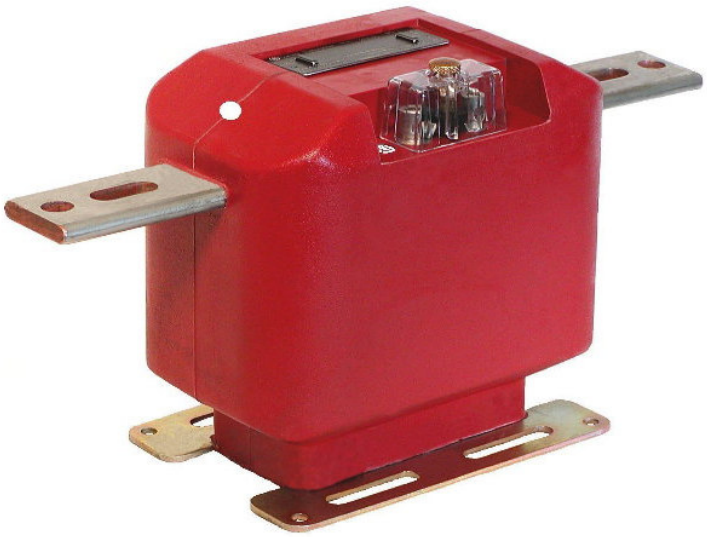
# Indoor Current Transformer, Wound Primary
# Model JKM-3C 5kV, 60kV BIL, 5-800A



**APPLICATION**
Designed for indoor service; Suitable for operating meters, instruments and control devices.

**WEIGHT**
(Approximate) .....30 lbs

**REFERENCE DRAWINGS**
Outline .....0163C34456

**INSULATION LEVEL**
5kV; BIL 60kV full wave

**FREQUENCY**
50-60 Hz

**JKM-3C DATA TABLE**

| Current Ratio (Amps) Pri : Sec | ANSI Accuracy Class, 60 Hz | | | Continuous Thermal Current Rating Factor | | Primary Bar Size | | One Second Thermal Limit, Amps | Mech. Limit Amps | Catalog Number |
|---|---|---|---|---|---|---|---|---|---|---|
| | ANSI Meter Class Burden | | Relay Class | | | | | | | |
| | B0.1 to B0.5 | B0.9 to 1.8 | | @ 30°C Amb. | @ 55°C Amb. | Width ins. | Thick ins. | | | |
| **Single Ratio** | | | | | | | | | | |
| 5:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 465 | 550 | 753X140023 |
| 10:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 930 | 1100 | 753X140024 |
| 15:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 1470 | 1650 | 753X140025 |
| 20:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 1850 | 2200 | 753X140026 |
| 25:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 2300 | 2750 | 753X140027 |
| 30:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 2450 | 3300 | 753X140028 |
| 40:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 3700 | 4400 | 753X140029 |
| 50:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 4600 | 5500 | 753X140030 |
| 75:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 6400 | 8250 | 753X140032 |
| 100:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 8600 | 11000 | 753X140033 |
| 150:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 1.50 | 0.188 | 12800 | 16500 | 753X140035 |
| 200:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 2.00 | 0.25 | 17300 | 22000 | 753X140036 |
| 300:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 2.00 | 0.25 | 25700 | 33000 | 753X140038 |
| 400:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 2.00 | 0.25 | 36000 | 44000 | 753X140039 |
| 500:5 | 0.3 | 0.3 | T100 | 1.33 | 1.0 | 2.00 | 0.38 | 43100 | 47000 | 753X140040 |
| 600:5 | 0.3 | 0.3 | T100 | 1.5 | 1.0 | 2.00 | 0.38 | 51500 | 66000 | 753X140041 |
| 800:5 | 0.3 | 0.3 | T100 | 1.33 | 1.0 | 2.00 | 0.38 | 63300 | 70500 | 753X140042 |
| **Tapped Secondary** | | | | | | | | | | |
| 50/100:5 | 0.3 | --- | T50 | 2.0 | 1.5 | 1.50 | 0.188 | 4300 | 11000 | 753X140016 |
| | 0.3 | 0.3 | T100 | 1.5 | 1.0 | | | 8600 | | |
| 75/150:5 | 0.3 | --- | T50 | 2.0 | 1.5 | 1.50 | 0.188 | 6400 | 16500 | 753X140017 |
| | 0.3 | 0.3 | T100 | 1.5 | 1.0 | | | 12800 | | |
| 100/200:5 | 0.3 | --- | T50 | 2.0 | 1.5 | 2.00 | 0.25 | 8650 | 22000 | 753X140018 |
| | 0.3 | 0.3 | T100 | 1.5 | 1.0 | | | 17300 | | |
| 150/300:5 | 0.3 | --- | T50 | 2.0 | 1.5 | 2.00 | 0.25 | 13750 | 33000 | 753X140019 |
| | 0.3 | 0.3 | T100 | 1.5 | 1.0 | | | 27500 | | |
| 200/400:5 | 0.3 | --- | T50 | 2.0 | 1.5 | 2.00 | 0.25 | 18000 | 44000 | 753X140020 |
| | 0.3 | 0.3 | T100 | 1.5 | 1.0 | | | 36000 | | |
| 300/600:5 | 0.3 | --- | T50 | 2.0 | 1.5 | 2.00 | 0.38 | 25750 | 66000 | 753X140021 |
| | 0.3 | 0.3 | T100 | 1.5 | 1.0 | | | 51500 | | |
| 400/800:5 | 0.3 | --- | T50 | 2.0 | 1.5 | 2.00 | 0.38 | 31650 | 70500 | 753X140022 |
| | 0.3 | 0.3 | T100 | 1.33 | 1.0 | | | 63300 | | |

**Construction and Insulation**
The core and coil assembly is encapsulated in vacuum cast polyurethane resin. This tough material has excellent electrical and mechanical properties over a wide temperature range, has low water absorption and is resistant to oil and a variety of chemicals.

**Core and Coils**
The core is made from high quality grain oriented silicon steel, annealed under rigidly controlled factory conditions. The primary winding consists of two coils in series, one around each leg of the core. This construction minimizes flux leakage thus improving the accuracy of the transformer. The secondary winding consists of two coils in parallel. Each coil is located inside the corresponding primary coil and surrounds one leg of the core.

**Terminals**
Secondary terminals are tin plated brass, compression type with a 0.275" diameter cross-hole for wiring and a 1/4-28 clamp screw. A shorting device is provided and interlocked to the terminal cover. The terminal cover is made of a clear plastic. Provision is made for sealing the cover.

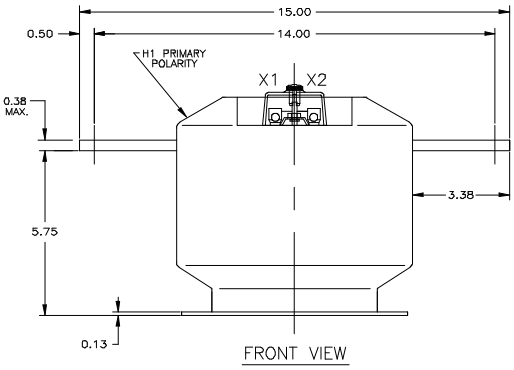
**Primary Bars**
The primary terminals are tin plated copper bars molded into the cast resin insulation. They have one hole and one slot at each end, suitable for 1/2" bolts.

**Polarity**
The primary and secondary polarity markers H1, X1, are molded in the insulation. They are thus permanent and integral parts of the transformer and cannot be readily obliterated. They are also marked white.

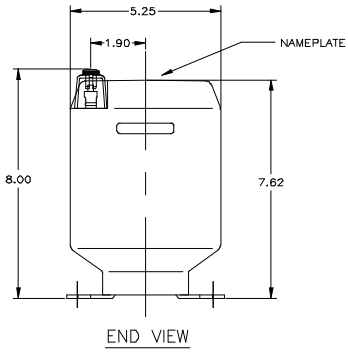
**Nameplates**
The nameplate is laser engraved aluminum. It is attached to the top of the unit and has provision for attaching the user's identifying tag. The nominal current rating is marked on the side of the unit in large numerals.

**Base plate and Mounting**
The base plate is made of stainless steel; it is provided with four slots for mounting. The transformer may be mounted in any orientation.

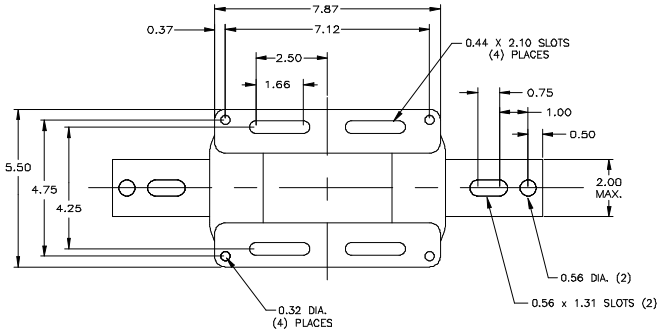
**Maintenance**
These transformers require no maintenance, other than occasional cleaning, if installed where air contamination is severe.



FRONT VIEW



END VIEW



BOTTOM VIEW

*JKM-3C Dimensions*

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