

# MODEL 143

## Current Transformer

Window Diameter 7.31"



REGULATORY AGENCY APPROVALS  
 E93779  LR89403  
Manufactured to meet the requirements of ANSI/IEEE C57.13.  
Classified by U.L. in accordance with IEC 44-1

### Application

Relaying and metering.

### Frequency

50-400 Hz

### Insulation Level

600 Volt, 10 kV BIL full wave.

Terminals are brass screws No. 10-32 with one flatwasher and lockwasher.

Order mounting bracket kit 0221B00775 separately.

Multi-ratios available on request.

Approximate weight 60 lbs.

### Model 143

| CATALOG NUMBER | CURRENT RATIO | RELAY CLASS | ANSI METERING CLASS AT 60 Hz |      |      |      |      | SECONDARY WINDING RESISTANCE ( $\Omega$ @ 75°C) | CONTINUOUS THERMAL RATING FACTOR |        |
|----------------|---------------|-------------|------------------------------|------|------|------|------|-------------------------------------------------|----------------------------------|--------|
|                |               |             | B0.1                         | B0.2 | B0.5 | B0.9 | B1.8 |                                                 | @ 30°C                           | @ 55°C |
| 143-500        | 50:5          | C20         | 4.8                          | 4.8  | —    | —    | —    | 0.014                                           | 2.0                              | 2.0    |
| 143-750        | 75:5          | C20         | 2.4                          | 2.4  | —    | —    | —    | 0.042                                           | 2.0                              | 2.0    |
| 143-101        | 100:5         | C20         | 1.2                          | 2.4  | 4.8  | 4.8  | —    | 0.056                                           | 2.0                              | 2.0    |
| 143-151        | 150:5*        | C50         | 0.6                          | 0.6  | 1.2  | 2.4  | 4.8  | 0.121                                           | 2.0                              | 2.0    |
| 143-201        | 200:5*        | C50         | 0.3                          | 0.3  | 0.6  | 1.2  | 2.4  | 0.161                                           | 2.0                              | 2.0    |
| 143-251        | 250:5*        | C50         | 0.3                          | 0.3  | 0.6  | 1.2  | 2.4  | 0.175                                           | 2.0                              | 2.0    |
| 143-301        | 300:5*        | C100        | 0.3                          | 0.3  | 0.3  | 0.6  | 1.2  | 0.241                                           | 2.0                              | 2.0    |
| 143-401        | 400:5*        | C100        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.6  | 0.322                                           | 2.0                              | 2.0    |
| 143-501        | 500:5*        | C100        | 0.3                          | 0.3  | 0.3  | 0.6  | 0.6  | 0.441                                           | 2.0                              | 2.0    |
| 143-601        | 600:5*        | C200        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 0.530                                           | 2.0                              | 1.5    |
| 143-751        | 750:5*        | C200        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 0.662                                           | 2.0                              | 1.5    |
| 143-801        | 800:5*        | C200        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 0.706                                           | 2.0                              | 1.5    |
| 143-102        | 1,000:5*      | C200        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 0.883                                           | 1.5                              | 1.33   |
| 143-122        | 1,200:5*      | C400        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 1.059                                           | 1.5                              | 1.0    |



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## Model 143 (cont'd)

| CATALOG NUMBER | CURRENT RATIO | RELAY CLASS | ANSI METERING CLASS AT 60 Hz |      |      |      |      | SECONDARY WINDING RESISTANCE ( $\Omega$ @ 75°C) | CONTINUOUS THERMAL RATING FACTOR |        |
|----------------|---------------|-------------|------------------------------|------|------|------|------|-------------------------------------------------|----------------------------------|--------|
|                |               |             | B0.1                         | B0.2 | B0.5 | B0.9 | B1.8 |                                                 | @ 30°C                           | @ 55°C |
| 143-152        | 1,500:5*      | C400        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 1.324                                           | 1.5                              | 1.0    |
| 143-162        | 1,600:5*      | C400        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 1.413                                           | 1.33                             | 1.0    |
| 143-202        | 2,000:5*      | C400        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 1.678                                           | 1.33                             | 1.0    |
| 143-252        | 2,500:5*      | C400        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 2.097                                           | 1.0                              | 0.8    |
| 143-302        | 3,000:5*      | C800        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 2.516                                           | 1.0                              | 0.8    |
| 143-322        | 3,200:5*      | C800        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 2.684                                           | 1.0                              | 0.8    |
| 143-352        | 3,500:5*      | C800        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 2.936                                           | 1.0                              | 0.8    |
| 143-402        | 4,000:5*      | C800        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 3.355                                           | 1.0                              | 0.6    |
| 143-502        | 5,000:5*      | C800        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 3.983                                           | 1.0                              | 0.6    |
| 143-602        | 6,000:5*      | C800        | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  | 4.780                                           | 0.8                              | 0.6    |

Approved for revenue metering by Industry Canada No. AE-0642

## Model 780

