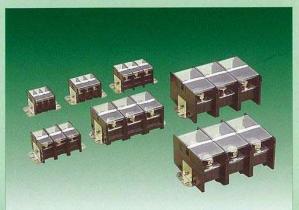
HC-Type Terminal Blocks



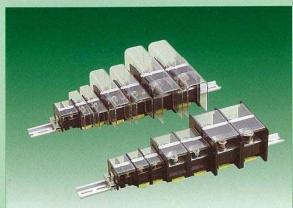




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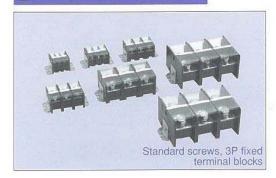
1. Models	1
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1. Models (Oindicates production model)

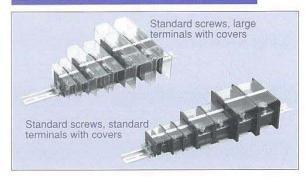
Model ope	Rated	Supported	ize screw	Fixed terminal blocks				Rail-mounted terminal blocks			
				Standard screws		Stud screws		Standard screws		Stud screws	
	operating	wire size (max.)		Standard terminals with covers	Large terminals with covers						
HC70	70A	14mm²	M5	0		0		•		•	
HC90	90A	22mm²	M6	0		0		•		•	
HC130	130A	38mm²	M8	•	•	0	•		0	•	•
HC175	175A	60mm ²	M8	0	•	0	0	•	0	0	0
HC300	300A	150mm ²	M10	0		•	0	•	0	0	0
HC400	400A	250mm ²	M12	0	•	0			0	•	
HC600	600A	325mm ²	M16	0	0	0	0			0	0

*We also offer heat-treating after assembly (see page 10)

Fixed terminal blocks series

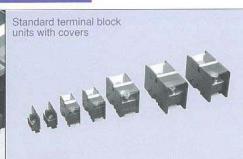


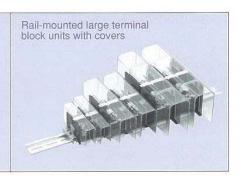
Rail-mounted terminal blocks series



Standard screw series

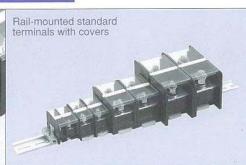


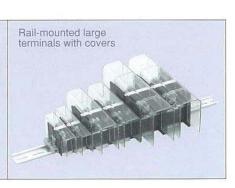




Stud screw series







2. Performance and characteristics

Standard compliance

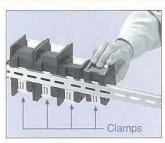
JISC2811 (industrial terminal blocks)

Specifications

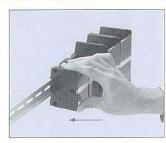
Rated dielectric strength		660V
Insulation resistance		100 M Ω min. (DC500 V megger)
Commercial power voltage resistance		2500 V, 1 minute
Impulse	e voltage resistance	$\pm 7000 \text{V} \ 1.2/50 \mu \text{s}$
Operating	Ambient temperature	-30∼ $+60$ °C (no condensation)
environment	Relative humidity	45~85%
Temperature rise		Conductor increase max. 45° C

3. Features

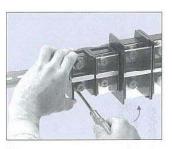
Ounits can be added and remove from anywhere on the rail



With clamp at bottom, snap top of unit over rail.



②Press clamp (bottom) against rail, and clamp hook will lock with rail securely.



③First, separate from adjacent unit(s). To remove unit, insert blade screwdriver into the clamp slot and pull upward.

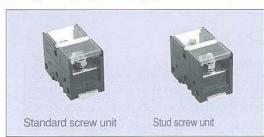
Easy-to-use terminal screws



For sizes M5 to M12, hex-headed bolts are provided with indentation for cross screwdriver, flat washer and spring.

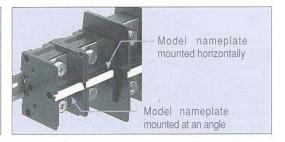
Hand-tighten with cross screwdriver

Design helps prevent gaps between units



Models HC130 to HC600 are independent. They are designed to minimize inter-unit gaps caused by left-right cable tension.

Easy-to-read model nameplate



The model nameplate may be mounted at an angle for optimal viewing, depending on the mounting position of the terminal block.

4. Product outlines

HC70

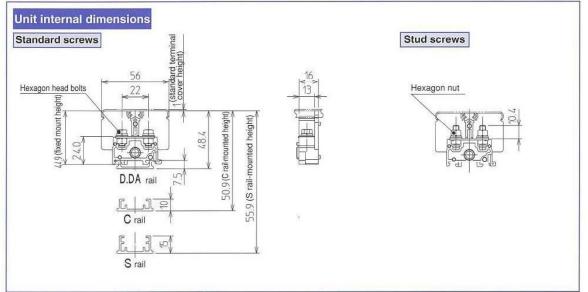
Rated operating current	70A
Supported wire size	MAX. 14 mm ² (6 AWG)
Terminal screw size	M5×10 hex-headed bolts (with Cross indentation)
Tightening torque	2.0~2.8 N·m

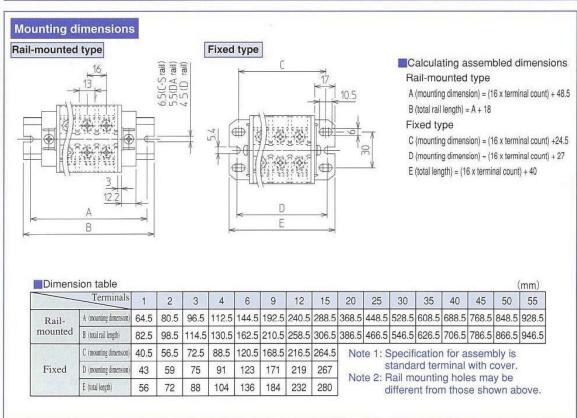
Compatible crimp terminal





Model nameplates and standard terminal covers sold separately

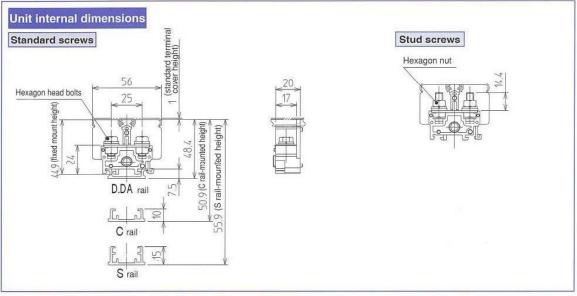


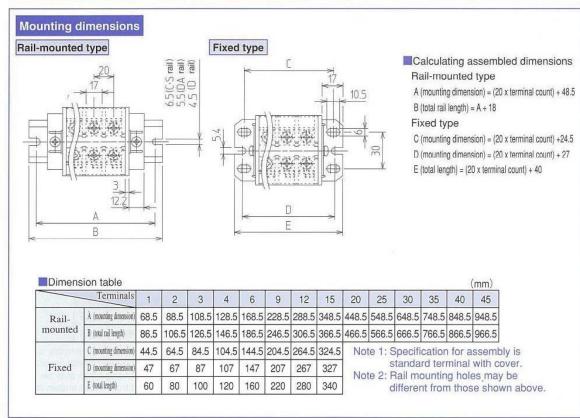


Rated operating current	90A
Supported wire size	MAX. 22 mm ² (4 AWG)
Terminal screw size	M6×12 hex-headed bolts (with Cross indentation)
Tightening torque	3.0~4.0 N·m





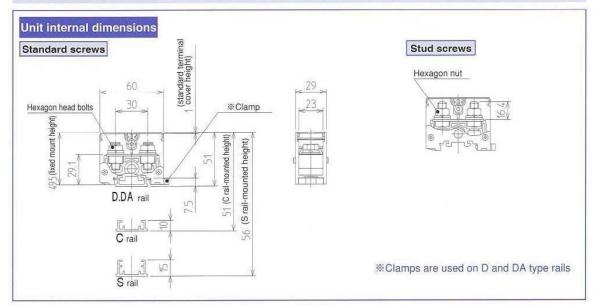


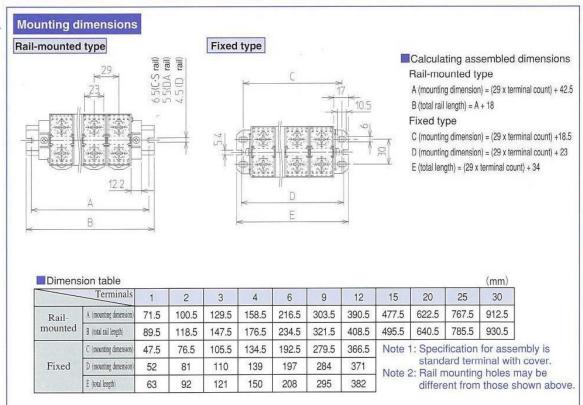


Rated operating current	130A
Supported wire size	MAX. 38 mm ² (2 AWG)
Terminal screw size	M8×18 hex-headed bolts (with Cross indentation)
Tightening torque	6~9 N·m



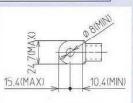




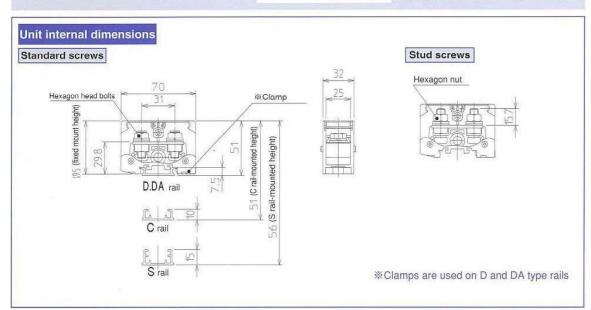


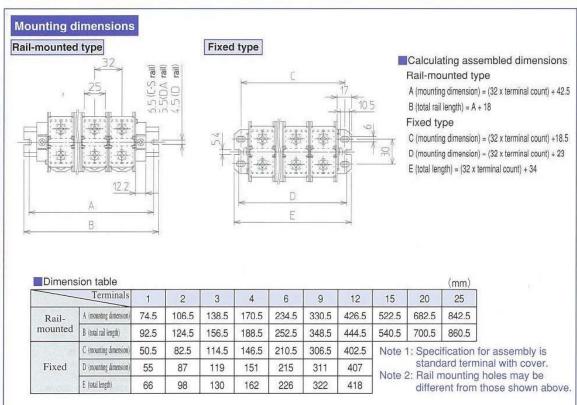
Rated operating current	175A
Supported wire size	MAX. 60 mm ² (2/0 AWG)
Terminal screw size	M8×18 hex-headed bolts (with Cross indentation)
Tightening torque	6~9 N⋅m

Compatible crimp terminal



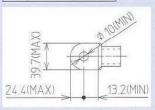




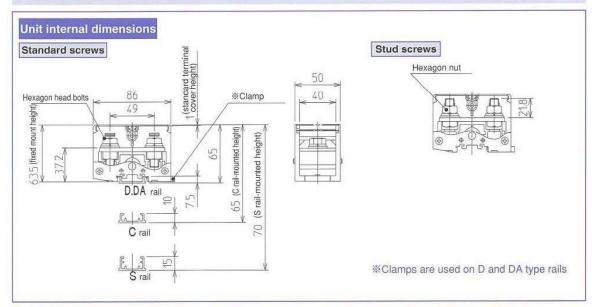


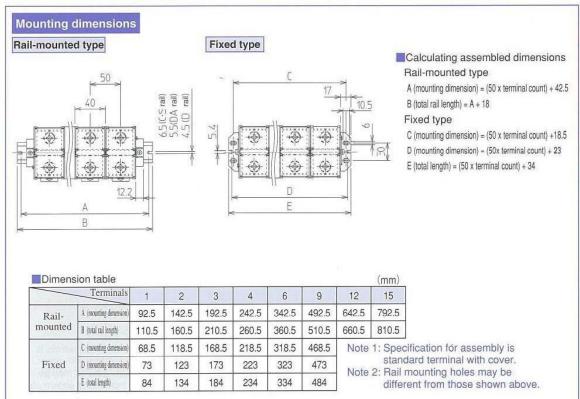
Rated operating current	300A
Supported wire size	MAX. 150 mm ² (300 MCM)
Terminal screw size	M10×25hex-headed bolts (with Cross indentation)
Tightening torque	10~16 N⋅m

Compatible crimp terminal



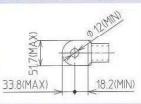




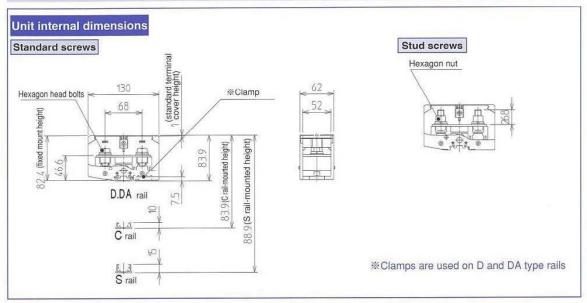


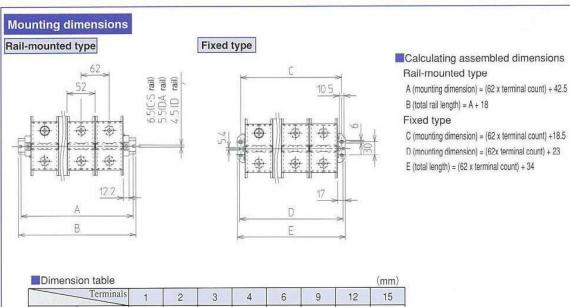
Rated operating current	400A
Supported wire size	MAX. 250 mm ² (500 MCM)
Terminal screw size	M12×25hex-headed bolts (with Cross indentation)
Tightening torque	14∼26 N⋅m

Compatible crimp terminal





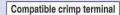


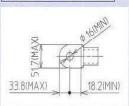


	Terminals	1	2	3	4	6	9	12	15		
Rail-	A (mounting dimension)	104.5	166.5	228.5	290.5	414.5	600.5	786.5	972.5	4.5	
mounted	B (total rail length)	122.5	184.5	246.5	308.5	432.5	618.5	804.5	990.5		
	C (mounting dimension)	80.5	142.5	204.5	266.5	390.5	576.5	Note	lote 1: Specification for assembly i		
Fixed	D (mounting dimension)	85	147	209	271	395	581	standard terminal with co			
	E (total length)	96	158	220	282	406	592	Note		rent from those shown ab	

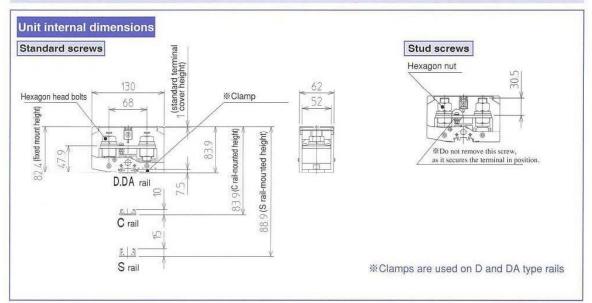
inal with cover. holes may be

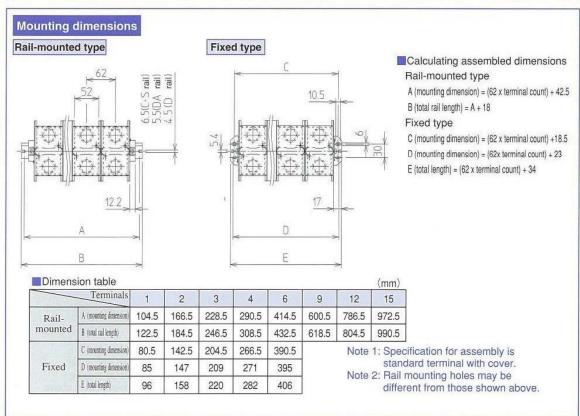
Rated operating current	600A
Supported wire size	MAX. 325 mm ² (600 MCM)
Terminal screw size	M16×35 hexagon head bolts
Tightening torque	25~38 N·m

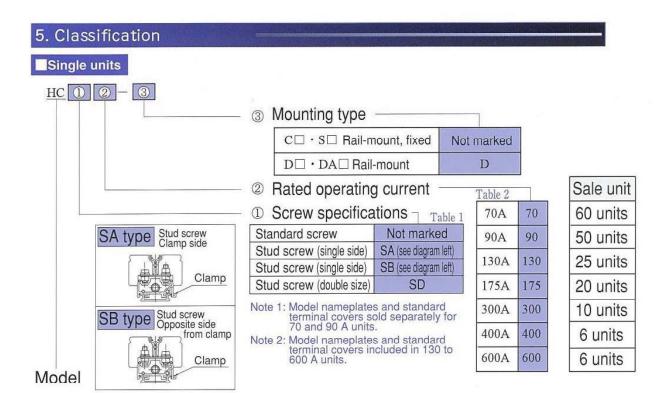


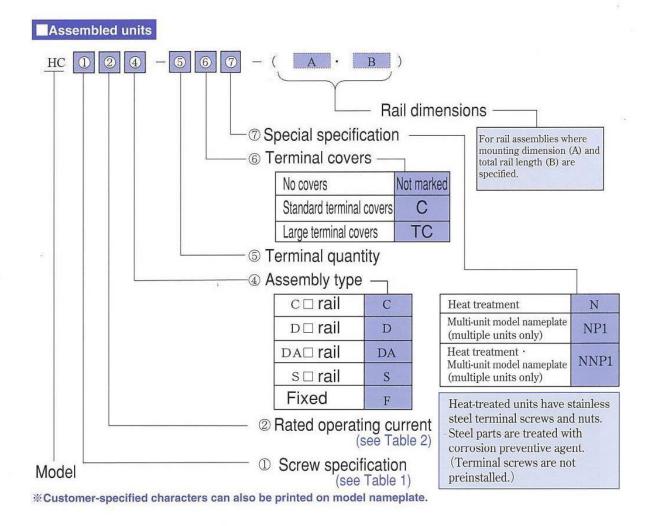






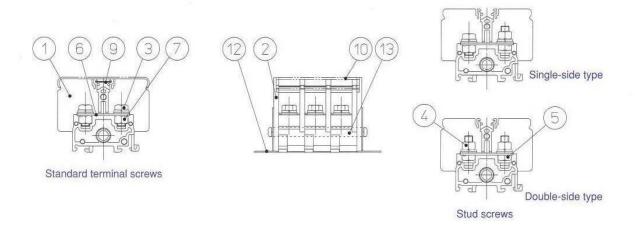




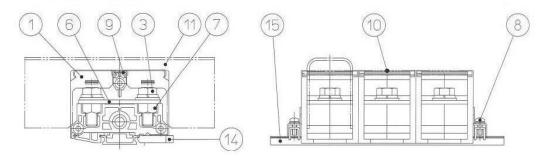


6. Part names and materials

HC70, HC90



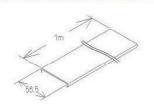
HC130~HC600



No.	Na	Name Material Processing Flame retardant grade		Flame retardant grade	Remarks		
1	Base		Base PPE		UL94V-0	-	
2	End		End PPE			` UL94V-0	HC70/CH90 only
	Assembled	Hexagon head bolt	Steel	Zinc-chromate plate		Cross indentation in head (excluding HC600)	
3	terminal screw	Spring washer	Steel	Zinc-chromate plate	<u> </u>		
	(standard spec.)	Flat washer	Steel	Zinc-chromate plate			
4	Hexago	onal nut	Steel	Zinc-chromate plate			
5	Hexagon head bolt		Steel	Zinc-chromate plate		4	
6	Terminal		Copper	Nickel plate			
7	Hexagonal nut		Steel	Zinc-chromate plate	-	-	
8	Rail fittings		Steel	Zinc-chromate plate		-	
9	Model nameplate		PVC		UL94V-0	· · · · · · · ·	
10	Standard ter	minal cover	PC		UL94V-0		
11	Large tern	ninal cover	PC		UL94V-0	HC130~HC600only	
12	Mounting fittings		Steel plate	Zinc-chromate plate			
13	Linking shaft		Steel	Zinc-chromate plate			
14	Clamp		Nylon		UL94V-0	HC130~HC600only	
15	Rail		Aluminum	-	-		

7. Accessories and sale units

(1) Standard terminal cover (for HC70 and HC90 units)

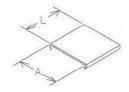


Material: Polycarbonate (clear)

Type: HGA

Sale unit: 20 pcs.

(2) Standard terminal cover (for HC130 to HC600 units)

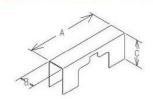


Material: Polycarbonate (clear)

Type	Applicable units	L (mm)	A (mm)
HGB	HC130	25.5	60
HGC	HC175	27.5	60
HGD	HC300	46.5	81.5
HGE	HC400 · HC600	58.5	107.5

Sale unit: 20 pcs. ea.

(3) Large terminal cover (for HC130 to HC600 units)



Material: Polycarbonate (clear)

Туре	Applicable units	A (mm)	B (mm)	C (mm)
TC130	HC130	106	23	43
TC175	HC175	125	25	45
TC300	HC300	166	40	62
TC400.600	HC400 · HC600	223	52	82.5

Sale unit: 5 pcs. ea.

(4) Model nameplate (fixed size)



Material: PVC (white)

Type: HNS

Sale unit: 20 pcs.

(5) Model nameplate (roll)



Material: PVC (white)

Size: 10 mm wide x 0.5 mm thick x 25 m long

Type: HNR

Sales unit: 1 pc.

(6) Mounting fittings



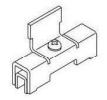
Material: Steel plate

Processing: Zinc-chromate plate

Туре	Applicable units	Mounting screw (included) size	
HFA	HC70.HC90	M4×12 with spring washe	
HFB	HC130.HC175	M5×16 with spring washer	
HFC	HC300~HC600	M5×16 with spring washer	

Sale unit: 50 pcs. ea.

(7) Rail fittings



Material: Steel plate

Processing:Zinc-chromate plate

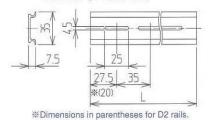
Туре	Applicable rails	
HKC	C rails · S rails	
HKD	D rails · DA rails	

Sale unit: 50 pcs. ea.

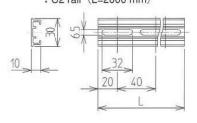
(8) Rails

Material: Aluminum

Name: D1 rail (L=1000 mm)D2 rail (L=2000 mm)

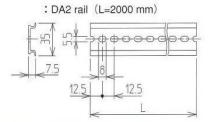


Name: C1 rail (L=1000 mm)
C2 rail (L=2000 mm)

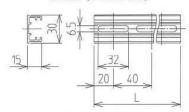


Sale unit: 5 pcs. ea.

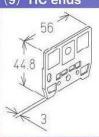
• Name : DA1 rail (L=1000 mm)



• Name: S1 rail (L=1000 mm) : S2 rail (L=2000 mm)



(9) HC ends



Material: PPE (black)

Type: HCE

End plates for HC70 and HC90 units (when HC70 or HC90 units combined, no end plate is required between them). Sale unit: 50 pcs.

(10) Linking shaft



Material: Steel Zinc-chromate plate

Type	Applicable units	Terminals	Screw size
HSA-□	HC70	1~15	M4
HSB-□	HC90	1~15	M4
HSC-□	HC130	1~12	M5
HSD-□	HC175	1~12	M5
HSE-□	HC300	1~9	M5
HSF-	HC400 HC600	1~9	M5

The number of terminals is indicated by the " \square " mark under Type.

Sale unit: 50 pcs. ea.

8. Precautions in use

Precautions in tightening terminal screws

The Cross indentation in the heads of the M10 and M12 terminal screws is for hand-tightening only. Always use a socket or other appropriate wrench for full tightening.

Precautions in mounting method

To ensure sufficient strength in long rails, be sure to use mounting screws not only at the ends, but at appropriate middle points as well.



- Always tighten terminal screws to torque specified in product outline.
- Avoid use in environments subject to excessive particles, corrosive gas or other unusual conditions.
- Chemicals such as paint thinner or benzene may cause deterioration in resins, and should be avoided.