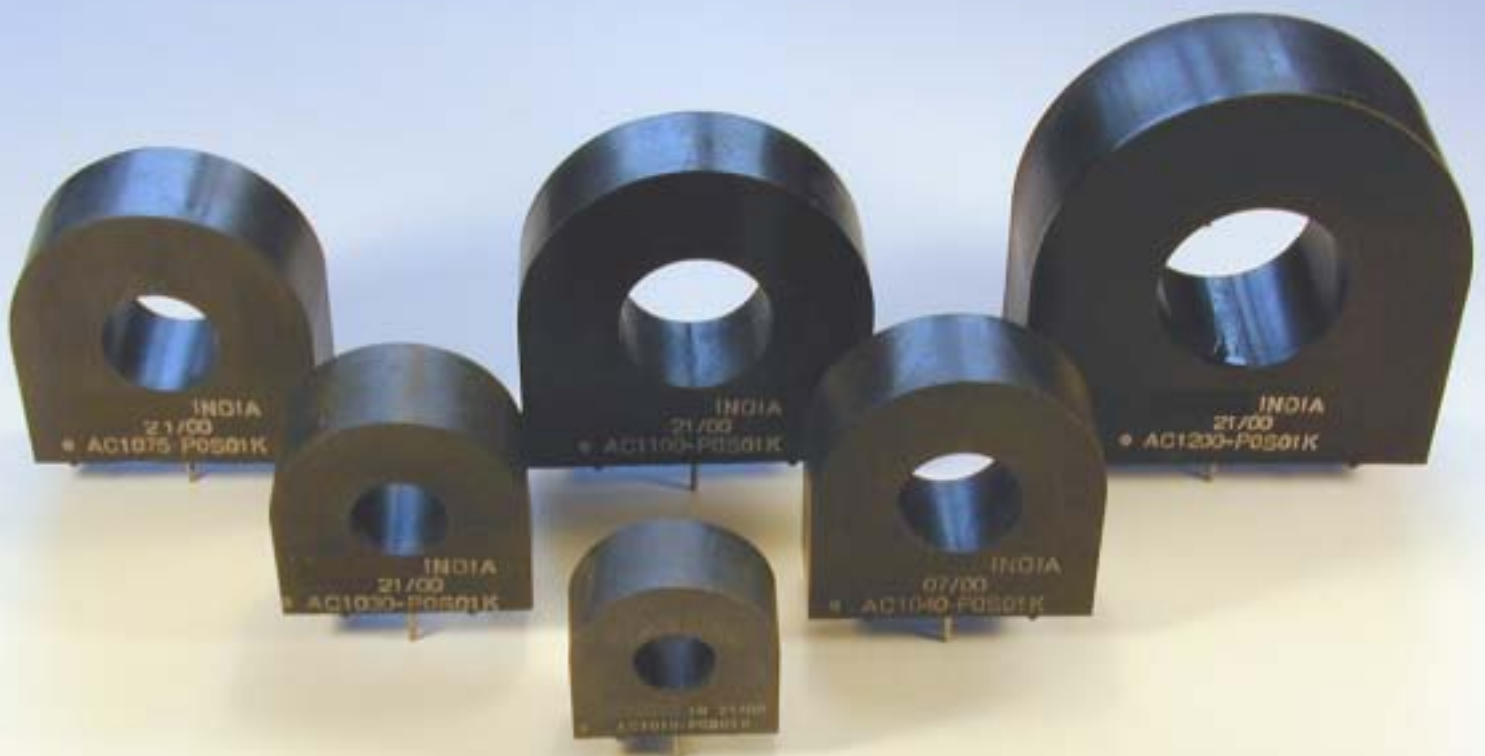


- Mains 50/60Hz Current Transformers
- Primary Current Ratings to 200 Amps
- 20kHz to 200kHz Current Sense Inductors and Transformers

Current Sense Transformers and Inductors



Amveco Magnetics, Inc.

<http://www.amveco.com>

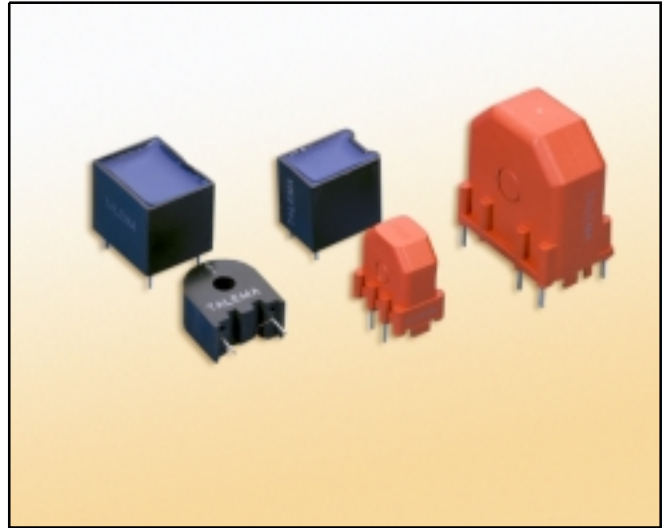
Amveco Magnetics, Inc.
11222 Richmond Avenue
Suite 120
Houston, TX 77082
Tel: (800) 527-7042
(713) 977-2500
Fax: (713) 977-5031
E-mail: sales@amveco.com

AS Series • Current Sense Inductors & Transformers

AS Series Current Sensors are designed as a low cost method of controlling, monitoring or measuring AC currents. The sensors serve as feedback elements between the output and pulse control circuitry providing accurate regulation of switch mode power supplies.

Features

- Fully encapsulated for optimal PC board mounting
- Frequency range from 20kHz to 200kHz
- Primary current rating to 15 Amps
- Primary to secondary isolated to 2500 VAC
- Meets VDE norms
- Optimum performance over designated current and frequency range
- Competitive pricing due to high volume production
- Manufactured in ISO-9001 approved facility



Applications

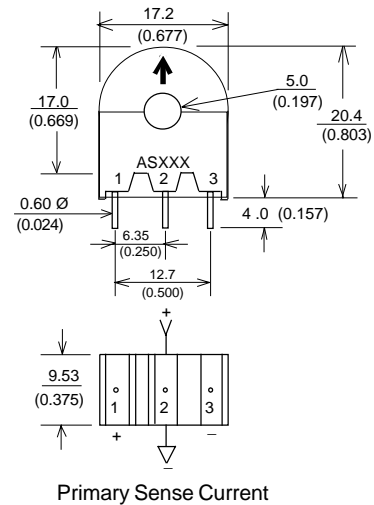
Isolated current feed-back signal in Switch Mode Power Supplies • Motor current load/overload • Lighting • Switch Controls Ultra-sound current • High resolution sonar current • Isolated bi-directional current sensor with full wave bridge rectifier

Electrical Specifications at 25°C

Part Number	Prim./Sec. Ratio	L _{sec} ⁽¹⁾ (mH Min)	DCR _{sec} (Ohms Max.)	Sec. Term. ⁽²⁾ Resistance (Ohms Nom.)	I _{sec} ⁽³⁾ Max.	Volt μS ⁽⁴⁾ Max.	Schematic
AS-100	1:50	6	0.6	50	300mA	175	
AS-101	1:100	25	1.1	100	150mA	350	
AS-102	1:200	100	4.5	200	75mA	700	
AS-103	1:300	250	10.0	300	50mA	900	
AS-104	1:500	700	25.0	500	30mA	1500	
AS-110	1:50CT	6	0.3 / 0.3	25 + 25	300mA	175	
AS-111	1:100CT	25	0.55 / 0.55	50 + 50	150mA	350	
AS-112	1:200CT	100	2.25 / 2.25	100 + 100	75mA	700	
AS-113	1:300CT	250	5.0 / 5.0	150 + 150	50mA	900	
AS-114	1:500CT	700	12.5 / 12.5	250 + 250	30mA	1500	

Notes:

- 1) L_{sec}: Secondary inductance tested at 10kHz and 10mV.
- 2) This nominal termination resistance value will yield approximately 1.0V of output for each amp of current in a single turn sense line. The output Voltage/Ampere of these devices can be increased or decreased linearly over a restricted temperature range by adjusting the terminating resistance.
- 3) The I_{sec} value corresponds to a maximum primary current of 15 Amp-turns RMS.
- 4) $V_{\mu S} = R_t \times I_s \times \frac{1}{2F}$
 R_t (Ohms): Recommended Terminating Resistance
 I_s (A): Secondary Current
 F (Hz): Frequency
- 5) Operating Temperature Range: -40°C to +120°C
- 6) Pin 2 is on Center-Tapped (CT) versions only

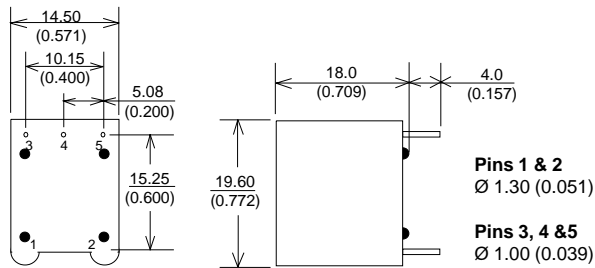


AS Series • Current -Sense Inductors & Transformers

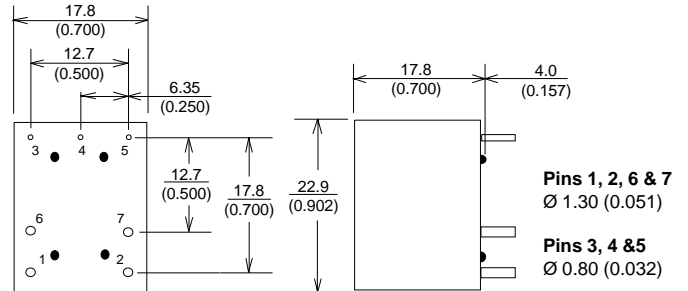
Electrical Specifications at 25°C

Part Number		Prim./Sec. Ratio	L _{sec} ⁽¹⁾ (mHMin.)	DCR _{sec} (Ohms Max.)	Sec. Term. ⁽²⁾ Resistance (Ohms Nom.)	I _{sec} ⁽³⁾ Max.	Volt μ S ⁽⁴⁾ Max.	Schematic
Type 1	Type 2							
AS-200	AS-300	1:50	5	0.65	50	300mA	175	
AS-201	AS-301	1:100	20	1.30	100	150mA	350	
AS-202	AS-302	1:200	80	4.50	200	75mA	700	
AS-210	AS-310	1:50CT	5	0.65	25 + 25	300mA	175	
AS-211	AS-311	1:100CT	20	1.30	50 + 50	150mA	350	
AS-212	AS-312	1:200CT	80	4.50	100 + 100	75mA	700	
	AS-320	1:50	5	0.65	50	300mA	175	
	AS-321	1:100	20	1.30	100	150mA	350	
	AS-322	1:200	80	4.50	200	75mA	700	
	AS-330	1:50CT	5	0.65	25 + 25	300mA	175	
	AS-331	1:100CT	20	1.30	50 + 50	150mA	350	
	AS-332	1:200CT	80	4.50	100 + 100	75mA	700	

Type 1



Type 2



Features

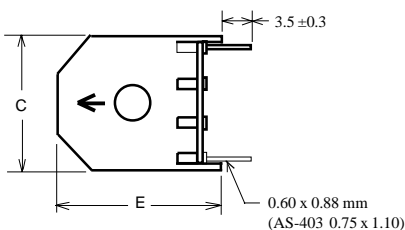
- Meets requirements of IEC 950 and VDE norms
- UL94, VO recognized materials
- Operating frequency range from 20kHz to 200kHz

- Operating Temperature Range: -40°C to +120°C
- Primary to secondary isolated to 4000 VAC
- Primary current rating to 80 Amps

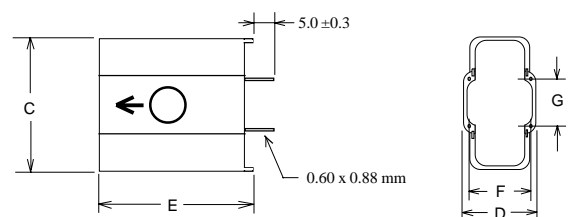
Electrical Specifications at 25°C

Part Number	Pri./Sec. Ratio	I _p Amps	Volt μ S (Max.)	Application	Schematic	Case Type	Dimensions							
							C	D	E	F	G	H	I	Hole
AS-400	1:100	1	350	Switching		A	17.8	12.8	20.0	10.0	5.0	15.0	5.0	--
AS-401	1:100	2	550	Switching		A	23.0	15.5	25.0	12.5	10.0	20.0	5.0	--
AS-402	1:100	5	1500	Switching		B	32.5	18.0	35.5	15.0	12.5	--	--	--
AS-403	1:100	10	1500	Switching		A	32.0	20.5	35.0	17.5	12.5	27.5	7.5	--
AS-404	1:100	50	1500	Switching		B	32.5	18.0	35.5	15.0	12.5	--	--	Ø 8
AS-405	1:500	50	2700	Switching		A	23.0	15.5	25.0	12.5	10.0	20.0	5.0	Ø 5
AS-406	1:500	65	4200	Switching		A	27.0	18.0	30.0	15.0	12.5	22.5	5.0	Ø 5
AS-407	1:500	80	7500	Switching		B	32.5	18.0	35.5	15.0	12.5	--	--	Ø 8

Type A



Type B

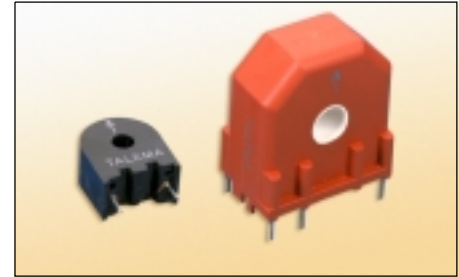


ASM Series • Current Sensor for 50/60 Hz

ASM Series current sensors operate as the sealed secondary of a current transformer while the conductor carrying the current to be measured functions as a one turn primary. Measurement accuracy can be improved by increasing the number of primary turns. Applications include detection of branch circuit overload and load drop or shutdown.

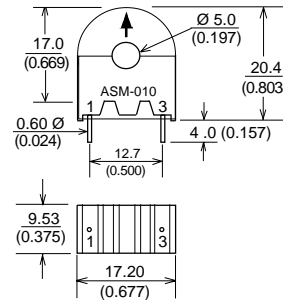
Features

- Fully encapsulated for optimal PC board mtg.
- Mains frequency of 50/60 Hz
- Primary current ratings from 1 to 100 Amps
- Primary to secondary isolated to 2500 VAC
- Operating temperature range: -40° C to +120° C
- Competitive pricing due to high volume production
- Manufactured in ISO-9001 approved facility

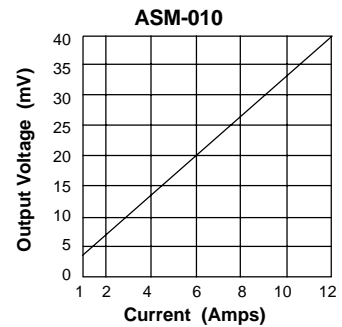


Part Number	Current Range	Output Voltage Tolerance
ASM-010	1 - 10 Amps	±10%
ASM-020	1 - 20 Amps	±10%
ASM-030	1 - 30 Amps	±10%
ASM-050	5 - 50Amps	±10%
ASM-075	5 - 75 Amps	±10%
ASM-100	5 - 100 Amps	±10%

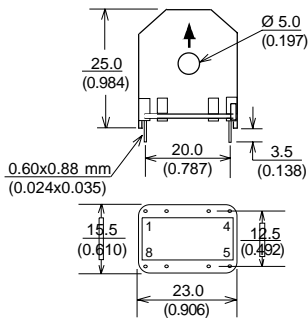
ASM-010



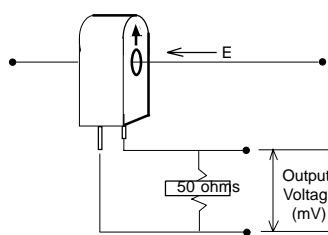
Typical Response



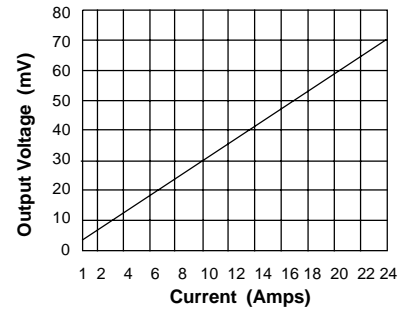
ASM-020



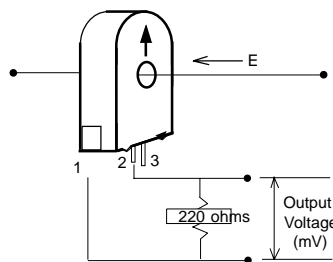
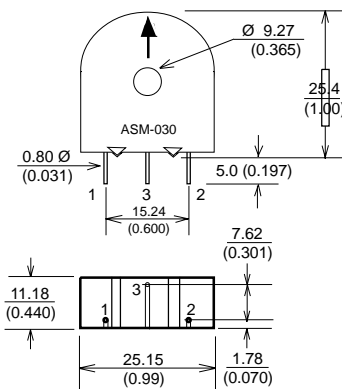
ASM-010 & ASM-020



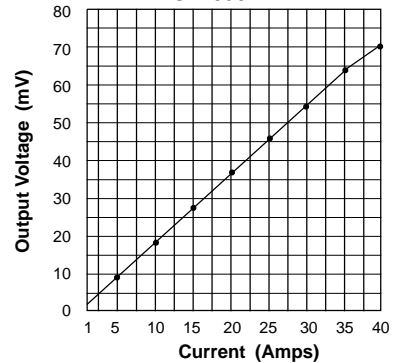
ASM-020



ASM-030

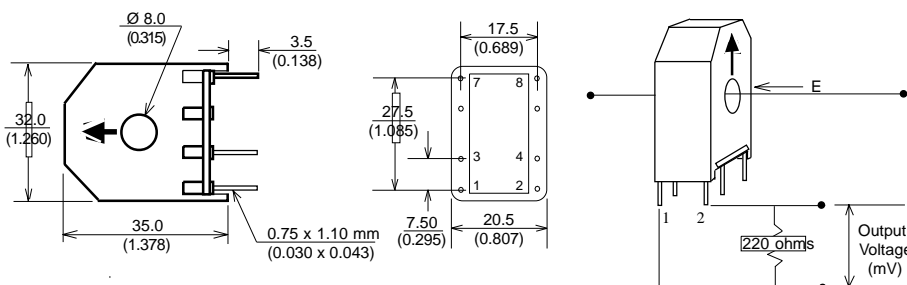


ASM-030

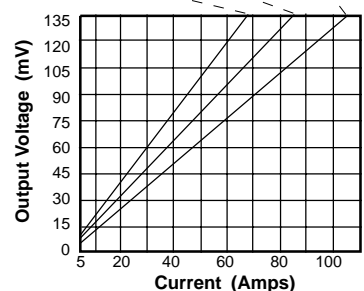


Note: Pin #3 is Blank

ASM-050, ASM-075 & ASM-100



ASM-050, ASM-075 & ASM-100



AC Series • Current Transformer Quick Reference Guide

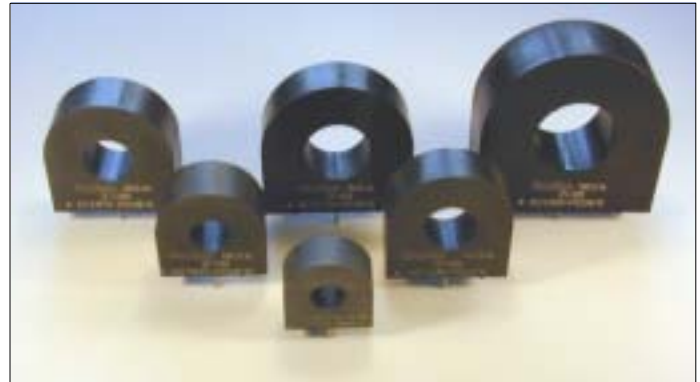
Low Cost 50/60Hz Current Transformers

Applications

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

Features

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



Electrical Specifications @ 20°C ambient

AC Series • Standard Accuracy Current Transformers

Part No.	I _p Amps	Turns Ratio	Terminating Resistor		DCR (Ohms)	RCF @ 10%	Volts/Amp @ rated I _p for various loads (Ohms)				I _{ex} μArms	V _{ex} Vrms	Net Weight (grams)	Case Dimensions - mm					
			Ohms	Watt			Nominal	100	500	2K				5K	L	ID	H	W	C
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

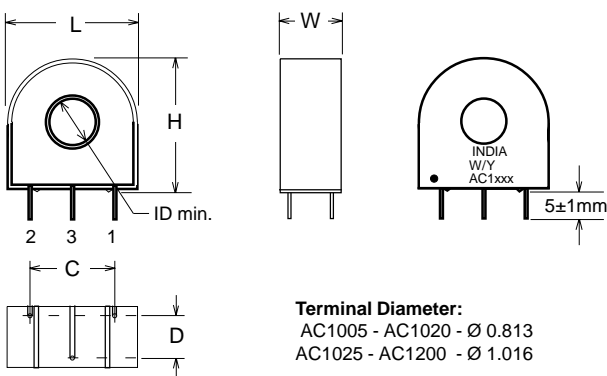
I_p: Primary Current

R_L: Terminating Resistor

I_{ex} and V_{ex}: Excitation current & voltage at rated operating conditions

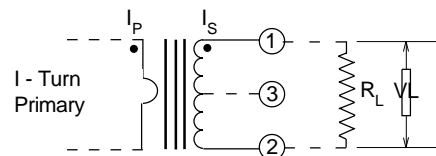
RCF: Ratio correction factor - Multiply current readings by this factor to compensate for transformer losses.

Dimensions



Notes:

- 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
- 3) Each part number adjusted to be most accurate at specified load.



Design and Manufacturing Facilities

<http://www.amveco.com>

AC1005 • 5 Amp Current Transformer

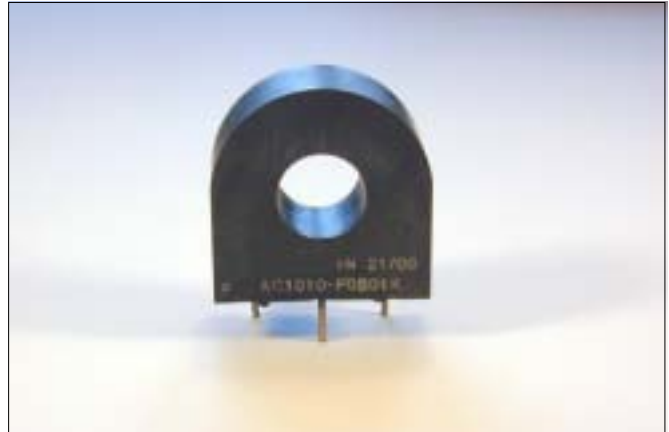
Low Cost 50/60Hz Current Transformers

Applications

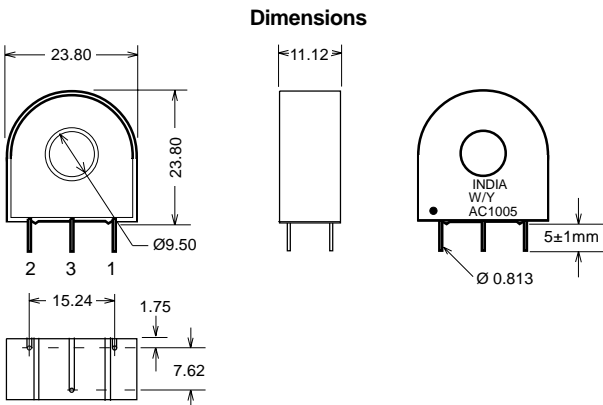
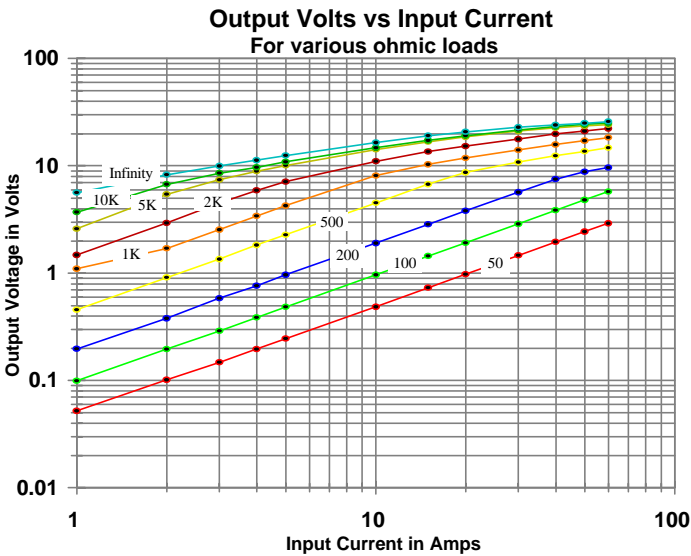
- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

Electrical Specifications @ 20°C ambient

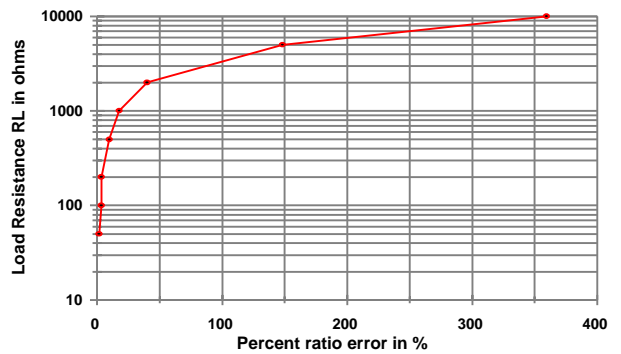
Electrical Specifications	
Primary Current	5A nom., 60A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 5A for 100 ohm load	0.100 V/A
Volt per Amp Ratio at 0.5A for 100 ohm load	0.096 V/A
DC Resistance at 20°C	41.8 ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 0.80mm
Marking	Date Code (W/Y) AC1005, Dot at start pin
Approximate Weight	16.3 grams
Tolerance	±0.2mm



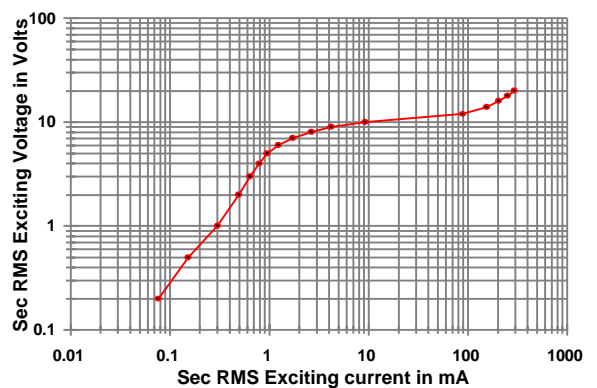
Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.



**%RE vs RL at Rated primary current
(AC1005)**

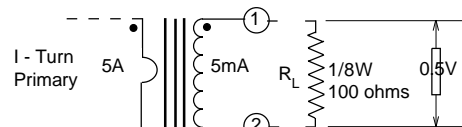


**Typical Excitation Curve
(AC1005~AC1020)**



Notes:

- 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



AC1010 • 10 Amp Current Transformer

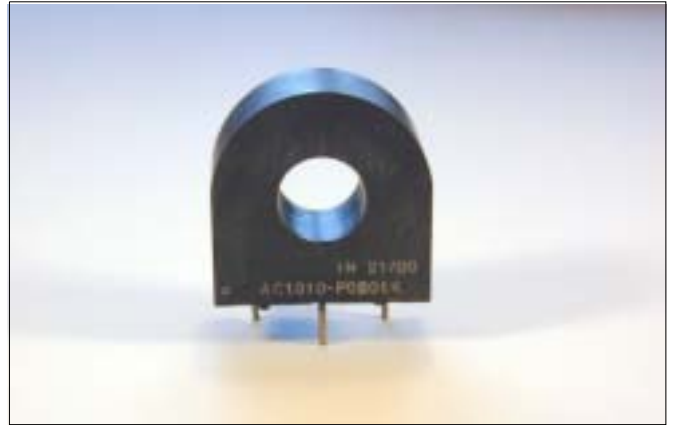
Low Cost 50/60Hz Current Transformers

Applications

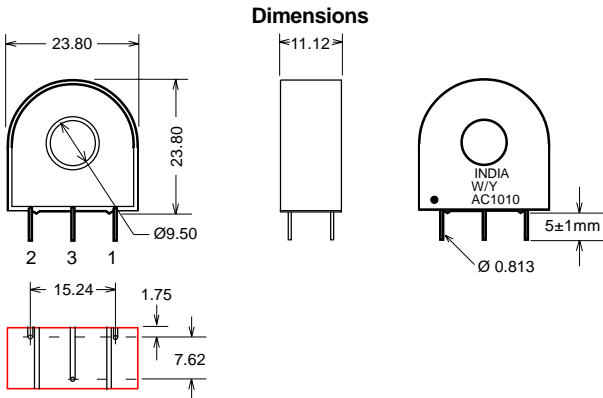
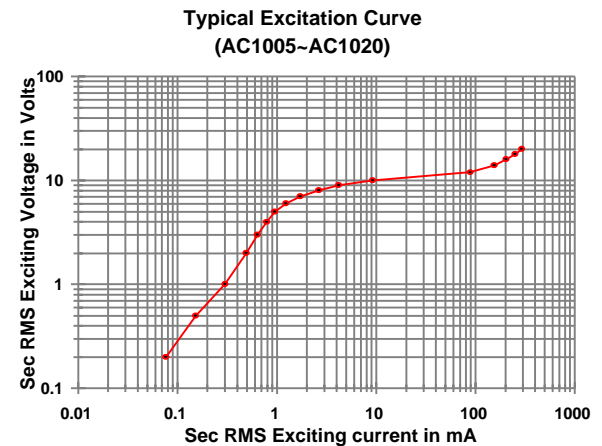
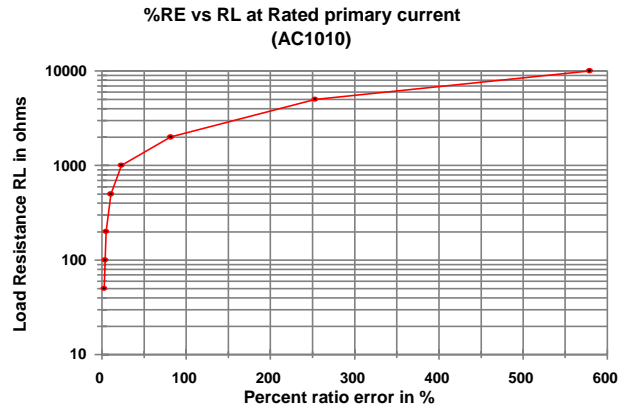
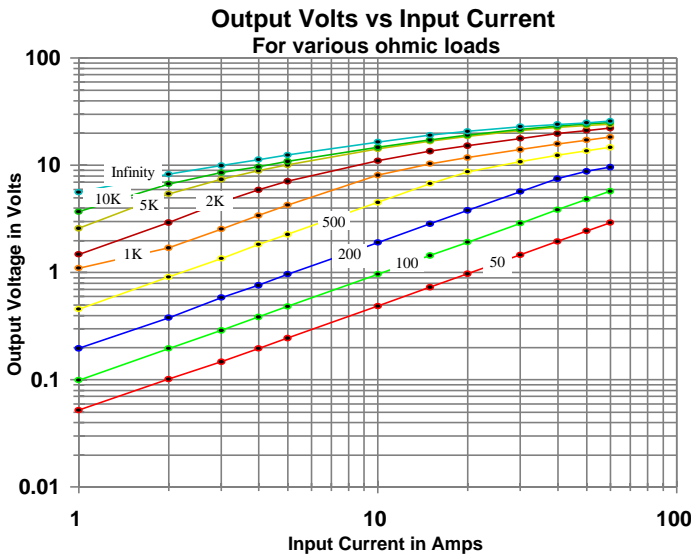
- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

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
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 0.80mm
Marking	Date Code (W/Y) 1010, Dot at start pin
Approximate Weight	16.3 grams
Tolerance	±0.2mm

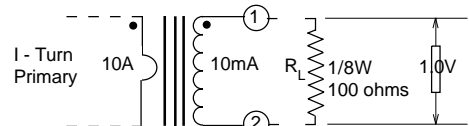


Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.



Notes:

- 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



AC1015 • 15 Amp Current Transformer

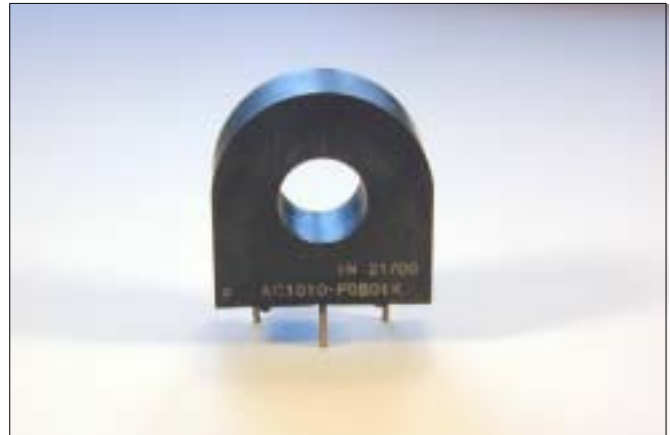
Low Cost 50/60Hz Current Transformers

Applications

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

Electrical Specifications @ 20°C ambient

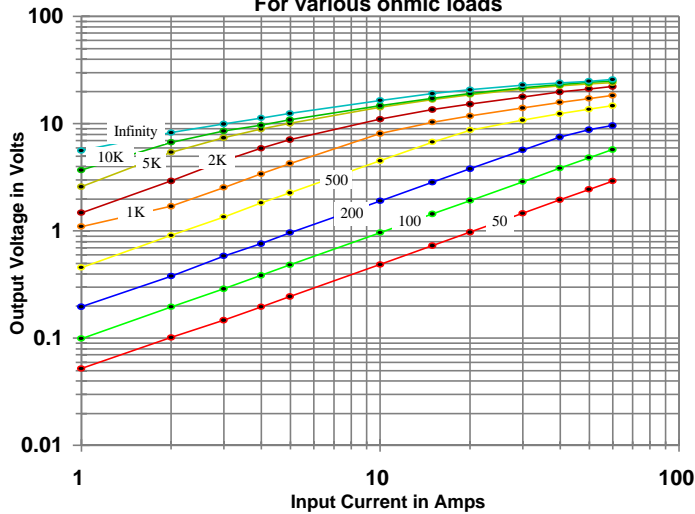
Electrical Specifications	
Primary Current	15A nom., 60 A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 15A for 100 ohm load	0.100 V/A
Volt per Amp Ratio at 1.5A for 100 ohm load	0.097 V/A
DC Resistance at 20°C	41.8 ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 0.80mm
Marking	Date Code (W/Y) AC1015, Dot at start pin
Approximate Weight	16.3 grams
Tolerance	±0.2mm



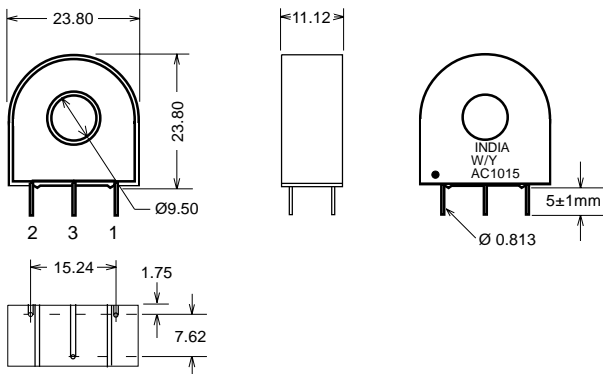
Environmental Specifications

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

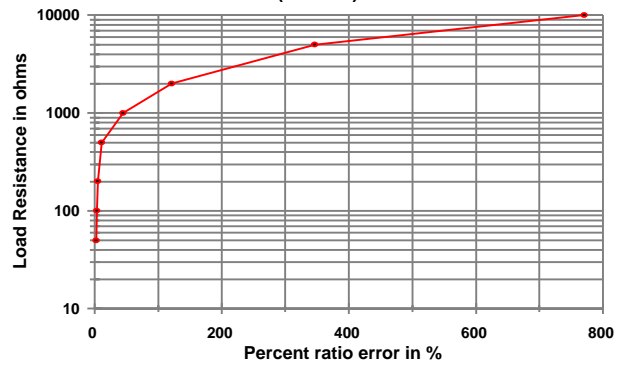
Output Volts vs Input Current
For various ohmic loads



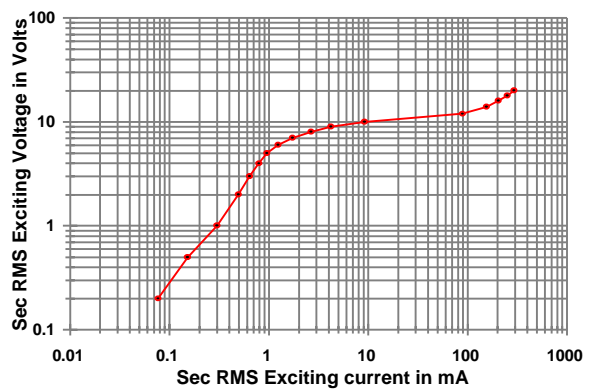
Dimensions



%RE vs RL at Rated primary current
(AC1015)

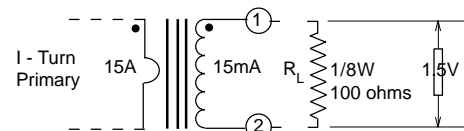


Typical Excitation Curve
(AC1005-AC1020)



Notes:

- 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



AC1020 • 20 Amp Current Transformer

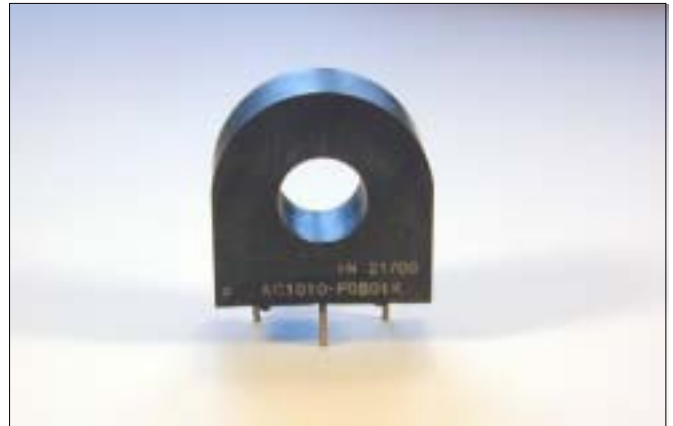
Low Cost 50/60Hz Current Transformers

Applications

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

Electrical Specifications @ 20°C ambient

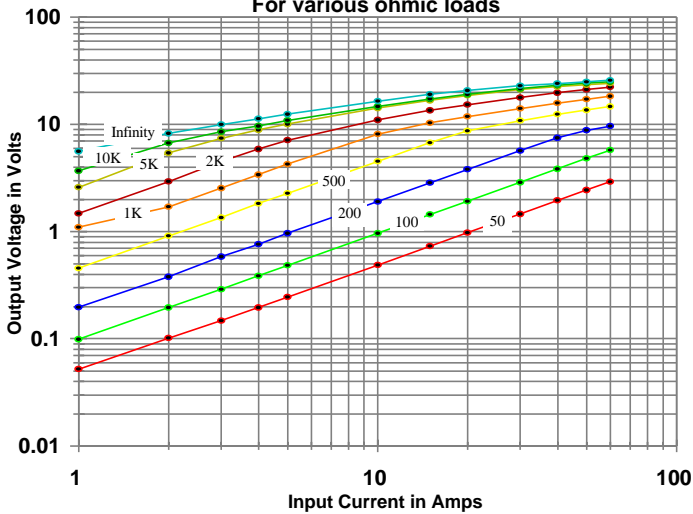
Electrical Specifications	
Primary Current	20A nom., 60 A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 20A for 100 ohm load	0.100 V/A
Volt per Amp Ratio at 2A for 100 ohm load	0.097 V/A
DC Resistance at 20°C	41.8 ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 0.80mm
Marking	Date Code (W/Y) AC1020, Dot at start pin
Approximate Weight	16.3 grams
Tolerance	±0.2mm



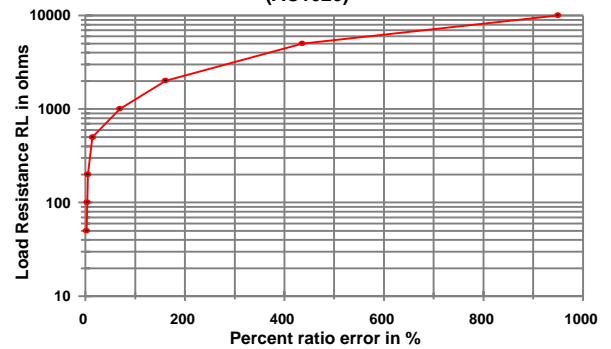
Environmental Specifications

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

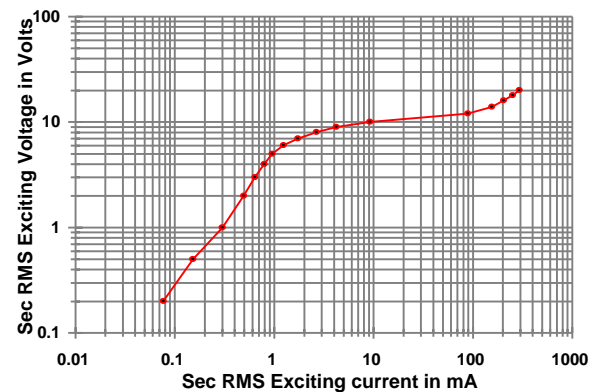
Output Volts vs Input Current For various ohmic loads



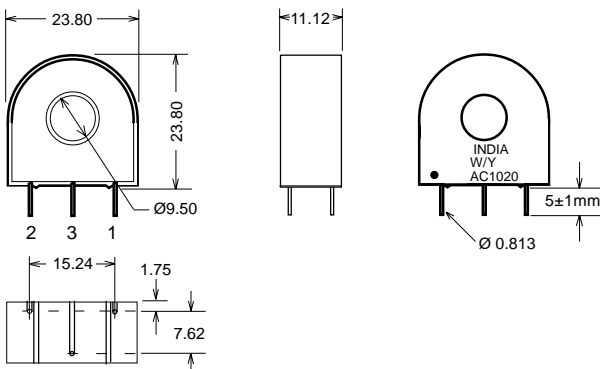
%RE vs RL at Rated primary current (AC1020)



Typical Excitation Curve (AC1005-AC1020)

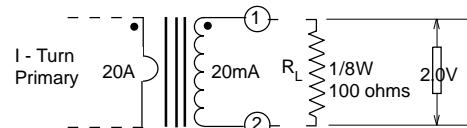


Dimensions



Notes:

- 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



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

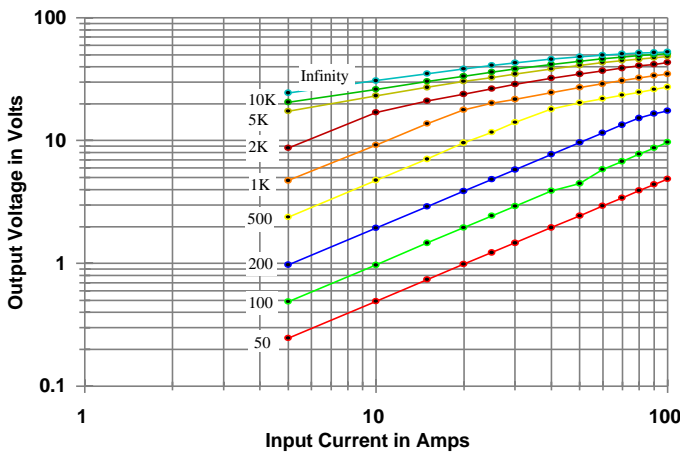
Electrical Specifications	
Primary Current	25A nom., 75A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 25A for 100 ohm load	0.100 V/A
Volt per Amp Ratio at 2.5A for 100 ohm load	0.098 V/A
DC Resistance at 20°C	48 ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	Date Code (W/Y) AC1025, Dot at start pin
Approximate Weight	35.5 grams
Tolerance	±0.2mm



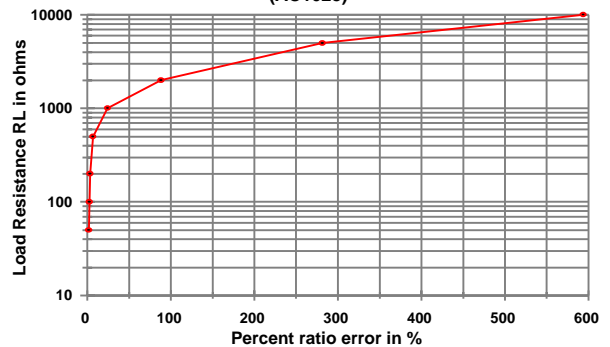
Environmental Specifications

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

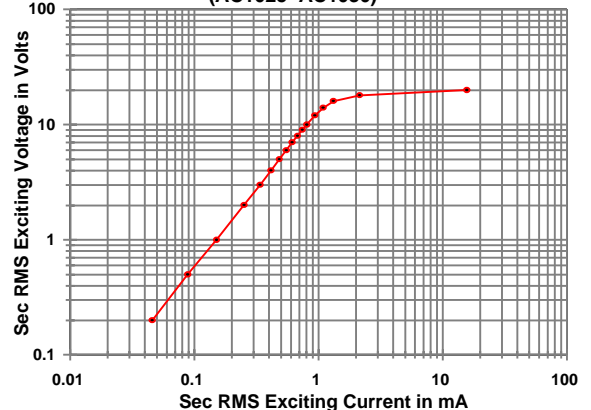
Output Volts vs Input Current
For various ohmic loads



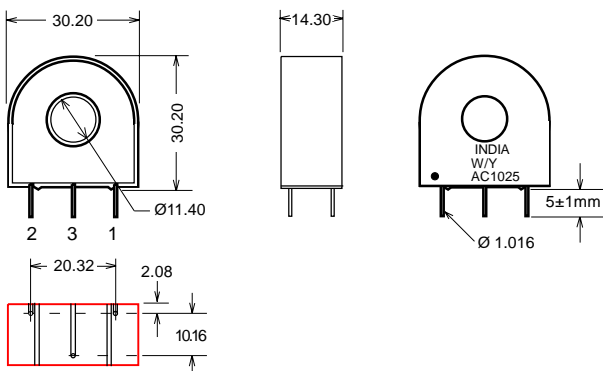
%RE vs RL at Rated primary current
(AC1025)



Typical Excitation Curve
(AC1025-AC1030)

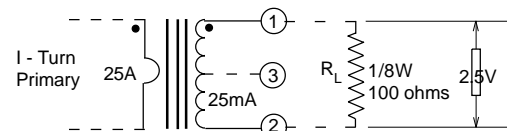


Dimensions



Notes:

- 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



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

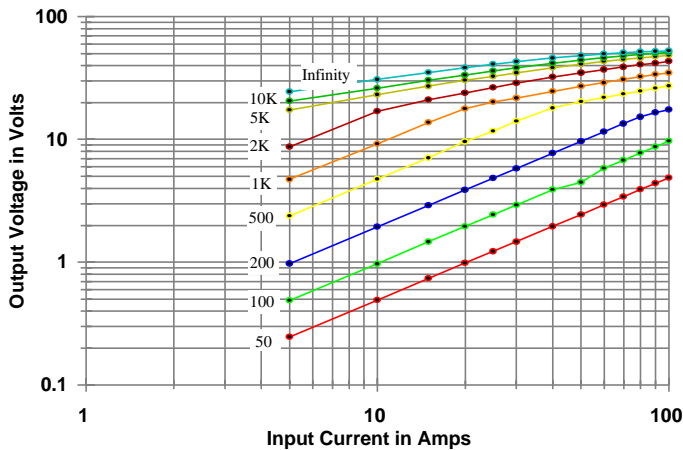
Electrical Specifications	
Primary Current	30A nom., 75A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 30A for 100 ohm load	0.100 V/A
Volt per Amp Ratio at 3A for 100 ohm load	0.098 V/A
DC Resistance at 20°C	48 ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	Date Code (W/Y) AC1030, Dot at start pin
Approximate Weight	35.5 grams
Tolerance	±0.2mm



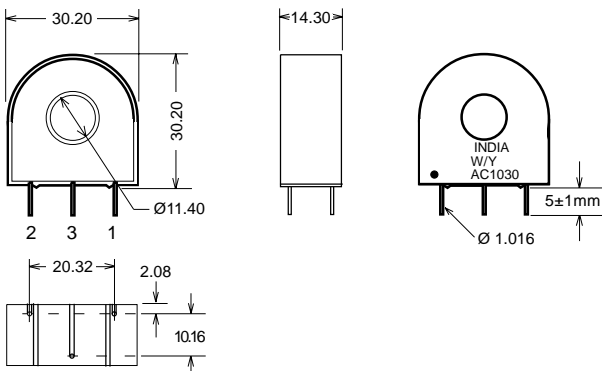
Environmental Specifications

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

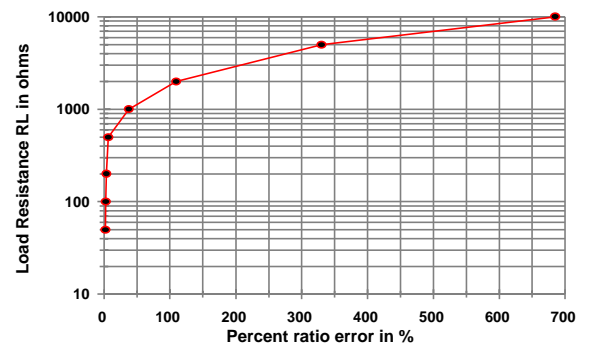
Output Volts vs Input Current
For various ohmic loads



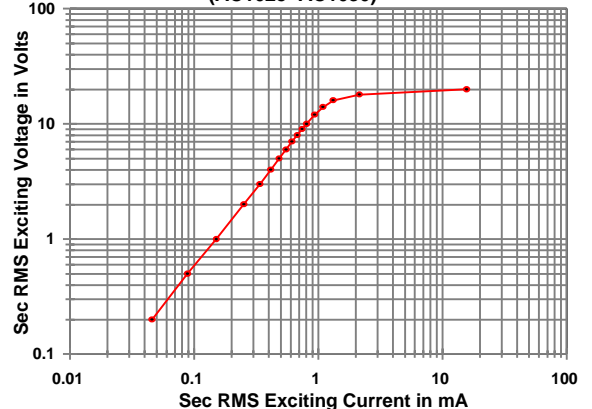
Dimensions



%RE vs RL at Rated primary current
(AC1030)

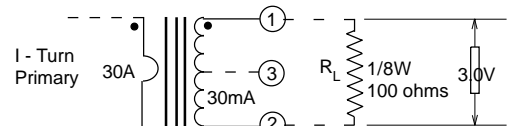


Typical Excitation Curve
(AC1025-AC1030)



Notes:

- 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



AC1040 • 40 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

Applications

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

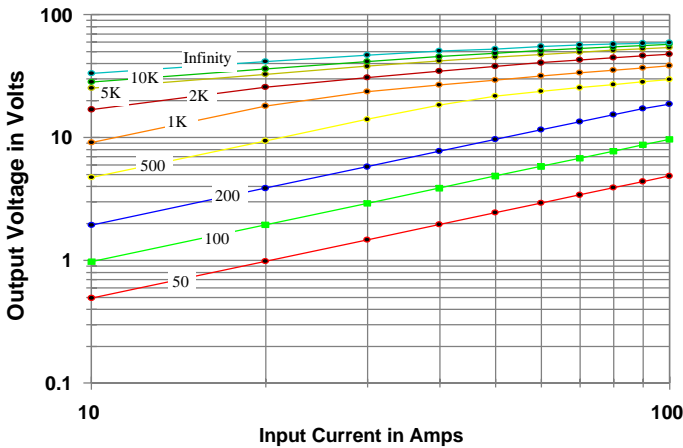
Electrical Specifications @ 20°C ambient

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
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	Date Code (W/Y) AC1040, Dot at start pin
Approximate Weight	47.3 grams
Tolerance	±0.2mm

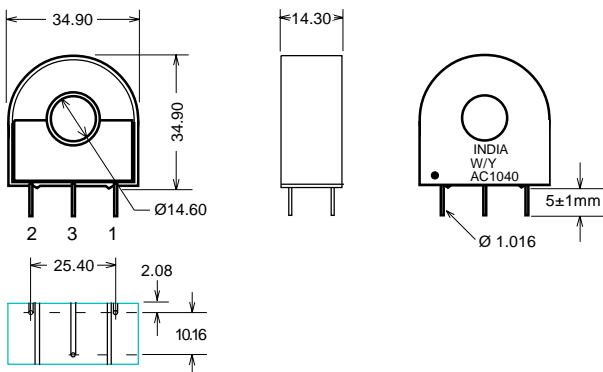


Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.

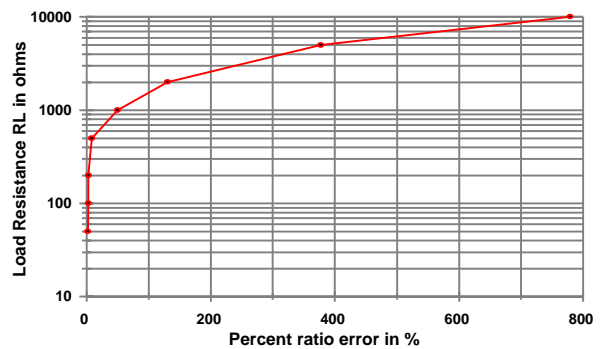
Output Volts vs Input Current
For various ohmic loads



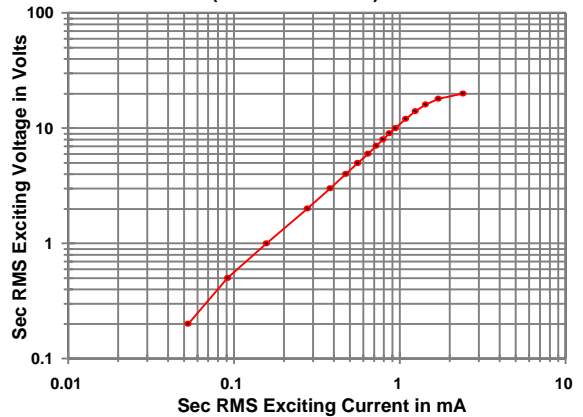
Dimensions



%RE vs RL at Rated primary current
(AC1040)

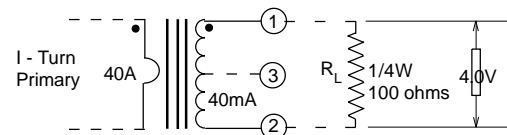


Typical Excitation Curve
(AC1040-AC1050)



Notes:

- 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



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

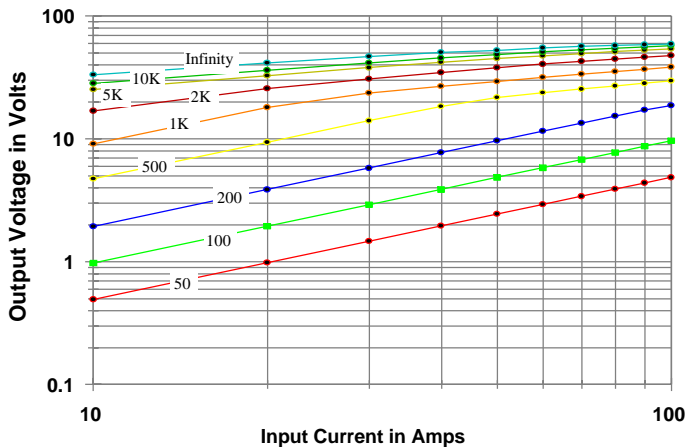
Electrical Specifications	
Primary Current	50A nom., 125A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 50A for 100 ohm load	0.100 V/A
Volt per Amp Ratio at 5A for 100 ohm load	0.098 V/A
DC Resistance at 20°C	49.3 ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	Date Code (W/Y) AC1050, Dot at start pin
Approximate Weight	47.3 grams
Tolerance	±0.2mm



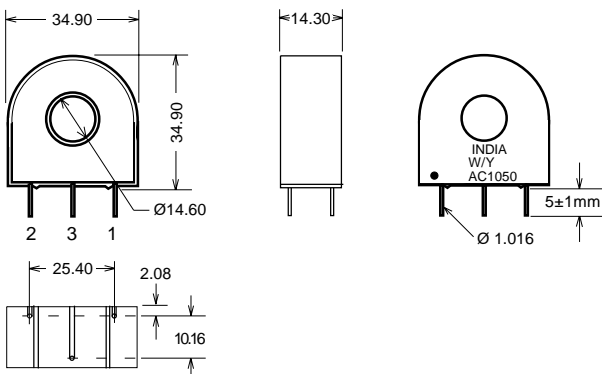
Environmental Specifications

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

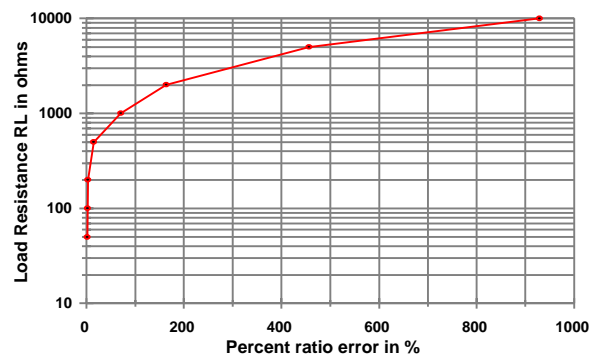
Output Volts vs Input Current
For various ohmic loads



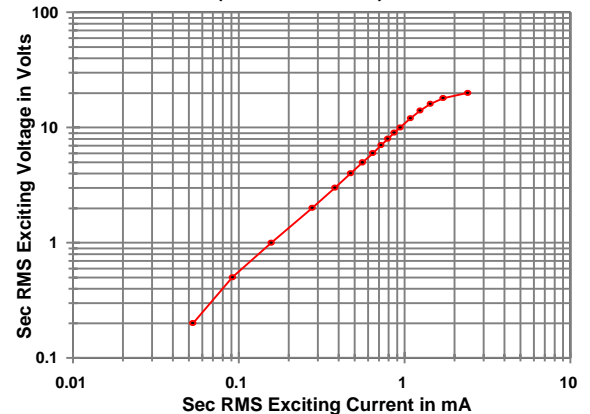
Dimensions



%RE vs RL at Rated primary current
(AC1050)

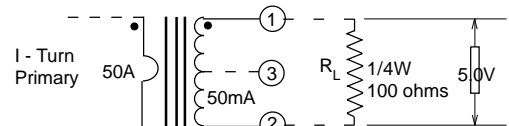


Typical Excitation Curve
(AC1040~AC1050)



Notes:

- 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



AC1060 • 60 Amp Current Transformer

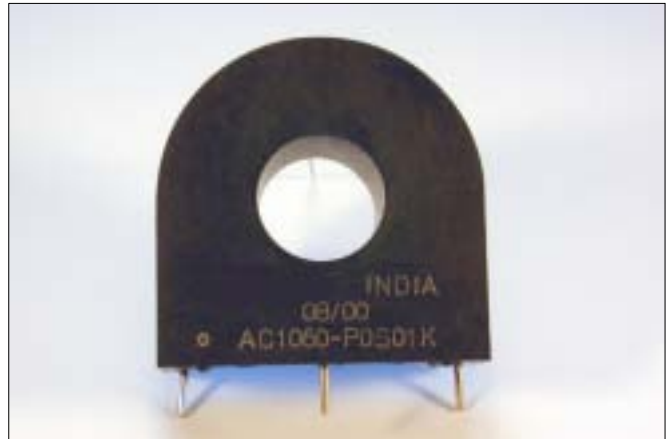
Low Cost 50/60Hz Current Transformers

Applications

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

Electrical Specifications @ 20°C ambient

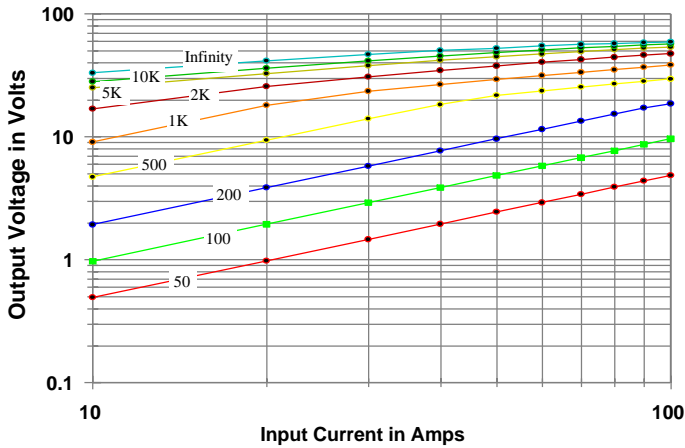
Electrical Specifications	
Primary Current	60A nom., 200A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 60A for 100 ohm load	0.100 V/A
Volt per Amp Ratio at 6A for 100 ohm load	0.0984 V/A
DC Resistance at 20°C	24 ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	Date Code (W/Y) AC1060, Dot at start pin
Approximate Weight	65.2 grams
Tolerance	±0.2mm



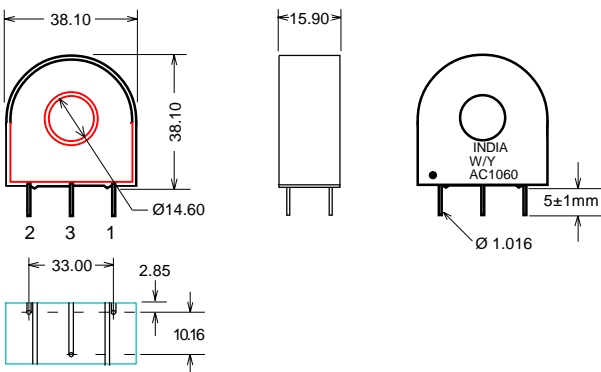
Environmental Specifications

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

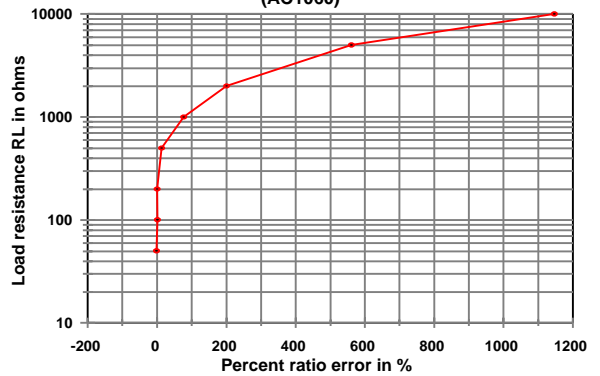
Output Volts vs Input Current
For various ohmic loads



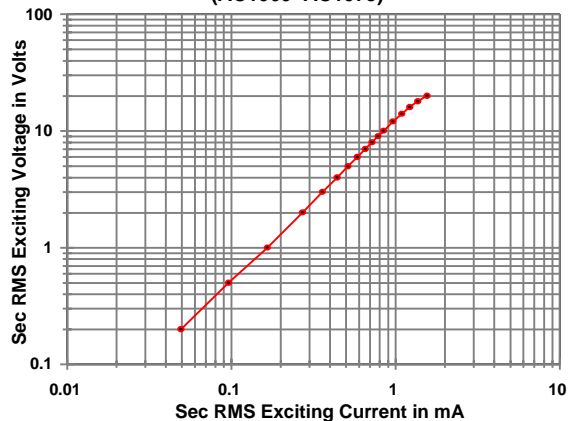
Dimensions



%RE vs RL at Rated primary current
(AC1060)

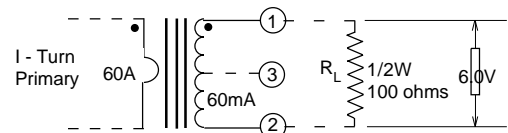


Typical Excitation Curve
(AC1060-AC1075)



Notes:

- 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



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

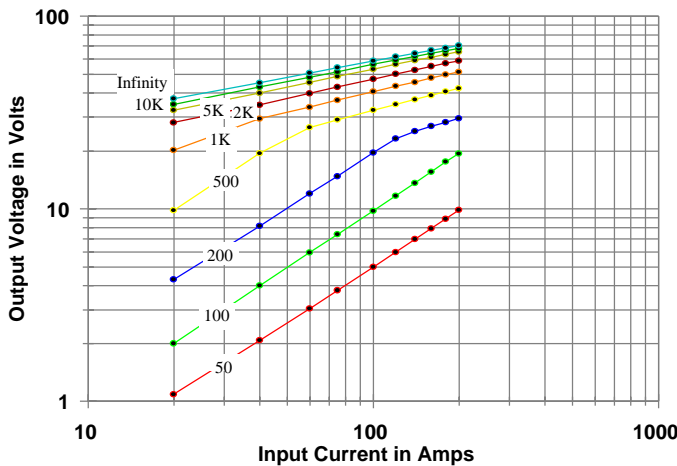
Electrical Specifications	
Primary Current	75A nom., 200A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 75A for 100 ohm load	0.100 V/A
Volt per Amp Ratio at 7.5A for 100 ohm load	0.0984 V/A
DC Resistance at 20°C	24 ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	Date Code (W/Y) AC1075, Dot at start pin
Approximate Weight	65.2 grams
Tolerance	±0.2mm



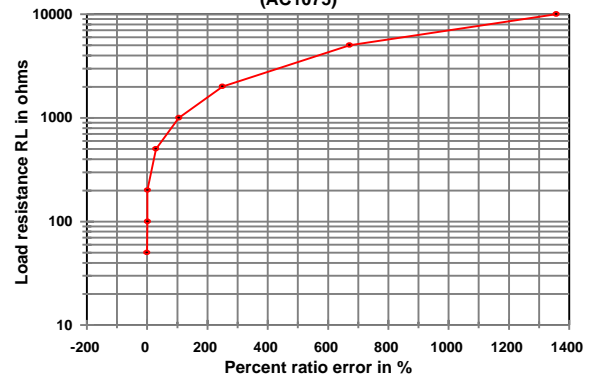
Environmental Specifications

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

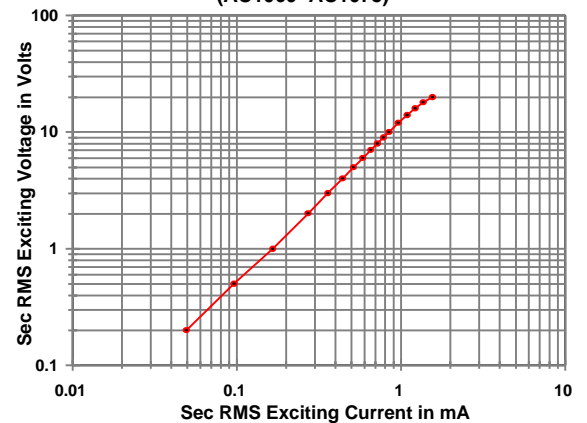
Output Volts vs Input Current
For various ohmic loads



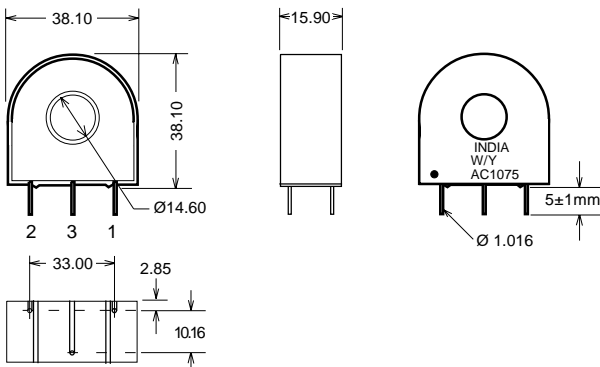
%RE vs RL at Rated primary current
(AC1075)



Typical Excitation Curve
(AC1060~AC1075)

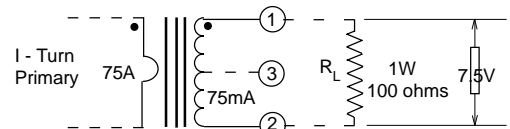


Dimensions



Notes:

- 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



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

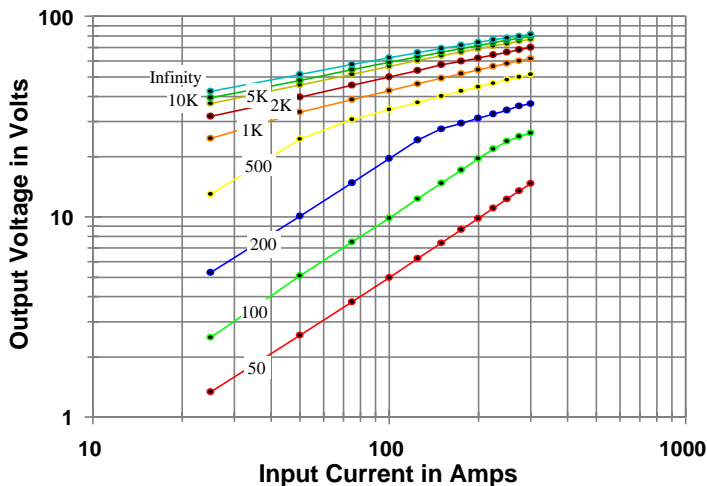
Electrical Specifications	
Primary Current	100A nom., 250A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 100A for 100 ohm load	0.100 V/A
Volt per Amp Ratio at 10A for 100 ohm load	0.0986 V/A
DC Resistance at 20°C	21.3 ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	Date Code (W/Y) AC1100, Dot at start pin



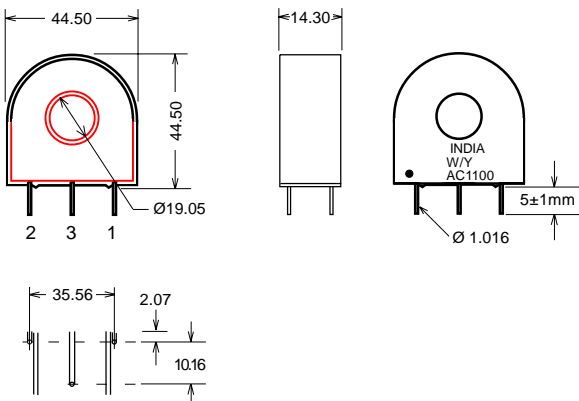
Environmental Specifications

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

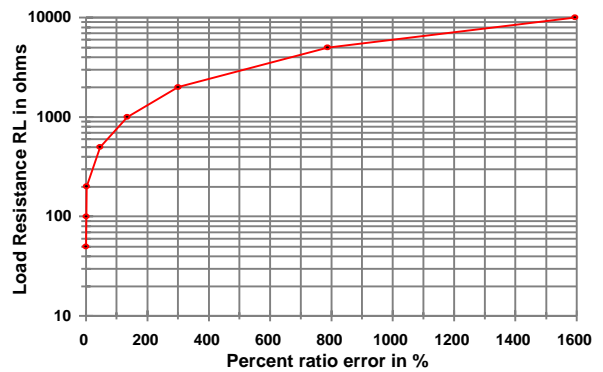
Output Volts vs Input Current For various ohmic loads



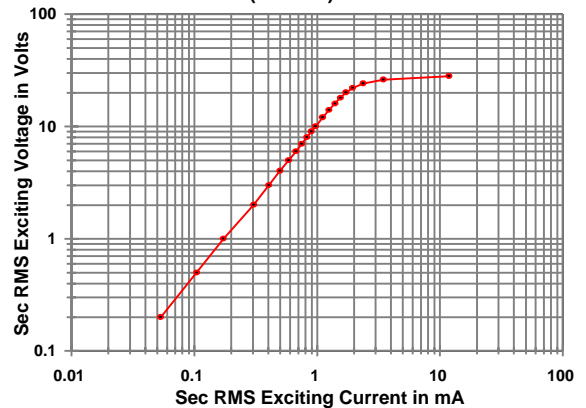
Dimensions



%RE vs RL at Rated primary current (AC1100)

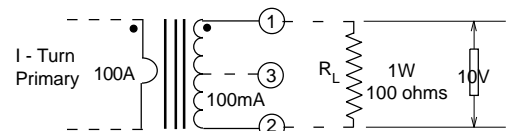


Typical Excitation Curve (AC1100)



Notes:

- 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



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

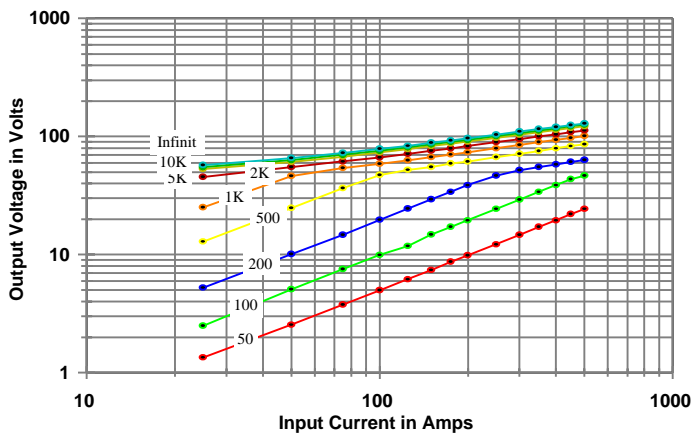
Electrical Specifications	
Primary Current	150A nom., 500A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 150A for 100 ohm load	0.100 V/A
Volt per Amp Ratio at 15A for 100 ohm load	0.0990 V/A
DC Resistance at 20°C	11 ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms
Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	Date Code (W/Y) AC1150, Dot at start pin
Approximate Weight	150 grams
Tolerance	±0.2mm



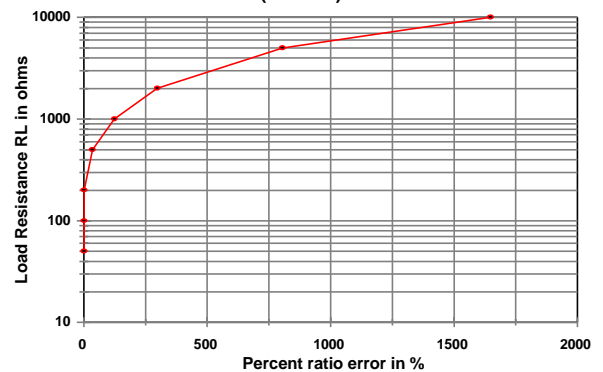
Environmental Specifications

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

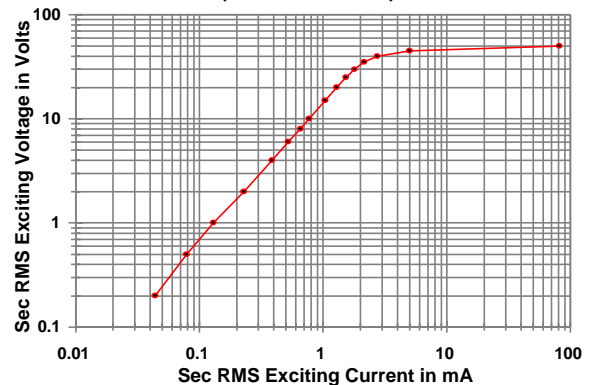
Output Volts vs Input Current
For various ohmic loads



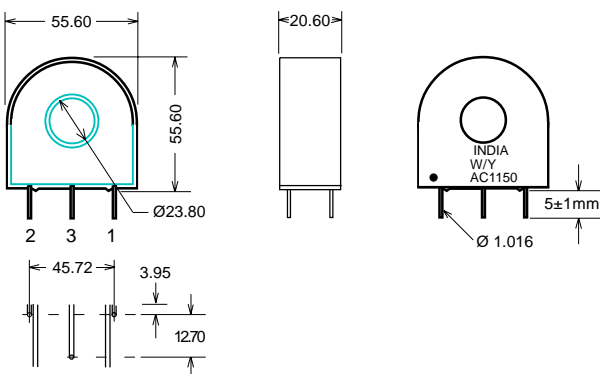
%RE vs RL at Rated primary current
(AC1150)



Typical Excitation Curve
(AC1150~AC1200)

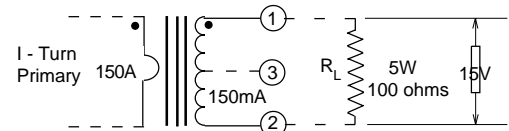


Dimensions



Notes:

- 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

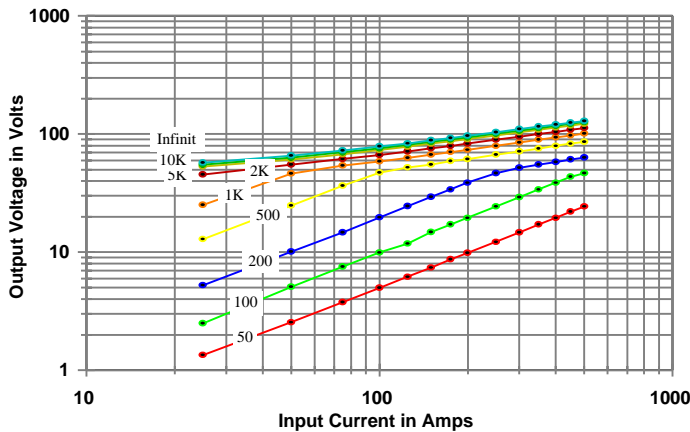
Electrical Specifications @ 20°C ambient

Electrical Specifications	
Primary Current	200A nom., 500A max.
Turns Ratio	1000:1 nominal
Load 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	Epoxy
Flammability	Conforms to UL94-VO
Terminals	Pins Ø 1.0mm
Marking	Date Code (W/Y) AC1200, Dot at start pin
Approximate Weight	150 grams
Tolerance	±0.2mm

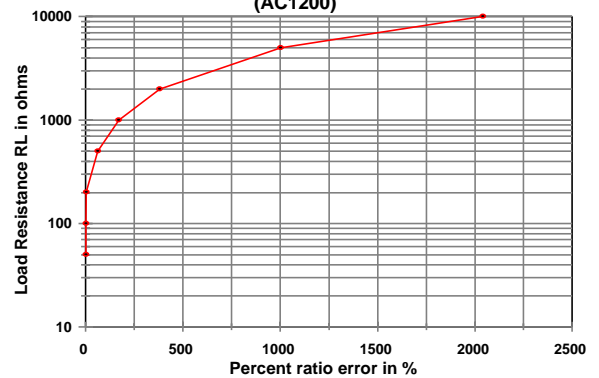


Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.

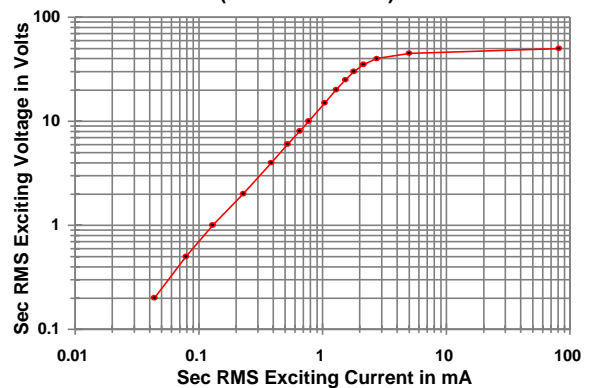
Output Volts vs Input Current
For various ohmic loads



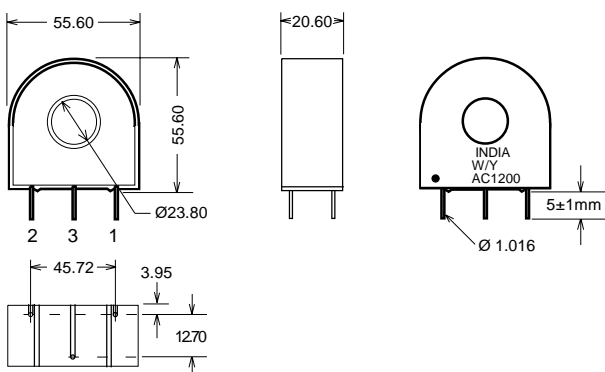
%RE vs RL at Rated primary current (AC1200)



Typical Excitation Curve (AC1150~AC1200)

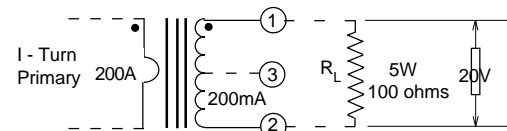


Dimensions



Notes:

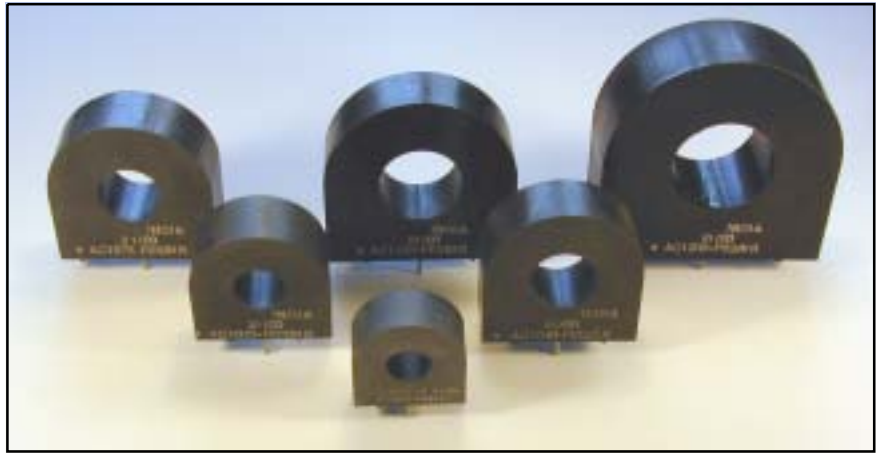
- 1) Unless requested, the terminating resistor and the one-turn primary are not supplied
- 2) Pin 3: Normally for mechanical support only but will be used on center tapped designs



**Summary
TOTAL PROGRAM**

SECTION 1

- Toroidal Transformers for Universal Application



SECTION 2

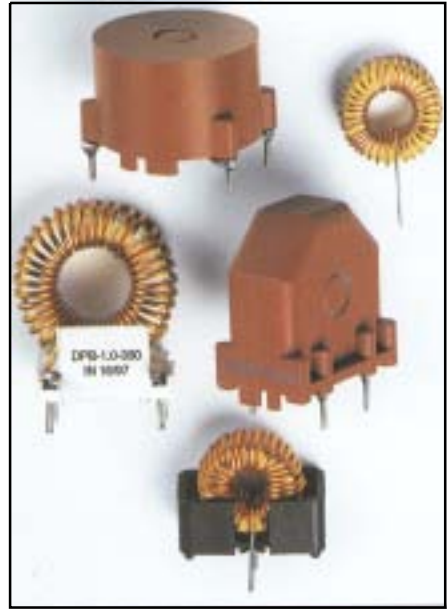
- Toroidal Printed Circuit Transformers

SECTION 3

- Eleven Good Reasons To Select Amveco Toroidal Transformers

SECTION 4

- Current sense inductors and transformers
- Common mode toroidal chokes
- High capacity linear storage chokes
- Toroidal filter and storage chokes
- Differential mode toroids
- Power inductors
- High stability storage chokes
- Miniature, high current, surface mount inductors
- Low power, high stability inductors



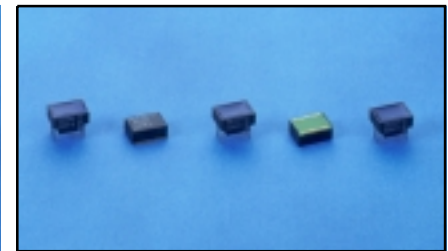
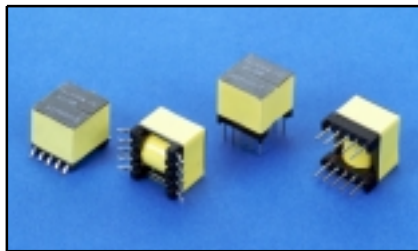
SECTION 5

- Inductive components for ISDN and data communications
- Interface signal transformers and modules - toroidal and linear
- Isolation and coupling transformers
- Pulse transformers



SECTION 6

- SMD and DIL Common mode interface chokes for EMI Noise Suppression
- Data and Signal Line Filters



SECTION 7

- 50/60Hz Current Transformers for sensing current overload. Primary current ratings from 1 to 200 Amps.
- Current Sense Inductors and Transformers for frequency ranges from 20kHz to 200kHz. Primary current ratings to 80 Amps

