

# SC SERIES SPLIT CORE CURRENT TRANSFORMERS

## TE'S CROMPTON INSTRUMENTS

### FEATURES

- High quality comprehensive measurements
- Available in a wide range of transformer ratings
- Accuracy up to Class 0.5
- Foot or busbar mounted

### BENEFITS

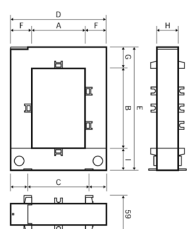
Faster installation

- Cost effective
- Long product life

### APPLICATIONS

- Switchgear
- Distribution systems
- Generator sets
- Control panels

### DIMENSIONS



A range of split core current transformers that offers a cost effective and efficient method by which the current can be measured without the need to break the conductor, thereby reducing installation and commissioning time.

### SPECIFICATIONS

|                               |   |
|-------------------------------|---|
| <b>System voltage:</b>        | 720 V (0.72 kV) maximum   |
| <b>Test voltage:</b>          | 3 kV for 1 minute   |
| <b>System frequency:</b>      | 50/60 Hz  |
| <b>Insulation class:</b>      | E   |
| <b>Overload withstand:</b>    | 1.2 times rated current continuously                                    |
| <b>Short circuit thermal:</b> | 100 x rated primary for 1 second  |
| <b>Operating temperature:</b> | -20°C to +70°C  |
| <b>Relative humidity:</b>     | 0-90% (non condensing)  |
| <b>Compliant with:</b>        | IEC/EN60044-1, BS7626   |
| <b>Accuracy:</b>              | Class 3, 1 & 0.5  |
| <b>Mounting hardware:</b>     | Plug-in metal feet for wall or base mounting or moulded busbar mounting |
| <b>Rated dynamic current:</b> | = 2.55 x I <sub>ht</sub>  |
| <b>Enclosure:</b>             | Flame retardant grade classified UL 94V-0                               |

Customers can count on consistent, high quality products, driven by TE's proven innovation and backed by our extraordinary customer support.

SC series split core current transformers



| MODEL       | CASE 1 | CASE 2 | CASE 3 | CASE 4 | CASE 5 |
|-------------|--------|--------|--------|--------|--------|
| A           | 20     | 50     | 80     | 80     | 80     |
| B           | 30     | 80     | 80     | 120    | 160    |
| C           | 51     | 78     | 108    | 108    | 120    |
| D           | 89     | 114    | 144    | 144    | 184    |
| E           | 111    | 145    | 145    | 185    | 245    |
| F           | 34     | 32     | 32     | 32     | 52     |
| G           | 47     | 32     | 32     | 32     | 52     |
| H           | 40     | 32     | 32     | 32     | 52     |
| I           | 32     | 33     | 33     | 33     | 38     |
| Weight (kg) | 0.75   | 0.90   | 1.05   | 1.25   | 4.30   |

| PRODUCT CODES |             |         |                               |      |      |               |
|---------------|-------------|---------|-------------------------------|------|------|---------------|
|               | Part number | Ratio   | Burden VA against class index |      |      | Aperture (mm) |
|               |             |         | 0.5                           | 1    | 3    |               |
| CASE 1        | SC1-100/5A  | 100/5A  | -                             | -    | 1.5  | 20 x 30       |
|               | SC1-150/5A  | 150/5A  | -                             | -    | 2    | 20 x 30       |
|               | SC1-200/5A  | 200/5A  | -                             | 1.5  | 2.5  | 20 x 30       |
|               | SC1-250/5A  | 250/5A  | -                             | 2    | 4    | 20 x 30       |
|               | SC1-300/5A  | 300/5A  | 1.5                           | 4    | 6    | 20 x 30       |
|               | SC1-400/5A  | 400/5A  | 2.5                           | 6    | 10   | 20 x 30       |
| CASE 2        | SC2-250/5A  | 250/5A  | 1                             | 2    | 4    | 50 x 80       |
|               | SC2-300/5A  | 300/5A  | 1.5                           | 3    | 6    | 50 x 80       |
|               | SC2-400/5A  | 400/5A  | 1.5                           | 3    | 10   | 50 x 80       |
|               | SC2-500/5A  | 500/5A  | 2.5                           | 5    | 15   | 50 x 80       |
|               | SC2-600/5A  | 600/5A  | 2.5                           | 5    | 15   | 50 x 80       |
|               | SC2-750/5A  | 750/5A  | 3                             | 6    | 20   | 50 x 80       |
|               | SC2-800/5A  | 800/5A  | 3                             | 7.5  | 20   | 50 x 80       |
|               | SC2-1000/5A | 1000/5A | 5                             | 10   | 20   | 50 x 80       |
|               | SC3-250/5A  | 250/5A  | 1                             | 2    | 4    | 80 x 80       |
|               | SC3-300/5A  | 300/5A  | 1.5                           | 3    | 6    | 80 x 80       |
| CASE 3        | SC3-400/5A  | 400/5A  | 1.5                           | 3    | 10   | 80 x 80       |
|               | SC3-500/5A  | 500/5A  | 2.5                           | 5    | 15   | 80 x 80       |
|               | SC3-600/5A  | 600/5A  | 2.5                           | 5    | 15   | 80 x 80       |
|               | SC3-750/5A  | 750/5A  | 3                             | 6    | 20   | 80 x 80       |
|               | SC3-800/5A  | 800/5A  | 3                             | 7.5  | 20   | 80 x 80       |
|               | SC3-1000/5A | 1000/5A | 5                             | 10   | 20   | 80 x 80       |
|               | SC4-500/5A  | 500/5A  | -                             | 4    | 12.5 | 80 x 120      |
|               | SC4-600/5A  | 600/5A  | -                             | 5    | 15   | 80 x 120      |
| CASE 4        | SC4-750/5A  | 750/5A  | 2.5                           | 6    | 17.5 | 80 x 120      |
|               | SC4-800/5A  | 800/5A  | 3                             | 7.5  | 20   | 80 x 120      |
|               | SC4-1000/5A | 1000/5A | 5                             | 10   | 20   | 80 x 120      |
|               | SC4-1200/5A | 1200/5A | 6                             | 12.5 | 25   | 80 x 120      |
|               | SC4-1250/5A | 1250/5A | 7.5                           | 15   | 30   | 80 x 120      |
|               | SC4-1500/5A | 1500/5A | 8                             | 17   | 30   | 80 x 120      |
|               | SC4-1600/5A | 1600/5A | 8                             | 17   | 30   | 80 x 120      |
|               | SC5-1000/5A | 1000/5A | 10                            | 15   | 20   | 80 x 160      |
| CASE 5        | SC5-1250/5A | 1250/5A | 10                            | 15   | 20   | 80 x 160      |
|               | SC5-1500/5A | 1500/5A | 15                            | 20   | 25   | 80 x 160      |
|               | SC5-2000/5A | 2000/5A | 15                            | 20   | 25   | 80 x 160      |
|               | SC5-2500/5A | 2500/5A | 15                            | 20   | 25   | 80 x 160      |
|               | SC5-3000/5A | 3000/5A | 20                            | 25   | 30   | 80 x 160      |
|               | SC5-4000/5A | 4000/5A | 20                            | 25   | 30   | 80 x 160      |
|               | SC5-5000/5A | 5000/5A | 20                            | 25   | 30   | 80 x 160      |
|               | SC5-6000/5A | 6000/5A | 20                            | 25   | 30   | 80 x 160      |

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