

Head Office 46034, 126, Jangansandan 8-ro, Jangan-eup, Gijang-gun, Busan, S.Korea TEL +82-51-723-3000 FAX +82-505-115-3010 Warranty period 24 Months from the date of shipment or 12 months from the date of installation, which is longer.

# MANUAL VER 1,0.0 **CURRENT TRANSFORMER**

## 1. Application Range

This manual is applicable to Cable Type Current Transformer(KBJ,KBD) and Busbar Type Current Transformer(KBM,KBF)

## 2. Specification

## 2.1 Geneal

Overcurrent strength	Maximum Voltage	Withstand Voltage	Frequency	Operation temperature	Operating humidity
40HH	1.2kV	4.0kV 1min	50/60Hz	-20°C~50°C	85% Less than

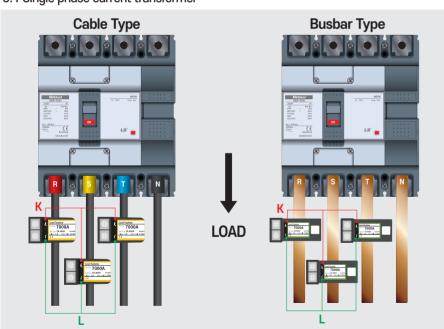
## 2.2 Torque limit

Type	M4	M5	
Busbar fixing bolt	5~7kgf·cm	7~10kgf·cm	
2ndary terminal bolt	9.8~13.5kgf·cm	28.4~37.2kgf·cm	

\* Excess torque may cause bending and distortion.

## 3. Installation method

#### 3.1 Single phase current transformer



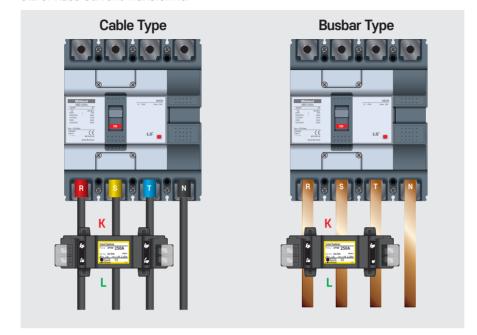
- 1) Install 'K' side to the circuit breaker, and 'C' side to the load
- 2) How to fix the current transformer



Cable Type: Use a separated bolt to bolt fixing hole.

Busbar Type: Use existing fixing bolts installed at current transformer.

#### 3.2 3Phase Current Transformer

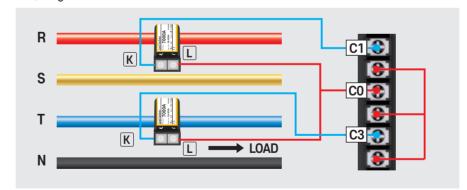


- 1) Please select current transformer that meets the circuit breaker dimension.
- 2) Install 'K' side to the circuit breaker, and 'C' side to the load.
- 3)How to fix the current transformer.
- -Cable Type: Use a separated bolt to bolt fixing hole.
- -Busbar Type: Use existing fixing bolts installed at current transformer.

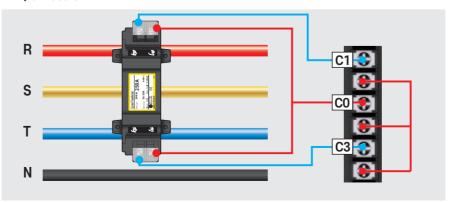
## 4. Connection Diagram

## 4.1 3P3W

1) Single Phase CT

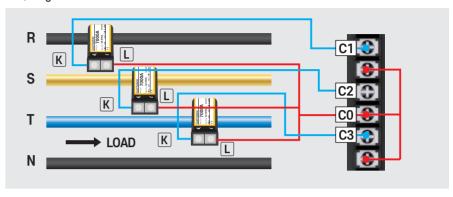


2) 3Phase CT

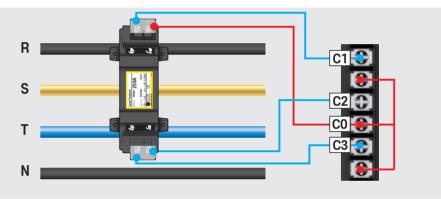


## 4.2 3P4W

#### 1) Single Phase CT



## 2) 3Phase CT



## 5. Caution

- 5.1 Do not open the second terminal after installing the current transformer. If you do not connect the transformer to the instrument after installation, leave the second terminal
- 5.2 If need grounding, it must be separated from voltage transformer, and terminal "L" may be grounded.
- 5.3 Do not remove the terminal protection cover.
- 5.4 Be sure to connect cable and terminal tightly.
- 5.5 If the ammeter connected to the current transformer display a current value of "0" or if the power/power value is abnormal, check as follows:
- 1)COM the current transformer secondary terminals (K, L) to the line.
- 2)Measure the primary current value with a portable test.
  3)Measure secondary current value with portable tester.
- 4) Judgement: If the secondary current value is measured according to the CT ratio, it is normal.
- 5.6 If there is no abnormality in the current transformer but the power/power amount value is abnormal, the secondary connection is defective. (Be aware of CT direction with "K" and "L")
- 5.7 If want to measure less than 30A, need to select a transformer over 30A and use it by increasing the number of penetrations.

