

Indoor Current Transformer, Wound Primary Model JKM-5C 15kV, 110kV BIL, 5-800A

REGULATORY AGENCY APPROVALS



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



APPLICATION

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

WEIGHT

(Approximate)53 lbs

REFERENCE DRAWINGS

Outline0162C34108

INSULATION LEVEL

15.5kV; BIL 110kV full wave

FREQUENCY

50-60 Hz

JKM-5C DATA TABLE

Current Ratio (Amps) Pri : Sec	ANSI Accuracy Class, 60 Hz			Continuous Thermal Current Rating Factor		Primary Bar Size		Mech. Limit Amps	One Second Thermal 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	625	465	755X142001
10:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	1250	930	755X142002
15:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	1875	1470	755X142003
20:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	2500	1850	755X142004
25:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	3125	2300	755X142005
30:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	3750	2460	755X142006
40:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	5000	3720	755X142007
50:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	6250	4600	755X142008
75:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	9375	6375	755X142009
100:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	12500	8600	755X142010
150:5	0.3	0.3	T200	1.5	1.33	1.50	0.188	18750	12750	755X142011
200:5	0.3	0.3	T200	1.5	1.33	2.00	0.25	25000	17200	755X142012
300:5	0.3	0.3	T200	1.5	1.33	2.00	0.25	37500	25800	755X142014
400:5	0.3	0.3	T200	1.5	1.33	2.00	0.25	50000	36000	755X142015
500:5	0.3	0.3	T200	1.5	1.33	2.00	0.38	53500	42000	755X142016
600:5	0.3	0.3	T200	1.5	1.33	2.00	0.38	75000	51600	755X142017
800:5	0.3	0.3	T200	1.2	0.85	2.00	0.38	80000	63200	755X142018
Tapped Secondary										
50/100:5	0.3	---	T100	2.0	1.5	1.50	0.188	12500	4300	755X142039
	0.3	0.3	T200	1.5	1.0				8600	
75/150:5	0.3	---	T100	2.0	1.5	1.50	0.188	18750	6375	755X142040
	0.3	0.3	T200	1.5	1.0				12750	
100/200:5	0.3	---	T100	2.0	1.5	2.00	0.25	25000	8600	755X142041
	0.3	0.3	T200	1.5	1.0				17200	
150/300:5	0.3	---	T100	2.0	1.5	2.00	0.25	37500	12900	755X142042
	0.3	0.3	T200	1.5	1.0				25800	
200/400:5	0.3	---	T100	2.0	1.5	2.00	0.25	50000	18000	755X142043
	0.3	0.3	T200	1.5	1.0				36000	
300/600:5	0.3	---	T100	2.0	1.5	2.00	0.38	75000	25800	755X142044
	0.3	0.3	T200	1.5	1.0				51600	
400/800:5	0.3	---	T100	2.0	1.5	2.00	0.38	80000	31600	755X142045
	0.3	0.3	T200	1.2	0.85				63200	

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.

Data subject to change without notice

