RITZ INSTRUMENT TRANSFORMERS, INC.

Instrument Transformers

Current Transformers

DCDW

General Description

The DCDW is a large window type current transformer designed for use with watt-hour meters and intended for installation around secondary bushings in pad mount transformers. Special designs are available for operating in high temperature environments up to 85° C. The transformer meets all applicable IEEE, ANSI and NEMA standards. A wide variety of accessories and ratings allows for maximum versatility.

Construction

The oval core is wound from high quality grain oriented silicon steel which has been annealed. The secondary winding is accomplished with heavy enameled copper wire evenly distributed around the core. The core and coil assembly is then completely encapsulated in polyurethane resin inside a molded shell of tough glass reinforced nylon. The tapered lower half of the outer shell allows for a tight triangular fitting when the middle unit is mounted upside down.

Secondary Terminals and Cover

Secondary terminals are tinned bronze compression type with a large 7.5 mm (.29") diameter cross-hole. A bronze pivoting short circuit device interferes with the proper placement of the clear polycarbonate cover when the shorting device is in the shorted position. The terminal cover is designed to accept a sealing device.

Mounting

The transformer is designed for wall mounting and comes with 2 through holes. Also standard are removable bus bar clips for attaching the transformer to the terminal spades inside the transformer cabinet.

Test Reports

Test reports according to the latest revisions of IEEE C57.13 are stored electronically at time of test and can be sent via email in customer preferred formats at time of shipment.

High-Accuracy Options

The DCDW design are available with high-accuracy 0.15 class ratings. These ratings offer the user the ability to use fewer standard ratios, while, in most cases, improving the accuracy performance of the metering installation. Please see *Ritz Technical Bulletin 103 "Applying 600V High-Accuracy CTs for Revenue Metering Applications"* for more information.

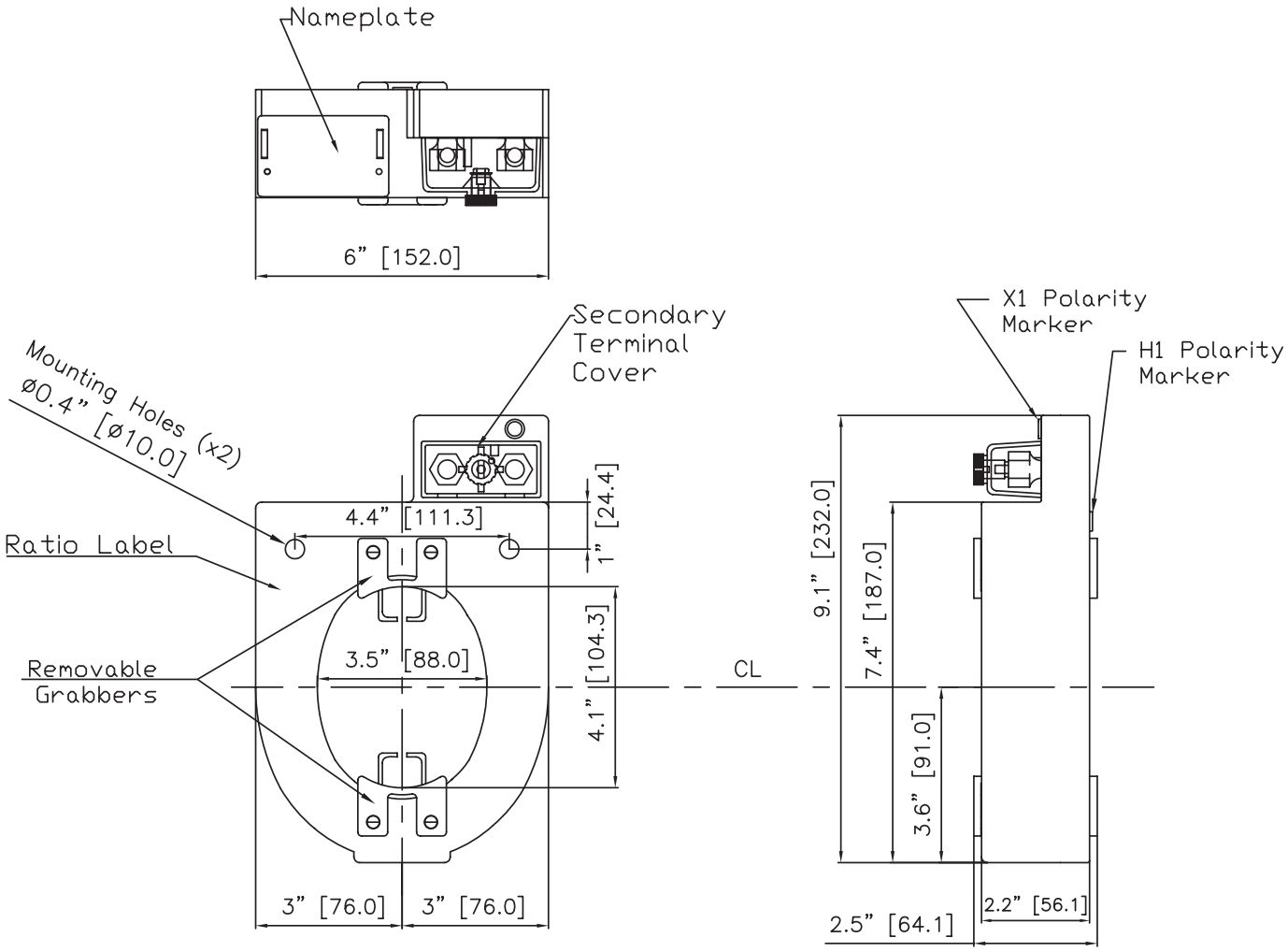
TYPE DCDW								
CURRENT RATIO PRI:SEC AMPERES	CATALOG NUMBERS	CONTINUOUS THERMAL CURRENT RATING FACTOR		IEEE METER ACCURACY CLASS, 60 HZ				
		30° C	55° C	B0.1	B0.2	B0.5	B0.9	B1.8
200:5	110601011.0083	4.0	3.0	0.3	-	-	-	-
300:5	110601011.0084	4.0	3.0	0.3	0.3	-	-	-
400:5	110601011.0085	4.0	3.0	0.3	0.3	-	-	-
500:5	110601011.0243	3.0	2.0	0.3	0.3	0.3	-	-
600:5	110601011.0086	3.0	2.2	0.3	0.3	0.3	-	-
800:5	110601011.0087	3.0	2.2	0.3	0.3	0.3	-	-
1000:5	110601011.0088	2.0	1.5	0.3	0.3	0.3	-	-
1200:5	110601011.0089	2.0	1.5	0.3	0.3	0.3	0.3	-
1500:5	110601011.0090	2.0	1.5	0.3	0.3	0.3	0.3	-
2000:5	110601011.0091	1.5	1.2	0.3	0.3	0.3	0.3	0.3
3000:5	110601011.0092	1.33	1.0	0.3	0.3	0.3	0.3	0.3
4000:5	110601011.0093	1.0	0.75	0.3	0.3	0.3	0.3	0.3

TYPE DCDW-HT							
CURRENT RATIO PRI:SEC AMPERES	CATALOG NUMBERS	CONTINUOUS THERMAL CURRENT RATING FACTOR @ 85°C	IEEE METER ACCURACY CLASS, 60 HZ				
			B0.1	B0.2	B0.5	B0.9	B1.8
200:5	110601011.0095	4.0	0.3	-	-	-	-
300:5	110601011.0096	4.0	0.3	0.3	-	-	-
400:5	110601011.0097	4.0	0.3	0.3	-	-	-
500:5	110601011.0244	3.0	0.3	0.3	0.3	-	-
600:5	110601011.0098	3.0	0.3	0.3	0.3	-	-
800:5	110601011.0099	3.0	0.3	0.3	0.3	-	-
1000:5	110601011.0100	2.0	0.3	0.3	0.3	-	-
1200:5	110601011.0101	2.0	0.3	0.3	0.3	0.3	-
1500:5	110601011.0102	2.0	0.3	0.3	0.3	0.3	-
2000:5	110601011.0103	1.5	0.3	0.3	0.3	0.3	0.3
3000:5	110601011.0104	1.33	0.3	0.3	0.3	0.3	0.3
4000:5	110601011.0105	1.0	0.3	0.3	0.3	0.3	0.3

TYPE DCDW HIGH ACCURACY										
CURRENT RATIO PRI:SEC AMPERES	CATALOG NUMBERS	CONTINUOUS THERMAL CURRENT RATING FACTOR		IEEE METER ACCURACY CLASS, 60 HZ						
		30° C	55° C	B0.1	B0.2	B0.5	B0.9	B1.8	E0.04	E0.2
400:5	110601011.0197	4.0	3.0	0.15	-	-	-	-	-	-
600:5	110601011.0198	3.0	2.0	0.15	0.15	-	-	-	0.15	0.15
800:5	110601011.0199	3.0	2.0	0.15	0.15	-	-	-	0.15	0.15
1000:5	110601011.0200	2.0	1.5	0.15	0.15	0.15	-	-	0.15	0.15
1200:5	110601011.0201	2.0	1.5	0.15	0.15	0.15	-	-	0.15	0.15
1500:5	110601011.0202	2.0	1.5	0.15	0.15	0.15	0.15	-	0.15	0.15
2000:5	110601011.0203	1.5	1.2	0.15	0.15	0.15	0.15	-	0.15	0.15
3000:5	110601011.0204	1.33	0.7	0.15	0.15	0.15	0.15	0.15	0.15	0.15
4000:5	110601011.0205	1.0	0.7	0.15	0.15	0.15	0.15	0.15	0.15	0.15

TYPE DCDW-HT HIGH ACCURACY									
CURRENT RATIO PRI:SEC AMPERES	CATALOG NUMBERS	CONTINUOUS THERMAL CURRENT RATING FACTOR @ 85° C	IEEE METER ACCURACY CLASS, 60 HZ						
			B0.1	B0.2	B0.5	B0.9	B1.8	E0.04	E0.2
400:5	110601011.0245	4.0	0.15	0.15	-	-	-	-	-
600:5	110601011.0246	3.0	0.15	0.15	-	-	-	0.15	0.15
800:5	110601011.0247	3.0	0.15	0.15	-	-	-	0.15	0.15
1000:5	110601011.0248	2.0	0.15	0.15	0.15	-	-	0.15	0.15
1200:5	110601011.0249	2.0	0.15	0.15	0.15	-	-	0.15	0.15
1500:5	110601011.0250	2.0	0.15	0.15	0.15	0.15	-	0.15	0.15
2000:5	110601011.0251	1.5	0.15	0.15	0.15	0.15	-	0.15	0.15
3000:5	110601011.0252	1.33	0.15	0.15	0.15	0.15	0.15	0.15	0.15
4000:5	110601011.0253	1.0	0.15	0.15	0.15	0.15	0.15	0.15	0.15

Voltage Class	600 V
Basic Impulse Level	10 kV
Service Rating	Indoor
Weight	8.25 lbs.



RITZ INSTRUMENT TRANSFORMERS, INC.
25 Hamburg Avenue • Lavonia, GA 30553 USA
706-356-7180 • www.ritzusa.com
e-mail: info@ritzusa.com

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