AC Series • Current Transformer Quick Reference Guide

Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

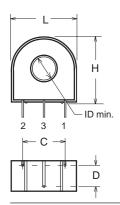
- Excellent quality at extremely competetive price due to high volume production
- Manufactured in an ISO-9001 approved Talema facility



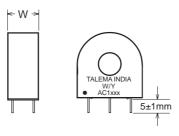
Electrical Specifications @ 20°C ambient

	AC Series • Standard Accuracy Current Transformers																		
Part No.	I _P	•	Resistor		-	DCR (Ohms)	RCF	Volts/Amp @ rated I _P for various loads (Ohms)			lex	Vex Net Weigh	Net Weight	Case Dimensions - mm					
	Amps	Ratio	Ohms	Watt	Nominal	@ 10%	100	500	2K	5K	μArms	Vrms	(grams)	L	ID	Н	W	С	D
AC1005	5	1000:1	100	0.0025	41.80	1.010	0.10	0.46	1.43	2.01	237	0.66	16.3	23.80	9.50	23.80	11.12	15.24	7.62
AC1010	10	1000:1	100	0.0100	41.80	1.010	0.10	0.45	1.10	1.42	386	1.32	16.3	23.80	9.50	23.80	11.12	15.24	7.62
AC1015	15	1000:1	100	0.0230	41.80	1.010	0.10	0.45	0.90	1.12	513	1.99	16.3	23.80	9.50	23.80	11.12	15.24	7.62
AC1020	20	1000:1	100	0.0400	41.80	1.010	0.10	0.43	0.76	0.93	628	2.65	16.3	23.80	9.50	23.80	11.12	15.24	7.62
AC1025	25	1000:1	100	0.0630	48.00	10.20	0.10	0.47	1.06	1.31	566	3.65	35.5	30.20	11.40	30.20	14.30	20.32	10.16
AC1030	30	1000:1	100	0.0900	48.00	1.020	0.10	0.47	0.95	1.16	644	4.38	35.5	30.20	11.40	30.20	14.30	20.32	10.16
AC1040	40	1000:1	100	0.1600	49.3	1.026	0.10	0.46	0.87	1.05	914	5.82	47.3	34.90	14.60	34.90	14.30	25.40	10.16
AC1050	50	1000:1	100	0.2500	49.3	1.026	0.10	0.43	0.76	0.90	1090	7.28	47.3	34.90	14.60	34.90	14.30	25.40	10.16
AC1060	60	1000:1	100	0.3600	24.00	1.001	0.10	0.44	0.66	0.76	1250	7.41	65.2	38.10	14.60	38.10	15.90	33.00	10.16
AC1075	75	1000:1	100	0.5700	24.00	1.001	0.10	0.39	0.57	0.65	1520	9.26	65.2	38.10	14.60	38.10	15.90	33.00	10.16
AC1100	100	1000:1	100	1.0000	21.30	1.001	0.10	0.34	0.50	0.56	1740	12.00	80.0	44.50	19.05	44.50	14.30	35.56	10.16
AC1150	150	1000:1	100	2.2500	11.00	1.002	0.10	0.37	0.50	0.55	1820	16.60	150.0	55.60	23.80	55.60	20.60	45.72	12.70
AC1200	200	1000:1	100	4.0000	11.00	1.002	0.10	0.31	0.41	0.45	2340	22.20	150.0	55.60	23.80	55.60	20.60	45.72	12.70

I_P: Primary Current R: Terminating Resistor



Dimensions

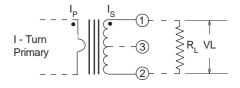


Terminal Diameter: AC1005 - AC1020 - Ø 0.813 AC1025 - AC1200 - Ø 1.016

RCF: Ratio correction factor - Multiply current readings by this factor to compensate for transformer losses.

Notes:

- 1) Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs
- Each part number adjusted to be most accurate at specified load.



Design and Manufacturing Facilities

http://www.talema-nuvotem.com

Eastern Europe & Czech Republic

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TALEMA ELEKTRONIK GMBH Riesstr. 8, Postfach 2523 82110 Germering Tel: Int. + 49 89 - 841 00 - 0 Fax: Int. + 49 89 - 841 00 25 Email: info@talema.isar.de

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India

TALEMA ELECTRONIC PVT. LTD. Opposite the SIDCO Industrial Estate Gins Towers 4/5S.H/1, Omalur Main Road

Salem - 636 004, Tamil Nadu Tel: Int. + 91 427 - 244 1325 Fax: Int. + 91 427 - 243 0034 E-mail: talema@talemaindia.com

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AC1005 • 5 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

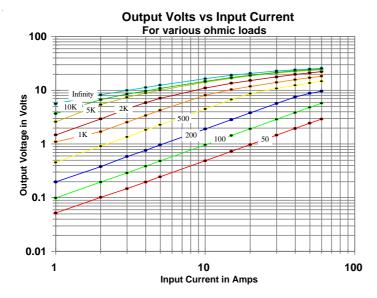
Applications

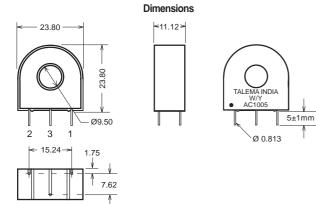
- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

Electrical Specifications @ 20°C ambient

Electrical Specifications				
Primary Current	5A nom., 60A max.			
Turns Ratio	1000:1 nominal			
Volt per Amp Ratio at 5A for 100 ohm load	0.100 V/A			
Volt per Amp Ratio at 0.5A for 100 ohm load	0.096 V/A			
DC Resistance at 20°C	41.8 ohms			
Dielectric Withstanding Voltage (Hi-pot)	4KVrms			

Mechanical Specifications			
Case	Polycarbonate		
Encapsulant	Ероху		
Flammibility	Conforms to UL94-VO		
Terminals	Pins Ø 0.80mm		
Marking	TALEMA Date Code (W/Y) AC1005, Dot at start pin		
Approximate Weight	16.3 grams		
Tolerance	±0.2mm		

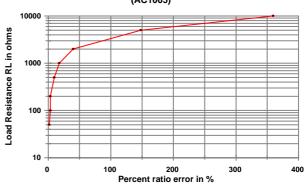




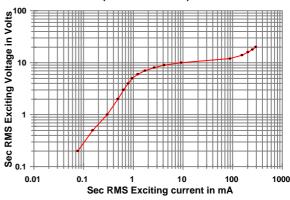


Environmental Specifications				
Storage Temperature	-55° to +130°C			
Insulation Resistance	100 megohms min.			

%RE vs RL at Rated primary current (AC1005)

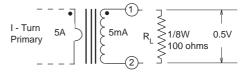


Typical Excitation Curve (AC1005~AC1020)



Notes:

- Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs



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AC1010 • 10 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

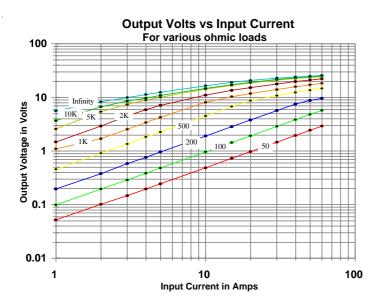
Applications

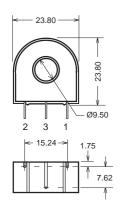
- Sensing Overload Current
- · Ground fault detection
- Metering
- Analog to Digital Circuits

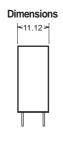
Electrical Specifications @ 20°C ambient

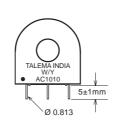
Electrical Specifications				
Primary Current	10A nom., 60 A max.			
Turns Ratio	1000:1 nominal			
Volt per Amp Ratio at 10A for 100 ohm load	0.100 V/A			
Volt per Amp Ratio at 1A for 100 ohm load	0.097 V/A			
DC Resistance at 20°C	41.8 ohms			
Dielectric Withstanding Voltage (Hi-pot)	4KVrms			

Diciound Withstanding Voltage (111 pot)				
Mechanical Specifications				
Case	Polycarbonate			
Encapsulant	Ероху			
Flammibility	Conforms to UL94-VO			
Terminals	Pins Ø 0.80mm			
Marking	TALEMA Date Code (W/Y) 1010, Dot at start pin			
Approximate Weight	16.3 grams			
Tolerance	±0.2mm			





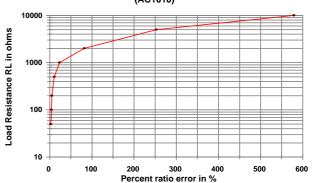




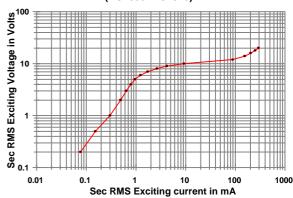


Environmental Specifications				
Storage Temperature	-55° to +130°C			
Insulation Resistance	100 megohms min.			

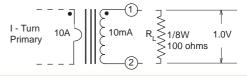
%RE vs RL at Rated primary current (AC1010)



Typical Excitation Curve (AC1005~AC1020)



- Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs





AC1015 • 15 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

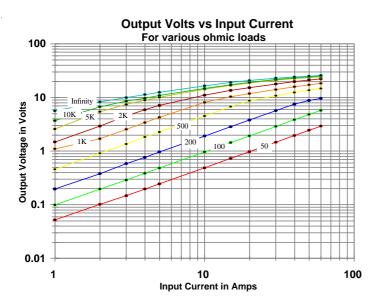
Applications

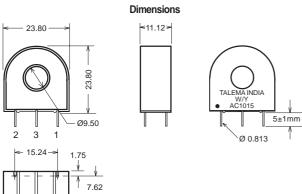
- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

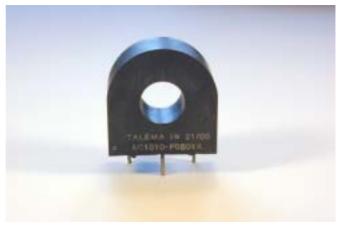
Electrical Specifications @ 20°C ambient

Electrical Specifications				
Primary Current	15A nom., 60 A max.			
Turns Ratio	1000:1 nominal			
Volt per Amp Ratio at 15A for 100 ohm load	0.100 V/A			
Volt per Amp Ratio at 1.5A for 100 ohm load	0.097 V/A			
DC Resistance at 20°C	41.8 ohms			
Dielectric Withstanding Voltage (Hi-pot)	4KVrms			

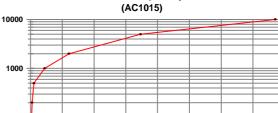
Mechanical Specifications				
Case	Polycarbonate			
Encapsulant	Ероху			
Flammibility	Conforms to UL94-VO			
Terminals	Pins Ø 0.80mm			
Marking	TALEMA Date Code (W/Y) AC1015, Dot at start pin			
Approximate Weight	16.3 grams			
Tolerance	±0.2mm			



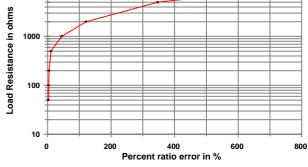




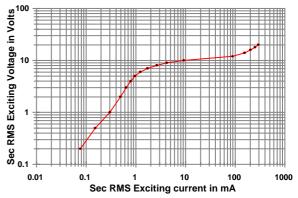
Environmental Specifications				
Storage Temperature	-55° to +130°C			
Insulation Resistance	100 megohms min.			



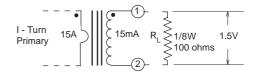
%RE vs RL at Rated primary current



Typical Excitation Curve (AC1005~AC1020)



- Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs



AC1020 • 20 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

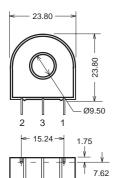
Electrical Specifications @ 20°C ambient

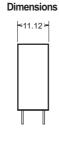
Electrical Specifications			
Primary Current	20A nom., 60 A max.		
Turns Ratio	1000:1 nominal		
Volt per Amp Ratio at 20A for 100 ohm load	0.100 V/A		
Volt per Amp Ratio at 2A for 100 ohm load	0.097 V/A		
DC Resistance at 20°C	41.8 ohms		
Dielectric Withstanding Voltage (Hi-pot)	4KVrms		

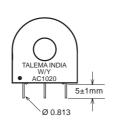
Mechanica	al Specifications
	D.I.

Case	Polycarbonate
Encapsulant	Ероху
Flammibility	Conforms to UL94-VO
Terminals	Pins Ø 0.80mm
Marking	TALEMA Date Code (W/Y) AC1020, Dot at start pin
Approximate Weight	16.3 grams
Tolerance	±0.2mm

Output Volts vs Input Current For various ohmic loads 100 10K 5K 2K 2K 500 100 50 100 100 100 100 100 100 100 100 100



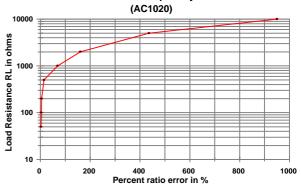




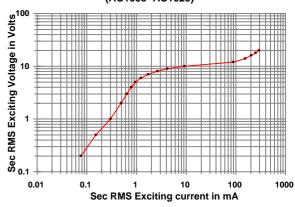


Environmental Specifications		
Storage Temperature -55° to +130°C		
Insulation Resistance 100 megohms min.		

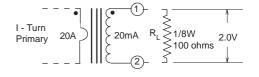
%RE vs RL at Rated primary current



Typical Excitation Curve (AC1005~AC1020)



- Unless requested, the terminating resistor and the one-turn primary are not supplied
- 2) Pin 3: Normally for mechanical support only but will be used on center tapped designs





AC1025 • 25 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

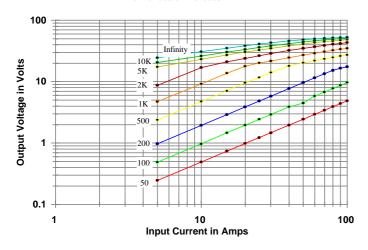
Electrical Specifications @ 20°C ambient

Electrical Specifications			
Primary Current	25A nom., 75A max.		
Turns Ratio	1000:1 nominal		
Volt per Amp Ratio at 25A for 100 ohm load	0.100 V/A		
Volt per Amp Ratio at 2.5A for 100 ohm load	0.098 V/A		
DC Resistance at 20°C	48 ohms		
Dielectric Withstanding Voltage (Hi-pot)	4KVrms		

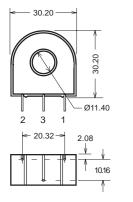
M	ec	han	ical	Spe	ecifi	icati	ions	

moonamour opcomounone		
Case	Polycarbonate	
Encapsulant	Ероху	
Flammibility	Conforms to UL94-VO	
Terminals	Pins Ø 1.0mm	
Marking	TALEMA Date Code (W/Y) AC1025, Dot at start pin	
Approximate Weight	35.5 grams	
Tolerance	±0.2mm	

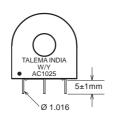
Output Volts vs Input Current For various ohmic loads



Dimensions



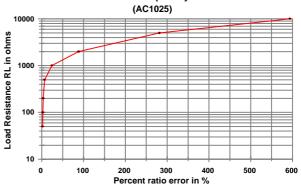


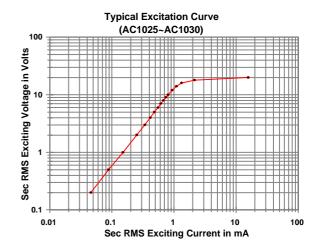




Environmental Specifications		
Storage Temperature -55° to +130°C		
Insulation Resistance	100 megohms min.	

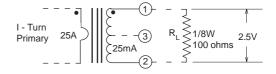
%RE vs RL at Rated primary current





Notes:

- 1) Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs



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AC1030 • 30 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

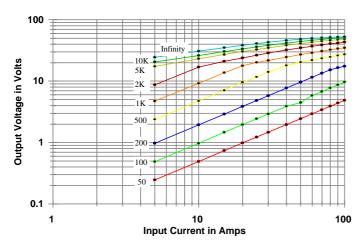
Electrical Specifications @ 20°C ambient

Electrical Specifications		
Primary Current	30A nom., 75A max.	
Turns Ratio	1000:1 nominal	
Volt per Amp Ratio at 30A for 100 ohm load	0.100 V/A	
Volt per Amp Ratio at 3A for 100 ohm load	0.098 V/A	
DC Resistance at 20°C	48 ohms	
Dielectric Withstanding Voltage (Hi-pot)	4KVrms	

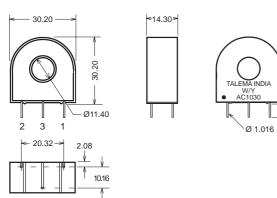
Mechanical Specifications

Case	Polycarbonate
Encapsulant	Ероху
Flammibility	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	TALEMA Date Code (W/Y) AC1030, Dot at start pin
Approximate Weight	35.5 grams
Tolerance	±0.2mm

Output Volts vs Input Current For various ohmic loads



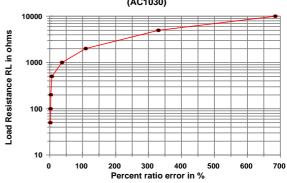
Dimensions

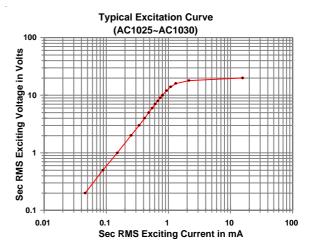




Environmental Specifications		
Storage Temperature -55° to +130°C		
Insulation Resistance	100 megohms min.	

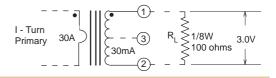
%RE vs RL at Rated primary current (AC1030)





Notes:

- 1) Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs



5±1mm



AC1040 • 40 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

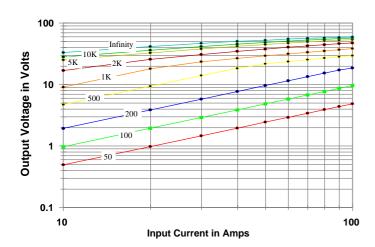
Electrical Specifications @ 20°C ambient

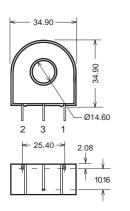
Electrical Specifications		
Primary Current	40A nom., 125A max.	
Turns Ratio	1000:1 nominal	
Volt per Amp Ratio at 40A for 100 ohm load	0.100 V/A	
Volt per Amp Ratio at 4A for 100 ohm load	0.098 V/A	
DC Resistance at 20°C	49.3 ohms	
Dielectric Withstanding Voltage (Hi-pot)	4KVrms	

ii Specification	11	Wechanic	
Poly			

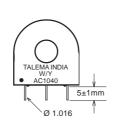
moonamour opcomounore		
Case	Polycarbonate	
Encapsulant	Ероху	
Flammibility	Conforms to UL94-VO	
Terminals	Pins Ø 1.0mm	
Marking	TALEMA Date Code (W/Y) AC1040, Dot at start pin	
Approximate Weight	47.3 grams	
Tolerance	±0.2mm	

Output Volts vs Input Current For various ohmic loads





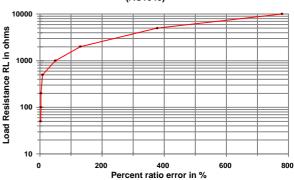




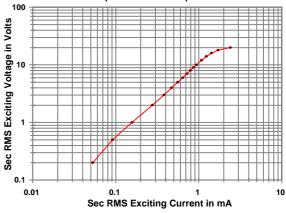


Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.

%RE vs RL at Rated primary current (AC1040)

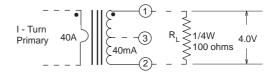


Typical Excitation Curve (AC1040~AC1050)



Notes:

- Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs



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AC1050 • 50 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

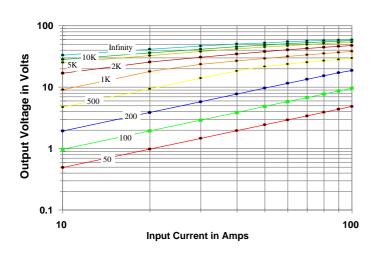
Electrical Specifications @ 20°C ambient

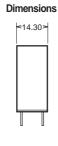
Electrical Specifications		
Primary Current	50A nom.,	125A max.
Turns Ratio	1000:1	nominal
Volt per Amp Ratio at 50A for 100 ohm load	0.10	0 V/A
Volt per Amp Ratio at 5A for 100 ohm load	0.09	8 V/A
DC Resistance at 20°C	49.3	ohms
Dielectric Withstanding Voltage (Hi-pot)	4K\	/rms

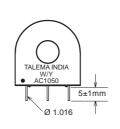
Mechanical Specifications

	•
Case	Polycarbonate
Encapsulant	Ероху
Flammibility	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	TALEMA Date Code (W/Y) AC1050, Dot at start pin
Approximate Weight	47.3 grams
Tolerance	±0.2mm

Output Volts vs Input Current For various ohmic loads



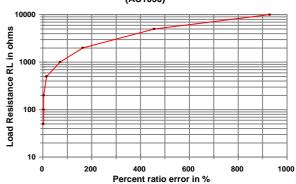






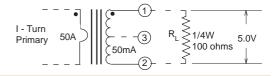
Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.

%RE vs RL at Rated primary current (AC1050)



Typical Excitation Curve (AC1040~AC1050) STORY OUT OUT OUT OUT OUT Sec RMS Exciting Current in mA

- 1) Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs





AC1060 • 60 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

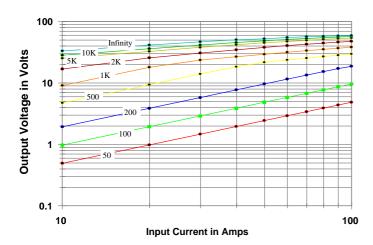
Electrical Specifications @ 20°C ambient

Electrical Specifications		
60A nom., 200A max.		
1000:1 nominal		
0.100 V/A		
0.0984 V/A		
24 ohms		
4KVrms		

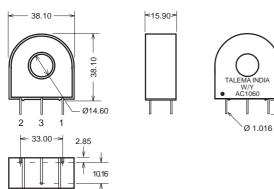
Mechanical Spec	cifications
-----------------	-------------

wechanical Specifications	
Case	Polycarbonate
Encapsulant	Ероху
Flammibility	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	TALEMA Date Code (W/Y) AC1060, Dot at start pin
Approximate Weight	65.2 grams
Tolerance	±0.2mm

Output Volts vs Input Current For various ohmic loads

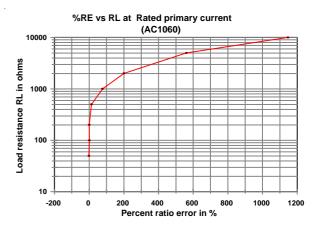


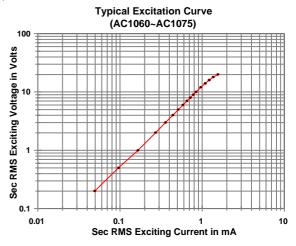






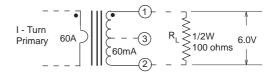
Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.





Notes:

- 1) Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs



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5±1mm

AC1075 • 75 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

Electrical Specifications @ 20°C ambient

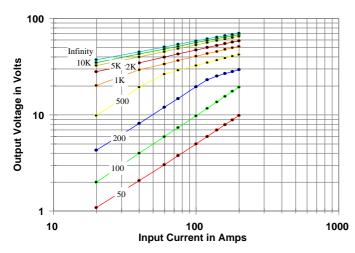
Electrical Specifications		
Primary Current	75A nom., 200A max.	
Turns Ratio	1000:1 nominal	
Volt per Amp Ratio at 75A for 100 ohm load	0.100 V/A	
Volt per Amp Ratio at 7.5A for 100 ohm load	0.0984 V/A	
DC Resistance at 20°C	24 ohms	
Dielectric Withstanding Voltage (Hi-pot)	4KVrms	

Mechanical Specifications

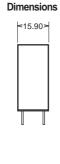
Case	Polycarbonate
Encapsulant	Ероху
Flammibility	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	TALEMA Date Code (W/Y) AC1075, Dot at start pin
Approximate Weight	65.2 grams
Tolerance	±0.2mm

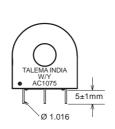
Output Volts vs Input Current

For various ohmic loads



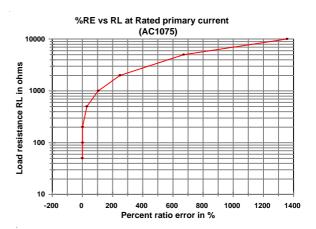
38.10 0 8 8 9 9 14.60 2 3 1 2.85 10.16

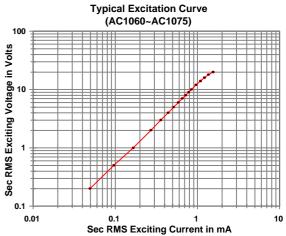




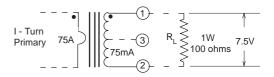


Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.





- Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs





AC1100 • 100 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- · Ground fault detection
- Metering
- Analog to Digital Circuits

Electrical Specifications @ 20°C ambient

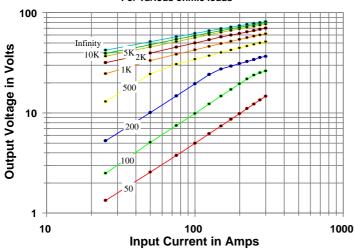
Electrical Specifications		
Primary Current	100A nom., 250A max.	
Turns Ratio	1000:1 nominal	
Volt per Amp Ratio at 100A for 100 ohm load	0.100 V/A	
Volt per Amp Ratio at 10A for 100 ohm load	0.0986 V/A	
DC Resistance at 20°C	21.3 ohms	
Dielectric Withstanding Voltage (Hi-pot)	4KVrms	

Mechanical Specifications

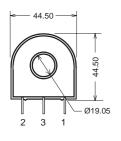
Case	Polycarbonate
Encapsulant	Ероху
Flammibility	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	TALEMA Date Code (W/Y) AC1100, Dot at start pin
Approximate Weight	80 grams
•	

Output Volts vs Input Current

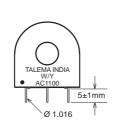
For various ohmic loads

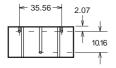


Dimensions





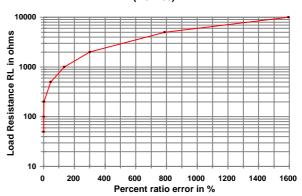


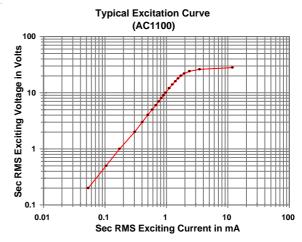




Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.

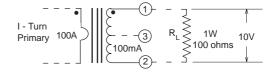
%RE vs RL at Rated primary current (AC1100)





Notes:

- Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs



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AC1150 • 150 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

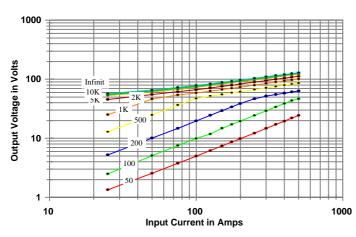
- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

Electrical Specifications @ 20°C ambient

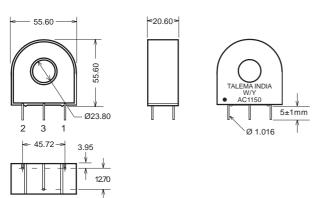
Electrical Specifications		
Primary Current	150A nom., 500A max.	
Turns Ratio	1000:1 nominal	
Volt per Amp Ratio at 150A for 100 ohm load	0.100 V/A	
Volt per Amp Ratio at 15A for 100 ohm load	0.0990 V/A	
DC Resistance at 20°C	11 ohms	
Dielectric Withstanding Voltage (Hi-pot)	4KVrms	

Mechanical Specifications		
Case	Polycarbonate	
Encapsulant	Ероху	
Flammibility	Conforms to UL94-VO	
Terminals	Pins Ø 1.0mm	
Marking	TALEMA Date Code (W/Y) AC1150, Dot at start pin	
Approximate Weight	150 grams	
Tolerance	+0.2mm	

Output Volts vs Input Current For various ohmic loads



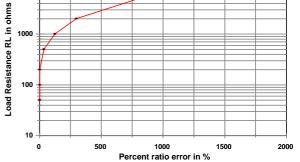
Dimensions

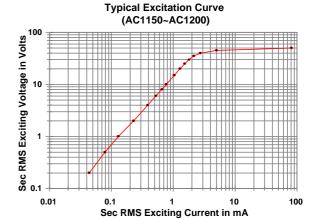




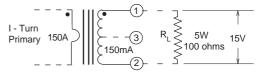
Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.

%RE vs RL at Rated primary current (AC1150)





- 1) Unless requested, the terminating resistor and the one-turn primary are not supplied
- 2) Pin 3: Normally for mechanical support only but will be used on center tapped designs





AC1200 • 200 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

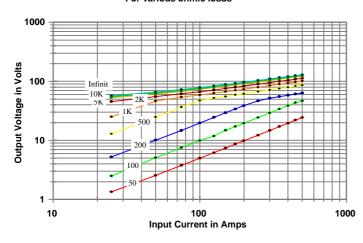
Electrical Specifications @ 20°C ambient

Electrical Specifications		
Primary Current	200A nom., 500A max.	
Turns Ratio	1000:1 nominal	
loadlt per Amp Ratio at 200A for 100 ohm	0.100 V/A	
Volt per Amp Ratio at 20A for 100 ohm load	0.0991 V/A	
DC Resistance at 20°C	11 ohms	
Dielectric Withstanding Voltage (Hi-pot)	4KVrms	

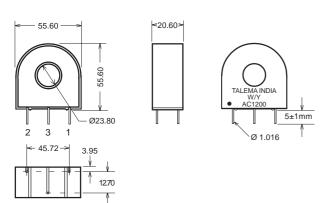
Mechanical Specifications

Case	Polycarbonate
Encapsulant	Ероху
Flammibility	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	TALEMA Date Code (W/Y) AC1200, Dot at start pin
Approximate Weight	150 grams
Tolerance	±0.2mm

Output Volts vs Input Current For various ohmic loads

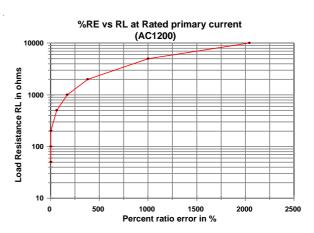


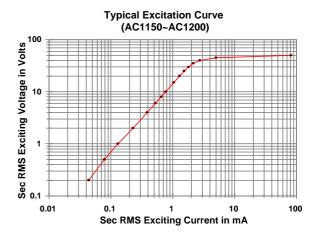
Dimensions





Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.





- Unless requested, the terminating resistor and the one-turn primary are not supplied
- Pin 3: Normally for mechanical support only but will be used on center tapped designs

