Application

The Type CPTIK 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, 60 Hz. Secondary voltages are configured for series/parallel operation at 120 V or 240 V. Output kVA ratings of 5, 10, or 15 kVA are available. Standard BIL ratings of 60 kV are available for 5 kV applications, and 95 kV BIL for 15 kV applications. The units are for use in an ambient temperature of 30°C for full kVA rating, or 55°C for 86% of full kVA rating. The winding temperature rise for 5 and 10 kVA units is 55°C, and for 15 kVA units is 75°C. Styles 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 $\frac{1}{2}'' - 13$ brass bolts supplied with series/parallel copper links. The primary terminals are $\frac{3}{4}'' - 20$ brass screws. The primary tap terminals are either $\frac{1}{4}'' - 20$ 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. Approximate weight for a 5 kVA unit is 150 lbs, and for 10 and 15 kVA units are 260 lbs.

Product Features

- Completely dry-type transformer cast in epoxy, eliminating oil
- UL recognized
- 5 kVA and 10 kVA, 55°C rise
- 15 kVA, 75°C rise
- 5 kV and 15 kV class
- All secondary outputs 120/240 V
- Primary inputs 2400 V to 14,400 V with multiple taps
Dimensions

Typical 5 kVA Transformer Outline Drawing*

![Diagram of a 5 kVA transformer]

- Dimensions: 9.00 x 11.50 x 18.25
- Bare Corner for Grounding
- 0.56 x 0.88 slot 4-total
- Series/Parallel Links
- Tap Changing Link
- Ø1.12 Lifting Holes 2-total

Typical 10 kVA and 15 kVA Transformer Outline Drawing*

![Diagram of a 10 kVA and 15 kVA transformer]

- Dimensions: 12.69 x 11.50 x 9.00
- Bare Corner for Grounding
- 0.56 x 0.88 slot 4-total
- Series/Parallel Links
- Tap Changing Link
- Ø1.12 Lifting Holes 2-total

Connections

±7 – ½% Primary Taps

<table>
<thead>
<tr>
<th>% Rated Voltage</th>
<th>Connect HV Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>107.5</td>
<td>1 – 2</td>
</tr>
<tr>
<td>100</td>
<td>2 – 3</td>
</tr>
<tr>
<td>92.5</td>
<td>3 – 4</td>
</tr>
</tbody>
</table>

*Please contact the factory for specific dimension and connection information.