

CPT-IK-15

10 and 15 kVA indoor control power transformer



The CPT-IK-15 is an indoor, self-cooled, single-phase, dry-type control power transformer designed to provide control power in medium voltage switchgear.

Datasheet.Live

Product features

- Completely dry-type transformer cast in epoxy, eliminating oil
- 5 kV class: 60 kV BIL
- 15 kV class: 95 kV BIL
- 10 kVA units: 55°C rise @ 30°C average daily ambient
- 15 kVA units: 75°C rise @ 30°C average daily ambient
- All secondary outputs 120/240 V
- Primary inputs 2400 V to 14400 V with multiple taps
- Meets all dielectric test requirements of IEEE 57.13, including full-wave and chopped-wave impulse tests
- Approximate weight: 230 lbs. (104 kg)
- UL Recognized Component: File No. E244068

Application

The CPT-IK is an indoor, self-cooled, single-phase, dry-type control power transformer designed to provide control power in medium voltage switchgear. Nominal primary voltages range from 2.4 kV to 14.4 kV at 60 Hertz. Secondary voltages are configured for series/parallel operation at 120 V or 240 V.

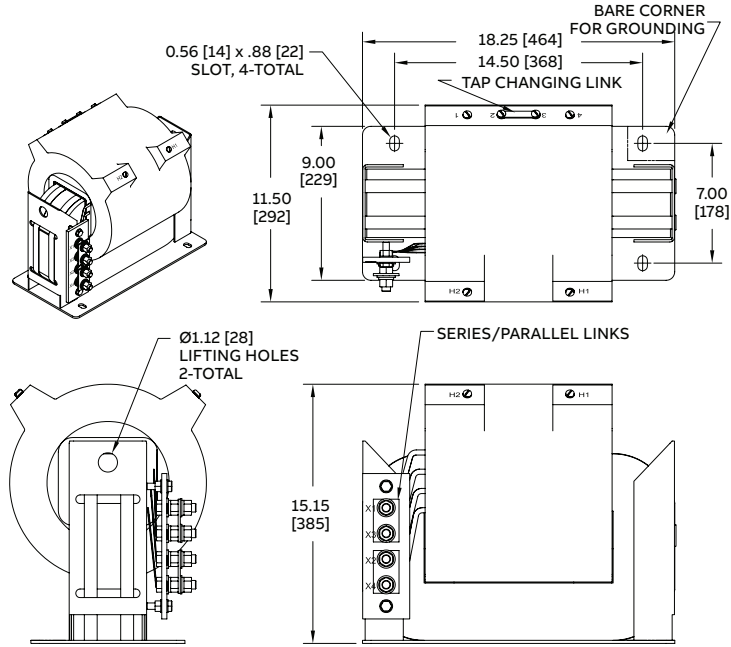
The CPT-IK is used in an ambient temperature of 30°C for full kVA rating or 55°C for 86% of full kVA rating. Styles in addition to those listed in this bulletin are available upon request.

Construction features

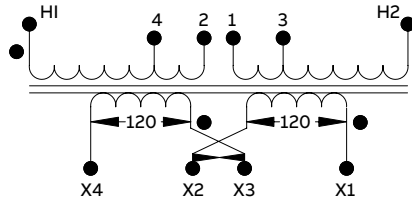
The core is wound with grain-oriented electrical steel for low losses. The high-voltage coil is vacuum encapsulated in epoxy to seal out moisture and contaminants, and to provide a higher ability to withstand short-circuit forces than conventional dry type transformers.

The secondary terminals are 1/2"-13 brass bolts supplied with series/parallel copper links. Primary terminals are 1/4"-20 brass screws. Primary tap terminals are 1/4"-20 brass screws or #10 brass screws, depending on the design selected, and are supplied with a copper link. The frame is made of zinc plated steel.

4 in-line tap configuration



Outline drawing D147



Connection A: $\pm 7 - 1/2\%$ primary taps

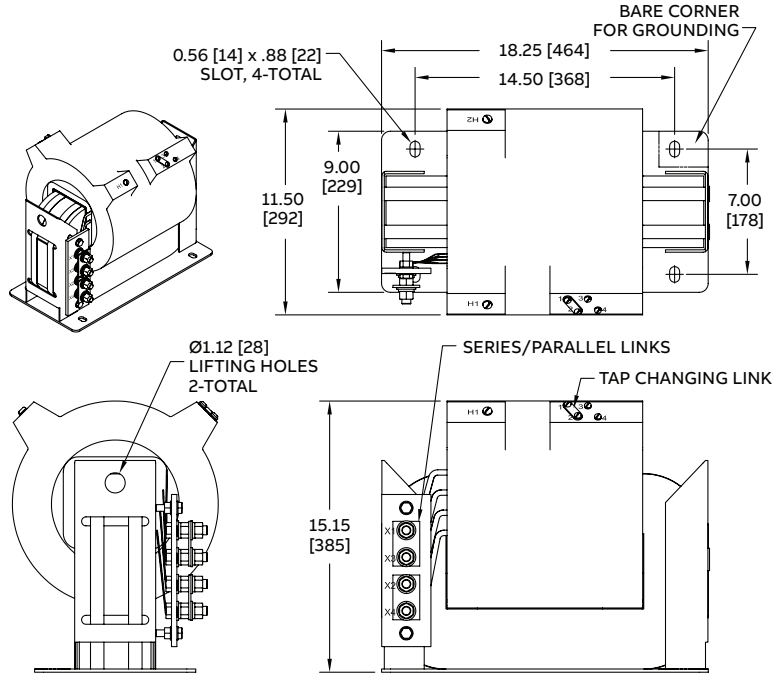
% rated voltage	Connect HV link
107.5	1 - 2
100	2 - 3
92.5	3 - 4

Selection guide

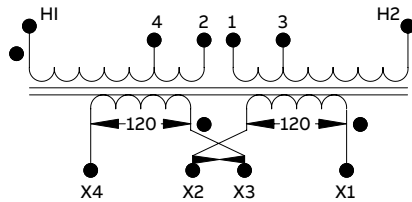
Style number	kVA	Voltage class (kV)	Primary rating	Secondary voltage	Taps
CPTA60102400D147	10	5	2400	120/240	A
CPTA60104160D147	10	5	4160	120/240	A
CPTA60104800D147	10	5	4800	120/240	A
CPTA95107200D147	10	15	7200	120/240	A
CPTA95108400D147	10	15	8400	120/240	A
CPTA951012000D147	10	15	12000	120/240	A
CPTA951012470D147	10	15	12470	120/240	A
CPTA951013200D147	10	15	13200	120/240	A
CPTA951013800D147	10	15	13800	120/240	A
CPTA951014400D147	10	15	14400	120/240	A
CPTA60152400D147	15	5	2400	120/240	A
CPTA60154160D147	15	5	4160	120/240	A
CPTA60154800D147	15	5	4800	120/240	A
CPTA95157200D147	15	15	7200	120/240	A
CPTA95158400D147	15	15	8400	120/240	A
CPTA951512000D147	15	15	12000	120/240	A
CPTA951512470D147	15	15	12470	120/240	A
CPTA951513200D147	15	15	13200	120/240	A
CPTA951513800D147	15	15	13800	120/240	A
CPTA951514400D147	15	15	14400	120/240	A

Note: Dimensions in all outline drawings are displayed in inches [mm].

4 multi-tap configuration



Outline drawing D149



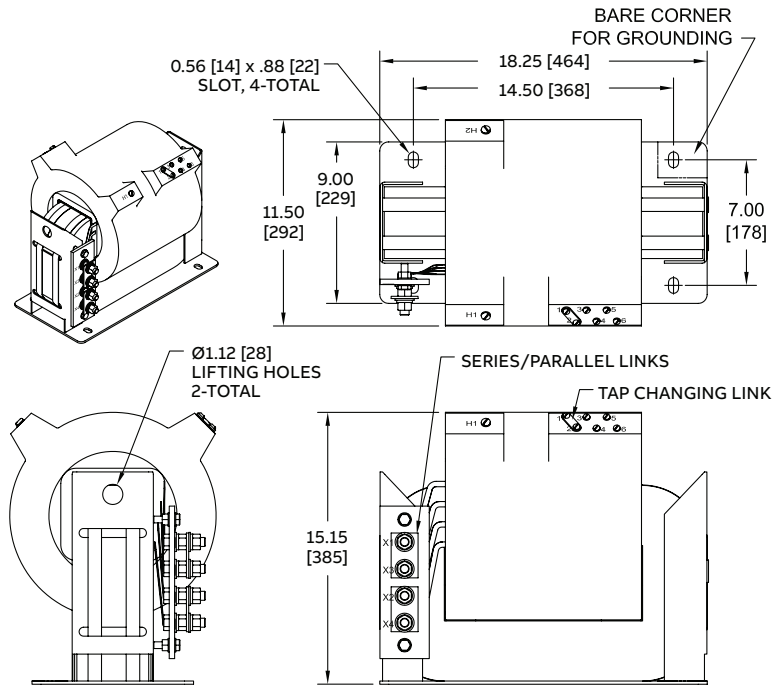
Connection A: $\pm 7 - 1/2\%$ primary taps

% rated voltage	Connect HV link
107.5	1 - 2
100	2 - 3
92.5	3 - 4

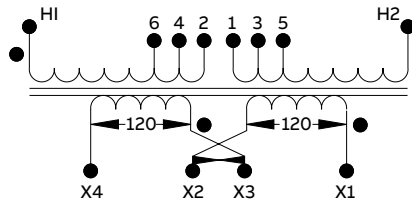
Selection guide

Style number	kVA	Voltage class (kV)	Primary rating	Secondary voltage	Taps
CPTA60102400D149	10	5	2400	120/240	A
CPTA60104160D149	10	5	4160	120/240	A
CPTA60104800D149	10	5	4800	120/240	A
CPTA95107200D149	10	15	7200	120/240	A
CPTA95108400D149	10	15	8400	120/240	A
CPTA951012000D149	10	15	12000	120/240	A
CPTA951012470D149	10	15	12470	120/240	A
CPTA951013200D149	10	15	13200	120/240	A
CPTA951013800D149	10	15	13800	120/240	A
CPTA951014400D149	10	15	14400	120/240	A
CPTA60152400D149	15	5	2400	120/240	A
CPTA60154160D149	15	5	4160	120/240	A
CPTA60154800D149	15	5	4800	120/240	A
CPTA95157200D149	15	15	7200	120/240	A
CPTA95158400D149	15	15	8400	120/240	A
CPTA951512000D149	15	15	12000	120/240	A
CPTA951512470D149	15	15	12470	120/240	A
CPTA951513200D149	15	15	13200	120/240	A
CPTA951513800D149	15	15	13800	120/240	A
CPTA951514400D149	15	15	14400	120/240	A

6 multi-tap configuration



Outline drawing D151



Connection B: $2 \pm 2 - 1/2\%$ primary taps

% rated voltage	Connect HV link
105	1 - 2
102.5	2 - 3
100	3 - 4
97.5	4 - 5
95	5 - 6

Selection guide

Style number	kVA	Voltage class (kV)	Primary rating	Secondary voltage	Taps
CPTB60102400D151	10	5	2400	120/240	B
CPTB60104160D151	10	5	4160	120/240	B
CPTB60104800D151	10	5	4800	120/240	B
CPTB95107200D151	10	15	7200	120/240	B
CPTB95108400D151	10	15	8400	120/240	B
CPTB951012000D151	10	15	12000	120/240	B
CPTB951012470D151	10	15	12470	120/240	B
CPTB951013200D151	10	15	13200	120/240	B
CPTB951013800D151	10	15	13800	120/240	B
CPTB951014400D151	10	15	14400	120/240	B
CPTB60152400D151	15	5	2400	120/240	B
CPTB60154160D151	15	5	4160	120/240	B
CPTB60154800D151	15	5	4800	120/240	B
CPTB95157200D151	15	15	7200	120/240	B
CPTB95158400D151	15	15	8400	120/240	B
CPTB951512000D151	15	15	12000	120/240	B
CPTB951512470D151	15	15	12470	120/240	B
CPTB951513200D151	15	15	13200	120/240	B
CPTB951513800D151	15	15	13800	120/240	B
CPTB951514400D151	15	15	14400	120/240	B

ABB Inc.
3022 NC 43 North
Pinetops, NC 27864
Phone: +1 252 827 3212

abb.com/mediumvoltage

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Inc. does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB Inc.
Copyright© 2019 ABB
All rights reserved