

Model JCR-0C

Indoor/Outdoor Current Transformer

600 V, 10 kV BIL, 100 to 400 A, Window Diameters 1.125", 1.50", 2.00"

Application

Designed for both indoor and outdoor service. Suitable for operating meters and instruments, on both single-phase two-wire circuits and polyphase circuits.

Weight

(Approximate) Transformer, without base	
200:5	6.0 lbs
300:5	3.8 lbs
400:5	3.3 lbs
Low base, add	0.5 lbs
High (EEI) base, add	6.0 lbs

Insulation Level

0.6 kV; BIL 10 kV full wave

Frequency

50-60 Hz



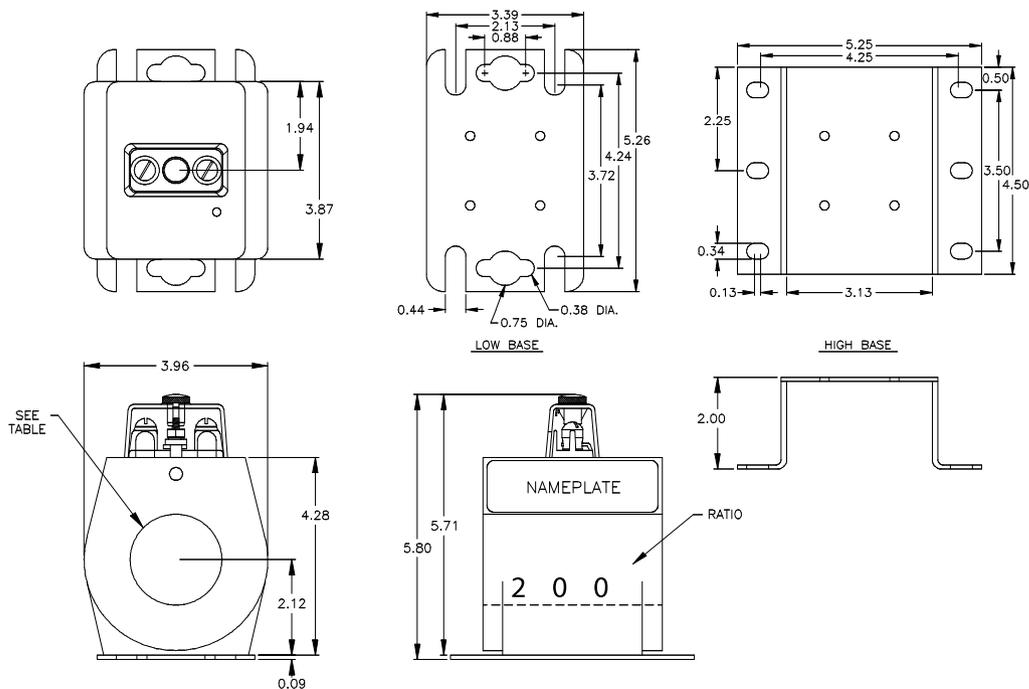
Reference Drawings

Outline	0121C33753
Low Base Assembly	0221C36157
High Base Assembly	0221C36158

Model JCR-0C Product Data

Current Ratio (Amps) Pri : Sec	ANSI Accuracy Class, 60 Hz Burden Per ANSI			Continuous Thermal Current Rating Factor		Window I.D. (inches)	Catalog Number	
	B0.1	B0.2	B0.5	30 °C Amb.	50 °C Amb.		With Secondary Hardware and Cover	Without Secondary Hardware and Cover
Without Base								
100:5	0.3	0.3	1.2	4.0	3.0	1.125	750X134072	750X134071
200:5	0.3	0.3	0.6	3.0	2.0	1.50	750X134053	750X134052
300:5	0.3	0.3	0.6	2.0	1.5	2.00	750X134022	750X134021
400:5	0.3	0.3	0.6	2.0	1.5	2.00	750X134004	750X134002
With Low Base								
100:5	0.3	0.3	1.2	4.0	3.0	1.125	750X134074	750X134073
200:5	0.3	0.3	0.6	3.0	2.0	1.50	750X134055	750X134054
300:5	0.3	0.3	0.6	2.0	1.5	2.00	750X134024	750X134023
400:5	0.3	0.3	0.6	2.0	1.5	2.00	750X134008	750X134006
With High (EEI) Base								
100:5	0.3	0.3	1.2	4.0	3.0	1.125	750X134076	750X134075
200:5	0.3	0.3	0.6	3.0	2.0	1.50	750X134057	750X134056
300:5	0.3	0.3	0.6	2.0	1.5	2.00	750X134026	750X134025
400:5	0.3	0.3	0.6	2.0	1.5	2.00	750X134012	750X134010

JCR-0C Dimensions



Construction and Insulation

The core and coil are encapsulated in a polyurathane 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 secondary winding is made of heavy enameled copper wire. The secondary windings are evenly distributed around the core for maximum accuracy and resistance to stray fields from adjacent conductors.

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.

Polarity

The H1 polarity mark is molded into the transformer body, above the window at one end. The X1 polarity mark is also molded into the body adjacent to the secondary terminal. Both are identified with a white dot.

Primary Window

The window has ample size to accommodate cables of current-carrying capacity equal to or greater than the transformer's thermal current rating.

Nameplates

The nameplate is laser engraved aluminum. It is attached to the side of the unit and has provision for attaching the user's identifying tag. The nominal current rating is marked on both sides of the unit in large numerals.

Baseplate and Mounting

The transformer can be mounted in any position and may be suspended from the bus-bar or cable. It has provision for attaching two optional bases. Bases are made from heavy steel and plated. The high base increases the transformer height by 2 inches and meets the dimensions specified in ANSI C12.11.

Maintenance

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