



wattwatchers
DIGITAL ENERGY

CT Specifications

July 2023 - Version 1.2

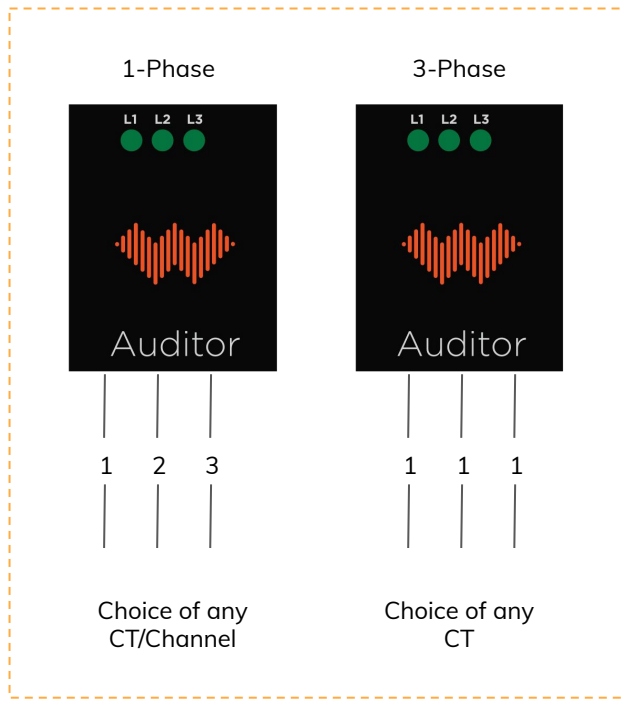
Version control

This document contains technical and configuration specifications for all Auditor CT options.

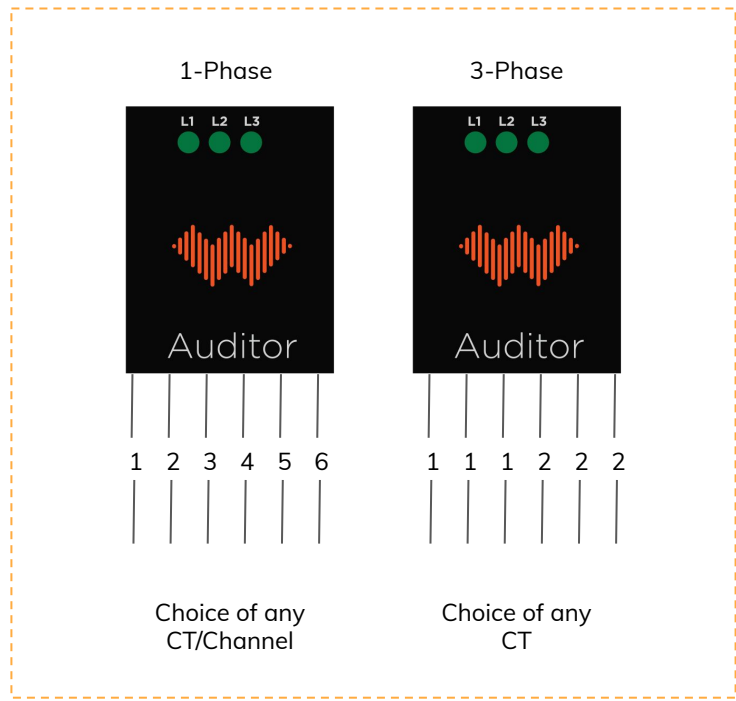
Version 1.0	Initial release - November 2016
Version 1.1	Updated images
Version 1.2	Updated images and information – Jul-2023



Auditor 3



Auditor 6



60 Amp Split-core Current Transformer

Electrical Specifications

Rated primary current (Amp.) 50/60 Hz	60nom (1~75A max)
Turn ration	Np:Ns = 1:750
Current ratio	60A/80mA
Accuracy @RL ≤ 1Ω	1%
Phase error at rated current range	≤ 2°
Operating temperature range	-40 ~ 65°C
Storage temperature range	-40 ~ 65°C
Dielectric Withstanding Voltage (Hi-pot)	2.5KV/1mA/1min
Insulation resistance	DC500V/100MΩ min

Mechanical Specifications

CUP	PBT
To suit cables	< 10mm diameter
Output Type	UL2464 24AWG white jacket PVC wire
Approximate Weight	60g



Material List

No	Item	Description	UL Card	Material	Note
1	Core	UU20.6	/	Ferrite Core	
2	Case	PP6331	E85783	PP	
3	Bobbin	D202G15	E107536	PBT	
4	Wire	2UEW	E164502	UEW/U	
5	Lead Wire	UL2464/24AWG	E301305	PVC	1.8m white jacket double insulation
6	Solder	99.3%	/	Sn	



120 Amp Split-core Current Transformer

Electrical Specifications

Rated primary current (Amp.) 50/60 Hz	120A
Turn ration	Np:Ns = 1:1200
Current ratio	120A/100mA
Accuracy @RL $\leq 1\Omega$	0.5%
Phase error at rated current range	$\leq 1^\circ$
Operating temperature range	-40 ~ 70°C
Storage temperature range	-45 ~ 85°C
Dielectric Withstanding Voltage (Hi-pot)	2.5KV/1mA/1min 5kVp
Insulation resistance	DC500V/100M Ω min

Mechanical Specifications

CUP	PA66 (UL64-V0)
To suit cables	< 16mm diameter
Output Type	UL2464 24AWG white jacket PVC wire
Approximate Weight	100g



Material List

No	Item	Description	UL Card	Material	Note
1	Core		/	Ferrite Core	
2	Housing	PA66	E135714	PA66	
3	Bobbin	PBT3883	E107536	PBT	
4	Wire	2UEW	E164502	UEW/U	
5	Lead Wire	UL1015/24AWG	E301305	PVC	1.8m white jacket double insulation
6	Solder	99.3%	/	Sn	
7	Tape	Mylar	E178169	PET	

200 Amp Split-core Current Transformer

Electrical Specifications

Rated primary current (Amp.) 50/60 Hz	200A
Turn ration	Np:Ns = 1:2000
Current ratio	200A/100mA
Accuracy @RL $\leq 1\Omega$	0.5%
Phase error at rated current range	$\leq 1^\circ$
Operating temperature range	-40 ~ 65°C
Storage temperature range	-45 ~ 85°C
Dielectric Withstanding Voltage (Hi-pot)	2.5KV/1mA/1min 5kVp
Insulation resistance	DC500V/100M Ω min

Mechanical Specifications

CUP	PA66 (UL64-V0)
To suit cables	< 22mm diameter
Output Type	UL2464 24AWG white jacket PVC wire
Approximate Weight	240g



Material List

No	Item	Description	UL Card	Material	Note
1	Core		/	Ferrite Core	
2	Housing	PA66	E135714	PA66	
3	Bobbin	PBT3883	E107536	PBT	
4	Wire	2UEW	E164502	UEW/U	
5	Lead Wire	UL1015/24AWG	E301305	PVC	1.8m white jacket double insulation
6	Solder	99.3%	/	Sn	
7	Tape	Mylar	E178169	PET	



400 Amp Split-core Current Transformer

Electrical Specifications

Rated primary current (Amp.) 50/60 Hz	400A (1 - 480A)
Turn ration	Np:Ns = 1:4000
Current ratio	400A/100mA
Accuracy @RL $\leq 1\Omega$	0.5%
Phase error at rated current range	$\leq 1^\circ$
Operating temperature range	-40 ~ 70°C
Storage temperature range	-45 ~ 85°C
Dielectric Withstanding Voltage (Hi-pot)	4KV/1mA/1min 5kVp
Insulation resistance	DC500V/100M Ω min

Mechanical Specifications

CUP	PC/ABS (UL94/V0)
To suit cables	< 25mm
Output Type	UL2464 24AWG white jacket PVC wire
Approximate Weight	185g



Material List

No	Item	Description	UL Card	Material	Note
1	Core	UU41	/	Silicon Steel	
2	Case	PP6331	E85783	PC/ABS	
3	Bobbin	D202G15	E107536	PBT	
4	Wire	2UEW	E164502	UEW/U	
5	Lead Wire	UL2464/24AWG	E301305	PVC	1.8m white jacket double insulation
6	Diode	6.8V	/	P6KE6.8CA	
7	Solder	99.3%	/	Sn	



600 Amp Split-core Current Transformer

Electrical Specifications

Rated primary current (Amp.) 50/60 Hz	600A (1 - 720A)
Turn ration	Np:Ns = 1:6000
Current ratio	600A/100mA
Accuracy @RL $\leq 1\Omega$	0.5%
Phase error at rated current range	$\leq 1^\circ$
Operating temperature range	-40 ~ 70°C
Storage temperature range	-45 ~ 85°C
Dielectric Withstanding Voltage (Hi-pot)	2.5KV/1mA/1min 5kVp
Insulation resistance	DC500V/100M Ω min

Mechanical Specifications

CUP	PA66
To suit cables	< 36mm
Output Type	UL2464 24AWG white jacket PVC wire
Approximate Weight	300g



Material List

No	Item	Description	UL Card	Material	Note
1	Core	UU64	/	Silicon Steel	
2	Case	PP66	E235269	PA66	
3	Bobbin	D202G15	E107536	PBT	
4	Wire	2UEW	E164502	UEW/U	
5	Lead Wire	UL2464/24AWG	E301305	PVC	1.8m white jacket double insulation
6	Diode	7.5V	/	P6KE7.5CA	
7	Solder	99.3%Sn0.7%Cu	/	Sn	



Electrical Specifications

Rated primary current (Amp.) 50Hz	3kA
Rated primary current (Amp.) 60Hz	2.5kA
Accuracy @RL ≤ 1Ω	1%
Operating temperature range	-40 ~ 70°C
Storage temperature range	-45 ~ 85°C
Dielectric Withstanding Voltage (Hi-pot)	2.5KV/1mA/1min 5kVp
Insulation resistance	600Vrms (Category IV), 1000Vrms (Category III)



Mechanical Specifications

Color	Yellow
Construction	Fully shielded, excellent adjacent field rejection
Coil Diameter	8mm
Coil Length	350mm
Coil Openings	90mm, 200mm, and 290mm
Cable	2 x 0.15mm + shield, 2m long
Approx. Weight	150g includes 2m cable

Environmental Specifications

Operating Temperature	-30 to +80°C
Protection	IP67

Standards Compliance

Operating Temperature	EN61010-1, EN61010-031, EN61010-2-031, EN61010-2-032
-----------------------	--

