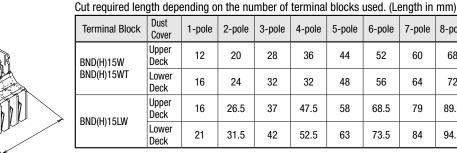
Installing Dust Covers on Lower Deck Terminals

Instructions

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

Length of Double-Deck Dust Covers

Upper-Deck Dust Cover BNC230



Groov

3.

dust cover.

2. Lift up in the direction of the arrow.

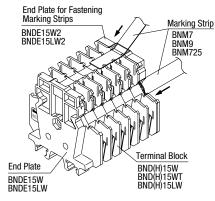
If the dust cover cannot be removed all at

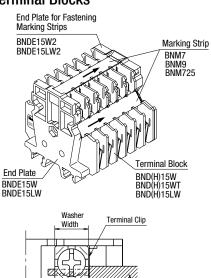
once, place fingers between the terminal block and dust cover, and slowly remove the

Lower-Deck Dust Cover BNC240

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.





8-pole

68

72

89.5

94.5

n-pole

8 (n+1) - 4

8 (n+1)

10.5 (n+1) - 5

10.5 (n+1)

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.

SAPEN01A_G TB July 2022



Wire

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
 - 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 $\ensuremath{\mathsf{IDEC}}$
- 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 $\ensuremath{\mathsf{IDEC}}$

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.

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

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

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