



Commercial & Metering Class Current Transformers

The CR Magnetics line of Instrumentation Grade Electrical Current Transformers are available in either Commercial or ANSI Metering Class. The commercial class transformers are lower cost and well-suited for current monitoring applications. The ANSI metering class transformers are higher-cost units intended for power monitoring applications where high accuracy and minimum phase angle error are required. Twelve different window openings and eight different mounting styles along with numerous secondary ratios are available to meet most applications. This short form catalog shows an overview of our most popular 5 amp secondary transformers. Contact factory for different sizes or unique electrical requirements.

Applications

- Ammeters
- Energy Management
- Watt/VAR/Watthour Transducers,
- Current Sensing Relays, see pages 14 & 16



Internet Resources <http://www.crmagnetics.com/>

- Application Sheet: pdf/ancrct-2.pdf
- Transformer Selection Guides: transformer.html
cts.html

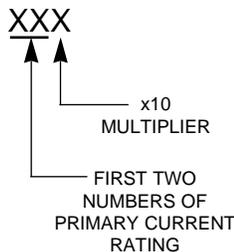
Part Numbers

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MOUNTING STYLES

- RL** Round with leads
- SFT** Square with feet & terminals
- SFL** Square with feet & leads
- SHT** Square without feet & with terminals
- SHL** Square without feet & with leads
- RT** Round with terminals
- RBT** Round with bracket & terminals
- RBL** Round with bracket & leads

SERIES	WINDOW DIAMETER
CR1A	0.64 (16.2)
CR2	1.13 (28.7)
CR2DA	1.00 (35.4)
CR5	1.56 (39.6)
CR5A	1.56 (39.6)
CR6A	2.06 (52.3)
CR7	2.50 (63.5)
CR7A	2.50 (63.5)
CR8	3.25 (72.5)
CR56	2.06 (52.3)
CR76	3.00 (76.2)
CR170	4.25 (107.9)



RL



SFT



SFL



SHT



SHL



RT



RBT



RBL

Specifications

Frequency: 50-400 Hz
 Insulation: .6 kV, BIL 10 kV Full Wave

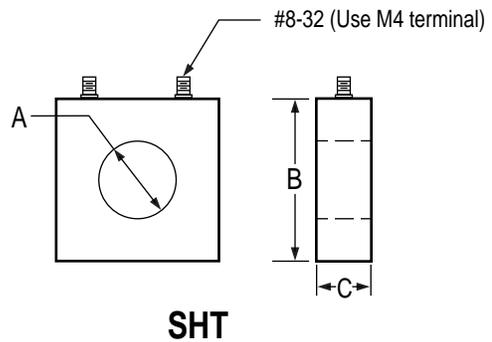
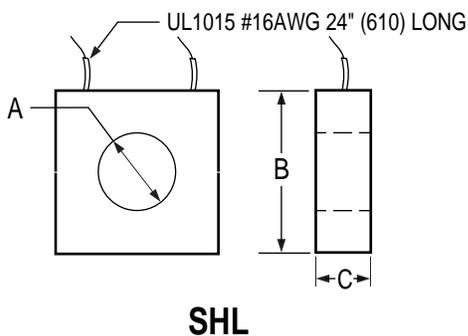
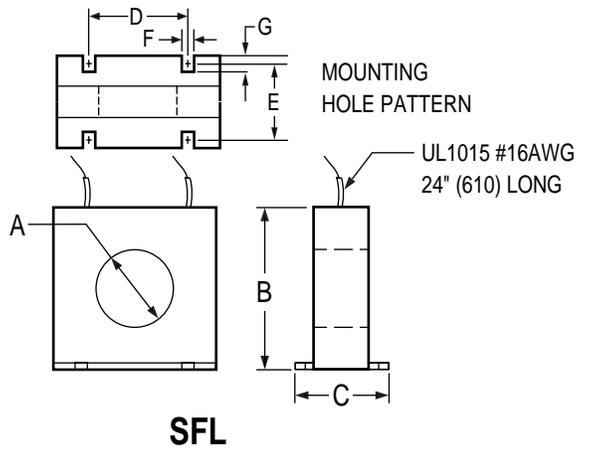
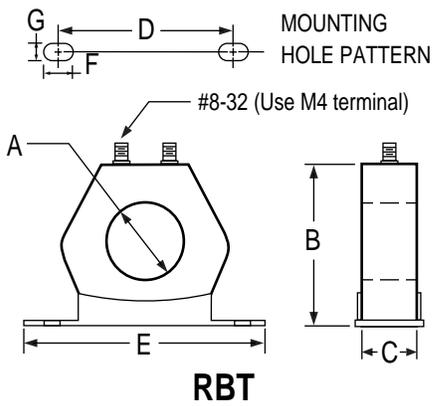
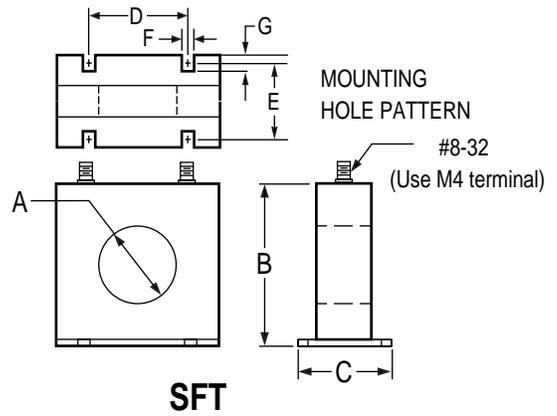
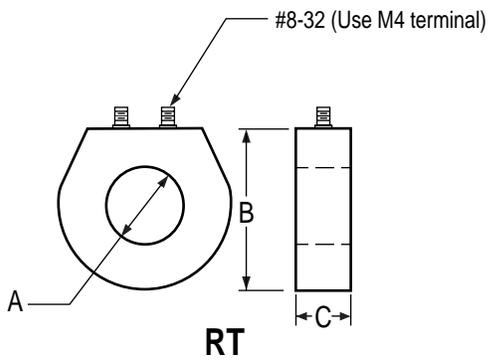
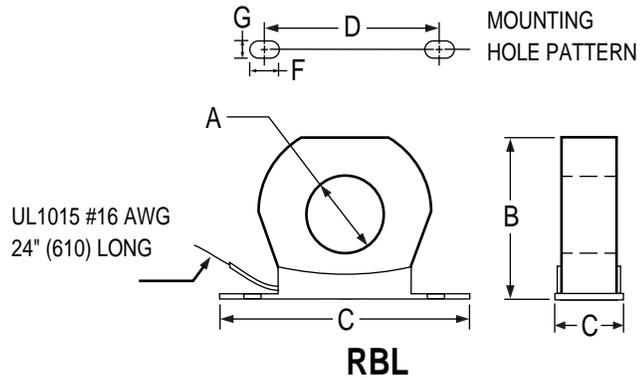
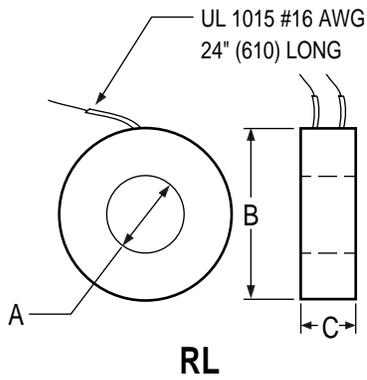
Specials

- Ultra low frequency to 20 Hz
- Water Proof
- High volume, low cost styles
- 1.0, 0.2 & 0.1 AAC secondary ratios available

*Example: 50 AMP primary current rating would read 500, 300 AMP would read 301 and 4000 AMP would read 402.

Commercial & ANSI Metering Class Current Transformers

Outline Drawings



Commercial Class Current Transformers

WINDOW OPENING DIMENSION A	SERIES	MOUNTING STYLE	DIMENSIONS						CURRENT RATIO	ACCURACY AT 60 Hz	BURDEN VA AT 60 Hz								
			B	C	D	E	F	G											
1.13 (28.7)	CR2	RL	2.46 (62.5)	1.05 (26.7)					50:5	±3%	2.0								
		SFT							60:5	±2%	2.0								
		SFL							75:5	±2%	2.0								
		SHT							80:5	±2%	2.0								
		SHL							100:5	±1%	2.0								
									120:5	±1%	2.5								
									125:5	±1%	2.5								
									150:5	±1%	4.0								
									200:5	±1%	4.0								
									250:5	±1%	6.0								
	300:5	±1%	8.0																
1.56 (39.6)	CR5	RL	3.56 (90.4)	1.10 (27.9)					50:5	±2%	1.0								
		SFT							75:5	±2%	1.5								
		SFL							100:5	±2%	2.0								
		SHT							150:5	±1%	5.0								
		SHL							200:5	±1%	5.0								
		RT							250:5	±1%	10.0								
		RBT *							300:5	±1%	12.5								
		RBL *							400:5	±1%	12.5								
									500:5	±1%	20.0								
									600:5	±1%	25.0								
									750:5	±1%	25.0								
									800:5	±1%	25.0								
									1000:5	±1%	25.0								
									1200:5	±1%	30.0								
		2.50 (63.5)							CR7	RL	4.70 (919.4)	1.10 (27.4)					100:5	±2%	2.5
SFT	150:5		±1%	5.0															
SFL	200:5		±1%	5.0															
SHT	250:5		±1%	5.0															
SHL	300:5		±1%	12.0															
RT	400:5		±1%	15.0															
RBT	500:5		±1%	25.0															
RBL	600:5		±1%	30.0															
	750:5		±1%	30.0															
	800:5		±1%	35.0															
	1000:5		±1%	30.0															
	1200:5		±1%	35.0															
	1500:5		±1%	40.0															
	1600:5		±1%	45.0															
2.06 (52.3)	CR56		RL	3.50 (88.9)	1.09 (27.7)												50:5	±3%	0.5
		SFT	75:5						±1%		0.5								
		SFL	100:5						±1%		1.0								
		RT	150:5						±1%		2.5								
		RBT	200:5						±1%		4.0								
		RBL	250:5						±1%		6.0								
			300:5						±1%		7.5								
			400:5						±1%		10.0								
			500:5						±1%		12.5								
			600:5						±1%		15.0								
			750:5						±1%		7.0								
			800:5						±1%		8.0								
			1000:5						±1%		10.0								
			1200:5						±1%		12.5								
		3.00 (76.2)	CR76						RL		4.50 (114.3)	1.09 (27.7)					200:5	±1%	5.0
SFT	250:5			±1%	5.0														
SFL	300:5			±1%	6.0														
RT	400:5			±1%	10.0														
RBT	500:5			±1%	10.0														
RBL	600:5			±1%	10.0														
	750:5			±1%	10.0														
	800:5			±1%	12.5														
	1000:5			±1%	10.0														
	1200:5			±1%	10.0														
	1500:5			±1%	12.5														
	1600:5			±1%	12.5														
	2000:5			±1%	15.0														
.64 (16.3)	CR1A			RL	1.99 (50.5)	1.25 (31.8)											50:5	±2%	1.0
																	60:5	±1%	2.0
			75:5	±1%							2.0								
			80:5	±1%							2.0								
			100:5	±1%							2.5								
			120:5	±1%							3.0								
			125:5	±1%							3.0								
			150:5	±1%							4.0								
			200:5	±1%							5.0								
			250:5	±1%							7.5								

* RBT and RBL mounting styles in the CR5 series are not available in current ratios of 750:5 thru 1200:5

ANSI Metering Class Current Transformers

WINDOW OPENING DIMENSION A	SERIES	MOUNTING STYLE	DIMENSIONS						CURRENT RATIO	ANSI METERING CLASS @ 60 Hz				
			B	C	D	E	F	G		B0.1	B0.2	B0.5	B0.9	B1.8
			1.0 (25.4)	CR2DA	RL	2.47 (62.7)	1.75 (44.5)						50:5	2.4
60:5	2.4	-							-				-	-
75:5	2.4	2.4							-				-	-
80:5	1.2	2.4							-				-	-
100:5	1.2	1.2							-				-	-
120:5	1.2	1.2							-				-	-
125:5	0.6	1.2							-				-	-
150:5	0.6	1.2							2.4				-	-
200:5	0.3	0.6							1.2				-	-
250:5	0.3	0.6							1.2				-	-
300:5	0.3	0.3	0.6	1.2	-									
1.56 (39.6)	CR5A	RL SFT SFL SHT SHL	3.56 (90.4)	1.10 (27.9)					100:5	1.2	-	-	-	-
									150:5	1.2	1.2	-	-	-
									200:5	0.6	0.6	-	-	-
									250:5	0.6	0.6	1.2	-	-
									300:5	0.3	0.3	1.2	-	-
									400:5	0.3	0.3	0.6	1.2	-
									500:5	0.3	0.3	0.6	1.2	-
									600:5	0.3	0.3	0.6	0.6	1.2
									750:5	0.3	0.3	0.6	0.6	-
									800:5	0.3	0.3	0.6	0.6	-
1000:5	0.3	0.3	0.3	0.6	-									
1200:5	0.3	0.3	0.3	0.3	0.6									
2.06 (52.3)	CR6A	RL SFT SFL SHT SHL	4.08 (103.6)	1.10 (27.9)					100:5	2.4	-	-	-	-
									150:5	1.2	1.2	-	-	-
									200:5	0.6	1.2	-	-	-
									250:5	0.3	0.6	2.4	-	-
									300:5	0.3	0.6	1.2	2.4	-
									400:5	0.3	0.3	0.6	1.2	-
									500:5	0.3	0.3	0.6	1.2	-
									600:5	0.3	0.3	0.6	0.6	1.2
									750:5	0.3	0.3	0.6	0.6	-
									800:5	0.3	0.3	0.6	0.6	-
1000:5	0.3	0.3	0.3	0.6	-									
1200:5	0.3	0.3	0.3	0.3	0.6									
1500:5	0.3	0.3	0.3	0.3	0.6									
2.50 (63.5)	CR7A	RL SFT SFL SHT SHL	4.70 (119.4)	1.10 (27.9)					100:5	2.4	-	-	-	-
									150:5	1.2	2.4	-	-	-
									200:5	0.6	1.2	-	-	-
									250:5	0.6	1.2	1.2	-	-
									300:5	0.6	0.6	1.2	2.4	-
									400:5	0.3	0.3	0.6	1.2	-
									500:5	0.3	0.3	0.6	1.2	-
									600:5	0.3	0.3	0.6	0.6	1.2
									750:5	0.3	0.3	0.6	0.6	1.2
									800:5	0.3	0.3	0.6	0.6	1.2
1000:5	0.3	0.3	0.3	0.6	1.2									
1200:5	0.3	0.3	0.3	0.3	0.6									
1500:5	0.3	0.3	0.3	0.3	0.6									
1600:5	0.3	0.3	0.3	0.3	0.6									

ANSI Metering Class Current Transformers

WINDOW OPENING DIMENSION A	SERIES	MOUNTING STYLE	DIMENSIONS						CURRENT RATIO	ANSI METERING CLASS @ 60 Hz				
			B	C	D	E	F	G		B0.1	B0.2	B0.5	B0.9	B1.8
3.25 (82.6)	CR8	RL SHT SHL	5.73 (145.5)	1.15 (29.2)					200:5	1.2	1.2	-	-	-
									250:5	0.6	1.2	2.4	-	-
									300:5	0.6	0.6	1.2	2.4	-
									400:5	0.3	0.6	1.2	1.2	-
									500:5	0.3	0.3	0.6	1.2	2.4
									600:5	0.3	0.3	0.6	1.2	1.2
									750:5	0.3	0.3	0.3	0.6	1.2
									800:5	0.3	0.3	0.3	0.6	1.2
									1000:5	0.3	0.3	0.3	0.6	0.6
									1200:5	0.3	0.3	0.3	0.6	0.6
									1500:5	0.3	0.3	0.3	0.6	0.6
									1600:5	0.3	0.3	0.3	0.6	0.6
									2000:5	0.3	0.3	0.3	0.3	0.3
									2500:5	0.3	0.3	0.3	0.3	-
									3000:5	0.3	0.3	0.3	0.3	-
3200:5	0.3	0.3	0.3	0.3	-									
4000:5	0.3	0.3	0.3	0.3	-									
4.25 (108)	CR170	RL SHT SHL	6.73 (170.9)	1.25 (31.8)					200:5	1.2	1.2	-	-	-
									250:5	1.2	1.2	-	-	-
									300:5	0.6	0.6	1.2	2.4	-
									400:5	0.6	0.6	1.2	1.2	2.4
									500:5	0.3	0.3	0.6	1.2	2.4
									600:5	0.3	0.3	0.6	0.6	1.2
									750:5	0.3	0.3	0.3	0.3	0.6
									800:5	0.3	0.3	0.3	0.3	0.6
									1000:5	0.3	0.3	0.3	0.3	0.6
									1200:5	0.3	0.3	0.3	0.3	0.6
									1500:5	0.3	0.3	0.3	0.6	0.6
									1600:5	0.3	0.3	0.3	0.6	0.6
									2000:5	0.3	0.3	0.3	0.3	0.3
									2500:5	0.3	0.3	0.3	0.3	0.3
									3000:5	0.3	0.3	0.3	0.3	0.3
3500:5	0.3	0.3	0.3	0.3	0.3									
4000:5	0.3	0.3	0.3	0.3	0.3									