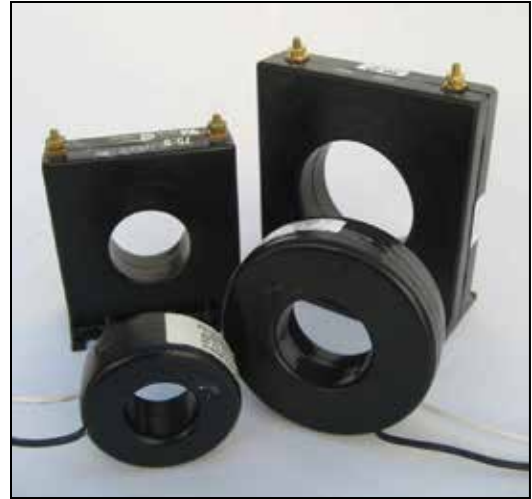


CURRENT TRANSFORMERS

5 A Secondary

5 A Secondary Current Transformers offer a compact, cost-effective means of measuring primary current and providing 0–5 A secondary output proportional to the primary current being sensed. Available in solid-core or split-core enclosures.



Current Transformer Applications

- Serves as current input for use with APT and APN Series KW transducers.
- Save space in control panels by remotely locating CTs closer to load.
- 5 A secondary compatible with standard products offering a 5 A analog input option.
- Broad line accommodates primary currents from 50 A to 3000 A.

Current Transformer Features

- Solid-core enclosures; choice of round package with flying leads or integral feet for panel mount with terminals.
- Optional split-core enclosures for easy installation without disconnecting wiring.
- Aperture diameters from 1 1/8" to 3 1/4".
- Maximum window size 2.5".
- Agency approved.

Current Transformer Specifications

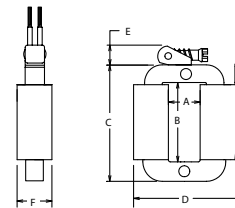
Power Supply	Self-powered
Current Ranges	See Ranges/VA Burdens
Output Signal	0–5 A (AC)
Frequency	50–400 Hz
Insulation Class	0.6 KV BIL, 10 KV full wave
Accuracy	ANSI rated, (<2.0%)
Allowable Burden	See Ranges/VA Burdens
Rating Factor	2.0 @ 30°C amb.

Current Transformer Dimensions

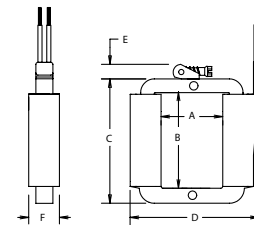
Series	Aperture Size
2	1.13" (28.7 mm)
5	1.56" (39.6 mm)
7	2.50" (63.5 mm)

Series	Aperture Size
1SP	0.84"x 2.00"
3SP	2.19"x 3.25"
5SP	2.88"x 4.25"
7SP	2.88"x 6.25"

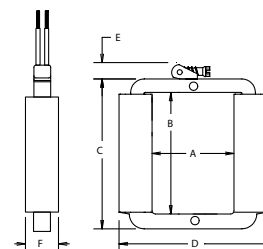
1SP



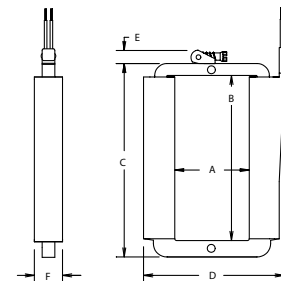
3SP



5SP



7SP



Current Transformer Ranges/VA Burdens

Model	CT Ratio:5	Solid-core Series			Split-core Series			
		2	5	7	1SP	3SP	5SP	7SP
500	50	1	0.75	0.5				
750	75	2	1.25	1				
101	100	2.5	2.25	2	1			
151	150	4	5	2.5				
201	200	5	5	5	1.5	1		
251	250	7.5	12.5	5				
301	300	10	12.5	5	2	1		
401	400		12.5	12.5	5	2		
501	500		25	15		3	2	
601	600		25	25		5	3	
801	800		30	35			10	5
102	1000		35	35		20	15	10
122	1200		40	40			25	15
152	1500			50			35	20
162	1600			50				
202	2000						50	40
252	2500							50
302	3000							50

Allowable Burden Expressed as ¹		Allowable Lead Length in Feet For Copper AWG Wire ²					
VA	Ohm ³	18	16	14	12	10	8
1	0.04	4.7	7.6	12.3	19.5	31.0	49.4
1.5	0.06	7.1	11.3	18.4	29.3	46.5	74.2
2	0.08	9.5	15.1	24.5	39.0	62.0	98.9
3	0.12	14.2	22.7	36.8	58.5	93.0	148.3
4	0.16	18.9	30.2	49.1	78.0	124.0	197.8
5	0.20	23.7	37.8	61.3	97.6	155.0	247.2
6	0.24	28.4	45.4	73.6	117.1	186.0	296.7
7	0.28	33.1	52.9	85.9	136.6	217.1	346.1
8	0.32	37.9	60.5	98.2	156.1	248.1	395.6
9	0.36	42.6	68.1	110.4	175.6	279.1	445.0
10	0.40	47.3	75.6	122.7	195.1	310.1	494.4
12	0.48	56.8	90.7	147.2	234.1	372.1	593.3
14	0.56	66.3	105.9	171.8	273.2	434.1	692.2
16	0.64	75.7	121.0	196.3	312.2	496.1	791.1
18	0.72	85.2	136.1	220.9	351.2	558.1	890.0
20	0.80	94.7	151.2	245.4	390.2	620.2	988.9
25	1.00	118.3	189.0	306.7	487.8	775.2	1236.1
30	1.20	142.0	226.8	368.1	585.4	930.2	1483.3
35	1.40	165.7	264.7	429.4	682.9	1085.3	1730.5
40	1.60	189.3	302.5	490.8	780.5	1240.3	1977.8
45	1.80	213.0	340.3	552.1	878.0	1395.3	2225.0
50	2.00	236.7	378.1	613.5	975.6	1550.4	2472.2

Notes:

1. See table for Allowable Burden. Add any other resistance such as terminations, etc.
2. Lead length is the TOTAL wire run (out and back). Divide by two to get the lead distance.
3. Resistance for 5 A output CTs.

Current Transformer Ordering Information

Solid-core CTs:

Sample Model Number: 2RL-501-NK



(1) Series

2, 5, or 7

(2) Case

RL	Round Doughnut
SFT	Square, Integral Mounting Feet

(3) Model

XXX	See Ranges/VA Burdens
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Split-core CTs:

Sample Model Number: 7SP-600-00-L24-NK



(1) Series

1SP	100-400 A
3SP	200-1200 A
5SP	300-2000 A
7SP	600-3000 A

(2) CT Ratio

XXXX	See Ranges/VA Burdens
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(3) Output

00	5 A secondary
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(4) Lead Type

L36	36" Lead Wires
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Free program expedites evaluation process. See page 1 for details

