

AC Series • Current Transformer Quick Reference Guide

Low Cost 50/60Hz Current Transformers

Applications

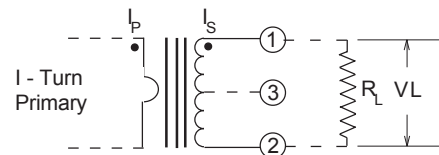
- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

Features

- Excellent quality at extremely competitive price due to high volume production
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant



Schematic



Electrical Specifications at 20°C

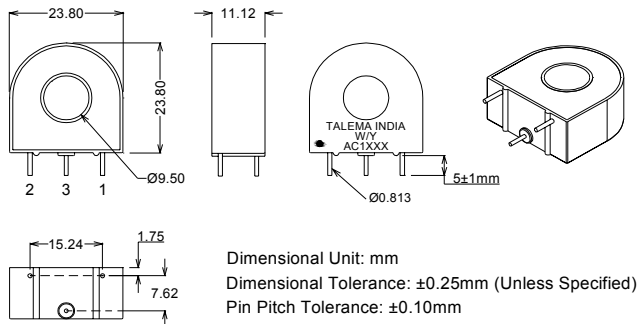
AC Series • Standard Accuracy Current Transformers

Part No.	Primary Current I_p Amps	Turns Ratio	Terminating Resistor R_L		DCR (Ohms)	RCF @ 10%	Volts/Amp @ rated I_p for various loads (Ohms)					μ Arms	Vrms	Net Weight (grams)	Case Dimensions - mm					
			Ohms	Watt	Nominal		100	500	2K	5K					L	ID	H	W	C	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	--	--	--	--	--	--	--
AC1010	10	1000:1	100	0.0100	41.80	1.010	0.10	0.45	1.10	1.42	386	1.32	16.3	--	--	--	--	--	--	--
AC1015	15	1000:1	100	0.0230	41.80	1.010	0.10	0.45	0.90	1.12	513	1.99	16.3	--	--	--	--	--	--	--
AC1020	20	1000:1	100	0.0400	41.80	1.010	0.10	0.43	0.76	0.93	628	2.65	16.3	--	--	--	--	--	--	--
AC1025	25	1000:1	100	0.0630	48.00	1.020	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	49.30	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	49.30	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	

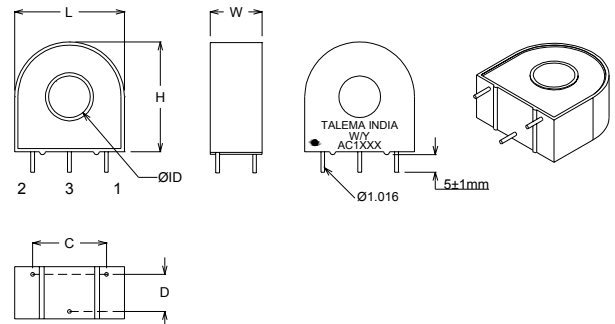
RCF : Ratio correction factor - Multiply current readings by this factor to compensate for transformer losses

Mechanical Drawing

AC1005 - AC1020



AC1025 - AC1200



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

Dimensional Unit: mm
Dimensional Tolerance: ±0.25mm (Unless Specified)
Pin Pitch Tolerance: ±0.10mm

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