

# MODEL JCS-0

## Indoor Current Transformer

600 V, 50 A to 4,000 A, BIL 10 kV,  
2.50" to 5.25" Window, 50/60 Hz



JCS-0 Current Transformer

### Application

Designed for indoor service; suitable for operating meters, relays and control devices on circuits not exceeding 600 volts line-to-line. It may be used on higher voltage circuits with an insulated conductor, as described in the Applications Section of this volume.

### Regulatory Agency Approvals

UL Recognized.....File E123616

### Weight

(Approximate in pounds)

Transformer:

All models except 75X010038 .....32/28

Transformer model 75X010038 ..... 53/47

Optional Base Plate ..... 1.5/1.5

### Reference Drawings

Accuracy Curves:

|               |                 |
|---------------|-----------------|
| 50:5 .....    | Contact Factory |
| 100:5 .....   | Contact Factory |
| 200:5 .....   | Contact Factory |
| 300:5 .....   | Contact Factory |
| 400:5 .....   | 9689241355      |
| 600:5 .....   | 9689241356      |
| 800:5 .....   | 9689241237      |
| 1,200:5 ..... | 9689241238      |
| 1,500:5 ..... | 9932600217      |
| 2,000:5 ..... | 9689241240      |
| 3,000:5 ..... | 9689241357      |



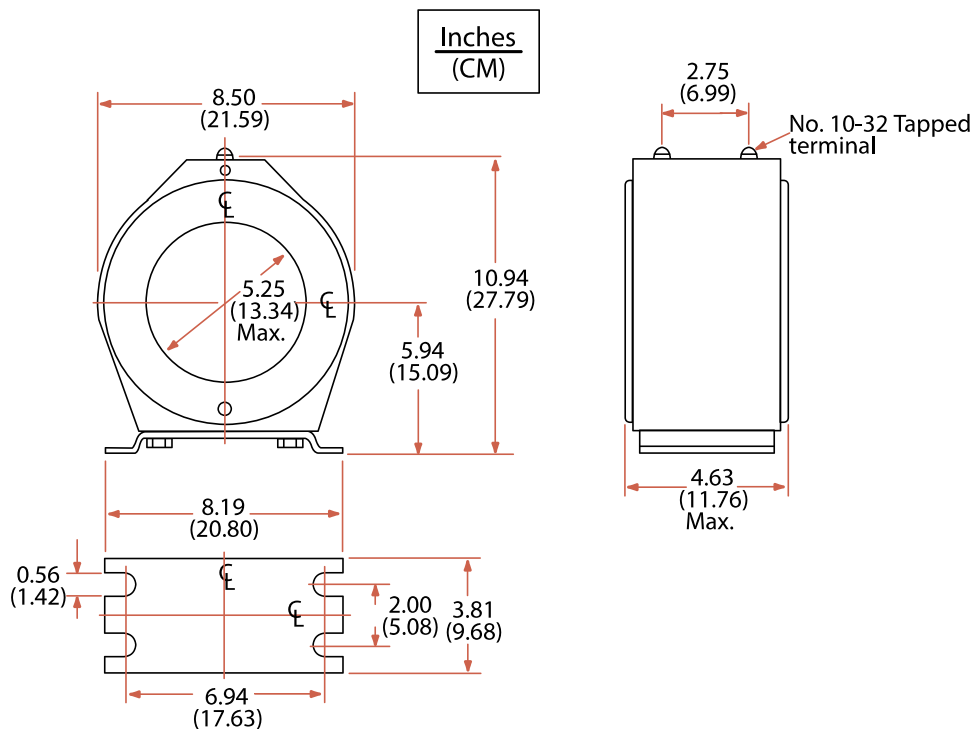
## JCS-0 Product Data

| CURRENT RATIO<br>(Amps) PRI: SEC                        | ANSI ACCURACY CLASS,<br>60 Hz |                | CONTINUOUS<br>THERMAL-CURRENT<br>RATING FACTOR |                 | ONE-SECOND THERMAL<br>LIMIT, IN AMPERES |                                                    | CATALOG NUMBER |                 |
|---------------------------------------------------------|-------------------------------|----------------|------------------------------------------------|-----------------|-----------------------------------------|----------------------------------------------------|----------------|-----------------|
|                                                         | METER<br>CLASS,<br>BURDEN     | RELAY<br>CLASS | 30°C<br>AMBIENT                                | 55°C<br>AMBIENT | SECONDARY<br>SHORT-<br>CIRCUITED        | SECONDARY<br>WITH<br>BURDEN<br>B-0.5 OR<br>GREATER | WITH<br>BASE   | WITHOUT<br>BASE |
| Single-Ratio                                            |                               |                |                                                |                 |                                         |                                                    |                |                 |
| 50:5                                                    | 1.2 thru B-0.1                | C15            | 1.33                                           | 1.0             | 4,600                                   | 60,000                                             | 750X010038     | 750X010001      |
| 100:5                                                   | ---                           | C15            | 1.33                                           | 1.0             | 4,400                                   | 60,000                                             | 750X010039     | 750X010002      |
| 200:5                                                   | 0.6 thru B-0.1                | C20            | 2.0                                            | 1.5             | 9,200                                   | 60,000                                             | 750X010041     | 750X010004      |
| 300:5                                                   | 0.6 thru B-0.2                | C50            | 2.0                                            | 1.5             | 13,800                                  | 33,000                                             | 750X010042     | 750X010005      |
| 400:5                                                   | 0.3 thru B-0.1                | C50            | 2.0                                            | 1.5             | 18,400                                  | 120,000                                            | 750X010043     | 750X010006      |
| 600:5                                                   | 0.3 thru B-0.5                | C100           | 2.0                                            | 1.5             | 27,600                                  | 66,000                                             | 750X010045     | 750X010008      |
| 800:5                                                   | 0.3 thru B-1.0                | C100           | 2.0                                            | 1.5             | 36,800                                  | 104,000                                            | 750X010046     | 750X010009      |
| 1,000:5                                                 | 0.3 thru B-1.0                | C100           | 2.0                                            | 1.5             | 36,800                                  | 104,000                                            | 750X010047     | 750X010010      |
| 1,200:5                                                 | 0.3 thru B-2.0                | C200           | 2.0                                            | 1.5             | 55,200                                  | 55,200                                             | 750X010048     | 750X010011      |
| 1,500:5                                                 | 0.3 thru B-2.0                | C200           | 1.5                                            | 1.0             | 69,000                                  | 69,000                                             | 750X010049     | 750X010012      |
| 1,600:5                                                 | 0.3 thru B-2.0                | C200           | 1.5                                            | 1.0             | 69,000                                  | 69,000                                             | 750X010050     | 750X010013      |
| 2,000:5                                                 | 0.3 thru B-2.0                | C200           | 1.5                                            | 1.0             | 146,000                                 | 146,000                                            | 750X010051     | 750X010014      |
| 2,500:5                                                 | 0.3 thru B-2.0                | C200           | 1.5                                            | 1.0             | 146,000                                 | 146,000                                            | 750X010052     | 750X010015      |
| 3,000:5                                                 | 0.3 thru B-2.0                | C200           | 1.33                                           | 1.0             | 216,000                                 | 300,000                                            | 750X010053     | 750X010016      |
| 4,000:5                                                 | 0.3 thru B-2.0                | C200           | 1.33                                           | 1.0             | 400,000                                 | 400,000                                            | 750X010054     | 750X010017      |
| Multi-Ratio                                             |                               |                |                                                |                 |                                         |                                                    |                |                 |
| 100/200/300/400/<br>500/600/800/900/<br>1,000/1,200:5   | 0.3 thru B-2.0                | C200           | 2.0                                            | 1.5             | ---                                     | ---                                                | 750X010069     | ---             |
| 300/400/500/800/<br>1,100/1,200/1,500/<br>1,600/2,000:5 | 0.3 thru B-2.0                | C200           | 1.5                                            | 1.0             | ---                                     | ---                                                | 750X010070     | ---             |
| 200/400/600/800/<br>1,200/1400/1,600/18,00/<br>2,000:5  | 0.3 thru B-2.0                | C200           | 1.5                                            | 1.0             | ---                                     | ---                                                | 750X010073     | ---             |
| 500/1,000/1,500/2,000/<br>2500/3,000:5                  | 0.3 thru B-2.0                | C200           | 1.33                                           | 1.0             | ---                                     | ---                                                | 750X010071     | ---             |
| 1,000/1,000/2,000/2,000/<br>3,000/4,000:5               | 0.3 thru B-2.0                | C200           | 1.33                                           | 1.0             | ---                                     | ---                                                | 750X010072     | ---             |



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## Model JCS-0 - Dimensions



|                                   |                            |
|-----------------------------------|----------------------------|
| Excitation Curve.....             | 9689241475                 |
| Outline Drawings:                 |                            |
| Single-Ratio Models.....          | 8949760                    |
| Multi-Ratio Model 750X010069..... | 8949826                    |
| Multi-Ratio Model 750X010070..... | 8949872                    |
| Multi-Ratio Model 750X010073..... | 8949913                    |
| Multi-Ratio Model 750X010071..... | 8949861                    |
| Multi-Ratio Model 750X010072..... | 8949873                    |
| Wiring Diagram.....               | refer to page 41, figure 3 |

### Accessories

Base Plate

### Catalog Number

8944637064

### Construction and Insulation

Please refer to General Product Information, item 1.5.

### Core

Please refer to General Product Information, item 2.5.

### Primary Winding

Please refer to General Product Information, item 3.9.

### Secondary Winding

### Terminals

Please refer to General Product Information, item 4.14.

### Polarity

Please refer to General Product Information, item 7.3.

### Baseplate and Mounting

Please refer to General Product Information, item 5.12.

### Nameplate

Please refer to General Product Information, item 6.6.

### Maintenance

Please refer to General Product Information, item 10.1 and pages 24-27.

