

RB30-Type Terminal Block

Terminal Box for Rails 600V 30A

Combined use with AT-Type Capacitor-built-in Terminal Block is possible

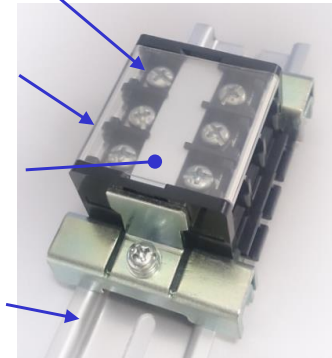
RoHS-Corresponded

① Quick-up Terminal Screws are used.

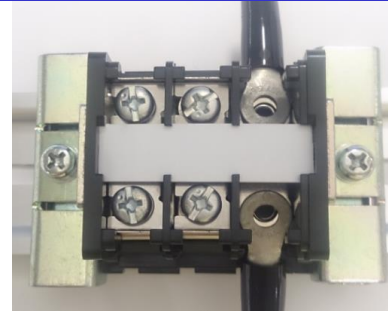
② One-Touch Detachable

③ 10mm-side Code Panel (Mark Case is optional.)

Attachable to DIN Rail, Seiko's C-Rail and S-Rail (Not fixed attachment)



④ Designed to prevent wrong fastening of the lower crimp when two layers of crimps are overlapped.



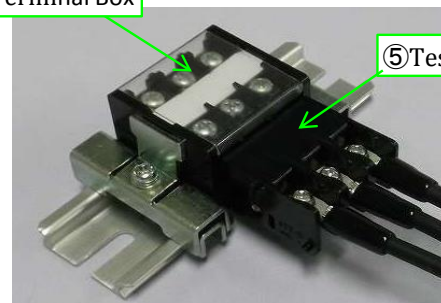
Advantages

- ① Quick-up Terminal Screws are adopted. No need to worry about the drop of terminal screws now. Quick and accurate insertion and fastening of Round-shaped Crimp Terminals
- ② Terminal covering can be attached/detached easily with one-touch operation.
- ③ Signal Codes can be done easily on the 10mm-side Code Panel. Mark Case is optionally available. You can use Mark Case as Code Panel by clipping a paper with Terminal Codes printed. (Model: ATC-N)
- ④ The mechanism to prevent the wrong fastening of the lower crimp, in case of two layers of crimp terminals, has been adopted into RB30 Model, just like it has been used for HA-Model Terminal Box since 1978 when its sales started.
- ⑤ By use of separately-available Testing Jig Tool (detachable with one-touch), you can shorten the time of the Pressure-Resistance and Sequence Test.

Specifications

Rated Insulation Voltage	600V
Rated Flowing Current	30A
Max. Connectable Wire Length	5.5mm ² MAX
Screw Size	M4×8
Proper Crimp Terminal (made by JST)	R2-4/R3.5-4/R5.5-4
Power Frequency Withstand Voltage	AC2,500V / 1 min.
Impulse Withstand Voltage	±7.2kV / Each 3-times (1.2/50μs)
Usage Temp. Range	-25~+60°C
	(No frozen or dew drops.)
Relative Humidity Range	45~85%
Basic Standard	JIS C 8201-7-1, IEC 60947-7-1

RB30-Model Terminal Box



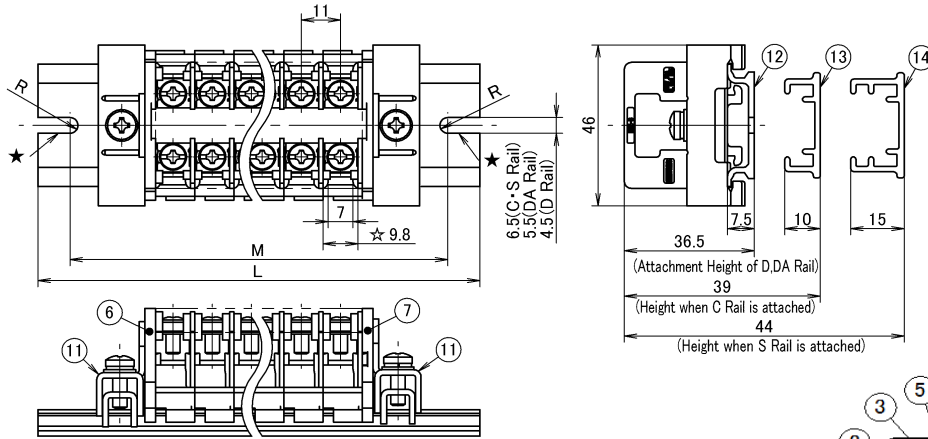
⑤ Test Jig Tool

Terminal Test Box equipped with Testing Jig Tool.

Remarks) D, DA Rails can be fit to RB-30 Type Terminal Box when it is integrated into the same rail as AT-Type Capacitor-Built-in Terminal Box is integrated into.
(Combination with C, S Rail cannot be set.)

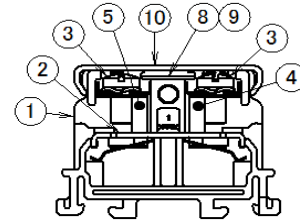
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■ Dimensions / Material



Remarks

- ★-marked dimensions in the diagram show the dimensions of insertion area of a crimp terminal.
- ★-marked shape may be different from the illustration.



Standard Dimensions Table

	8	10	12	14	16	18	20
Attach Pitch M	136	158	180	202	224	246	268
Whole Length L	154	176	198	220	242	264	286

	22	24	30	40	50	85
Attach Pitch M	290	312	378	488	598	983
Whole Length L	308	330	396	506	616	1000

Calculation Formula for Assembled Parts Dimensions

$$M(\text{Attachment Pitch}) = (11 \times \text{No. of Poles}) + 48$$

$$L(\text{Full Length}) = M + 18$$

$$\text{Max. No. of Poles} = 176 \text{ Poles (Rail's Whole Length 2m)}$$

No	Parts Name	Materials	Treatment
1	RB Unit	PPE Resin	---
2	Terminal	Copper Pyrite Plate	Zn-Plating (trivalent)
3	Pan Head Screw (small)	M4 x 8, Spring Washer, Copper	---
4	Plate Spring	Stainless Steel	---
5	Plate Spring	Stainless Steel	---
6	RB END F	PPE Resin (Black)	---
7	RB END B	PPE Resin (Black)	---
8	Code Panel (10mm wide)	Solid Vinyl Chloride	---
9	Mark Case	Poly Carbonate (Transparent)	---
10	Terminal Covering	Poly Carbonate (Transparent)	---
11	Metal fittings for Rail	Copper Plate	Zn-Plating (trivalent)
12	D, DA Rail	Aluminum	---
13	C Rail	Aluminum	---
14	S Rail	Aluminum	---

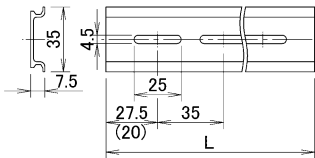
■ Rail Dimensions

Materials: Aluminum

•Item name: D1 Rail(L=1000mm)

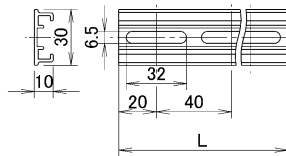
D2 Rail(L=2000mm)

※Dimensions in the parentheses are values in the D2 Rail.



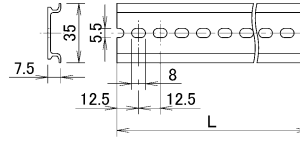
•Item name: C1 Rail(L=1000mm)

C2 Rail(L=2000mm)



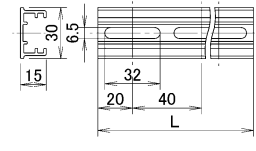
•Item name: DA1 Rail(L=1000mm)

DA2 Rail(L=2000mm)

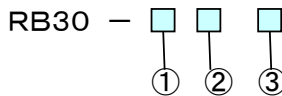


•Item name: S1 Rail(L=1000mm)

S2 Rail(L=2000mm)



■ RB Unit Assembly Model Type



① Unit's Color

Letter Code	Color
K	Black
R	Red

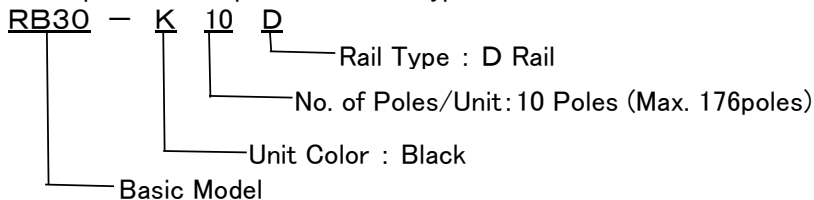
② No. of Poles

Max: 176 Poles

③ Rail Types

Letter Code	Rails
C	C Rail
S	S Rail
D	D Rail
DA	DA Rail

•Example of Description of Model Type



Parts List Exclusive for RB

Model Type	Parts Name	Appearance	Q'ty/Pair	Min. Lot	Lead-Time
					○ : Normal △ : Pls Contact
R B 3 0 - K	R B Unit(Black)		Necessary Q'ty	200 pcs	○
R B 3 0 - R	R B Unit (Red)				△
R B E - F K	R B End F (Black)		1	50 pcs	○
R B E - F R	R B End F (Red)				△
R B E - B K	R B End B(Black)		1	50 pcs	○
R B E - B R	R B End B(Red)				△

※ The End differs in its shape depending on its right or left side. Therefore, F-Type and B-Type are respectively required for every one (1) unit.

Parts List for Common Use.

Model Type	Parts Name	Appearance	Q'ty/Pair	Min.Lot	Remarks	Lead-Time
						○ : Normal △ : Pls Contact
HK C	C · S Metal Fittings for Rails		2	50 pcs	For C Rail · S Rail	○
HK D	D · DA Metal Fittings for Rails		2	50 pcs	For D Rail · DA Rail	○
C 1	C1 Rail		1	5 pcs.	C Rail · 1m (Screw Size M6)	○
C 2	C2 Rail		1	5 pcs.	C Rail · 2m (Screw Size M6)	△
S 1	S1 Rail		1	5 pcs.	S Rail · 1m (Screw Size M6)	○
S 2	S2 Rail		1	5 pcs.	S Rail · 2m (Screw Size M6)	△
D 1	D1 Rail		1	5 pcs.	D Rail · 1m (Screw Size M4)	○
D 2	D2 Rail		1	5 pcs.	D Rail · 2m (Screw Size M4)	△
DA 1	DA1 Rail		1	5 pcs.	DA Rail · 1m(M5 Screw, Small-Pitch Hole)	○
DA 2	DA2 Rail		1	5 pcs.	DA Rail · 2m(M5 Screw, Small-Pitch Hole)	△
HN S	Code Panel (Fixed Length)		Necessary Q'ty	20 pcs	Size 0.5×10×900 (White Solid Vinyl Chloride)	○
HN R	Code Panel (Rolled Material)		Necessary Q'ty	1 pcs.	Size 0.5×10×25m (White Solid Vinyl Chloride)	○
AT C - N	Mark Case		Necessary Q'ty	20 pcs.	Size : 0.4×10.2×1000 (Clear Poly Carbonate) If you want to use a printed paper as Code Panel, clip the paper on the case.	○
TC - U 5. 5	Terminal Cover		Necessary Q'ty	20 pcs.	Size : 1.0×36×1000 (Clear Poly Carbonate)	○

Short Bars

CT□-5.5-□
① ②

①Cover Color
Code: Colors
G: Green
B: Black

②No. of Poles
Code: No.
2: 2 Poles
3: 3 Poles
4: 4 Poles
8: 8 Poles
1 2: 1 2 Poles
2 P 1: For 3 poles
2 P 2: For 4 Poles

Code for No. of Poles	L-Dimensions	Appearance	Min. Lot	Unit (mm)	
				Lead-Time	
2	2 0		1 0 0 pcs	○: Normal	○: Normal
3	3 1			△: Pls Contact	
4	4 2				
8	8 6				
1 2	1 3 0				
2 P 1	3 1				
2 P 2	4 2				

Caution for Safety 注意 注意 Caution

- Never use this product under any abnormal circumstances (full of dusts, corrosive gas and/or others).
- Be careful to keep this product away from oil, grease and/or any other types of chemicals. Some of them may adversely affect the product.
- Tightening torque of the screw (M4), at the time of connecting the product to the power line, shall be 0.8~1.2N·m.
- Be sure to install the covering onto the terminal after wiring to prevent electrical shock and/or related accidents.
- If you attach a long item to the product, be sure to fix such long item at

Warranty Term & Scope

(Warranty Term)

Warranty Term shall be one (1) year from the date of delivery of the product to the destination by the purchaser.

(Warranty Scope)

If any failure caused by the supplier during the above term affects any parts of the product, such affected parts shall be replaced or repaired at the full responsibilities of the supplier.

However, this warranty scope shall not be applied to the following cases of failure caused by;

- (1) unauthorized handling or use of the product by the purchaser.
- (2) any other reasons than the delivered product.
- (3) unauthorized remodeling or repairing by other persons than the supplier.
- (4) any disasters, force majeure and/or other causes which are beyond the reasonable control of the supplier.

Remarks: To avoid any doubt, the term, "warranty" shall be applied to the warranty for the delivered product itself. Therefore, any consequent damage or abnormalities arising

SEIKO ELECTRIC CO., LTD.

Head Office: 2-7-25, Toko, Hakata, Fukuoka, 812-0008, Japan

Koga Factory: 3-20-1, Tenjin, Koga City, 811-3197, Japan

(Customer Center) TEL: +81-92-943-8127

FAX: +81-92-943-6341

<http://www.seiko-denki.co.jp>

Dealer:

2015-01

- The rated measurements, specifications, dimensions of this product may be subject to change for improvement without any prior notice to our customers.