



# Wound Primary Indoor Current Transformer

**Model JKM-5C**

**CERTIFICATIONS:**

**APPLICATION:**

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

**FREQUENCY:**

50-60 Hz.

**INSULATION LEVEL:**

15.5 kV; BIL 110 kV full wave

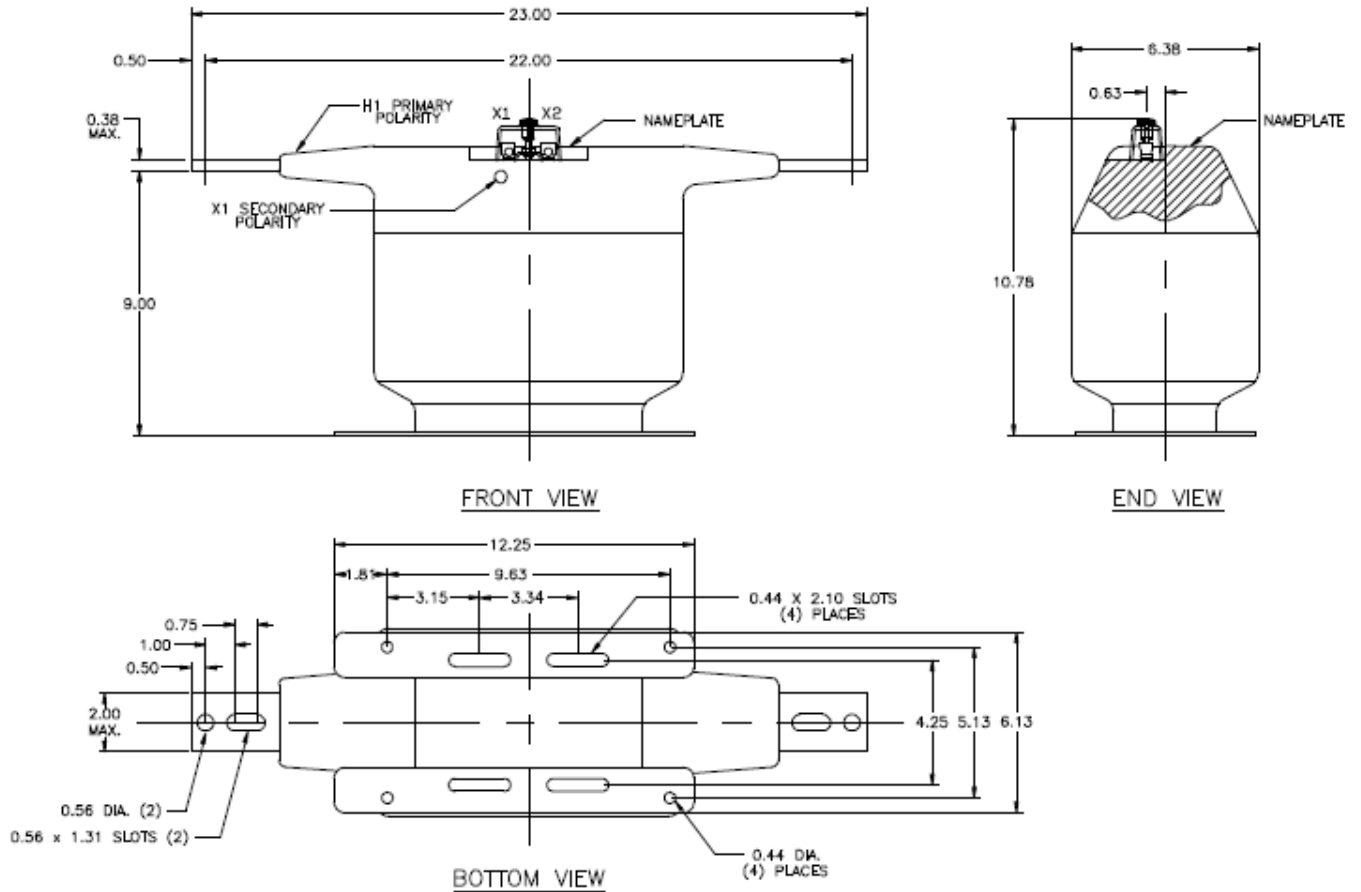
**APPROXIMATE WEIGHT:**

53 lbs.



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
	ANSI Meter Class Burden			@30°C Amb.	@55°C Amb.	Width ins.	Thick ins.		
	B0.1 to B0.5	B0.9 to 1.8		Single Ratio					
5:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	465	625
10:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	930	1,250
15:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	1,470	1,875
20:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	1,850	2,500
25:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	2,300	3,125
30:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	2,460	3,750
40:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	3,720	5,000
50:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	4,600	6,250
75:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	6,375	9,375
100:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	8,600	12,500
150:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	12,750	18,750
200:5	0.3	0.3	T200	1.5	1.33	2.00	0.25	17,200	25,000
300:5	0.3	0.3	T200	1.5	1.33	2.00	0.25	25,800	37,500
400:5	0.3	0.3	T200	1.5	1.33	2.00	0.25	36,000	50,000
500:5	0.3	0.3	T200	1.5	1.33	2.00	0.38	42,000	53,500
600:5	0.3	0.3	T200	1.5	1.33	2.00	0.38	51,600	75,000
800:5	0.3	0.3	T200	1.2	0.85	2.00	0.38	63,200	80,000
Tapped Secondary									
50/100:5	0.3	---	T100	2.0	1.5	1.50	0.188	4,300	12,500
	0.3	0.3	T200	1.5	1.0			8,600	
75/150:5	0.3	---	T100	2.0	1.5	1.50	0.188	6,375	18,750
	0.3	0.3	T200	1.5	1.0			12,750	
100/200:5	0.3	---	T100	2.0	1.5	2.00	0.25	8,600	25,000
	0.3	0.3	T200	1.5	1.0			17,200	
150/300:5	0.3	---	T100	2.0	1.5	2.00	0.25	12,900	37,500
	0.3	0.3	T200	1.5	1.0			25,800	
200/400:5	0.3	---	T100	2.0	1.5	2.00	.25	18,000	50,000
	0.3	0.3	T200	1.5	1.0			36,000	
300/600:5	0.3	---	T100	2.0	1.5	2.00	0.38	25,800	75,000
	0.3	0.3	T200	1.5	1.0			51,600	
400/800:5	0.3	---	T100	2.0	1.5	2.00	0.38	31,600	80,000
	0.3	0.3	T200	1.2	0.85			63,200	

Products are manufactured in a plant whose quality management system is certified / registered as being in conformity with ISO 9001



### 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 ¼ - 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 ½" 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.

### 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.