## NEW

# CONTROL CIRCUIT

c3controls' line of Control Circuit Transformers are well-designed and optimized devices to cater not only to residential and commercial HVAC/Building Management Systems (BMS) but also a wide range of industrial applications. Due to the innovative design approach, you would find these products at never-seen-before prices. Check out all the features this line has to offer.



### **PROVEN**



**Conformity to Standards:** UL 5085-3, UL 5085-2 CSA C22.2 No.66.3, CSA C22.2 No IEC 61558

### Certifications:

- UL File#: E533585, (Guide XOKV, XOKV7), E541700 (Guide XPTQ, XPTQ7) CE Marked (per EU Low Voltage Directive
  - 2014/35/EC and RoHS Directive 2015/863/EU)

# CONTROL CIRCUIT TRANSFORMERS

Discover c3controls' exceptional line of Control Circuit Transformers, meticulously engineered to meet the needs of residential and commercial HVAC/Building Management Systems (BMS), as well as a wide array of industrial applications. Our innovative design approach not only ensures top-tier performance but also introduces these products at unprecedented, budget-friendly prices. Dive into the rich tapestry of features that this product line unfolds, and experience excellence like never before.

### DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE

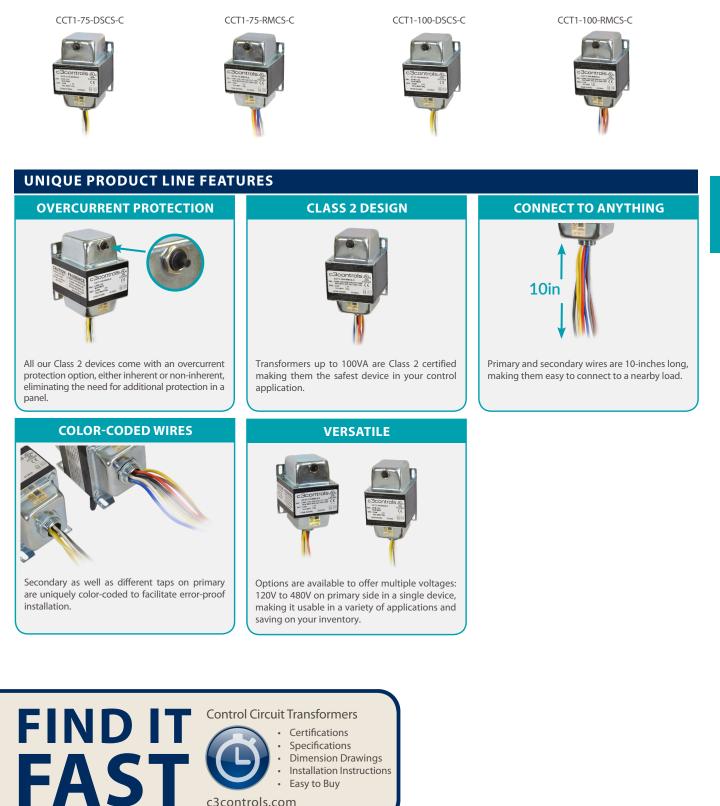
√ Proven	Our Series CCT Control Circuit Transformers are UL Listed and CE marked to meet global standards requirements and are compliant to the RoHS directives.
✓ Enviromentally Secure	Designed and tested for ensuring operation in extreme temperatures, to keep your application running.
✓ Easy to Install	Panel-mountable with four screws, one in each corner, for fast and simple installation as well as reliability in vibrating environments.
✓ Added Safety	The transformer windings are enclosed, providing much needed safety for a critical application.
✓ Visible Certifications	Our product certifications and electrical ratings are clearly marked on the outside of the device for easy reference during installation.
Limited Lifetime Warranty*	Every product is backed by our limited lifetime warranty—unmatched in the industry— bringing you quality components that perform in the most demanding applications.
✓ Guaranteed Same-Day Shipping*	Product availability reduces inventory and improves cash-flow—saving you money. With c3controls any order for standard catalog items received by 6:00pm ET is guaranteed to ship same day.
✓ Advantage Pricing	Our approach to product development, manufacturing, and focus on servicing the OEM and Electrical Equipment Builder reduces cost. The result—the best value in the industry.

\*See c3controls Terms & Conditions

series

### / CONTROL CIRCUIT TRANSFORMERS





Easy to Buy

c3controls.com

Everything under control :: c3controls Section 34 | 3



CODE

Ρ

R

DESCRIPTION

277/240/208/120 (P-277V)

480/277/240/208/120 (R-480V)

120V

### CONTROL TO BUILD YOUR OWN EASY CIRCUIT sol:

Simply pick the code number from each of the sections below and combine them to build your part number.

### **Control Circuit Transformers**

Example: To build one of our most popular Control Circuit Transformers, the part number would be CCT1 + II + III + IV + C + S + VII or CCT1-100-DSCS-C

I. PRODUCT TYPE						
CODE	DESCRIPTION					
CCT1	Control Circuit Transformer					
	II. VOLT - AMPERES					
CODE	DESCRIPTION	LIST				
20	20	\$ 12.40				
40	40	\$ 20.50				
50	50	\$ 32.00				
75	75	\$ 45.00				
100	100	\$ 56.40				
150	150	\$ 82.00				
240	240	\$162.00				
300	300	\$188.00				

III. VOLTAGE (PRIMARY)

20, 40

	IV. TAPS (PRIMARY)		
CODE DESCRIPTION FOR VOLTAGE (PRIMARY) CODES		FOR VOLTAGE (PRIMARY) CODES	
S	Single	D	
М	Multiple	P, R	

V. VOLTAGE (SECONDARY)

VI. TAPS (SECONDARY)

	II. VULI - I	AMPERES				
DESCRIPTION			LIST		V.	,
20			\$ 12.40	CODE	DESCRIPTION	
40			\$ 20.50	С	24	
50			\$ 32.00			_
75			\$ 45.00			//
100			\$ 56.40	CODE	DESCRIPTION	
150			\$ 82.00	S	Single	-
240			\$162.00	5	Siligle	_
300			\$188.00			

FOR VOLT-AMP CODES

50, 75, 100, 150, 240, 300

20, 40, 50, 75, 100, 150, 240, 300

CODE	DESCRIPTION		
S	Single		
	VII. PROTECTION TYPE		
CODE	DESCRIPTION	FOR VOLT-AMP CODES	LIST
N	None	150, 240, 300	
I.	Inherently Protected	20, 40	\$10.00
F	Fuse	50	\$11.00
С	Circuit Breaker	50, 75, 100,150, 240, 300	\$15.00



### Some of Our Popular Configurations:

CONTROL CIRCUIT TRANSFORMERS		
CATALOG NUMBER	DESCRIPTION	LIST
CCT1-100-RMCS-C	100VA, Primary 480/277/240/208/120V, Secondary 24V, Circuit Breaker Protection, UL 5085-3 (Class 2)	\$93.40
CCT1-100-DSCS-C	100VA, Primary 120V, Secondary 24V, Circuit Breaker Protection, UL 5085-3 (Class 2)	\$79.40
CCT1-50-RMCS-C	50VA, Primary 480/277/240/208/120V, Secondary 24V, Circuit Breaker Protection, UL 5085-3 (Class 2)	\$69.00
CCT1-40-DSCS-I	40VA, Primary 120V, Secondary 24V, Inherently Protected, UL 5085-3 (Class 2)	\$38.50

LIST

\$ 8.00

\$16.90

\$22.00

ONTROL

**C**IRCUIT **T**RANSFORMERS

### CONTROL CIRCUIT TRANSFORMERS

c3controls offers a comprehensive range of Control Circuit Transformers (CCT) designed with precise attention to detail, to cater to a wide array of applications. Whether it's residential and commercial HVAC systems, Building Management Systems (BMS), or the intricate demands of complex industrial environments, we offer a variety of options spanning from 20 to 300VA, featuring a 10-inch-long wire for seamless connectivity, having them color-coded for easy identification. These devices offer flexible primary voltage options ranging from 120 to 480V, with 24V secondary. Additionally, devices up to 100VA are Class 2, equipped with built-in overcurrent protection

Product features include:

- Engineered for high efficiency, minimizing energy loss during conversion & isolation.
- Built with high-quality materials to withstand harsh environmental conditions & rigorously tested to meet the highest UL safety standards, ensuring industry-leading safety for your peace of mind.
- Equipped with an integrated grounding system for an additional layer of safety.
- Select models feature manual resettable circuit breakers, offering both protection and reliability. This feature enhances reusability, a capability not found in transformers with fuse or no protection.
- Designed with a space-saving footprint, allowing for installation in constrained environments.
- Designed with lead wires emanating from a single hub, allowing for easy connection to conduit for a secure and stable setup.
- Versatile for Class 2, Class 3, and general-purpose applications, with the added ability to accommodate a wide range of North American European voltages/frequencies. This universality makes them an adaptable energy source for various settings.
- Transformers are foot-mount, using M4 screws and are equipped with a 0.5" NPT hub which is compatible with both steel and PVC conduits.

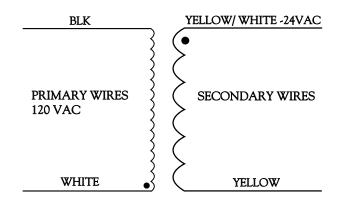


### **SPECIFICATIONS:**

ELECTRICAL/ GENERAL		
LECTRICAL CENERAL	UNITS	
Dating	VA	20 40 50 75 100 150 240 200
Rating	VA	20, 40, 50, 75, 100, 150, 240, 300
RATED VOLTAGE		
Primary	V	480/277/240/208/120
Secondary	V	24
OVERCURRENT PROTECTION		Inherently Protected, Fuse, Circuit Breaker, None (For Models Above 100VA)
MTBF	Hours	100,000
POWER FREQUENCY WITHSTAND		
VOLTAGE		
Primary		2.5kV RMS for 1 minute
Secondary	V	2.5kV RMS for 1 minute
ENVIRONMENTAL		
Operating Temperature	°C/°F	-34 to +60 / -30 to +140
WIRING		
Wire Size	AWG	16
Wire Length	Inch	10 (with 0.5-inches stripped)
COMPLIANCE		
Up to 100VA		UL 5085-3 (Class 2)
150VA and above		UL 5085-2
ROHS COMPLIANCE		For RoHS compliance documentation by product, refer to c3controls.com

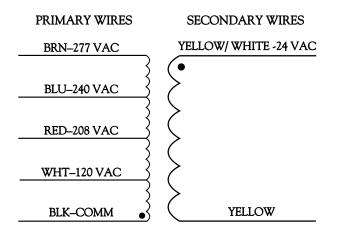


### CCT1-XX-DSCS-X



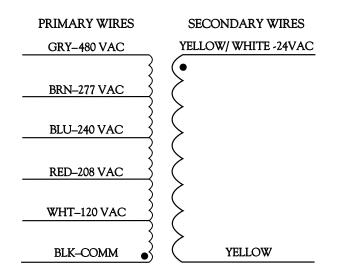
### SECONDARY YEL/'WHT WIRE IN PHASE WITH PRIMARY BLACK WIRE

### CCT1-XX-PMCS-X



### SECONDARY YEL/WHT WIRE IN PHASE WITH PRIMARY BLACK WIRE

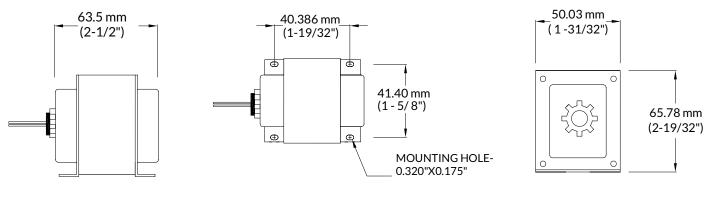
### CCT1-XX-RMCS-X



### SECONDARY YEL/WHT WIRE IN PHASE WITH PRIMARY BLACK WIRE



### CCT1-20-DSCS-I

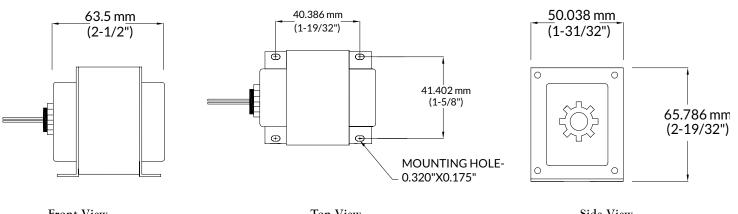


Front View

Top View



### CCT1-20-PMCS-I

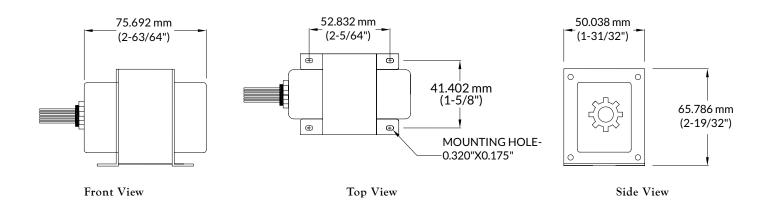


Front View

Top View

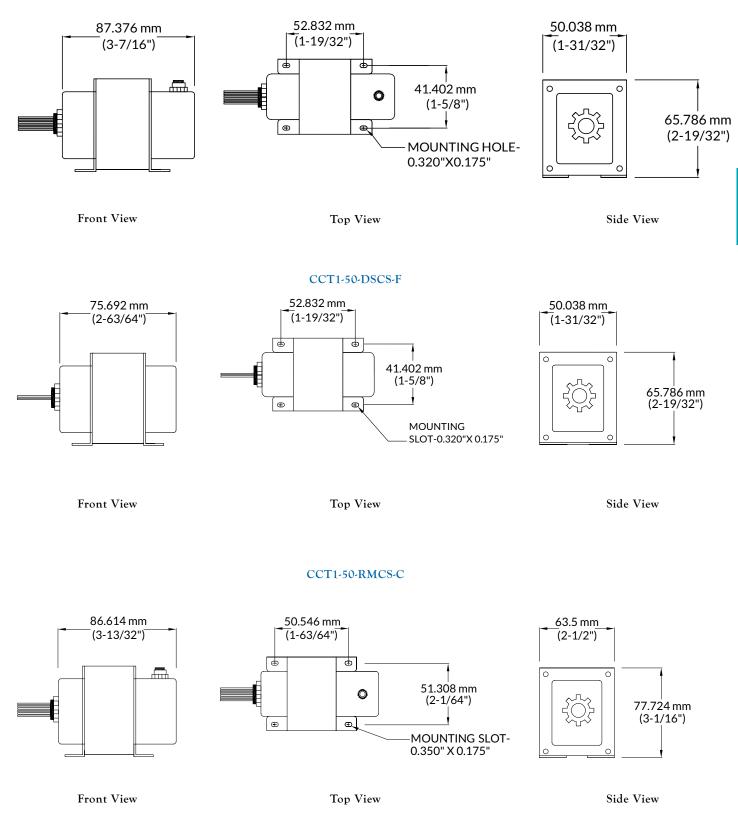
Side View

CCT1-40-DSCS-I / CCT1-40-PMCS-I





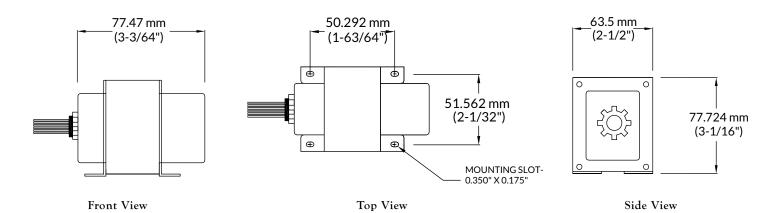




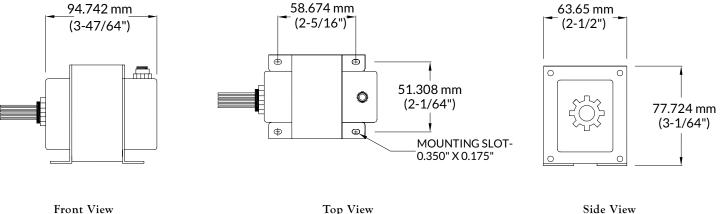
CONTROL CIRCUIT TRANSFORMERS



### CCT1-50-RMCS-F



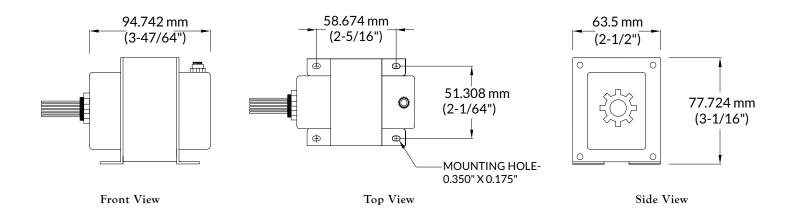
### CCT1-75-DSCS-C



Front View

Top View

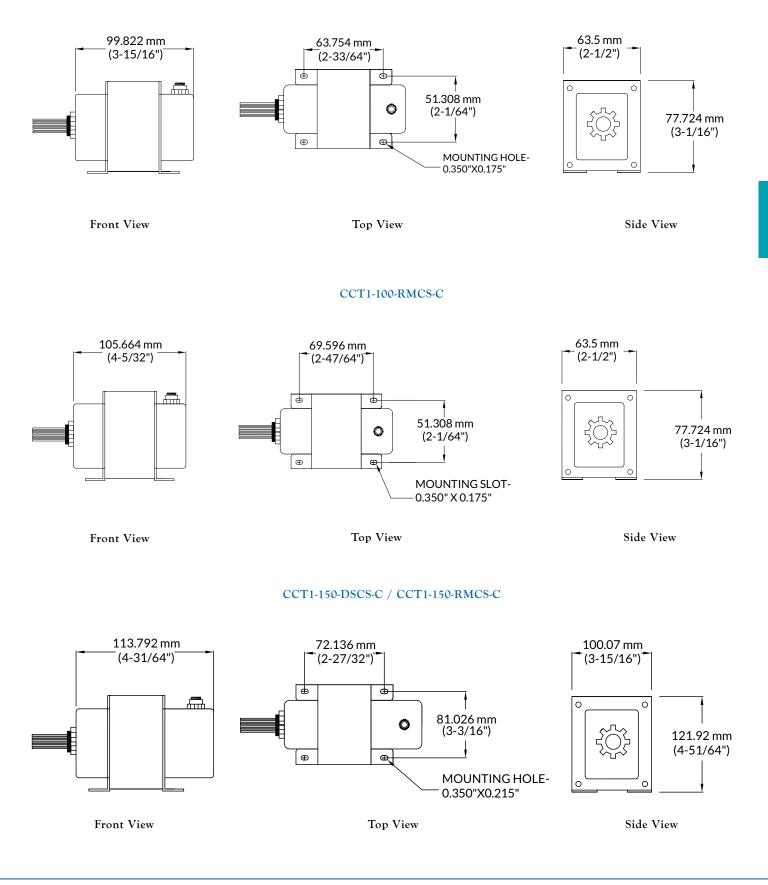
### CCT1-75-RMCS-C





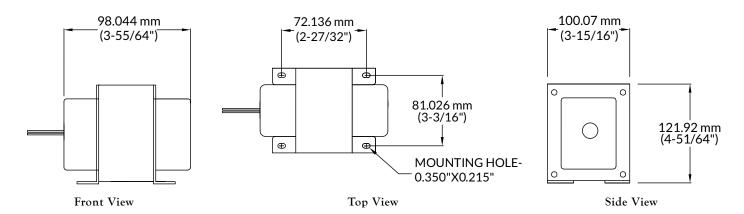
**C**ONTROL **C**IRCUIT **T**RANSFORMERS

### CCT1-100-DSCS-C

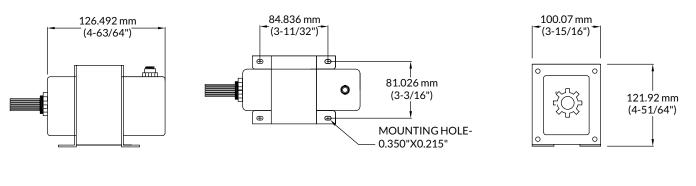




### CCT1-150-DSCS-N / CCT1-150-RMCS-N



### CCT1-240-DSCS-C

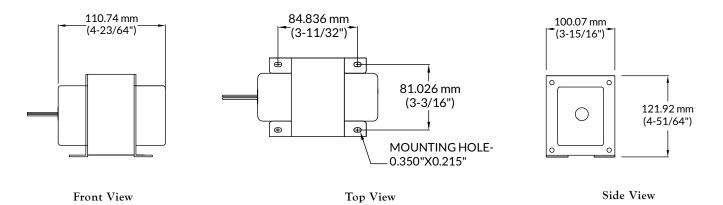


Front View

Top View

Side View

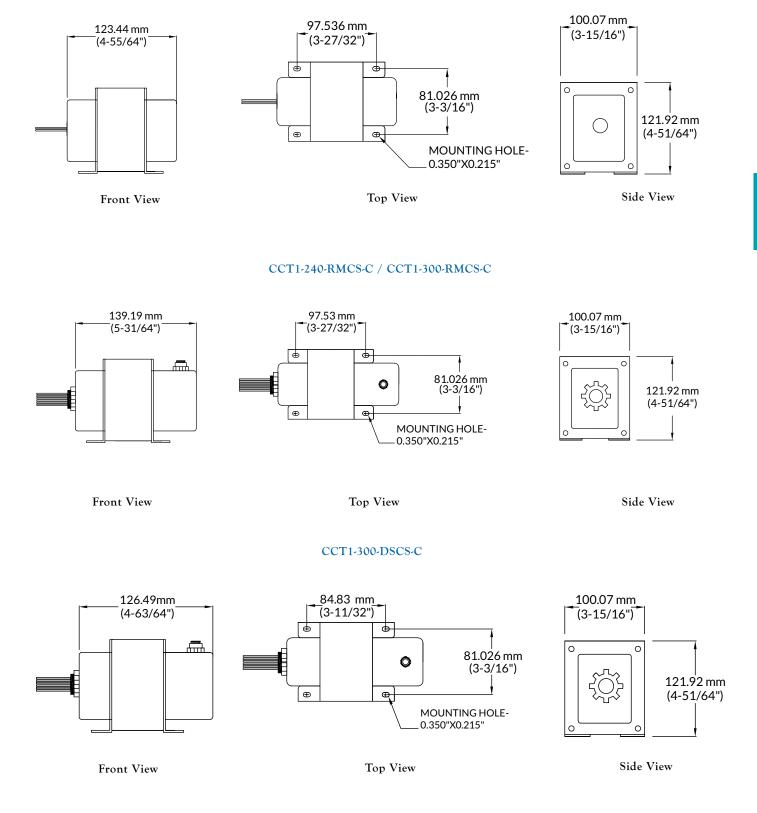
### CCT1-240-DSCS-N / CCT1-300-DSCS-N



### CCT

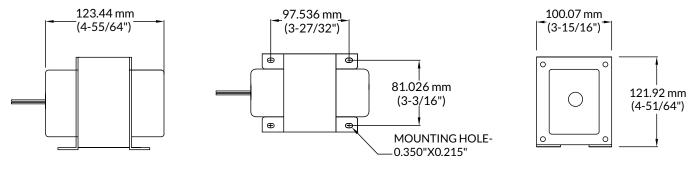
**C**ONTROL **C**IRCUIT **T**RANSFORMERS

### CCT1-240-RMCS-N





### CCT1-300-RMCS-N



Front View

Top View

Side View

### VISIT C3CONTROLS.COM TO Download cad drawings