

CONTROL POWER TRANSFORMERS



SERIES CPT PRODUCT PROFILE

c3controls' Series CPT **Control Power Transformers** are open-type control transformers ranging from 50 to 5000VA with reliable output voltage stability and designed for lower inrush applications (Lighting, Motor Control, Circuit Isolation, etc). These transformers are commonly preferred solutions to power control circuits including: PLCs, protective relays, meters, control panels, and other auxiliary devices. Additionally, they are widely used in electrical substations, data centers, and other power systems.



DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE

✓ Proven	Our Control Power Transformers are certified to UL Standards and CE marked for global versatility. 
✓ Easy to Install	Panel-mountable with four screws, one in each corner, for fast and simple installation as well as reliability in vibrating environments.
✓ Simple Wiring	Integrated molded terminal blocks, equipped with IP20 protection, facilitate simplified wiring and safeguard against accidental contact with the power source.
✓ 36-Month Warranty*	Every product is backed by our 36-Month Warranty—giving you confidence in the quality, reliability, and performance of components designed for 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 the 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

UNIQUE FEATURES

Wide Range of VA Ratings

- Available in multiple VA ratings from 50VA to 5000VA.

Ease of Wiring

- Integrated terminal blocks and a finger-safe terminal guard, with IP20 protection on primary as well as secondary sides.

Clear Terminal Identification

- Improved terminal identification through clear labeling helps save time.

Class H

- Each transformer variant features a Class H insulation system, ensuring the highest level of safety for your control application.

Dual Frequency Rating

- With a versatile dual frequency rating of 50/60Hz, these products are well-suited for global applications.

Fuse Mounting Accessory

- An optional fuse block adapter kit can be added to a variant up to 3000VA (or a variant having current up to 30A) for overcurrent protection, applicable for both primary and secondary sides of the transformer.



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REVISION 07. 2026



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SPECIFICATIONS

CONTROL POWER TRANSFORMERS													
	UNITS												
ELECTRICAL GENERAL													
Rating	VA	50, 75, 100, 150, 250, 300, 500, 750, 1000, 1500, 2000, 3000, 5000											
Primary Voltage		220/230/240 440/460/480			240, 480		550/575/600			0, 208, 277		0, 380, 400, 415	200/208, 220/230/240, 440/460/480
Secondary Voltage	V	110/115/120, 220/230/240			24		110/115/120			120		110, 220	24/25/26 110/115/120
Frequency	Hz	50/60											
CURRENT RATINGS													
		Output Currents in Amp									Approx Heat Losses	Percentage Impedance (%Z)	
Output Voltage		24	25	26	110	115	120	220	230	240			
Rating in VA													
50		2.08	2	1.92	0.45	0.43	0.42	0.23	0.22	0.21	≤12W	10.30	
75		3.13	3	2.88	0.68	0.65	0.63	0.34	0.33	0.31	≤16W	7.67	
100		4.17	4	3.85	0.91	0.87	0.83	0.45	0.43	0.42	≤19W	7.74	
150		6.25	6	5.77	1.36	1.30	1.25	0.68	0.65	0.63	≤27W	6.93	
250		10.42	10	9.62	2.27	2.17	2.08	1.14	1.09	1.04	≤40W	4.23	
300		12.50	12	11.54	2.73	2.61	2.50	1.36	1.30	1.25	≤47W	4.20	
500		20.83	20	19.23	4.55	4.35	4.17	2.27	2.17	2.08	≤72W	4.53	
750		31.25	30	28.85	6.82	6.52	6.25	3.41	3.26	3.13	≤102W	3.50	
1000		40.00	38.40	36.92	8.73	8.35	8.00	4.55	4.35	4.17	≤130W	3.14	
1500		-	-	-	13.64	13.04	12.50	6.82	6.52	6.25	≤185W	3.09	
2000		-	-	-	18.18	17.39	16.67	9.09	8.70	8.33	≤222W	3.19	
3000		-	-	-	27.27	26.09	25.00	13.64	13.04	12.50	≤315W	3.76	
5000		-	-	-	45.45	43.48	41.67	22.73	21.74	20.83	≤500W	3.76	
ENVIRONMENTAL													
Max. Operating Temperature	°C / °F	40 / 104											
Insulation Temperature	°C / °F	180 / 356											
MOUNTING/ WIRING													
Mounting Position		Any											
Fastening Method		Surface Mounting											
Type of Electrical Connection at Input/ Output for Main Circuit		Screw Type Terminal (Touch Safe)											
TERMINAL CAPACITY													
Wiring Size													
50 - 3000VA	AWG	18~10											
5000VA	AWG	16~6											
Terminal Torque													
50 - 3000VA	N.m	1.2											
5000VA	N.m	1.2											
ROHS COMPLIANCE													
For RoHS compliance documentation by product, refer to c3controls.com.													

For complete ratings, detailed specifications, or to download product certifications visit c3controls.com.

CERTIFICATIONS

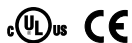
Conformity to Standards:

UL 5085-2
CSA C22.2 No.66.2
IEC 61558

Certifications:

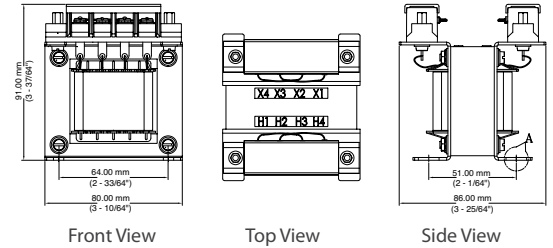
UL File#: E541700

CE Marked (per EU Low Voltage
Directive 2014/35/EC and
RoHS Directive 2015/863/EU)

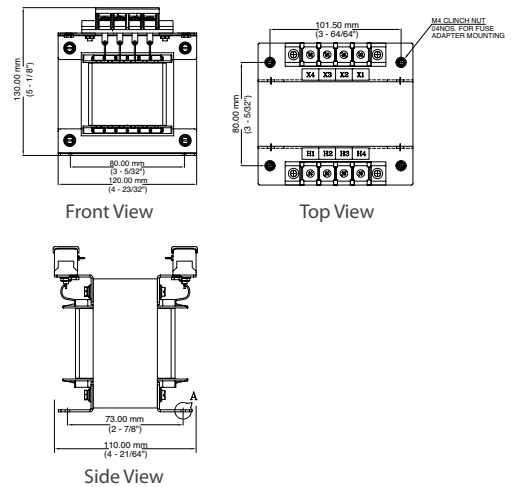


DIMENSIONS

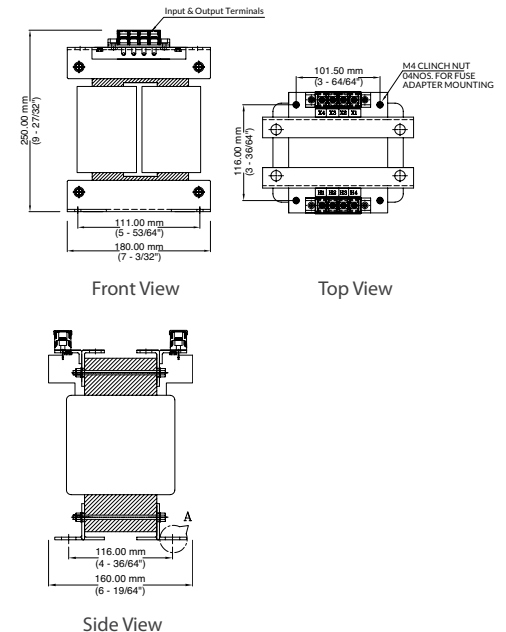
CPT1-0050- (RD-CS/RD-FD/TS-DS/PM-DS/RM-FD)



CPT1-0250- (RD-CS/RD-FD/TS-DS/PM-DS/RM-FD)



CPT1-2000- (RD-FD/TS-DS/PM-DS/RM-FD)



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