

Commercial & Metering Class Current Transformers

Current Transformers

F



RL



SFT



SFL



SHT



SHL



RT



RBT



RBL

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 Measurement
Watt/VAR/Watthour Measurement
Current Sensing Relays

Features

Low Cost
Core Secured via Epoxy Resin
Hand Tuned Accuracy
Common Ratios in Stock

Regulatory Agencies



BASIC SPECIFICATIONS

Basic Accuracy	10% FS or Better (ANSI)
Thermal Drift	100 PPM/°C
Operating Temperature	-20° C to +75° C
Installation Category	CAT II
Pollution Degree	2
Insulation Voltage	3500 Vac/1min
Frequency Range	50Hz - 400Hz
Torque Spec on Studs	10 in/lb.

CUSTOM OPTIONS

Ultra-Low Frequency to 20 Hz

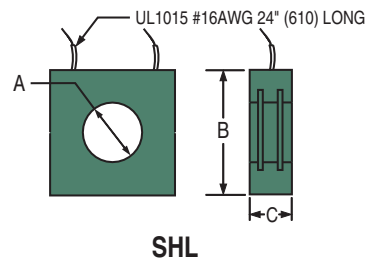
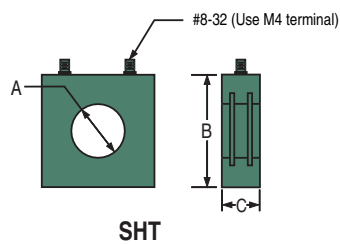
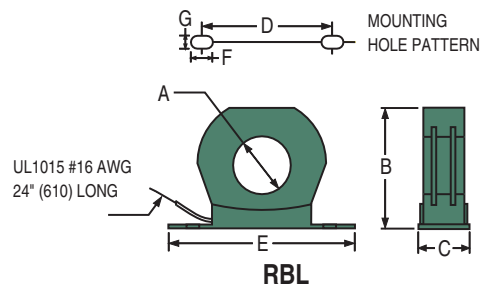
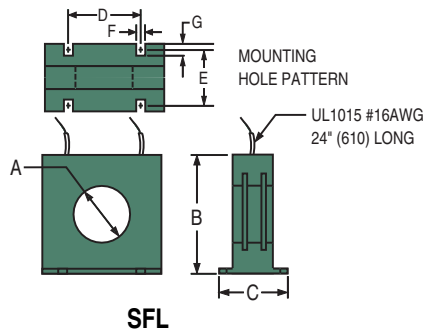
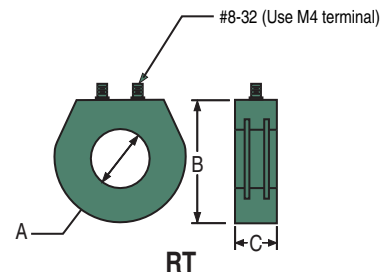
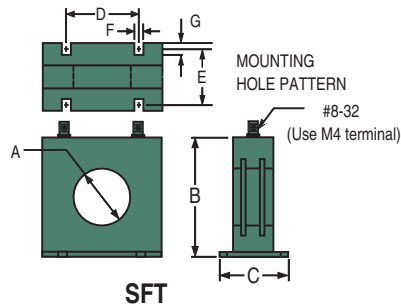
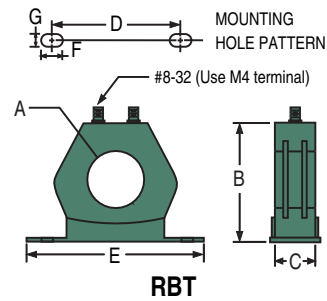
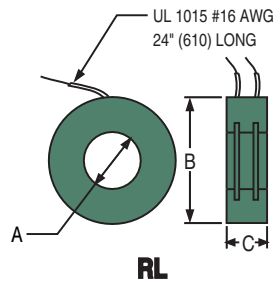
1.0, 0.2, and 0.1 Amp Secondary Ratios

Commercial & ANSI Metering Class Current Transformers

DIMENSIONS

Current Transformers

F



Commercial Class Current Transformers

Current Transformers

F

PART NUMBERS			DIMENSIONS							ACCURACY SPECIFICATIONS		
SERIES	STYLE	RATIO SUFFIX	A	B	C	D	E	F	G	CURRENT RATIO	ACCURACY AT 60HZ	BURDEN VA AT 60 HZ
CR2	RL	500	1.13 (28.7)	2.46 (62.5)	1.05 (26.7)					50:5	± 3%	2.0
		600								60:5	± 2%	2.0
		750								75:5	± 2%	2.0
	SFT	800		2.68 (68.1)	2.00 (50.8)	1.75 (44.5)	1.75 (44.5)	.27 (6.9)	.31 (7.9)	80:5	± 2%	2.0
		101		2.68 (68.1)	2.00 (50.8)	1.75 (44.5)	1.75 (44.5)	.27 (6.9)	.31 (7.9)	100:5	± 1%	2.0
		121								120:5	± 1%	2.5
	1250	125:5								± 1%	2.5	
	SHT	151		2.71 (68.8)	0.95 (24.1)					150:5	± 1%	4.0
		201		200:5	± 1%					4.0		
	SHL	251		2.71 (68.8)	0.95 (24.1)	250:5	± 1%	6.0				
		301		300:5	± 1%	8.0						
CR5	RL	500	1.56 (39.6)	3.56 (90.4)	1.10 (27.9)					50:5	± 2%	1.0
		750		75:5	± 2%					1.5		
		101		100:5	± 2%					2.0		
	SFT	151		3.78 (96.0)	2.15 (54.6)	2.75 (69.9)	1.77 (45.0)	.21 (5.3)	.31 (7.9)	150:5	± 1%	5.0
		201		3.78 (96.0)	2.15 (54.6)	2.75 (69.9)	1.77 (45.0)	.21 (5.3)	.31 (7.9)	200:5	± 1%	5.0
		251		3.83 (97.3)	1.09 (27.7)	250:5	± 1%	10.0				
	SFL	301		3.83 (97.3)	1.09 (27.7)	300:5	± 1%	12.5				
		401		400:5	± 1%	12.5						
		501		500:5	± 1%	20.0						
	SHT	601		3.62 (91.9)	1.13 (28.7)	600:5	± 1%	25.0				
		751		750:5	± 1%	25.0						
		RBT*		801	3.90 (99.1)	1.25 (31.8)	3.88 (98.6)	4.50 (114.3)	.44 (11.2)	.27 (6.9)	800:5	± 1%
	102			1000:5	± 1%	25.0						
	RBL*			122	3.70 (94.0)	1.25 (31.8)	3.88 (98.6)	4.50 (114.3)	.44 (11.2)	.27 (6.9)	1200:5	± 1%
		CR7		RL	101	2.50 (63.5)	4.70 (119.4)	1.10 (27.4)				
151	150:5		± 1%		5.0							
SFT	201		4.85 (123.2)	2.13 (54.1)	3.78 (96.0)		1.75 (44.5)	.25 (6.4)	.31 (7.9)	200:5	± 1%	5.0
	251		4.85 (123.2)	2.13 (54.1)	3.78 (96.0)		1.75 (44.5)	.25 (6.4)	.31 (7.9)	250:5	± 1%	5.0
	301									300:5	± 1%	12
SHT	401									4.70 (119.4)	1.10 (27.9)	400:5
	501		500:5	± 1%	25							
	SHL		601	4.70 (119.4)	1.10 (27.9)		600:5	± 1%	30			
751			750:5	± 1%	30							
RT			801	4.61 (117.1)	1.10 (27.9)		800:5	± 1%	35			
	102		4.94 (125.5)	1.25 (31.8)	5.75 (146.1)		6.5 (7.1)	.28 (16.5)	.28 (7.1)	1000:5	± 1%	30
	122									1200:5	± 1%	35
RBT	152									4.70 (125.5)	1.25 (31.8)	5.75 (146.1)
	162		1600:5	± 1%	40							

Commercial Class Current Transformers

Current Transformers

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PART NUMBERS			DIMENSIONS							ACCURACY SPECIFICATIONS		
SERIES	STYLE	RATIO SUFFIX	A	B	C	D	E	F	G	CURRENT RATIO	ACCURACY AT 60HZ	BURDEN VA AT 60 HZ
CR56	RL	500	2.06 (52.3)	3.50 (88.9)	1.09 (27.7)	2.70 (68.6)	1.70 (43.2)	.21 (5.3)	.31 (7.9)	50:5	± 3%	2.0
		750								75:5	± 1%	0.5
	SFT	101								100:5	± 1%	1.0
		151		3.63 (92.2)	2.15 (54.6)	2.70 (68.6)	1.70 (43.2)	.21 (5.3)	.31 (7.9)	150:5	± 1%	2.5
		201								200:5	± 1%	4.0
	SFL	251		3.63 (92.2)	2.15 (54.6)					250:5	± 1%	6.0
		301								300:5	± 1%	7.5
	RT	401		3.62 (91.9)	1.10 (27.9)					400:5	± 1%	10.0
		501								500:5	± 1%	12.5
		601								600:5	± 1%	15.0
	RBT	751		3.90 (99.1)	1.25 (31.8)	3.88 (98.6)	4.50 (114.3)	.27 (6.9)	.44 (11.2)	750:5	± 1%	7.0
		801								800:5	± 1%	8.0
	RBL	102		3.70 (94.0)	1.25 (31.8)	3.88 (98.6)	4.50 (114.3)	.27 (6.9)	.44 (11.2)	1000:5	± 1%	10.0
		122								1200:5	± 1%	12.5
CR76	RL	201	3.00 (76.2)	4.50 (114.3)	1.09 (27.7)					200:5	± 1%	5.0
		251								250:5	± 1%	5.0
	SFT	301		4.68 (128.9)	2.08 (52.8)	3.70 (44.0)	1.75 (44.5)	.25 (6.4)	.31 (7.9)	300:5	± 1%	6.0
		401								400:5	± 1%	10.0
		501								500:5	± 1%	10.0
	SFL	601		4.68 (118.9)	2.08 (52.8)	3.70 (44.0)	1.75 (44.5)	.25 (6.4)	.31 (7.9)	600:5	± 1%	10.0
		751								750:5	± 1%	10.0
	RT	801		4.62 (117.3)	1.10 (27.9)					800:5	± 1%	12.5
		102								1000:5	± 1%	10.0
		122								1200:5	± 1%	10.0
	RBT	152		4.94 (125.5)	1.25 (31.8)	5.75 (146.1)	6.50 (165.1)	.28 (7.1)	.28 (7.1)	1500:5	± 1%	12.5
		162								1600:5	± 1%	12.5
	RBL	202		4.70 (119.4)	1.25 (31.8)	5.75 (146.1)	6.50 (165.1)	.28 (7.1)	.28 (7.1)	2000:5	± 1%	15.0
CR1A	RL	500	.64 (16.3)							50:5	± 2%	1.0
		600								60:5	± 1%	2.0
		750								75:5	± 1%	2.0
		800								80:5	± 1%	2.0
		101								100:5	± 1%	2.5
		121								120:5	± 1%	3.0
		1250								125:5	± 1%	3.0
		151								150:5	± 1%	4.0
		201								200:5	± 1%	5.0
		251								250:5	± 1%	7.5

ANSI Metering Class Current Transformers

Current Transformers

F

PART NUMBERS			DIMENSIONS							ANSI METERING CLASS @ 60 HZ													
SERIES	STYLE	RATIO SUFFIX	A	B	C	D	E	F	G	CURRENT RATIO	B0.1	B0.2	B0.5	B0.9	B1.8								
CR2DA	RL	500	1.0 (25.4)	2.47 (62.7)	1.75 (44.5)					50:5	4.8	-	-	-	-								
		600								60:5	1.2	4.8	-	-	-								
		750								75:5	1.2	2.4	-	-	-								
		800								80:5	1.2	2.4	4.8	-	-								
		101								100:5	1.2	2.4	4.8	-	-								
		121								120:5	1.2	2.4	2.4	4.8	-								
		1250								125:5	0.6	1.2	2.4	4.8	-								
		151								150:5	0.6	0.6	1.2	2.4	4.8								
		201								200:5	0.3	0.3	1.2	1.2	2.4								
		251								250:5	0.3	0.3	0.6	1.2	2.4								
		301								300:5	0.3	0.3	0.6	0.6	1.2								
		CR5A								RL	500	1.56 (39.6)	3.56 (90.4)	1.10 (27.9)					50:5	4.8	-	-	-
101	100:5		2.4	4.8	-	-	-																
151	150:5		0.6	1.2	2.4	4.8	-																
SFT	201		3.77 (95.8)	2.15 (54.6)					200:5	0.6	0.6		1.2	2.4					4.8				
	251								250:5	0.6	0.6		1.2	2.4					2.4				
	301								300:5	0.3	0.3		0.6	1.2					2.4				
SFL	401		3.77 (95.4)	2.15 (54.6)	2.75 (69.9)	1.77 (45.0)	.21 (5.3)	.31 (7.9)	400:5	0.3	0.3		0.6	1.2					1.2				
	501								500:5	0.3	0.3		0.6	0.6					1.2				
SHT	601		3.70 (94.0)	1.10 (27.9)	2.75 (69.9)	1.77 (45.0)	.21 (5.3)	.31 (7.9)	600:5	0.3	0.3		0.3	0.6					1.2				
	751								750:5	0.3	0.3		0.3	0.6					0.6				
	801								800:5	0.3	0.3		0.3	0.6					0.6				
SHL	102		3.70 (94.0)	1.10 (27.9)					1000:5	0.3	0.3		0.3	0.3					0.6				
	122								1200:5	0.3	0.3		0.3	0.3					0.3				
CR6A	RL	101	2.06 (52.3)	4.08 (103.6)	1.10 (27.9)					100:5	1.2	2.4	-	-	-								
		151								150:5	1.2	1.2	2.4	4.8	-								
		201								200:5	0.6	1.2	2.4	2.4	4.8								
	SFT	251		4.21 (106.9)	2.12 (54.6)					250:5	0.3	0.6	1.2	2.4	4.8								
		301								300:5	0.3	0.3	1.2	2.4	2.4								
		401								400:5	0.3	0.3	0.6	1.2	1.2								
	SFL	501		4.21 (106.9)	2.12 (54.6)					3.34 (84.8)	1.75 (44.5)	.25 (6.4)	.31 (7.9)	500:5	0.3	0.3	0.6	1.2	1.2				
		601												600:5	0.3	0.3	0.6	0.6	1.2				
		751												750:5	0.3	0.3	0.3	0.6	1.2				
	SHT	801		4.22 (107.2)	1.10 (27.9)									800:5	0.3	0.3	0.3	0.6	0.6				
		102												1000:5	0.3	0.3	0.3	0.3	0.6				
		122												1200:5	0.3	0.3	0.3	0.3	0.3				
	SHL	152		4.22 (107.2)	1.10 (27.9)									1500:5	0.3	0.3	0.3	0.3	0.3				

ANSI Metering Class Current Transformers

Current Transformers

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PART NUMBERS			DIMENSIONS							ANSI METERING CLASS @ 60 HZ									
SERIES	STYLE	RATIO SUFFIX	A	B	C	D	E	F	G	CURRENT RATIO	B0.1	B0.2	B0.5	B0.9	B1.8				
CR7A	RL	101	2.50 (63.5)	4.70 (119.4)	1.10 (27.9)					100:5	1.2	4.8	-	-	-				
		151		150:5	0.6					1.2	4.8	4.8	-						
		201		200:5	0.6					1.2	2.4	4.8	4.8						
	SFT	251		4.85 (123.2)	2.13 (54.1)					3.78 (96.0)	1.75 (44.5)	.25 (6.4)	.31 (7.9)	250:5	0.3	0.6	1.2	2.4	4.8
		301		300:5	0.3					0.3	1.2	2.4	2.4						
		401		400:5	0.3					0.3	0.6	1.2	2.4						
	SFL	501		4.85 (123.2)	2.13 (54.1)					3.78 (96.0)	1.75 (44.5)	.25 (6.4)	.31 (7.9)	500:5	0.3	0.3	0.6	1.2	1.2
		601		600:5	0.3					0.3	0.6	0.6	1.2						
		751		750:5	0.3					0.3	0.6	0.6	0.6						
	SHT	801		4.70 (119.4)	1.10 (27.9)					800:5	0.3	0.3	0.3	0.6	0.6				
		102		1000:5	0.3					0.3	0.3	0.6	0.6						
		122		1200:5	0.3					0.3	0.3	0.3	0.6						
	SHL	152		4.70 (119.4)	1.10 (27.9)					1500:5	0.3	0.3	0.3	0.3	0.3				
		162		1600:5	0.3					0.3	0.3	0.3	0.3						
CR8	RL	201	3.25 (82.6)	5.73 (145.5)	1.15 (29.2)					200:5	1.2	1.2	2.4	4.8	4.8				
		251		250:5	0.6					0.6	1.2	2.4	4.8						
		301		300:5	0.6					0.6	1.2	2.4	2.4						
		401		400:5	0.3					0.3	0.6	1.2	2.4						
		501		500:5	0.3					0.3	0.6	0.6	1.2						
		601		600:5	0.3					0.3	0.6	0.6	1.2						
		751		750:5	0.3					0.3	0.3	0.6	1.2						
		801		800:5	0.3					0.3	0.3	0.6	0.6						
	SHT	102		5.73 (145.5)	1.15 (29.2)					1000:5	0.3	0.3	0.3	0.3	0.6				
		122		1200:5	0.3					0.3	0.3	0.3	0.3						
		152		1500:5	0.3					0.3	0.3	0.3	0.3						
		162		1600:5	0.3					0.3	0.3	0.3	0.3						
		202		2000:5	0.3					0.3	0.3	0.3	0.3						
		252		2500:5	0.3					0.3	0.3	0.3	0.3						
		302		3000:5	0.3					0.3	0.3	0.3	0.3						
		322		3200:5	0.3					0.3	0.3	0.3	0.3						
	SHL	402		5.73 (145.5)	1.15 (29.2)					4000:5	0.3	0.3	0.3	0.3	0.3				
CR170	RL	201	4.25 (108)	6.73 (170.9)	1.25 (31.8)					200:5	0.6	1.2	2.4	-	-				
		251		250:5	0.6					0.6	1.2	2.4	-						
		301		300:5	0.6					0.6	1.2	2.4	-						
		401		400:5	0.3					0.3	0.6	1.2	2.4						
		501		500:5	0.3					0.3	0.6	1.2	1.2						
		601		600:5	0.3					0.3	0.6	0.6	1.2						
		751		750:5	0.3					0.3	0.3	0.3	0.6						
		801		800:5	0.3					0.3	0.3	0.3	0.6						
	SHT	102		6.73 (170.9)	1.28 (32.5)					1000:5	0.3	0.3	0.3	0.3	0.6				
		122		1200:5	0.3					0.3	0.3	0.3	0.6						
		152		1500:5	0.3					0.3	0.3	0.3	0.6						
		162		1600:5	0.3					0.3	0.3	0.3	0.6						
		202		2000:5	0.3					0.3	0.3	0.3	0.3						
		252		2500:5	0.3					0.3	0.3	0.3	0.3						
		302		3000:5	0.3					0.3	0.3	0.3	0.3						
		322		3200:5	0.3					0.3	0.3	0.3	0.3						
	SHL	402		6.73 (170.9)	1.28 (32.5)					4000:5	0.3	0.3	0.3	0.3	0.3				