Model JKM-5C

Indoor Current Transformer, Wound Primary
15.5 kV, 110 kV BIL, 5-800 A



Application

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

Weight

(Approximate) ..... 53 lbs

Insulation Level

15.5 kV; BIL 110 kV full wave

Reference Drawings

Outline 0162C34108

Frequency

50-60 Hz

REGULATORY AGENCY APPROVALS

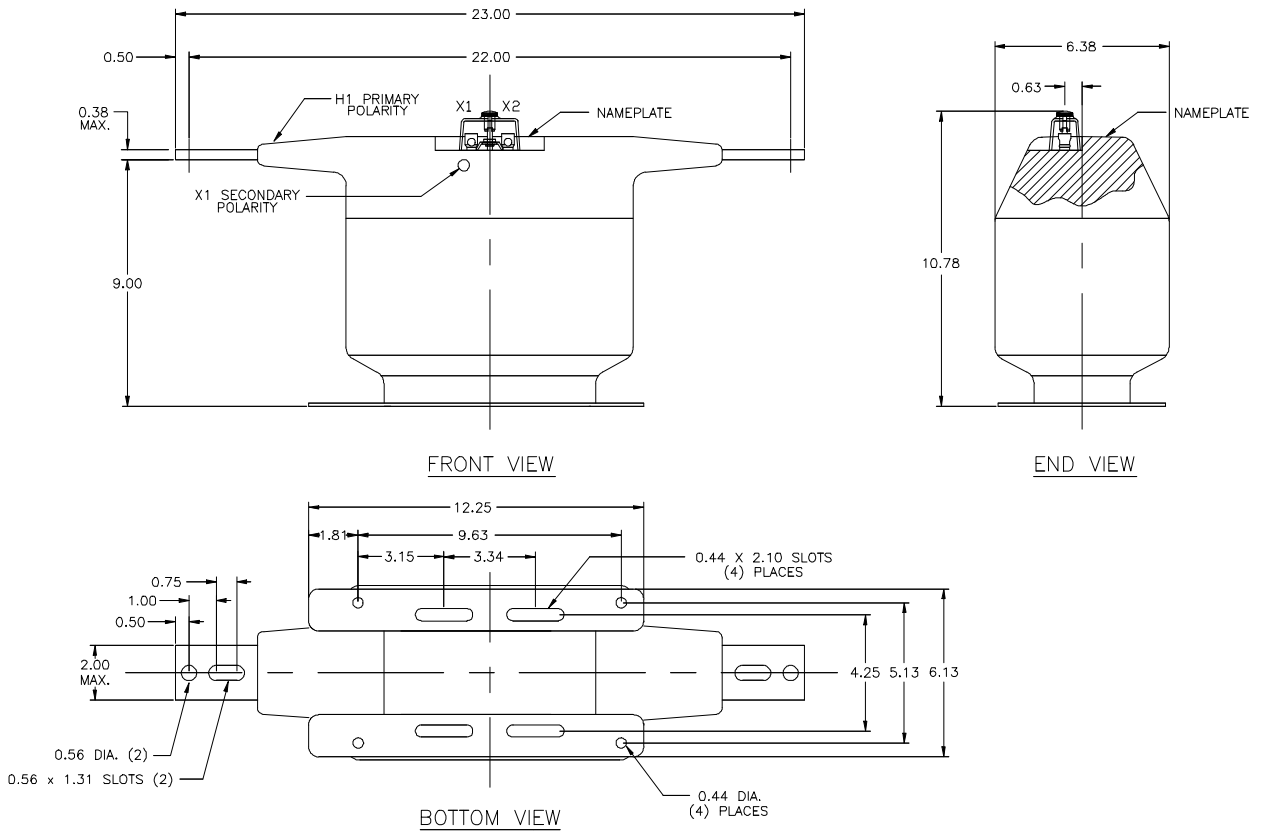
E145172 LR89403

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

Model JKM-5C

Current Ratio (Amps) Pri : Sec	ANSI Accuracy Class, 60 Hz			Continuous Thermal Current Rating Factor		Primary Bar Size		1-Sec. Thermal Limit, Amps	Mech. Limit Amps	Catalog Number
	ANSI Meter Class Burden		Relay Class	@ 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	755X142001
10:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	930	1,250	755X142002
15:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	1,470	1,875	755X142003
20:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	1,850	2,500	755X142004
25:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	2,300	3,125	755X142005
30:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	2,460	3,750	755X142006
40:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	3,720	5,000	755X142007
50:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	4,600	6,250	755X142008
75:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	6,375	9,375	755X142009
100:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	8,600	12,500	755X142010
150:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	12,750	18,750	755X142011
200:5	0.3	0.3	T200	1.5	1.33	2.00	0.25	17,200	25,000	755X142012
300:5	0.3	0.3	T200	1.5	1.33	2.00	0.25	25,800	37,500	755X142014
400:5	0.3	0.3	T200	1.5	1.33	2.00	0.25	36,000	50,000	755X142015
500:5	0.3	0.3	T200	1.5	1.33	2.00	0.38	42,000	53,500	755X142016
600:5	0.3	0.3	T200	1.5	1.33	2.00	0.38	51,600	75,000	755X142017
800:5	0.3	0.3	T200	1.2	0.85	2.00	0.38	63,200	80,000	755X142018
Tapped Secondary										
50/100:5	0.3	---	T100	2.0	1.5	1.50	0.188	4,300	12,500	755X142039
	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	755X142040
	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	755X142041
	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	755X142042
	0.3	0.3	T200	1.5	1.0			25,800		
200/400:5	0.3	---	T100	2.0	1.5	2.00	0.25	18,000	50,000	755X142043
	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	755X142044
	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	755X142045
	0.3	0.3	T200	1.2	0.85			63,200		

JKM-5C 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.

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.