

# CURRENT TRANSFORMERS

## Model 81

*Wound Primary*

## Model 81X

*Auxiliary Transformer*

**FREQUENCY:**  
50-400Hz

**CONTINUOUS THERMAL CURRENT RATING FACTOR:**  
1.33 at 30°C. amb,  
1.0 at 55°C. amb.

**INSULATION LEVEL MODEL 81 WOUND PRIMARY:**  
0.6 kV, BIL 10kV full wave.

- Terminals are brass studs No.8-32 with one flatwasher, lockwasher and regular nut, for ratios up to 25:5 and 1/4-20 studs for higher ratios.

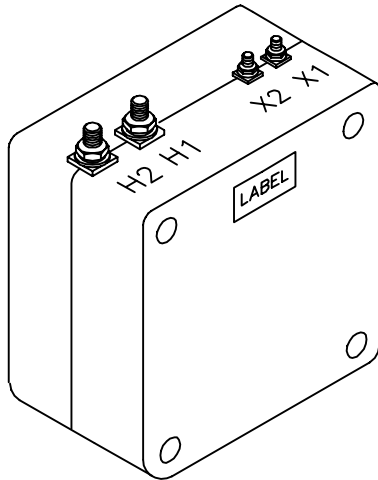
- Order Mounting Bracket Kit No. 0221B00259

- Approximate weight 18 lbs.

REGULATORY AGENCY APPROVALS



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



## Model 81

The Model 81 is a low ratio wound primary current transformer, suitable for primary currents up to 50 amperes. It is rated for metering and relaying applications. The table below lists the most common current ratings. Other ratios are available.

| CATALOG NUMBER | VA FOR 1% CLASS | RELAY CLASS | ANSI METERING CLASS AT 60 Hz |      |      |      |      |
|----------------|-----------------|-------------|------------------------------|------|------|------|------|
|                |                 |             | B0.1                         | B0.2 | B0.5 | B0.9 | B1.8 |
| 81-XXX         | 200             | T50         | 0.3                          | 0.3  | 0.3  | 0.3  | 0.3  |

| RATIO  | 1:5 | 2.5:5 | 5:5 | 7.5:5 | 10:5 | 15:5 | 20:5 | 25:5 | 30:5 | 40:5 | 50:5 |
|--------|-----|-------|-----|-------|------|------|------|------|------|------|------|
| SUFFIX | 001 | 0025  | 005 | 0075  | 010  | 015  | 020  | 025  | 030  | 040  | 050  |

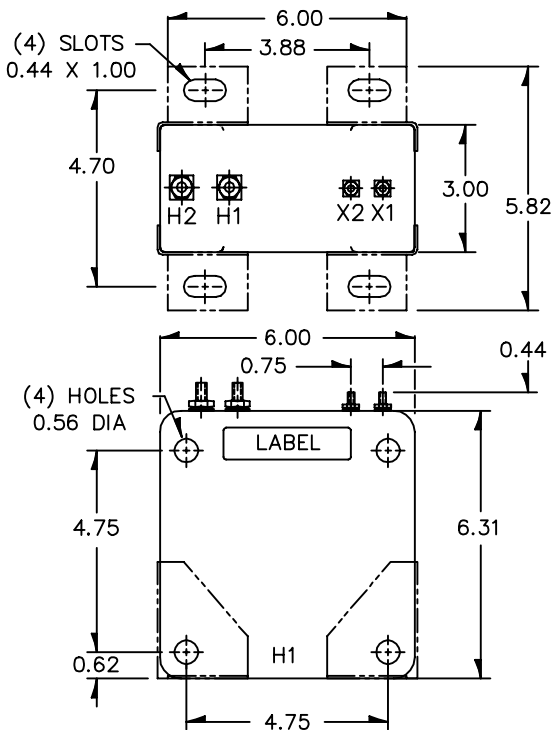
\* 1/4-20 stud terminals.

## Model 81X

ANSI Metering Class 0.3 B1.8

The Model 81X is an auxiliary transformer for use in the secondary of main current transformers to change the ratio for metering applications.

Since the Model 81X is used in the secondary of another current transformer it has no voltage rating. It is given a 2500 Volt 60 Hz high potential test. It is designed to be used on circuits not to exceed 600 Volts to ground or between windings.



| CATALOG NUMBER | CURRENT RATIO |
|----------------|---------------|
| 81X0100        | 5: 0.100      |
| 81X0200        | 5: 0.200      |
| 81X0250        | 5: 0.250      |
| 81X0500        | 5: 0.500      |
| 81X0625        | 5: 0.625      |
| 81X1000        | 5: 1.000      |
| 81X1250        | 5: 1.250      |
| 81X1667        | 5: 1.667      |
| 81X2000        | 5: 2.000      |
| 81X2395        | 5: 2.395      |
| 81X2500        | 5: 2.500      |
| 81X2890        | 5: 2.890      |
| 81X3000        | 5: 3.000      |
| 81X3330        | 5: 3.330      |
| 81X3750        | 5: 3.750      |
| 81X4000        | 5: 4.000      |
| 81X5000        | 5: 5.000      |
| 81X5330        | 5: 5.330      |

| CATALOG NUMBER | CURRENT RATIO |
|----------------|---------------|
| 81X6250        | 5: 6.250      |
| 81X7500        | 5: 7.500      |
| 81X8000        | 5: 8.000      |
| 81X10000       | 5: 10.000     |
| 81X12500       | 5: 12.500     |
| 81X15000       | 5: 15.000     |
| 81X1500-5      | 1.500: 5      |
| 81X1667-5      | 1.667: 5      |
| 81X2500-5      | 2.500: 5      |
| 81X2875-5      | 2.875: 5      |
| 81X7500-5      | 7.500: 5      |
| 81X10500-5     | 10.500: 5     |
| 81X0500-1      | 0.500: 1      |
| 81X0923-1      | 0.923: 1      |
| 81X0400-10     | 0.400: 10     |
| 81XSUM-2 **    | 5+5: 5        |
| 81XSUM-3 **    | 5+5+5: 5      |

\*\* The circuits of up to five secondaries may be totaled. Equal or unequal line current transformers can be summed with this transformer. Advise the ratios of the line current transformers to be totaled. Output terminals are X1-2.