

SCTK673 Series

SCTK673 series retro-fit (split-core) current transformer has been specially designed to facilitate their installation in new or already existing net works. They may be installed without opening any cable or bus-bar circuit. An internal precision resistor across the secondary winding of the CT provides a low safe voltage output. It can save time and the installation costs.

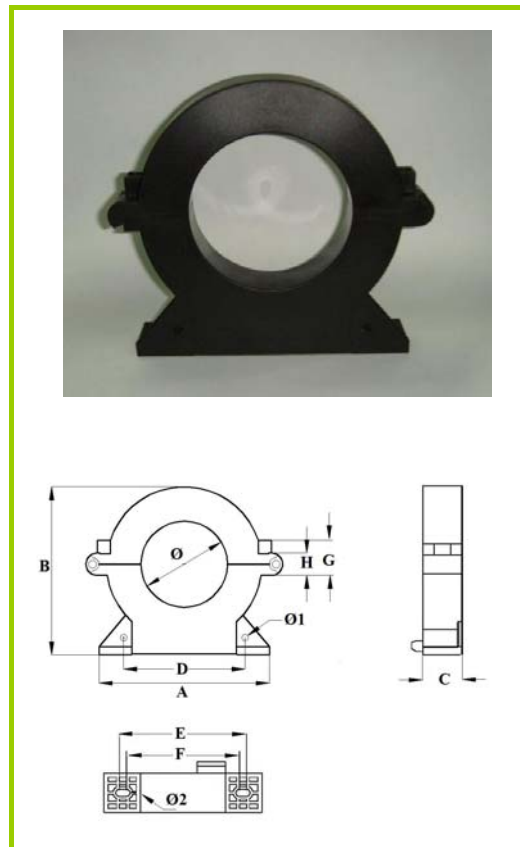
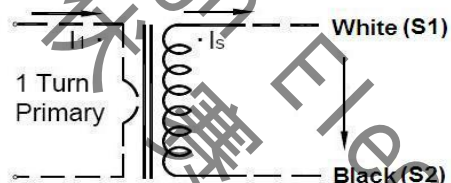
◆ Features

- Epoxy Potting, Double-screw fastening, safe, easy to install, portable
- Wide inner window, allowing clamping of big cables or bus-bars
- Wide range of sizes to accommodate all the existing installations

◆ Applications

- Current measurement, monitoring and protection for electrical wiring and equipment.
- Current and power measurement for electric motors, lighting, air compressor, heating and ventilation system, air-condition equipment and automation – control system.
- Current, power and energy monitoring device.
- Relay protection device.

◆ Circuit connection diagram



◆ Technique Index


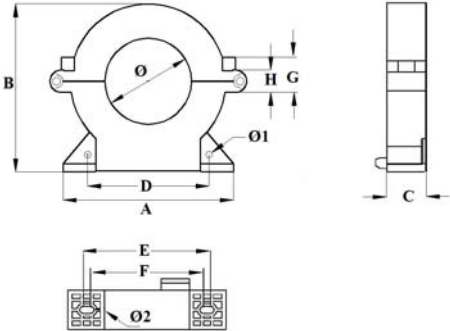
| Electrical Parameter | | Mechanical Parameter | |
|-----------------------|-------------------|----------------------|---------------------------------------|
| Frequency | 50-400Hz | Case | PC /UL94-V0 |
| Rated Input | 5A-1000A | Bobbin | PBT |
| Measuring range | 5%In-130%In | Core | Silicon steel |
| Rated Output | 0-10V(AC) or 0-5A | Internal structure | Epoxy |
| Ratio | ≤ ± 0.2% | Construction | Tie |
| Phase angle | ≤ ±10min | Operating Temp | -25°C~+75°C |
| Dielectric strength | 2.5KV/1mA/1min | Operating Humidity | ≤85% |
| Insulation Resistance | DC500V/100MΩ min | Output Connection | UL1015 22AWG Wire(twinsted wire) 2.5m |

◆ Type Selection (Output: mA/V)

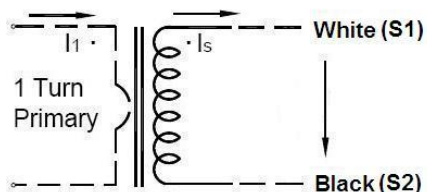
| Mfg P/N | Rated Input (A) | Output (mA/V) | Accuracy | Dimensions(mm/inch) | | | | | | | | | | |
|--------------|-----------------------------------|------------------|---------------|---------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| | | | | Ø | A | B | C | D | E | F | G | Ø1 | Ø2 | |
| SCTK673A-025 | 5-400A (5, 100, 250, 400A) | 0-200mA 0-10V | 0.2, 0.5, 1.0 | 25 | 100 | 100 | 42 | 60 | 87 | 72 | 22 | 16 | 5 | |
| | | | | (1.0) | (3.9) | (3.9) | (1.7) | (2.4) | (3.4) | (2.8) | (0.9) | (0.6) | (0.2) | |
| SCTK673B-045 | 50-1000A (50, 250, 400, 1000A) | 0-500mA 0-10V | 0.2, 0.5, 1.0 | 45 | 123 | 123 | 42 | 80 | 109 | 94 | 23 | 16 | 5 | |
| | | | | (1.8) | (4.8) | (4.8) | (1.7) | (3.1) | (4.3) | (3.7) | (0.9) | (0.6) | (0.2) | |

SCTK673 Series

◆ Type Selection (Output: 1A/5A)

| Mfg P/N | Input/Output (A) | Burden(VA)/Class | | | | Product Description | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--------------|------------------|------------------|------|------|------|---|----|-----|----|----|----|----|---|---|---|----|----|------|----|-----|-----|----|----|----|----|----|----|---|------|----|-----|-----|----|----|-----|----|----|----|---|
| | | 0.2 | 0.5 | 1.0 | 3.0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCTK673A-025 | 30/1 | --- | 1.5 | 2.5 | 3.75 |   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 50/1 | 1.5 | 2.5 | 5 | 7.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 100/1 | 1.5 | 2.5 | 3.75 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 200/1 | 2.5 | 3.75 | 5 | 7.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 250/1 | 2.5 | 3.75 | 5 | 7.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 300/1 | 2.5 | 5 | 5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 400/1 | 3.75 | 5 | 7.5 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 30/5 | --- | --- | 1.5 | 2.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 50/5 | --- | 1.5 | 2.5 | 3.75 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 100/5 | --- | 2.5 | 3.75 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 200/5 | --- | 1.5 | 3.75 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 250/5 | 1.5 | 3.75 | 7.5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 300/5 | 1.5 | 3.75 | 7.5 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 400/5 | 2.5 | 5 | 10 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| SCTK673B-045 | 100/1 | --- | 2.5 | 3.75 | 5 | <p>Dimensions(mm/inch)</p> <table border="1"> <thead> <tr> <th>型号</th> <th>Ø</th> <th>A</th> <th>B</th> <th>C</th> <th>D</th> <th>E</th> <th>F</th> <th>G</th> <th>Ø1</th> <th>Ø2</th> </tr> </thead> <tbody> <tr> <td>673A</td> <td>25</td> <td>100</td> <td>100</td> <td>42</td> <td>60</td> <td>87</td> <td>72</td> <td>22</td> <td>16</td> <td>5</td> </tr> <tr> <td>673B</td> <td>45</td> <td>123</td> <td>123</td> <td>42</td> <td>80</td> <td>109</td> <td>94</td> <td>23</td> <td>16</td> <td>5</td> </tr> </tbody> </table> | 型号 | Ø | A | B | C | D | E | F | G | Ø1 | Ø2 | 673A | 25 | 100 | 100 | 42 | 60 | 87 | 72 | 22 | 16 | 5 | 673B | 45 | 123 | 123 | 42 | 80 | 109 | 94 | 23 | 16 | 5 |
| | 型号 | Ø | A | B | C | | D | E | F | G | Ø1 | Ø2 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 673A | 25 | 100 | 100 | 42 | | 60 | 87 | 72 | 22 | 16 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 673B | 45 | 123 | 123 | 42 | | 80 | 109 | 94 | 23 | 16 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 250/1 | 1.5 | 3.75 | 5 | 7.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 400/1 | 2.5 | 5 | 7.5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 500/1 | 3.75 | 5 | 7.5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 600/1 | 3.75 | 3.75 | 7.5 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 800/1 | 5 | 7.5 | 10 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 1000/1 | 5 | 7.5 | 10 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 100/5 | --- | 2.5 | 3.75 | 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 250/5 | 1.5 | 3.75 | 5 | 7.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 400/5 | 2.5 | 5 | 7.5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 500/5 | 3.75 | 5 | 7.5 | 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 600/5 | 3.75 | 3.75 | 7.5 | 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 800/5 | 5 | 7.5 | 10 | 25 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1000/5 | 5 | 7.5 | 10 | 30 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

◆ Circuit connection diagram



NOTE:

- Rated Primary current :0-1000Aac
- Rated Secondary current: 1A/5A
- Rated load: 1.5,2.5, 3.75, 5.0, 10,15, 25,30VA
- Accuracy: 0.2, 0.5, 1.0, 3.0 Class
- Output Connection:2*2.5mm² Wire 1m or Terminal
- Forbidden to open the second, otherwise, easy to produce high voltage