Model JKM-4C

Indoor Current Transformer, Wound Primary
8.7 kV, 75 kV BIL, 5-800 A

Application

Designed for indoor service; Suitable for oper-ating meters, instruments and control devices.

Weight

(Approximate) .....42 lbs

Insulation Level

8.7 kV; BIL 75 kV full wave

Reference Drawings

Outline 0163C34461

Frequency

50-60 Hz

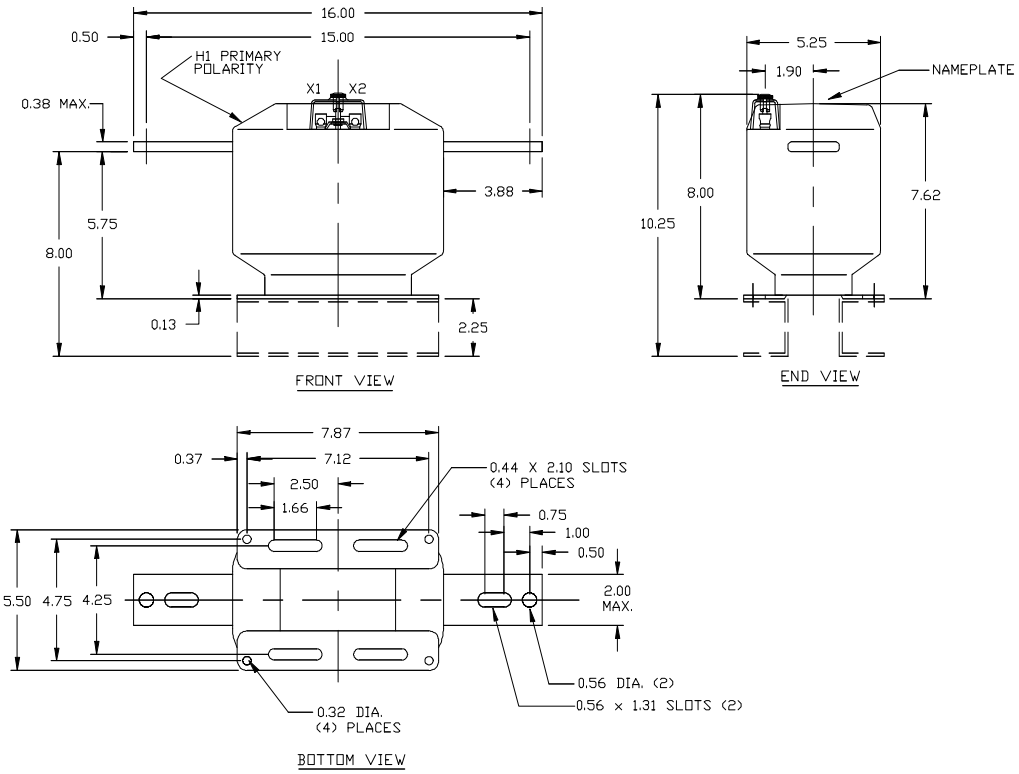
REGULATORY AGENCY APPROVALS

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

JKM-4C Product Data

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	
	B0.1 to B1.8	Relay Class	@ 30 °C Amb.	@ 55 °C Amb.	Width ins	Thick ins.			Transformer Only	With Base Extension
5:5	0.3	T100	1.5	1.0	1.50	0.188	465	550	754X140001	754X140019
10:5	0.3	T100	1.5	1.0	1.50	0.188	930	1,100	754X140002	754X140020
15:5	0.3	T100	1.5	1.0	1.50	0.188	1,470	1,650	754X140003	754X140021
20:5	0.3	T100	1.5	1.0	1.50	0.188	1,850	2,200	754X140004	754X140022
25:5	0.3	T100	1.5	1.0	1.50	0.188	2,300	2,750	754X140005	754X140023
30:5	0.3	T100	1.5	1.0	1.50	0.188	2,450	3,300	754X140006	754X140024
40:5	0.3	T100	1.5	1.0	1.50	0.188	3,700	4,400	754X140007	754X140025
50:5	0.3	T100	1.5	1.0	1.50	0.188	4,600	5,500	754X140008	754X140026
75:5	0.3	T100	1.5	1.0	1.50	0.188	6,400	8,250	754X140009	754X140027
100:5	0.3	T100	1.5	1.0	1.50	0.188	8,600	11,000	754X140010	754X140028
150:5	0.3	T100	1.5	1.0	1.50	0.188	12,800	16,500	754X140011	754X140029
200:5	0.3	T100	1.5	1.0	2.00	0.25	17,300	22,000	754X140012	754X140030
300:5	0.3	T100	1.5	1.0	2.00	0.25	25,700	33,000	754X140014	754X140032
400:5	0.3	T100	1.5	1.0	2.00	0.25	36,000	44,000	754X140015	754X140033
500:5	0.3	T100	1.33	1.0	2.00	0.38	43,100	47,000	754X140016	754X140034
600:5	0.3	T100	1.5	1.0	2.00	0.38	51,500	66,000	754X140017	754X140035
800:5	0.3	T100	1.33	1.0	2.00	0.38	63,300	70,500	754X140018	754X140036

JKM-4C 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. Abase extension is available which raises the transformer, bringing the primary terminals to the height recommended in industry standards for 8,700 volt metering current transformers.

Maintenance

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