

Intelligent On-Load Capacity Transformer

This intelligent on-load capacity transformer automatically adjusts its capacity based on the load demand. It optimizes performance and reduces energy losses with robust construction and advanced cooling mechanisms.



ADDITIONAL IMAGES



Product Overview

Outline

Intelligent load size adjustable capacitive transformer having two gears capacity, the capacity can be automatically adjusted without operating the power load changes, when executed by a light load or a large-capacity transformer is adjusted close to the small-capacity load. That is to say, the no-load consumption is greatly reduced, and the trouble of manual operation of power-off is overcome, and the purpose of energy saving and intelligence is truly achieved. The product is particularly suitable for the change of seasonal load variation, and is also suitable for load change.

Large 35KV power transformer, the intelligent on-load capacity transformer developed by our company has a number of patents, mainly composed of transformers, on-load capacity adjustment switch and control box with on-load capacity adjustment controller. Remote communication, remote control, remote adjustment, telemetry, intelligent networking, reactive power compensation control, anti-theft and other functions are unmatched by traditional energy-saving products such as iron core and amorphous transformer.

Product type and meaning

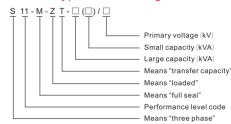


Diagram showing the intelligent load size adjustment mechanism and functional components.

Intelligent On-Load Capacity Transformer

This series of intelligent on-load capacity transformers is engineered for efficient voltage transformation in power transmission and distribution networks. Featuring advanced on-load tap changing technology, it automatically adjusts capacity based on real-time load demand to minimize no-load consumption and operational costs. Designed for seasonal load variations and fluctuating demands, it provides a stable, high-efficiency power supply for industrial and commercial applications.

Key Features

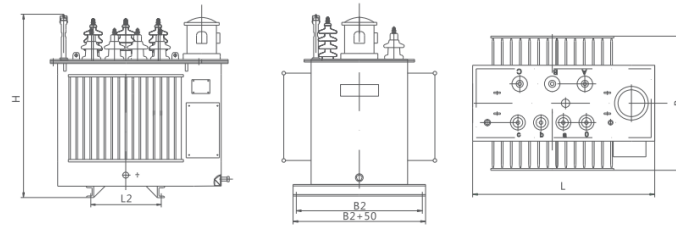
Integrated Technologies

On-load capacity adjustment, Intelligent monitoring, Remote communication, Reactive power compensation, Anti-theft functions

Technical Specifications

Appearance dimensions

10kV intelligent load-carrying distribution transformer outline drawing



Dimensional drawing for installation planning and integration.

10kV Performance Metrics

Model	No-load Loss (W)	Load Loss (W)	Impedance (%)
S11-M-ZT-160(50)	280(130)	2310(870)	4
S11-M-ZT-200(63)	340(150)	2730(1040)	4
S11-M-ZT-315(100)	480(200)	3830(1500)	4
S11-M-ZT-630(200)	810(340)	6200(2600)	4.5

Operational Standards

- Rated Voltage: 10/0.4 kV
- Connection Type: Dyn11/Yyn0
- Capacity Adjustment: Two-gear automatic

Benefits

Operating Cost Savings

51 %

Average Annual Operating Cost Reduction

3 years

Estimated Investment Recovery Time

45 %

Average No-load Loss Reduction