

# RCT-SP

## Current Transformer



### Features:

- Use With Different Bus Bar
- Panel Mount / DIN Rail Mount (Optional Accessory)
- Accuracy: Class 0.5 - 5
- Accuracy: Class 0.5 - 1
- Wide measurement range from 30 A to 4000 A
- For busbars of various widths
- Certification: **CE**, RoHS, **UL**

A current transformer is an essential component in modern electrical installations. It steps down high mains current a level safe for measuring instruments.

### Advantages:

- Current scaling: The device precisely reduces the current flowing in the circuit to levels acceptable for standard meters and counters. This eliminates the need to invest in expensive equipment designed for high loads.
- The current transformer acts as a protective barrier. It provides galvanic isolation between the high-voltage network and sensitive measuring devices, as well as operating personnel, thereby minimizing the risk of electric shock and equipment damage.
- Reliable network protection: Data supplied by the current transformer enables protection systems to quickly detect and respond to hazardous conditions, such as:
  - System overloads
  - Short circuits in the network.

### Input/output specification

|                                |                |
|--------------------------------|----------------|
| Rated current primary input    | 70 A to 4000 A |
| Rated current secondary output | 5 A            |

### Technical specification

|                                         |                               |
|-----------------------------------------|-------------------------------|
| Rated burden                            | 1 VA to 15 VA                 |
| Class of accuracy                       | 0,5 to 1                      |
| Thermal Nominal Continuous              | $I_{cth}$ 120% $I_n$          |
| Thermal short circuit current           | $I_{TH}$ $60 \times I_n$ 1 s. |
| Instrument security factor              | FS < 5                        |
| Insulation class                        | E (120°C max)                 |
| Max operating voltage (U <sub>m</sub> ) | $U_m$ 720 V max               |
| Isolation test voltage                  | 3 kV AC 1 min                 |
| Nominal rated frequency                 | 50 Hz – 60 Hz                 |

### Environmental specifications

|                     |                          |
|---------------------|--------------------------|
| Ambient temperature | 0°C to +50°C             |
| Humidity            | <95% RH (Noc-condensing) |
| Storage temperature | -5°C to +50°C            |

### Mounting

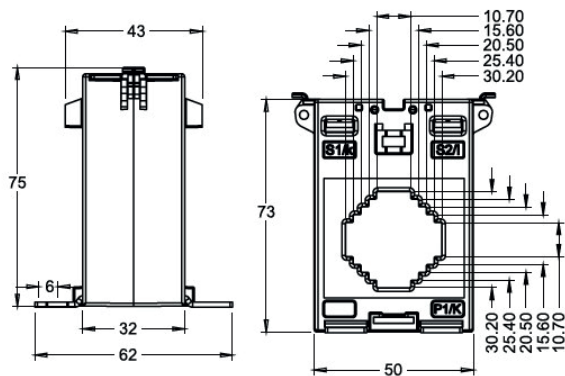
|                |                              |
|----------------|------------------------------|
| Mounting modes | Panel Mount / DIN Rail mount |
|----------------|------------------------------|

### Standard

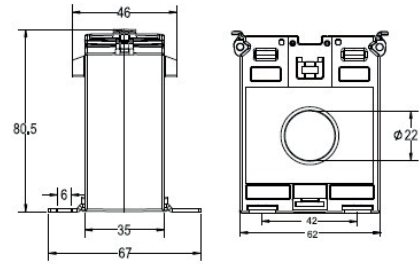
|                     |             |
|---------------------|-------------|
| Applicable standard | IEC 61869-2 |
|---------------------|-------------|

### Dimensions

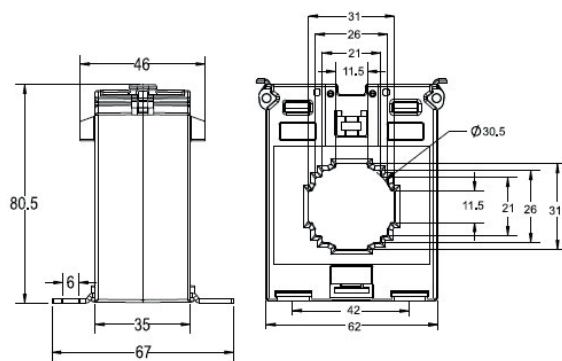
**RCT-SP 50/30**



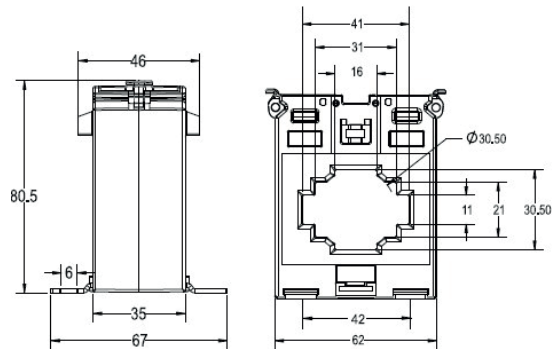
**RCT-SP 62/22**



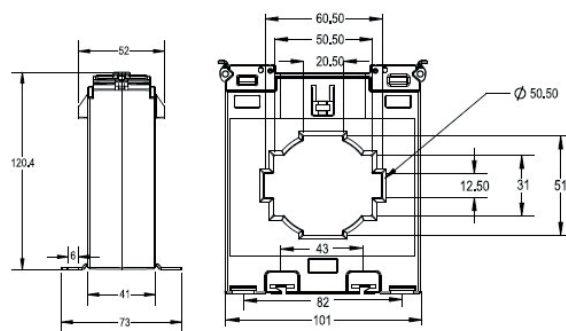
**RCT-SP 62/30**



**RCT-SP 62/40**



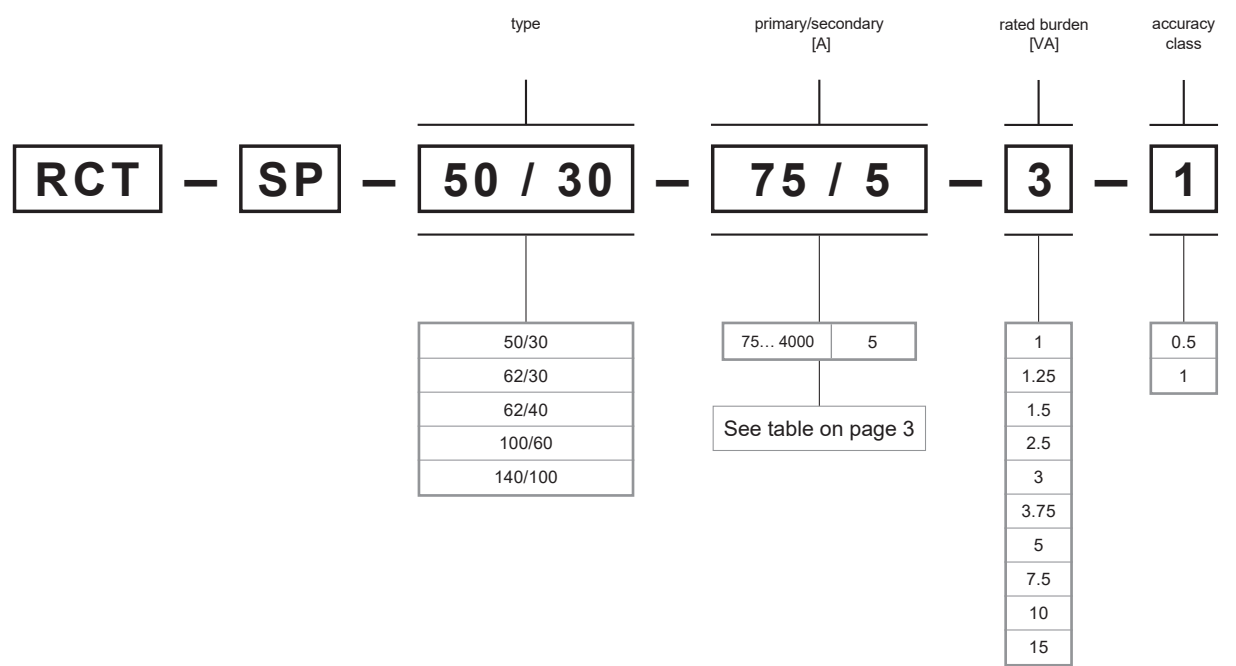
**RCT-SP 100/60**



### Table of Technical Specifications and Versions

| RELPOL code                  | Index   | Electrical parameters |                     |                       |                   |             |         |
|------------------------------|---------|-----------------------|---------------------|-----------------------|-------------------|-------------|---------|
|                              |         | Accuracy Class        | Primary current (A) | Secondary current (A) | Rated burden (VA) | Weight (kg) | Type    |
| RCT-SP-50/30-75/5-1-1        | 2617760 | 1                     | 75                  | 5                     | 1                 | 0,200       | 50/30   |
| RCT-SP-50/30-80/5-1-1        | 2617762 | 1                     | 80                  | 5                     | 1                 | 0,200       | 50/30   |
| RCT-SP-50/30-100/5-1-1       | 2617763 | 1                     | 100                 | 5                     | 1                 | 0,200       | 50/30   |
| RCT-SP-50/30-125/5-1.25-1    | 2617764 | 1                     | 125                 | 5                     | 1,25              | 0,200       | 50/30   |
| RCT-SP-50/30-160/5-1.5-1     | 2617765 | 1                     | 160                 | 5                     | 1,5               | 0,200       | 50/30   |
| RCT-SP-50/30-200/5-3-1       | 2617768 | 1                     | 200                 | 5                     | 3                 | 0,200       | 50/30   |
| RCT-SP-50/30-250/5-3-1       | 2617769 | 1                     | 250                 | 5                     | 3                 | 0,200       | 50/30   |
| RCT-SP-50/30-300/5-5-1       | 2617771 | 1                     | 300                 | 5                     | 5                 | 0,200       | 50/30   |
| RCT-SP-50/30-400/5-5-1       | 2617772 | 1                     | 400                 | 5                     | 5                 | 0,200       | 50/30   |
| RCT-SP-62/30-100/5-1-1       | 2617773 | 1                     | 100                 | 5                     | 1                 | 0,400       | 62/30   |
| RCT-SP-62/30-100/5-3-1       | 2617774 | 1                     | 100                 | 5                     | 3                 | 0,400       | 62/30   |
| RCT-SP-62/40-100/5-1-1       | 2617775 | 1                     | 100                 | 5                     | 1                 | 0,300       | 62/40   |
| RCT-SP-62/40-125/5-1-1       | 2617776 | 1                     | 125                 | 5                     | 1                 | 0,300       | 62/40   |
| RCT-SP-62/40-150/5-1.5-1     | 2617777 | 1                     | 150                 | 5                     | 1,5               | 0,300       | 62/40   |
| RCT-SP-62/40-150/5-3-1       | 2617778 | 1                     | 150                 | 5                     | 3                 | 0,300       | 62/40   |
| RCT-SP-62/40-160/5-1.5-1     | 2617779 | 1                     | 160                 | 5                     | 1,5               | 0,300       | 62/40   |
| RCT-SP-62/40-160/5-3-1       | 2617780 | 1                     | 160                 | 5                     | 3                 | 0,300       | 62/40   |
| RCT-SP-62/40-200/5-2.5-0.5   | 2617781 | 0,5                   | 200                 | 5                     | 2,5               | 0,300       | 62/40   |
| RCT-SP-62/40-200/5-3-1       | 2617782 | 1                     | 200                 | 5                     | 3                 | 0,300       | 62/40   |
| RCT-SP-62/40-250/5-2.5-0.5   | 2617783 | 0,5                   | 250                 | 5                     | 2,5               | 0,300       | 62/40   |
| RCT-SP-62/40-250/5-3-1       | 2617784 | 1                     | 250                 | 5                     | 3                 | 0,300       | 62/40   |
| RCT-SP-62/40-300/5-3-0.5     | 2617785 | 0,5                   | 300                 | 5                     | 3                 | 0,300       | 62/40   |
| RCT-SP-62/40-400/5-3.75-0.5  | 2617786 | 0,5                   | 400                 | 5                     | 3,75              | 0,300       | 62/40   |
| RCT-SP-62/40-400/5-5-1       | 2617787 | 1                     | 400                 | 5                     | 5                 | 0,300       | 62/40   |
| RCT-SP-62/40-500/5-5-1       | 2617788 | 1                     | 500                 | 5                     | 5                 | 0,300       | 62/40   |
| RCT-SP-62/40-600/5-5-1       | 2617789 | 1                     | 600                 | 5                     | 5                 | 0,300       | 62/40   |
| RCT-SP-62/40-750/5-5-1       | 2617790 | 1                     | 750                 | 5                     | 5                 | 0,300       | 62/40   |
| RCT-SP-100/60-500/5-5-1      | 2617791 | 1                     | 500                 | 5                     | 5                 | 0,500       | 100/60  |
| RCT-SP-100/60-600/5-5-0.5    | 2617792 | 0,5                   | 600                 | 5                     | 5                 | 0,500       | 100/60  |
| RCT-SP-100/60-600/5-7.5-1    | 2617793 | 1                     | 600                 | 5                     | 7,5               | 0,500       | 100/60  |
| RCT-SP-100/60-800/5-10-0.5   | 2617794 | 0,5                   | 800                 | 5                     | 10                | 0,500       | 100/60  |
| RCT-SP-100/60-1000/5-15-0.5  | 2617795 | 0,5                   | 1000                | 5                     | 15                | 0,500       | 100/60  |
| RCT-SP-100/60-1200/5-15-0.5  | 2617796 | 0,5                   | 1200                | 5                     | 15                | 0,500       | 100/60  |
| RCT-SP-140/100-800/5-15-0.5  | 2617797 | 0,5                   | 800                 | 5                     | 15                | 0,800       | 140/100 |
| RCT-SP-140/100-1000/5-15-0.5 | 2617798 | 0,5                   | 1000                | 5                     | 15                | 0,800       | 140/100 |
| RCT-SP-140/100-1200/5-15-0.5 | 2617799 | 0,5                   | 1200                | 5                     | 15                | 0,800       | 140/100 |
| RCT-SP-140/100-1250/5-15-0.5 | 2617800 | 0,5                   | 1250                | 5                     | 15                | 0,800       | 140/100 |
| RCT-SP-140/100-1500/5-15-0.5 | 2617801 | 0,5                   | 1500                | 5                     | 15                | 0,800       | 140/100 |
| RCT-SP-140/100-1600/5-15-0.5 | 2617802 | 0,5                   | 1600                | 5                     | 15                | 0,800       | 140/100 |
| RCT-SP-140/100-2000/5-15-0.5 | 2617803 | 0,5                   | 2000                | 5                     | 15                | 0,800       | 140/100 |
| RCT-SP-140/100-2500/5-15-0.5 | 2617804 | 0,5                   | 2500                | 5                     | 15                | 0,900       | 140/100 |
| RCT-SP-140/100-3000/5-15-0.5 | 2617805 | 0,5                   | 3000                | 5                     | 15                | 1,050       | 140/100 |
| RCT-SP-140/100-3500/5-15-0.5 | 2617806 | 0,5                   | 3500                | 5                     | 15                | 1,050       | 140/100 |
| RCT-SP-140/100-4000/5-15-0.5 | 2617807 | 0,5                   | 4000                | 5                     | 15                | 1,050       | 140/100 |

Ordering codes



Accessory

Clamp for dinrail mount

RCT-SP-A-DIN  
RCT-SP-1-DIN-50/30 – for 50/30 dimensions

**PRECAUTIONS:**

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.