

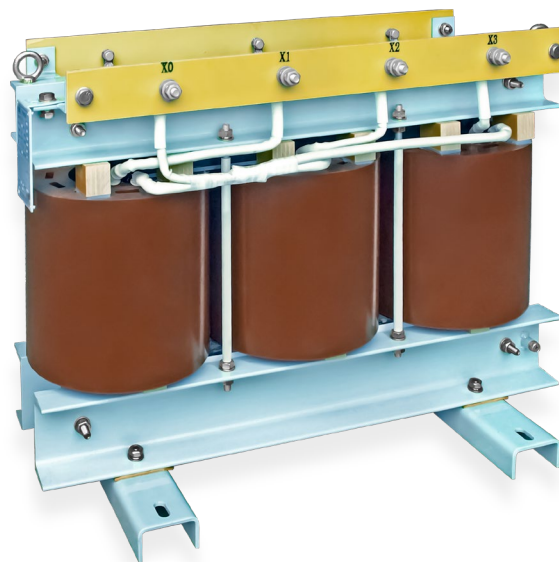
# LV Cast Resin Transformers

## Introduction

In CIC's low-voltage Cast Resin Dry Type Transformers (CRT), coils are cast in epoxy resin (Class F insulation). These transformers, with excellent insulation, are self-extinguishing and can be used in moisture-prone and polluted environments. Protective enclosures (optional) will enable outdoor applications of these transformers and offer additional protection against dust.

Examples of suitable applications include rapid transit systems, public transport stations, hospitals, residential and commercial buildings, and factories where significant pollution is present.

To ensure product quality, safety, and durability, all units undergo pre-delivery testing by an electricity laboratory accredited by TAF (a member of the ILAC) according to ISO/IEC 17025.



Overload & Over-Temperature Protection Devices Available



## Features

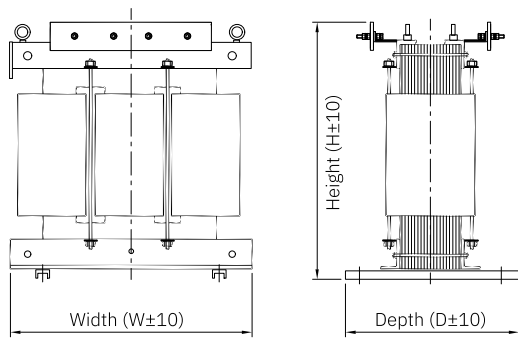
- High-permeability transformer cores made with cold-rolled grain-oriented silicon steel sheets (CRGO), together with tight windings of high conductivity, ensure low-noise and high-efficiency performance.
- Self-extinguishing property, superior insulation, and excellent resistance to pollution and moisture—made possible by casting of the coils in epoxy resin.
- For transformers with a rating of 25 kVA or above, there are cooling ducts within the coils (between primary and secondary windings) for enhanced dissipation of heat.
- Optional protective enclosures (IP20) available.
- Optional protective devices available for overload and over-temperature protection.
- Custom requests and specifications available.

## Specifications

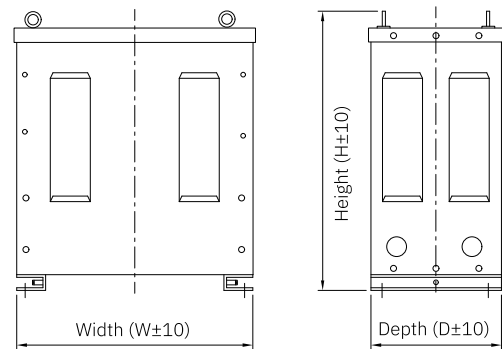
- Standards: IEC (or specific national standards by request)
- Number of Phases: 3
- Frequency: 50 or 60Hz
- Primary Voltage:  $\leq 600V$
- Secondary Voltage:  $\leq 600V$
- Connection Type:  $\Delta-\Delta$ ,  $\Delta-Y$ ,  $Y-\Delta$  or  $Y-Y$
- Capacity: 3 kVA ~ 200 kVA
- Cooling Method: Air Natural (AN)
- Other specifications or custom requirements available.

## Drawings and Selection Tables

(Unit: mm)



**Without Enclosure (IP00)**




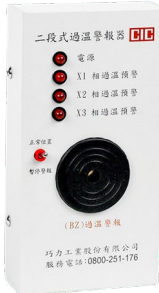

**With Enclosure (IP20)**

Without Enclosure (IP00)				
Capacity (kVA)	Dimensions (mm)			Approx. Weight (kg)
	Width (W)	Depth (D)	Height (H)	
3	290	250	330	45
5	290	250	350	50
7.5	510	300	405	85
10	520	300	435	80
15	520	300	480	90
20	520	300	505	95
25	630	350	525	135
75	710	540	650	350
100	750	565	670	430

With Enclosure (IP20)				
Capacity (kVA)	Dimensions (mm)			Approx. Weight (kg)
	Width (W)	Depth (D)	Height (H)	
3	350	330	600	60
5	350	330	600	65
7.5	550	400	650	110
10	600	400	650	110
15	600	400	750	120
20	600	400	750	125
25	700	400	765	170
75	1000	800	1500	390
100	1000	800	1500	450

Note: The data above are given as examples only. Please contact us with your special requests and for final specifications.

## Overload and Over-Temperature Protection Devices (Optional)

Type	OHA-1	OHA-2	OHTA
<b>Description</b>	Device for Overload and Over-Temperature Notification and Automatic Reset	Two-Stage Notification and Automatic Reset Device for Overload and Over-Temperature Protection	Automatic Reset and Switch-Off Device for Overload, Over-Temperature, and Surge Protection
<b>Appearance</b>			
<b>Dimensions</b>	80W x 155L x 32H (mm)		<p><b>Without Enclosure (with Base Board)</b> 210W x 130L x 96H (mm)</p> <p><b>With Enclosure</b> 300W x 300L x 105H (mm)</p> <p>(For reference only. Product appearance and dimensions vary according to component configurations.)</p>
<b>Protection Function</b>	Protection against over-temperature or overload situations: <ul style="list-style-type: none"> <li>• short circuit on the load side</li> <li>• total capacity of transformer exceeded</li> <li>• one of the phases overloaded due to unbalanced condition of three phases</li> </ul>		
<b>Detection and Action</b>	Device signals can prompt users to timely inspect or redistribute the load between the phases (each of the phases has a corresponding light which can signal independently).  Stage 1 (Model OHA-2 only): Warning light(s) will turn on as the transformer approaches over-temperature or overload (at any of the phases).  Stage 2: Actual over-temperature or overload (at any of the phases) is notified by a light signal (Model OHA-1) or sound signal (Model OHA-2).		Device will switch off the transformer at overload or over-temperature to allow timely inspection and to prevent damage of the transformer. Surge protection devices (SPD) are optional.
<b>Installation</b>	Signal devices can be mounted directly on the transformer or at a remote location through wired connection.		Installed with an enclosure, or directly mounted inside the distribution panel.

Note: For wiring diagrams, please refer to the full brochure of these protective devices, provided upon request.