

# Model JKM-3C

**Indoor Current Transformer, Wound Primary**  
**5 kV, 60 kV BIL, 5-800 A**



## Application

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

## Weight

(Approximate) .....30 lbs

## Insulation level

5 kV; BIL 60 kV full wave

## Reference Drawings

Outline .....0163C34456

## Frequency

50-60 Hz

REGULATORY AGENCY APPROVALS



E145172



LR89403

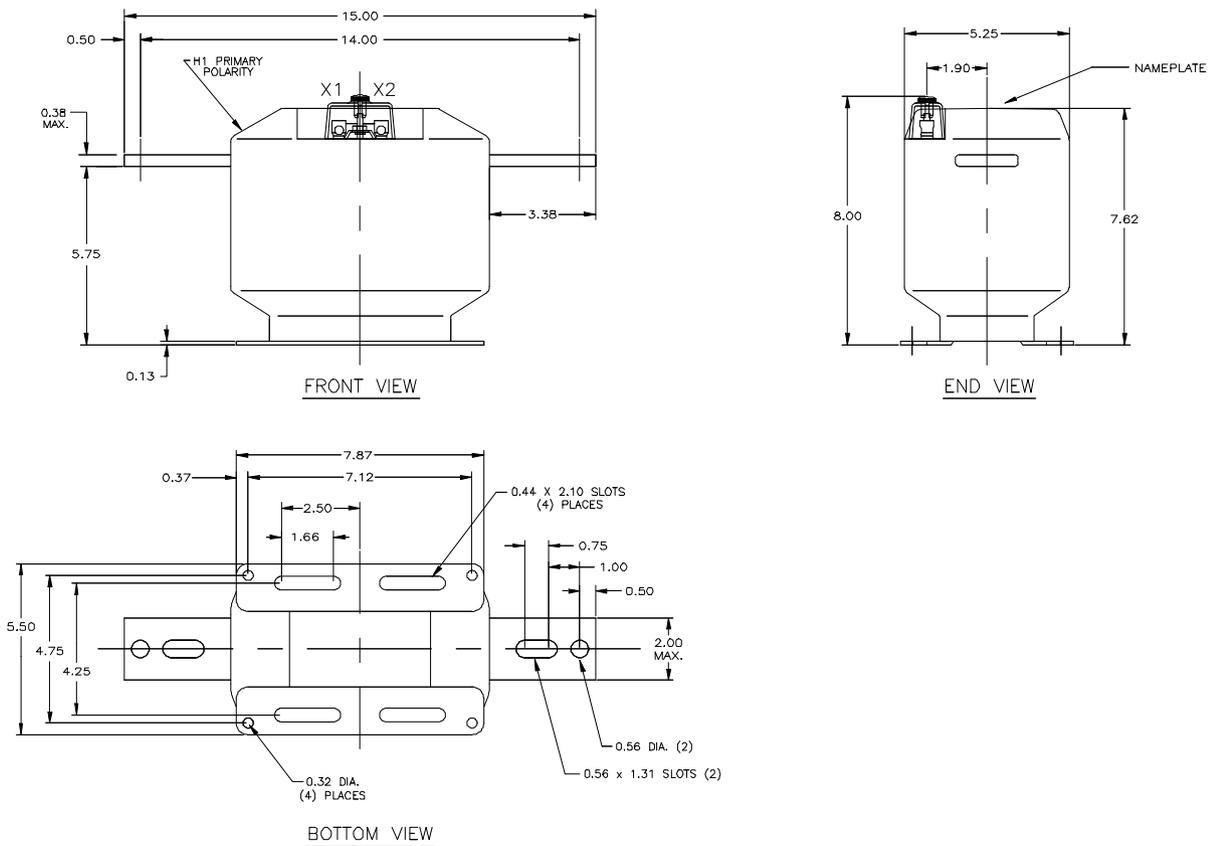
Manufactured to meet the requirements of ANSI/IEEE C57.13.

## Model JKM-3C Product Data

Current Ratio (Amps) Pri : Sec	ANSI Accuracy Class, 60 Hz		Relay Class	Continuous Thermal Current Rating Factor		Primary Bar Size		One Second Thermal Limit, Amps	Mech. Limit Amps	753X140023
	ANSI Meter Class Burden B0.1 to B0.5	B0.9 to 1.8		@ 30 °C Amb.	@ 55 °C Amb.	Width ins.	Thick ins.			
<b>Single Ratio</b>										
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	1,100	753X140024
15:5	0.3	0.3	T100	1.5	1.0	1.50	0.188	1,470	1,650	753X140025
20:5	0.3	0.3	T100	1.5	1.0	1.50	0.188	1,850	2,200	753X140026
25:5	0.3	0.3	T100	1.5	1.0	1.50	0.188	2,300	2,750	753X140027
30:5	0.3	0.3	T100	1.5	1.0	1.50	0.188	2,450	3,300	753X140028
40:5	0.3	0.3	T100	1.5	1.0	1.50	0.188	3,700	4,400	753X140029
50:5	0.3	0.3	T100	1.5	1.0	1.50	0.188	4,600	5,500	753X140030
75:5	0.3	0.3	T100	1.5	1.0	1.50	0.188	6,400	8,250	753X140032
100:5	0.3	0.3	T100	1.5	1.0	1.50	0.188	8,600	11,000	753X140033
150:5	0.3	0.3	T100	1.5	1.0	1.50	0.188	12,800	16,500	753X140035
200:5	0.3	0.3	T100	1.5	1.0	2.00	0.25	17,300	22,000	753X140036
300:5	0.3	0.3	T100	1.5	1.0	2.00	0.25	25,700	33,000	753X140038
400:5	0.3	0.3	T100	1.5	1.0	2.00	0.25	36,000	44,000	753X140039
500:5	0.3	0.3	T100	1.33	1.0	2.00	0.38	43,100	47,000	753X140040
600:5	0.3	0.3	T100	1.5	1.0	2.00	0.38	51,500	66,000	753X140041
800:5	0.3	0.3	T100	1.33	1.0	2.00	0.38	63,300	70,500	753X140042
<b>Tapped Secondary</b>										
50/100:5	0.3	---	T50	2.0	1.5	1.50	0.188	4,300	11,000	753X140016
	0.3	0.3	T100	1.5	1.0			8,600		
75/150:5	0.3	---	T50	2.0	1.5	1.50	0.188	6,400	16,500	753X140017
	0.3	0.3	T100	1.5	1.0			12,800		
100/200:5	0.3	---	T50	2.0	1.5	2.00	0.25	8,650	22,000	753X140018
	0.3	0.3	T100	1.5	1.0			17,300		
150/300:5	0.3	---	T50	2.0	1.5	2.00	0.25	13,750	33,000	753X140019
	0.3	0.3	T100	1.5	1.0			27,500		
200/400:5	0.3	---	T50	2.0	1.5	2.00	0.25	18,000	44,000	753X140020
	0.3	0.3	T100	1.5	1.0			36,000		
300/600:5	0.3	---	T50	2.0	1.5	2.00	0.38	25,750	66,000	753X140021
	0.3	0.3	T100	1.5	1.0			51,500		
400/800:5	0.3	---	T50	2.0	1.5	2.00	0.38	31,650	70,500	753X140022
	0.3	0.3	T100	1.33	1.0			63,300		



## JKM-3C Dimensions



### 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.

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