



Technical Data Sheet

*Omega ANSI  
Current Transformer Series*



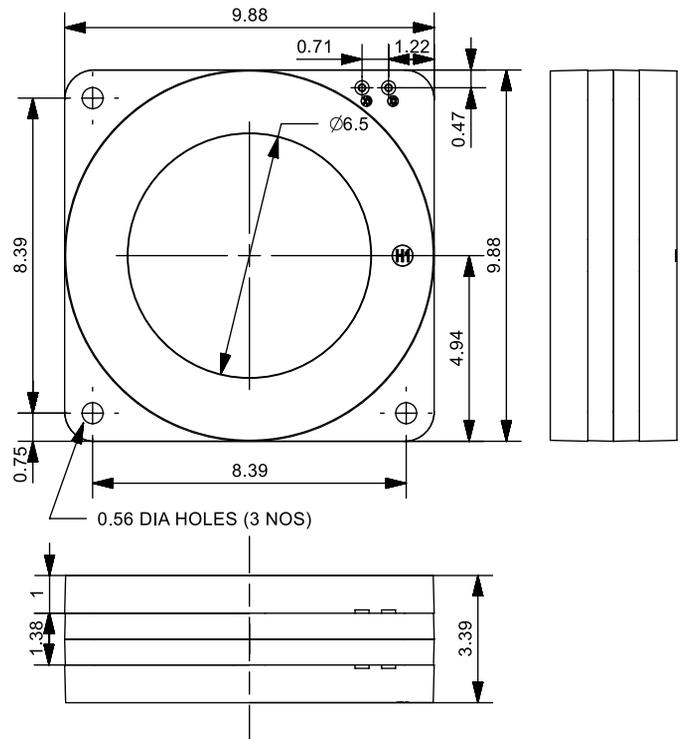
*Omega 30  
780ABT, 781AMR*



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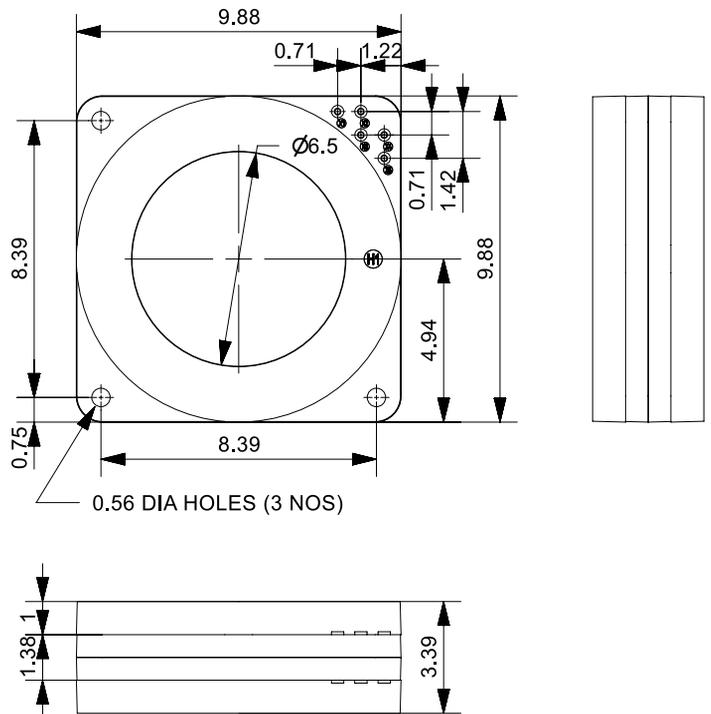


**Omega 30 - 780ABT**



\*All the mentioned dimensions are in inches

**Omega 30 - 781AMR**



\*All the mentioned dimensions are in inches

**Omega 30 - 780ABT**

| Current Ratio | VA @ ± 1% Class | ANSI METERING CLASS @ 60HZ |      |      |      |      | SECONDARY WINDING RESISTANCE (OHMS @ 75 °C) |
|---------------|-----------------|----------------------------|------|------|------|------|---|
|               |                 | B0.1                       | B0.2 | B0.5 | B0.9 | B1.8 |   |
| 50:5          | -               | 4.8                        | -    | -    | -    | -    | 0.008                                       |
| 75:5          | C10             | 4.8                        | 4.8  | -    | -    | -    | 0.016                                       |
| 100:5         | C10             | 1.2                        | 2.4  | 4.8  | -    | -    | 0.027                                       |
| 150:5         | C20             | 0.6                        | 1.2  | 2.4  | 2.4  | 4.8  | 0.042                                       |
| 200:5         | C20             | 0.6                        | 0.6  | 1.2  | 2.4  | 4.8  | 0.054                                       |
| 250:5         | C20             | 0.6                        | 0.6  | 0.6  | 1.2  | 2.4  | 0.067                                       |
| 300:5         | C20             | 0.3                        | 0.3  | 0.6  | 1.2  | 2.4  | 0.097                                       |
| 400:5         | C50             | 0.3                        | 0.3  | 0.6  | 0.6  | 1.2  | 0.129                                       |
| 500:5         | C50             | 0.3                        | 0.3  | 0.3  | 0.6  | 0.6  | 0.161                                       |
| 600:5         | C100            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.6  | 0.193                                       |
| 750:5         | C100            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.6  | 0.242                                       |
| 800:5         | C100            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 0.258                                       |
| 1000:5        | C100            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 0.322                                       |
| 1200:5        | C200            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 0.387                                       |
| 1500:5        | C200            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 0.608                                       |
| 1600:5        | C200            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 0.649                                       |
| 2000:5        | C200            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 0.588                                       |
| 2500:5        | C200            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 0.735                                       |
| 3000:5        | C200            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 1.105                                       |
| 3200:5        | C100            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 0.859                                       |
| 3500:5        | C100            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 0.940                                       |
| 4000:5        | C200            | 0.3                        | 0.3  | 0.3  | 0.3  | 0.3  | 1.074                                       |

## Specification

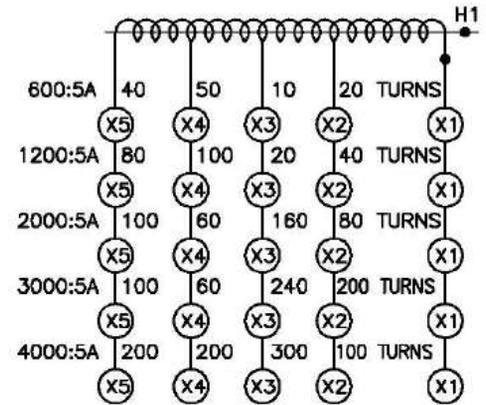
- Frequency : 50-400 Hz.
  - Insulation Level : 600 Volts. 10kV BIL. full wave
  - Insulation Level : 50:5 thru 1200:5 2.0 at 30°C amb, 1.5 at 55°C amb, 1500:5 thru 4000:5 1.5 at 30°C amb., 1.33 at 55°C amb.
  - WINDOW : 6.50"
  - APROXIMATE WEIGHT : 30 lbs
- CONNECTIONS :**
- - Secondary terminals are No. 10-32 brass screws with one flat washer, lockwasher and regular nut.

## Application

- Relaying & Metering

**Omega 30 - 781AMR**

| Current Ratio | Relay Class | ANSI metering class @60 HZ | Cont. Thermal RF |        |
|---------------|-------------|----------------------------|------------------|--------|
|               |             |                            | @30 °C           | @50 °C |
| 600:5         | C100        | 0.3 B0.5                   | 2.0              | 1.5    |
| 1200:5        | C200        | 0.3 B1.8                   | 2.0              | 1.5    |
| 2000:5        | C200        | 0.3 B1.8                   | 2.0              | 1.5    |
| 3000:5        | C200        | 0.3 B1.8                   | 1.33             | 1.33   |
| 4000:5        | C200        | 0.3 B1.8                   | 1.33             | 0.8    |



## Specification

- Frequency : 50-400 Hz.
  - Insulation Level : 600 Volts. 10kV BIL. full wave
  - CONTINUOUS THERMAL CURRENT RATING FACTOR :  
2.0 at 30°c amb., 1.5 at 55°c amb
  - WINDOW : 6.50"
  - APROXIMATE WEIGHT : 31 lbs
- CONNECTIONS :**
- Secondary terminals are No. 10-32 brass screws with one flat washer, lockwasher and regular nut.

## Application

- Relaying & Metering

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