Low-Voltage Dry-Type Transformers

DTH Series

Introduction

CIC's DTH Series LV Dry-Type Transformers, for voltage conversion in low-voltage systems, are made with high-permeability cold-rolled grain-oriented silicon steel sheets (CRGO) and H-Class insulating materials. Characteristics of these transformers include excellent dissipation of heat, tight construction, their self-extinguishing property, high efficiency, low noise, easy installation, and low maintenance. Common applications of these transformers can be found in factories, commercial buildings, and public constructions. 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.

Overload & Over-Temperature Protection Devices Available

Features

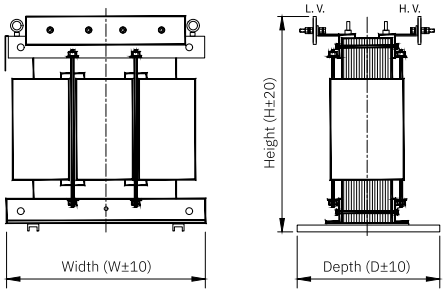
- Made with high-permeability cold-rolled grain-oriented silicon steel sheets (CRGO) and self-extinguishing H-Class insulating materials.
- Primary taps allow compensation for source voltage variations.
- High-efficiency and low-noise operation.
- Optional protective enclosure available.
- Optional protective devices available for overload and over-temperature protection.
- Single-phase models and other specifications available.

Specifications

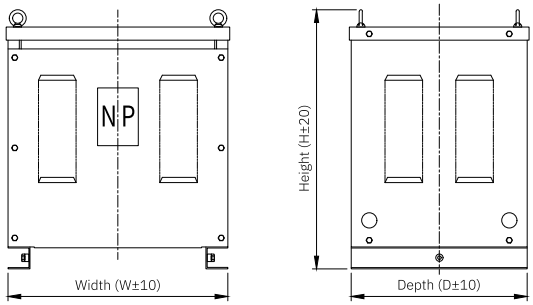
- Standards: IEC (or specific national standards by request)
- Number of Phases: 1Φ, 3Φ, and "Three Phase to Single Phase"
- Frequency: 50 or 60Hz
- Primary Voltage: ≤ 600V
- Secondary Voltage: ≤ 600V
- Connection Type: As specified by customers
- Capacity: 3 ~ 300 kVA
- Cooling Method: Air Natural (AN) or Air Blast, as specified by customers

Drawings and Selection Tables

(Unit: mm)



Drawing 1

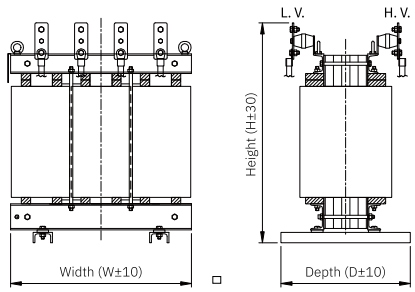


Drawing 2

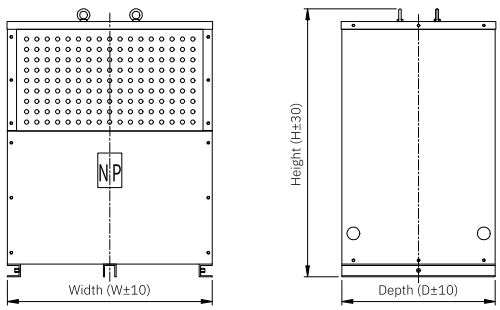
3~50 kVA, Without Enclosure (IP00)【Drawing 1】				
Capacity (kVA)	Dimensions (mm)			Approx. Weight (kg)
	Width (W)	Depth (D)	Height (H)	
3	240	250	255	30
5	280	250	285	40
7.5	280	250	285	45
10	320	300	345	60
15	320	350	375	70
20	370	350	395	95
25	415	400	395	120
30	415	400	410	140
37.5	520	450	545	195
50	590	450	545	260

3~50 kVA, With Enclosure (IP20)【Drawing 2】				
Capacity (kVA)	Dimensions (mm)			Approx. Weight (kg)
	Width (W)	Depth (D)	Height (H)	
3	300	300	480	40
5	350	300	480	50
7.5	350	300	480	55
10	400	400	590	75
15	400	400	590	90
20	500	400	690	120
25	500	450	700	140
30	500	450	700	170
37.5	650	500	750	230
50	650	500	750	295

(Unit: mm)



Drawing 3



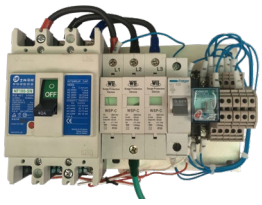
Drawing 4

75~150 kVA, Without Enclosure (IP00)【Drawing 3】				
Capacity (kVA)	Dimensions (mm)			Approx. Weight (kg)
	Width (W)	Depth (D)	Height (H)	
75	600	450	705	335
100	720	500	710	500
125	720	500	750	525
150	720	550	800	560

75~150 kVA, With Enclosure (IP20)【Drawing 4】				
Capacity (kVA)	Dimensions (mm)			Approx. Weight (kg)
	Width (W)	Depth (D)	Height (H)	
75	750	550	900	380
100	800	600	1050	565
125	800	600	1050	585
150	800	600	1050	620

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
Description	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
Appearance			 Without Enclosure  With Enclosure
Dimensions	80W x 155L x 32H (mm)		Without Enclosure (with Base Board) 210W x 130L x 96H (mm) With Enclosure 300W x 300L x 105H (mm) (For reference only. Product appearance and dimensions vary according to component configurations.)
Protection Function	Protection against over-temperature or overload situations: • short circuit on the load side • total capacity of transformer exceeded • one of the phases overloaded due to unbalanced condition of three phases		
Detection and Action	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.
Installation	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.