

# SPLIT-CORE CURRENT TRANSFORMER

## JC24F-XXXmA series

UL US  
E344623

CE

RoHS  
Restriction of Hazardous Substances



The split-core current transformer design is used for energy efficiency monitoring and automation applications. This includes sub-metering cost allocation, dynamic energy consumption and peak load analysis. The JC series of current transformer is simple to use, compact split-core design which is easily installed for metering applications. This is ideal for distributed measurement systems and can be retro-fitted into existing installations and non-interruptible equipment as there is no requirement for disconnection and reconnection of wiring.

### APPLICATIONS

- Energy sub-meter
- Power meters
- Power quality monitoring
- HVAC&Pumps, etc
- Distributed measurement system

### BENEFITS

- Small-size, light-weight
- Simple Installation
- Over-Voltage protection circuit is installed.

### FEATURES

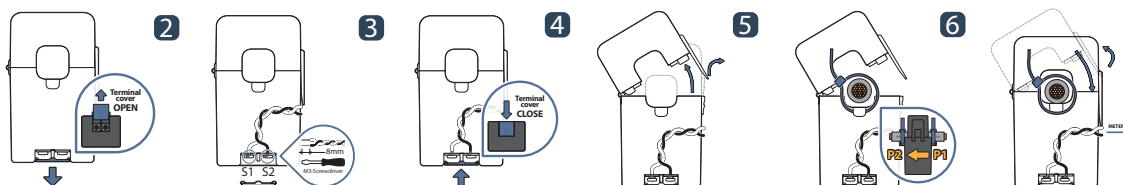
- Nylon-spring, output-terminal, secure locking hinge, one-touch structure makes easy to install to the existent equipments such as a power distribution boards.
- Isolated plastic case recognized according to UL94-V0
- UL / EN 61010-1 certified

### NOTICE

- If you impact the core contact surface, internal core material could be damaged.
- Please use only the original output screws.  
Not recommended to replace it with anything else.
- Customizing output lead wire



### HOW TO USE 1



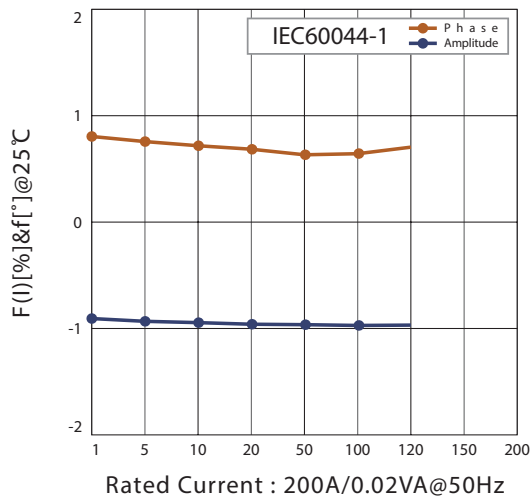
### SPECIFICATION

(F=50/60Hz)

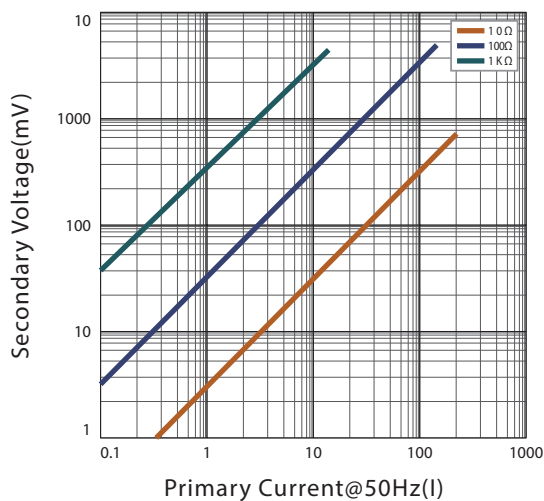
|                           |  |
|---------------------------|--|
| MODEL                     | JC24F<br>Ø24   |
| Current Ratio             | 200A/66.6mA  |
| Current Range             | 0.1~200A (RL=10Ω)  |
| Max. Continuous Current   | 300A   |
| Nominal Phase Angle Error | +1.0±1°  |
| Nominal Linearity Error   | -1±1%  |
| Turns Ratio               | 3000:1   |
| DCR                       | 171±15Ω  |
| Protection Level          | 7.5V0-P  |
| Insulation Category       | CAT III  |
| Operating Condition       | -20°C~+50°C, ≤85%RH, No condensation, In-house & Any direction installable |
| Storage Condition         | -30°C~+90°C, ≤85%RH, No condensation                                       |

## ACCURACY DATA(JC24F)

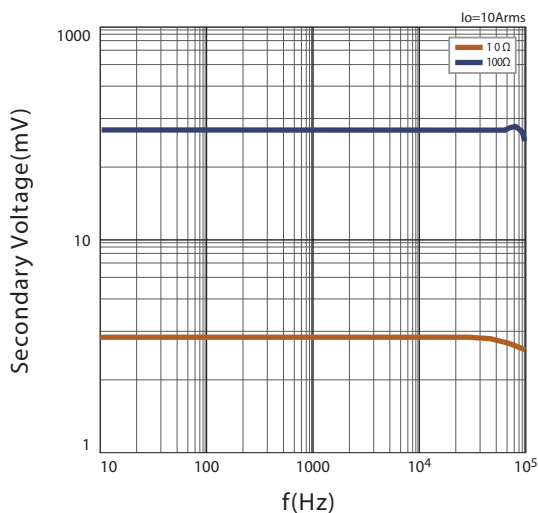
### Linearity & Phase Angle Error



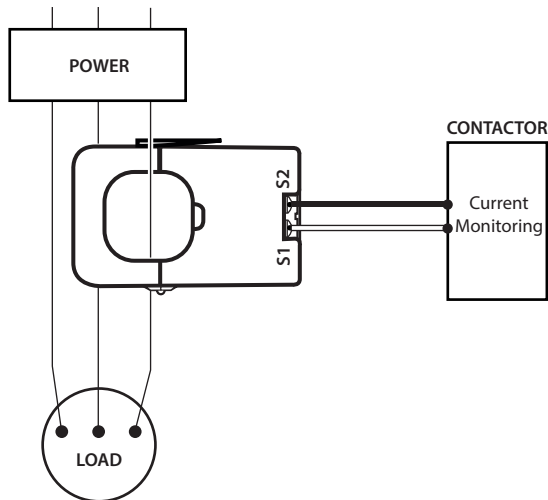
### Output Voltage



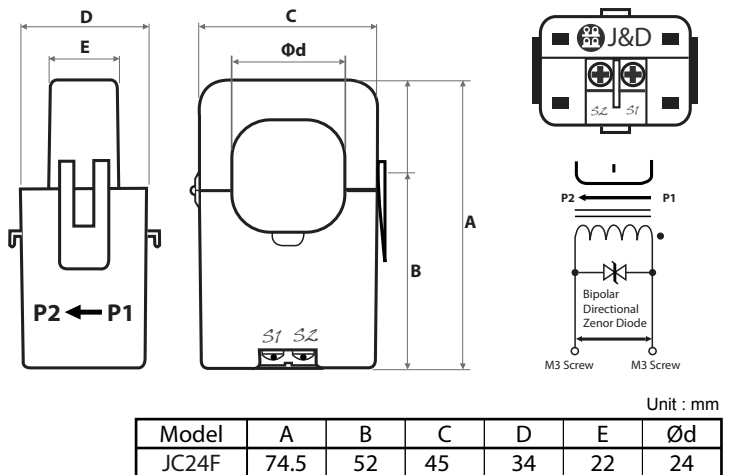
### Output Frequency



## APPLICATIONS



## DIMENSIONS



## CAUTION: DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- In order to guarantee safe operation of the transformer, please read and understand the instructions thoroughly. For your reference, see NFPA 70E in the USA, or applicable local codes.
- This equipment must only be installed and put into operation by qualified electrical personnel or appropriately trained individual.
- Before servicing the CTs, turn off all sources of power and use a properly rated voltage sensing device to check if the power is off.
- Current transformer secondary must be shorted or connected to a burden all times.
- The transformer (split core type) must not be operated when it is not fully closed or the installation is not completed.
- Rearrange all covers and protective devices before powering the equipment.

## NOTICE

- This product is not intentionally made for safety applications.
- Make sure not to install this transformer in hazardous or classified areas.
- The installer is responsible for conformance to all applicable codes.
- Ignoring the warnings can lead to serious injury and/or cause damages.
- A qualified person is the one who is skilled and has knowledge about the construction and operation of this electrical equipment, and has received safety training to recognize and avoid the hazards involved. (NEC2011 Article 100)
- If this product is used in a way not specified by the manufacturer, the protection offered by the product may be impaired. No responsibility is taken by J&D Electronics for any consequences arising by not following this material properly