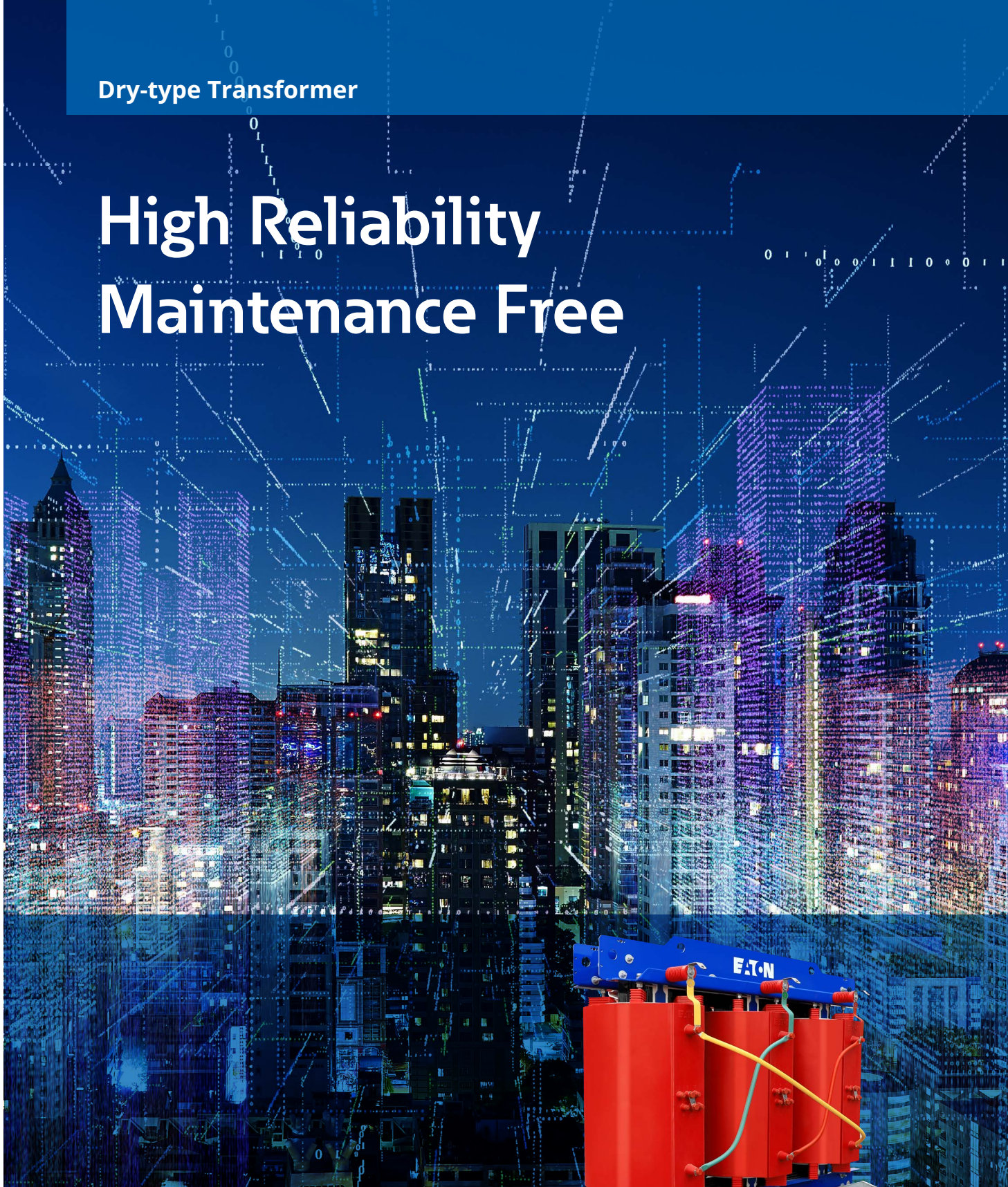


Dry-type Transformer

High Reliability Maintenance Free



EATON

Powering Business Worldwide

Eaton's vision is to improve quality of life and the environment through the use of power management technologies and services.

- We are dedicated to developing our employees by helping them succeed not just at work, but in life as well.
- We delight our customers by understanding their challenges and proactively delivering real solutions.
- We deliver for our shareholders by doing what's right, so investors want to own more shares in our company.
- We support our communities by providing products and solutions that can improve quality of life and the environment; we also offer our time, talent and resources to satisfy social and economic needs where we work and live.



ETN
LISTED
NYSE

Eaton

Eaton is an intelligent power management company dedicated to improving the quality of life and protecting the environment for people everywhere. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power - today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're accelerating the planet's transition to renewable energy, helping to solve the world's most urgent power management challenges, and doing what's best for our stakeholders and all of society.

Eaton was founded in 1911 and has been listed on the New York Stock Exchange since 1923. We reported revenues of \$20.8 billion in 2022 and serve customers in more than 170 countries. Eaton entered the Chinese market in 1993 and has grown significantly since then. In 2004, Eaton moved its Asia-Pacific headquarters from Hong Kong to Shanghai. Today, Eaton has nearly 9,000 employees and 20 manufacturing facilities in China. Eaton is marking its 100th anniversary of being listed on the New York Stock Exchange, and its 30th anniversary of being in Chinese market.

Electrical Sector

- Power distribution and circuit protection
- Power quality, backup power and power storage
- Safety and security
- Structural solutions
- Control and automation
- Solutions for harsh and hazardous environments

2022 SALES
\$ 14.3 BILLION

Industrial Sector

- Aerospace
- Filtration
- Vehicle
- eMobility vehicle electrification

2022 SALES
\$ 6.4 BILLION

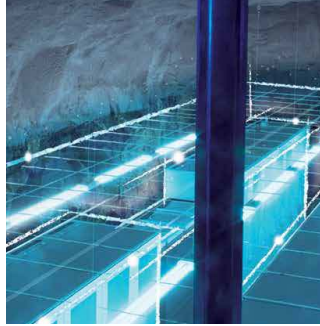
SALES
\$ 20.8 BILLION

NET INCOME
\$ 2.5 BILLION

EARNING PER SHARE
\$ 6.14 PER SHARE

Focused and professional

DATA CENTER



ALTERNATIVE ENERGY



FACILITIES



INFRASTRUCTURE

INDUSTRY



MACHINERY OEM



Eaton's Electrical Sector provides customized comprehensive services by:

- Providing data centers with efficient and safe energy-saving solutions to protect your information and data.
- Providing photovoltaic, wind power, and hybrid solutions to help you convert new energy into daily power.
- Improving the reliability and uninterrupted running time of smart grids.
- Providing continuous, clean, reliable power and life cycle management services to improve project efficiency.
- Helping enterprises to reduce operating costs and complexity, enhancing the predictability of operational failures, and ensuring personnel safety.
- Assisting production equipment manufacturers in making machinery production management simpler, more reliable, safer, and more energy-efficient

Eaton Dry-type Transformer

A legacy of classics with rapid response to customer demands



In 1892

Eaton transformer technology can be traced back to 1892 in which the first dry type transformer was developed.

For over a century

Eaton is committed to innovating and iterating transformers.

In 2012

The acquisition of Cooper makes Eaton one of the world's leading manufacturers of electrical equipment.

In 2023

Established in 2023

Eaton Transformer Jiangsu

Key products: **Dry type transformer, Oil immersed transformer, Prefabricated substation, Integrated power conversion and step-up unit**

Full series of Eaton transformer solutions

- Complying with GB, IEC and UL standards
- Hundred years of technology heritage
- Customized manufacturing capabilities
- Rapid response to customer demands

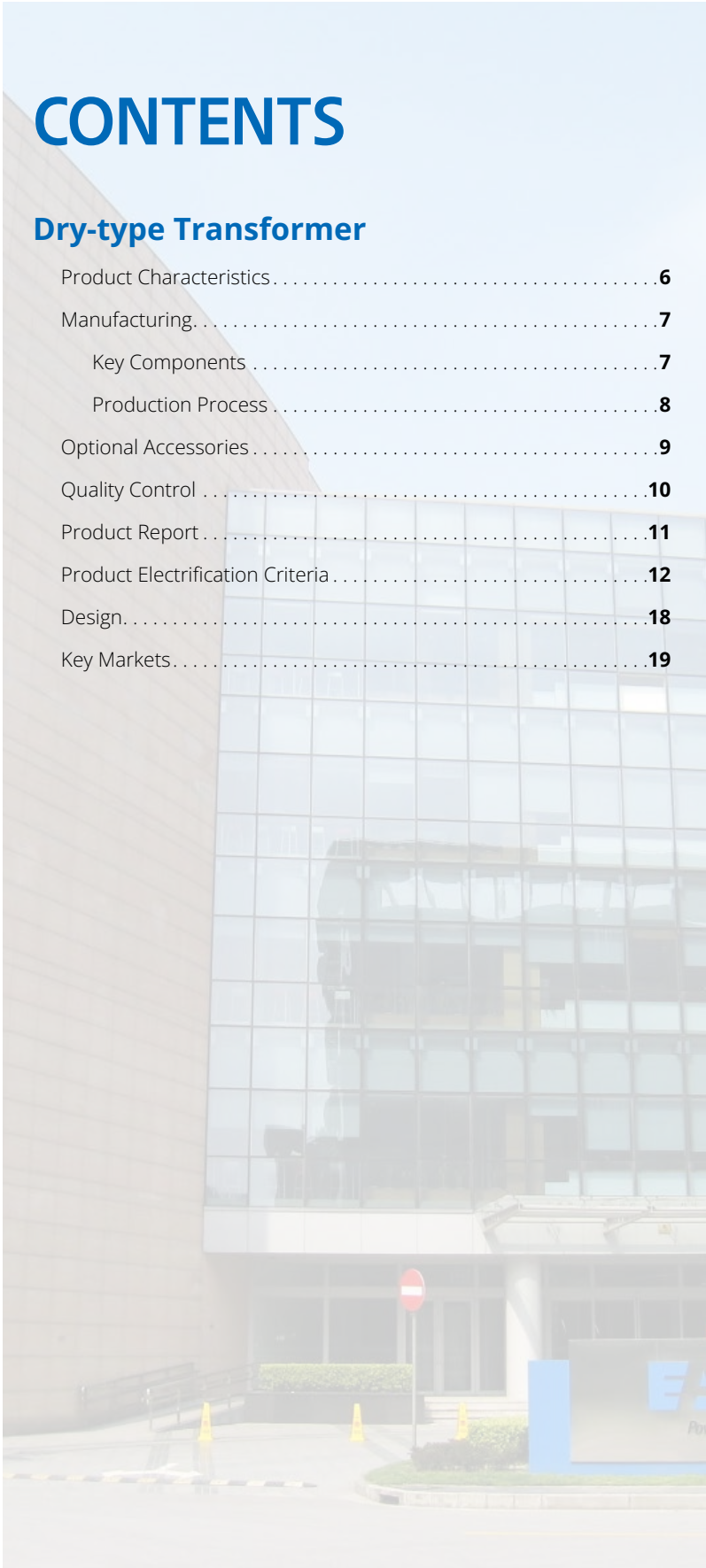




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Cast Resin Dry-type Transformer

Scope

- **Voltage: Up to 35kV**
- **Rating : Up to 31.5MVA**
- **BIL : Up to 200kV**

Key components

a. LV terminals

Standard arrangement: top
Customization: bottom
(on the behind)

b. Coil support system

To isolate core and winding from mechanical vibrations, reduce noise emission

c. HV terminals

Optimal layout schemes to adapt for various substations. HV tapping link can adjust itself to system voltage when power off

d. Clamping frame and truck

Made of steel plate and processed by laser cutting machine with high accuracy. Rollers can spin both horizontally and vertically

e. Core

Core sheet metal consist of low loss, cold rolled grain-oriented silicone sheets with extruded cores

f. Insulation cylinder

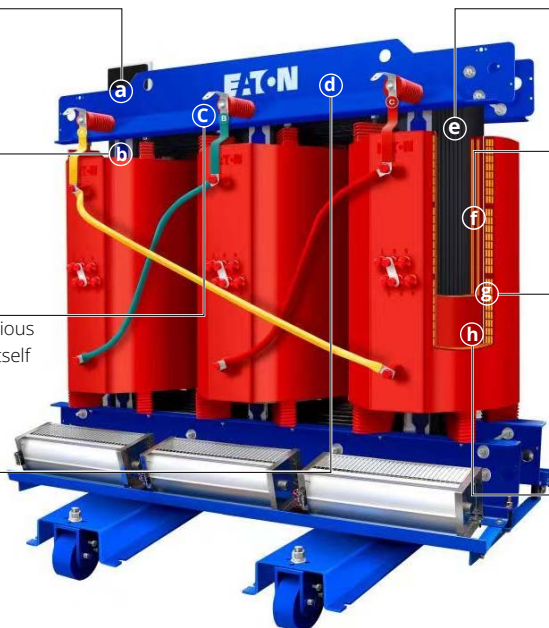
Reinforce insulation, improve the heat dissipation of transformer
(between the LV coil and HV coil)

g. High Voltage Coil

High voltage coils are using copper and aluminum flat, round or band conductors covered with F class (H class optional) glass fiber. Windings are poured under vacuum using premium resin

h. Low Voltage Coil

Belt (foil) winding conductors are used in low voltage windings. F class(H class optional) insulation material is saturated in the resin and finally coils are hardened after winding process



Safety

Safe, Non-flammable and self-extinguished



Climate-resistance

Working well even in extreme weather condition



Environment-friendly

100% dry structure guarantees zero environmental pollution



Convenience

Moisture resistant, and can operate in 100% humidity



Stability

Strong mechanical strength and short circuit withstand



High efficiency

Low loss, low partial discharge, low noise and good heat dissipation



Low cost

Maintenance free, easy to be settled and low operation cost



Innovation

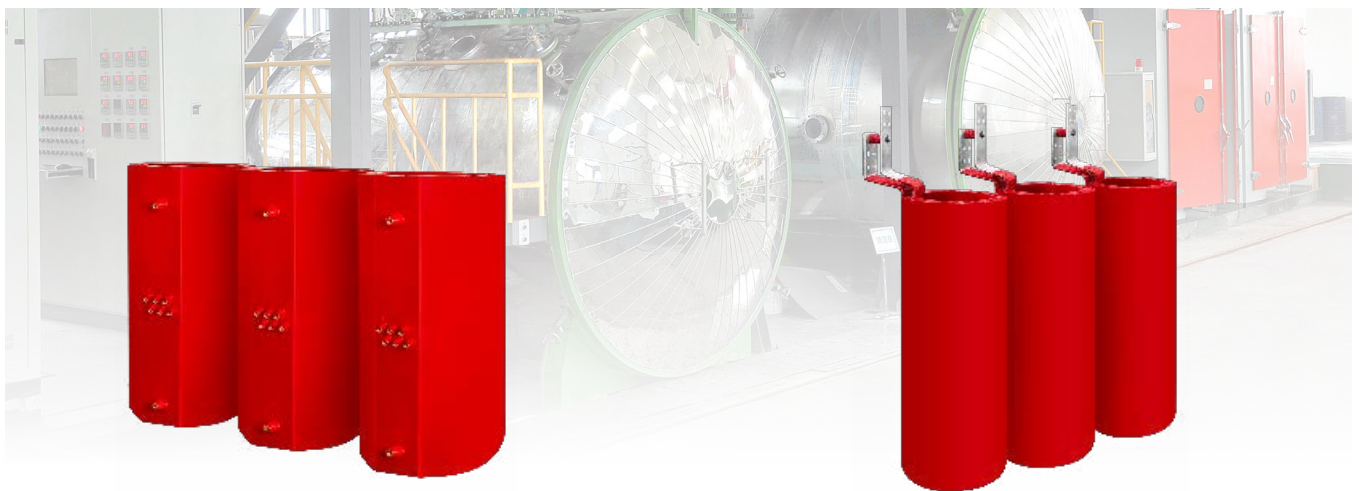
World's leading three phase integrated 110kV cast resin dry-type transformer

Key Components



Core

The core material is made of high-quality cold-rolled grain-oriented silicon steel sheet (amorphous alloy core uses amorphous alloy material). The core adopts 45° fully oblique seam step-by-step lamination technology, the core-through screw pull plate structure, and the automatic stacking robot technology of silicon steel sheets to ensure the size alignment of the entire stack of silicon steel sheets and the lapping accuracy between sheets. High-quality materials and complete technology can effectively reduce the no-load loss and noise level. The outer surface of the core is coated with F-grade or H-grade black elastic two-component resin paint, which can effectively prevent dust and rust.



HV winding

The HV winding adopts a cylindrical structure wound continuously with insulated copper wire and double-layer insulation. Under the vacuum state, the high-grade imported epoxy resin is used for overall high-temperature curing and molding. The mechanical strength after curing is very high, and the ultimate surface tensile stress can reach the strength of steel. The surface and air passage are very smooth, and it is difficult for dust to adhere to the coil surface.

LV winding

The LV winding is made of a whole piece of round-edged copper foil. The interlayer is insulated with thermosetting epoxy prepreg cloth, which is cured at high temperature in a curing furnace. There is no helix angle at the end of the low-voltage foil winding coil, and the ampere-turn can be automatically balanced in the axial direction according to the distribution of the high-voltage coil, so that the short-circuit electromotive force can be reduced to a minimum in the case of a serious external short-circuit fault.

Production Process



Core automatic stacking equipment

The core is one of the key components of the transformer. Eaton adopts first-class equipment, advanced technology, and high-quality materials to ensure the quality of the core, which greatly reduces the no-load loss and noise of transformers.



HV automatic winding machine

The HV coil automatic winding machine is controlled by a computer program and has the functions of constant tension and automatic winding. The HV coil is made of copper magnet wire, wound together with insulating materials such as glass fiber, and adopts a segmented cylindrical structure with low interlayer voltage and strong overvoltage resistance. Larger capacity coils are equipped with heat dissipation air passages, which have good heat dissipation performance.



LV foil winding machine

The LV coil can be wound with electromagnetic wire, and Eaton also produces LV transformers with foil coils, which have the advantages of uniform electric field distribution and strong short-circuit resistance. LV foil coils are tightly wound with high-purity round-edged foil tape and insulation pre-impregnated with epoxy resin. The LV foil winding machine has the functions of constant tension, deburring, and automatic deviation correction.



Resin vacuum casting system

After the finished coil is pre-dried, it is transferred to the pouring cabin of the epoxy resin vacuum casting equipment for vacuum drying to remove moisture and gas in the insulation. At the same time, materials such as epoxy resin and hardener are continuously degassed in an independent material preparation tank. After the processing process, the computer injects various chemical materials into the mold according to the set ratio through the precision metering system. After pouring, it is cured at high temperature in an oven, and finally made into a strong solid coil.

Optional Accessories



Cooling Fan

The transformer can be cooled by two modes: air natural cooling (AN) and air forced cooling (AF). Forced-air AF output of the transformer is up to 140% of the self-cooled rating, should be used only for emergency non-recurring loads, and but is not recommended for long-term running.



Temperature Controller

The temperature is controlled by means of sensor provided on each transformer. The sensor (PT100) is installed in the LV winding. The digital controller shows the operating temperature of each LV winding, sequentially. The temperature controller performs the following functions of three-phase winding during transformer running: automatically switch the cooling fans on at 100°C and off at 80°C, it will send an over-temperature alarm at 130°C, and will send emergency shutdown trip signal at 150°C and sensor fault alarm.



Steel-plate enclosure

The steel-plate enclosure is made of high-quality cold-rolled steel plate, which is processed by CNC shearing machine, CNC punching machine, and CNC plate bending machine. The steel plate shell has the advantages of beautiful and exquisite appearance, good ventilation performance, simple and quick installation, and convenient transportation. The color of the steel plate shell is RAL7032 computer gray or customized according to user requirements.



Stainless steel enclosure

Stainless steel enclosure, the main material is stainless steel plate, which is beautiful and anti-corrosion, and can be easily assembled on site, with inspection doors on the front and back. The shell protection device provides a safety barrier for the live parts, and the protection level reaches IP20, IP23 and above. The IP20 casing can prevent the entry of solid foreign objects with a diameter greater than 12mm; the IP23 casing can also prevent the inflow of water droplets within 60° from the vertical line.

Quality Control



Eaton quality control was carried out according to ISO9001 quality management standard and production standard, there are many quality engineers working for IQC, PQC, FQC and OQC. All transformers should be inspected and tested by operator, auditor and inspector according to the production standards and requirements before it been transported to the next production process, the failed product will be rejected. The product's quality and reliability are ensured by our strict management procedure, serious working attitude and advanced testing equipments.

Transformer Inspection and Test Center



Impulse Test System








Insulation ratio DC resistance test equipment



Partial discharge laboratory

| Test Item | Test Type | Test Item | Test Type |
|--|--------------|--------------------------------|--------------|
| Winding resistance measurements | Routine test | Induced-voltage test | Routine test |
| Ratio and phase-relation tests | Routine test | Partial discharge measurements | Routine test |
| No-load loss and excitation current measurements | Routine test | Sound level measurements | Type test |
| Load loss and impedance measurements | Routine test | Lightning impulse test | Type test |
| Insulation resistance measurements | Routine test | Temperature rise test | Type test |
| Applied-voltage test | Routine test | Short-circuit withstand test | Special test |

Type Test Reports

实验室名称: 苏州电器科学研究院股份有限公司
 国家电器产品质量检验检测中心
 Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
 China National Center for Quality Inspection and Test of Electrical Apparatus Products

No 23N0265-S

型式试验报告 Type Test Report

委托单位: 伊顿变压器(江苏)有限公司
 Client:

产品名称: 干式变压器
 Name of Product:






产品型号: SCB18-2500/10-NX1
 Product Type:

检验类别: 型式试验
 Test Category:

本实验室对出具的检验(试验)结果负责, 未经实验室书面同意, 不得部分地复制本报告。

The laboratory is responsible for the inspection (Test) results. The report shall not be reproduced except in full, written approval of the laboratory.

SCB18-2500/10-NX1

实验室名称: 苏州电器科学研究院股份有限公司
 国家电器产品质量检验检测中心
 Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
 China National Center for Quality Inspection and Test of Electrical Apparatus Products

No 23N0261-S

型式试验报告 Type Test Report

委托单位: 伊顿变压器(江苏)有限公司
 Client:

产品名称: 干式变压器
 Name of Product:






产品型号: SCB18-1000/10-NX1
 Product Type:

检验类别: 型式试验
 Test Category:

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SCB18-1000/10-NX1

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 国家电器产品质量检验检测中心
 Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
 China National Center for Quality Inspection and Test of Electrical Apparatus Products

No 23N0263-S

型式试验报告 Type Test Report

委托单位: 伊顿变压器(江苏)有限公司
 Client:

产品名称: 干式变压器
 Name of Product:






产品型号: SCB14-2000/10-NX2
 Product Type:

检验类别: 型式试验
 Test Category:

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SCB14-2000/10-NX2

实验室名称: 苏州电器科学研究院股份有限公司
 国家电器产品质量检验检测中心
 Lab Name: Suzhou Electrical Apparatus Science Research Institute Co., Ltd.
 China National Center for Quality Inspection and Test of Electrical Apparatus Products

No 23N0259-S

型式试验报告 Type Test Report

委托单位: 伊顿变压器(江苏)有限公司
 Client:

产品名称: 干式变压器
 Name of Product:

产品型号: SCB14-500/10-NX2
 Product Type:

检验类别: 型式试验
 Test Category:

本实验室对出具的检验(试验)结果负责, 未经实验室书面同意, 不得部分地复制本报告。

The laboratory is responsible for the inspection (Test) results. The report shall not be reproduced except in full, written approval of the laboratory.

SCB14-500/10-NX2

Product Electrification Criteria

10kV Class 100 ~ 3500kVA Distribution Transformer (Copper Winding)

HV Voltage: 6kV/6.3kV/6.6 kV /10kV/10.5kV/11kV
 LV Voltage: 400V/415V/420V/433V
 Frequency: 50Hz/60Hz

HV tapping: $\pm 2*2.5\%/ \pm 5\%$
 Vector group: Dyn11/Dyn5/Dyn1/Yyn0
 Material of winding: Copper

| Rated Power (KVA) | No-load Loss (kW) | On-load Loss 120°C (kW) | Short Circuit Impedance (%) | Noise (Lm-1) (dB) | No-load Current (%) | Base Frame Q1XQ2 (mm) | Weight (kg) | Outline Dimension (LengthxWidthxHeight) (mm) | Enclosure Dimension (IP20/IP21) (LengthxWidthxHeight) (mm) |
|-------------------|-------------------|-------------------------|-----------------------------|-------------------|---------------------|-----------------------|-------------|--|--|
| 100 | 0.40 | 1.57 | 4 | 47 | 1.5 | 550 × 660 | 640 | 1020 × 760 × 920 | 1600 × 1200 × 1400 |
| 125 | 0.47 | 1.85 | | 48 | 1.3 | 550 × 660 | 700 | 1100 × 760 × 960 | 1600 × 1200 × 1400 |
| 160 | 0.54 | 2.13 | | 49 | 1.3 | 660 × 660 | 860 | 1160 × 760 × 1000 | 1600 × 1200 × 1400 |
| 200 | 0.62 | 2.53 | | 50 | 1.1 | 660 × 660 | 950 | 1200 × 760 × 1080 | 1600 × 1200 × 1400 |
| 250 | 0.72 | 2.76 | | 50 | 1.1 | 660 × 660 | 1120 | 1240 × 760 × 1060 | 1600 × 1300 × 1500 |
| 315 | 0.88 | 3.47 | | 50 | 1 | 660 × 660 | 1320 | 1300 × 760 × 1060 | 1600 × 1300 × 1500 |
| 400 | 0.98 | 3.99 | | 50 | 1 | 660 × 660 | 1450 | 1400 × 760 × 1080 | 1800 × 1400 × 1600 |
| 500 | 1.16 | 4.88 | | 50 | 1 | 660 × 660 | 1690 | 1480 × 760 × 1100 | 1800 × 1400 × 1600 |
| 630 | 1.34 | 5.88 | | 50 | 0.85 | 660 × 660 | 2100 | 1500 × 760 × 1240 | 1800 × 1400 × 1600 |
| 630 | 1.30 | 5.96 | 6 | 50 | 0.85 | 660 × 660 | 1920 | 1580 × 760 × 1080 | 2000 × 1400 × 1800 |
| 800 | 1.52 | 6.96 | | 51 | 0.6 | 820 × 820 | 2420 | 1680 × 920 × 1260 | 2000 × 1400 × 1800 |
| 1000 | 1.77 | 8.13 | | 52 | 0.6 | 820 × 820 | 2760 | 1720 × 920 × 1340 | 2100 × 1400 × 1800 |
| 1250 | 2.09 | 9.69 | | 54 | 0.5 | 820 × 820 | 3180 | 1780 × 920 × 1400 | 2100 × 1400 × 1800 |
| 1600 | 2.45 | 11.73 | | 54 | 0.5 | 820 × 820 | 3960 | 1940 × 920 × 1420 | 2300 × 1500 × 2000 |
| 2000 | 3.05 | 14.45 | | 56 | 0.5 | 1070 × 1070 | 4880 | 2000 × 1150 × 1580 | 2300 × 1500 × 2000 |
| 2500 | 3.6 | 17.17 | | 60 | 0.5 | 1070 × 1070 | 5800 | 2120 × 1150 × 1680 | 2500 × 1600 × 2000 |
| 2000 | 3.05 | 15.96 | 8 | 56 | 0.5 | 1070 × 1070 | 4950 | 1930 × 1150 × 1630 | 2300 × 1500 × 2000 |
| 2500 | 3.6 | 18.89 | | 60 | 0.5 | 1070 × 1070 | 5930 | 2080 × 1150 × 1780 | 2500 × 1600 × 2200 |
| 3150 | 4.28 | 22.46 | | 62 | 0.5 | 1070 × 1070 | 7220 | 2180 × 1150 × 1840 | 2500 × 1600 × 2200 |
| 3500 | 4.63 | 24.31 | | 64 | 0.5 | 1070 × 1070 | 8040 | 2250 × 1150 × 1900 | 2600 × 1600 × 2200 |

Remark: Eaton reserves the right to make changes or modify the contents of this catalogue without prior notice.
 Eaton CRT can be designed and manufactured as per GB/IEC/ANSI standards.

10kV Class 100 ~ 3500kVA Distribution Transformer (Aluminum Winding)

HV Voltage: 6kV/6.3kV/6.6kV/10kV/10.5kV/11kV
 LV Voltage: 400V/415V/420V/433V
 Frequency: 50Hz/60Hz

HV tapping: $\pm 2 \times 2.5\%$ / $\pm 5\%$
 Vector group: Dyn11/Dyn5/Dyn1/Yyn0
 Material of winding: Aluminum

| Rated Power (KVA) | No-load Loss (kW) | On-load Loss 120°C (kW) | Short Circuit Impedance (%) | Noise (Lm-1) (dB) | No-load Current (%) | Base Frame Q1XQ2 (mm) | Weight (kg) | Outline Dimension (LengthxWidthxHeight) (mm) | Enclosure Dimension (IP20/IP21) (LengthxWidthxHeight) (mm) |
|-------------------|-------------------|-------------------------|-----------------------------|-------------------|---------------------|-----------------------|-------------|--|--|
| 100 | 0.40 | 1.57 | 4 | 47 | 1.5 | 550 × 660 | 580 | 1100 × 760 × 1040 | 1600 × 1200 × 1400 |
| 125 | 0.47 | 1.85 | | 48 | 1.3 | 550 × 660 | 620 | 1180 × 760 × 1060 | 1600 × 1200 × 1400 |
| 160 | 0.54 | 2.13 | | 49 | 1.3 | 660 × 660 | 790 | 1240 × 760 × 1100 | 1600 × 1200 × 1400 |
| 200 | 0.62 | 2.53 | | 50 | 1.1 | 660 × 660 | 870 | 1280 × 760 × 1180 | 1600 × 1200 × 1400 |
| 250 | 0.72 | 2.76 | | 50 | 1.1 | 660 × 660 | 1030 | 1320 × 760 × 1160 | 1700 × 1300 × 1600 |
| 315 | 0.88 | 3.47 | | 50 | 1 | 660 × 660 | 1210 | 1340 × 760 × 1180 | 1700 × 1300 × 1600 |
| 400 | 0.98 | 3.99 | | 50 | 1 | 660 × 660 | 1350 | 1420 × 760 × 1280 | 1800 × 1400 × 1700 |
| 500 | 1.16 | 4.88 | | 50 | 1 | 660 × 660 | 1580 | 1500 × 760 × 1300 | 1800 × 1400 × 1700 |
| 630 | 1.34 | 5.88 | | 50 | 0.85 | 660 × 60 | 1980 | 1530 × 760 × 1440 | 1800 × 1400 × 1700 |
| 630 | 1.30 | 5.96 | | 6 | 50 | 0.85 | 660 × 660 | 1890 | 1600 × 760 × 1380 |
| 800 | 1.52 | 6.96 | 51 | | 0.6 | 820 × 820 | 2230 | 1720 × 920 × 1560 | 2000 × 1400 × 1800 |
| 1000 | 1.77 | 8.13 | 52 | | 0.6 | 820 × 820 | 2560 | 1740 × 920 × 1640 | 2100 × 1400 × 2000 |
| 1250 | 2.09 | 9.69 | 54 | | 0.5 | 820 × 820 | 2980 | 1810 × 920 × 1720 | 2100 × 1400 × 2000 |
| 1600 | 2.45 | 11.73 | 54 | | 0.5 | 820 × 820 | 3760 | 1920 × 920 × 1720 | 2300 × 1500 × 2000 |
| 2000 | 3.05 | 14.45 | 56 | | 0.5 | 1070 × 1070 | 4580 | 2020 × 1150 × 1760 | 2300 × 1500 × 2000 |
| 2500 | 3.6 | 17.17 | 60 | | 0.5 | 1070 × 1070 | 5560 | 2080 × 1150 × 1980 | 2500 × 1600 × 2300 |
| 2000 | 3.05 | 15.96 | 8 | | 56 | 0.5 | 1070 × 1070 | 4750 | 1920 × 1150 × 1960 |
| 2500 | 3.6 | 18.89 | | 60 | 0.5 | 1070 × 1070 | 5790 | 2080 × 1150 × 2020 | 2500 × 1600 × 2300 |
| 3150 | 4.28 | 22.46 | | 62 | 0.5 | 1070 × 1070 | 6820 | 2180 × 1150 × 2080 | 2500 × 1600 × 2300 |
| 3500 | 4.63 | 24.31 | | 64 | 0.5 | 1070 × 1070 | 7350 | 2250 × 1150 × 2150 | 2500 × 1600 × 2400 |

Remark: Eaton reserves the right to make changes or modify the contents of this catalogue without prior notice.
 Eaton CRT can be designed and manufactured as per GB/IEC/ANSI standards.

Product Electrification Criteria

20kV Class 200 ~ 3500kVA Distribution Transformer (Copper Winding)

HV Voltage: 20kV/22kV/24kV

LV Voltage: 400V/415V/420V/433V

Frequency: 50Hz/60Hz

HV tapping: $\pm 2 \times 2.5\%$ / $\pm 5\%$

Vector group: Dyn11/Dyn5/Dyn1/Yyn0

Material of winding: Copper

| Rated Power (KVA) | No-load Loss (kW) | On-load Loss 120°C (kW) | Short Circuit Impedance (%) | Noise (Lm-1) (dB) | No-load Current (%) | Base Frame Q1XQ2 (mm) | Weight (kg) | Outline Dimension (LengthxWidthxHeight) (mm) | Enclosure Dimension (IP20/IP21) (LengthxWidthxHeight) (mm) | |
|-------------------|-------------------|-------------------------|-----------------------------|-------------------|---------------------|-----------------------|-------------|--|--|--------------------|
| 200 | 0.73 | 2.94 | 6 | 50 | 1.1 | 660 × 660 | 1370 | 1380 × 760 × 1220 | 2000 × 1500 × 2000 | |
| 250 | 0.84 | 3.42 | | 50 | 1.1 | 660 × 660 | 1380 | 1400 × 760 × 1230 | 2000 × 1500 × 2000 | |
| 315 | 0.97 | 4.08 | | 50 | 1 | 660 × 660 | 1480 | 1430 × 760 × 1295 | 2000 × 1500 × 2000 | |
| 400 | 1.15 | 4.84 | | 50 | 1 | 660 × 660 | 1660 | 1480 × 760 × 1355 | 2000 × 1500 × 2000 | |
| 500 | 1.35 | 5.79 | | 50 | 1 | 660 × 660 | 1820 | 1490 × 760 × 1405 | 2000 × 1500 × 2000 | |
| 630 | 1.53 | 6.84 | | 50 | 0.85 | 660 × 660 | 2030 | 1540 × 760 × 1430 | 2000 × 1500 × 2200 | |
| 800 | 1.75 | 8.26 | | 51 | 0.6 | 820 × 820 | 2380 | 1590 × 920 × 1550 | 2000 × 1500 × 2200 | |
| 1000 | 2.07 | 9.78 | | 52 | 0.6 | 820 × 820 | 2740 | 1620 × 920 × 1570 | 2200 × 1650 × 2200 | |
| 1250 | 2.38 | 11.5 | | 54 | 0.5 | 820 × 820 | 3330 | 1710 × 920 × 1615 | 2200 × 1650 × 2200 | |
| 1600 | 2.79 | 13.8 | | 54 | 0.5 | 820 × 820 | 4070 | 1810 × 920 × 1680 | 2200 × 1650 × 2200 | |
| 2000 | 3.24 | 16.3 | | 56 | 0.5 | 1070 × 1070 | 5130 | 1940 × 1150 × 1765 | 2500 × 1800 × 2400 | |
| 2500 | 3.87 | 19.3 | | 60 | 0.5 | 1070 × 1070 | 6070 | 2030 × 1150 × 1885 | 2500 × 1800 × 2400 | |
| 2000 | 3.24 | 17.8 | | 8 | 56 | 0.5 | 1070 × 1070 | 5200 | 2000 × 1150 × 1795 | 2600 × 1800 × 2400 |
| 2500 | 3.87 | 21.2 | | | 60 | 0.5 | 1070 × 1070 | 6200 | 2100 × 1150 × 1935 | 2800 × 1800 × 2500 |
| 3150 | 4.6 | 25.2 | 62 | | 0.5 | 1070 × 1070 | 7380 | 2200 × 1150 × 1980 | 2900 × 1900 × 2600 | |
| 3500 | 4.98 | 27.2 | 64 | | 0.5 | 1070 × 1070 | 7990 | 2290 × 1150 × 2050 | 2900 × 1900 × 2600 | |

Remark: Eaton reserves the right to make changes or modify the contents of this catalogue without prior notice.

Eaton CRT can be designed and manufactured as per GB/IEC/ANSI standards.

20kV Class 200 ~ 2500kVA Distribution Transformer (Aluminum Winding)

HV Voltage: 20kV/22kV/24kV

LV Voltage: 400V/415V/420V/433V

Frequency: 50Hz/60Hz

HV tapping: $\pm 2 \times 2.5\%$ / $\pm 5\%$

Vector group: Dyn11/Dyn5/Dyn1/Yyn0

Material of winding: Aluminum

| Rated Power (KVA) | No-load Loss (kW) | On-load Loss 120°C (kW) | Short Circuit Impedance (%) | Noise (Lm-1) (dB) | No-load Current (%) | Base Frame Q1XQ2 (mm) | Weight (kg) | Outline Dimension (LengthxWidthxHeight) (mm) | Enclosure Dimension (IP20/IP21) (LengthxWidthxHeight) (mm) | |
|-------------------|-------------------|-------------------------|-----------------------------|-------------------|---------------------|-----------------------|-------------|--|--|--------------------|
| 200 | 0.73 | 2.94 | 6 | 50 | 1.1 | 660 × 660 | 1210 | 1450 × 760 × 1340 | 2000 × 1500 × 2000 | |
| 250 | 0.84 | 3.42 | | 50 | 1.1 | 660 × 660 | 1250 | 1420 × 760 × 1340 | 2000 × 1500 × 2000 | |
| 315 | 0.97 | 4.08 | | 50 | 1 | 660 × 660 | 1310 | 1440 × 760 × 1395 | 2000 × 1500 × 2000 | |
| 400 | 1.15 | 4.84 | | 50 | 1 | 660 × 660 | 1470 | 1490 × 760 × 1470 | 2000 × 1500 × 2000 | |
| 500 | 1.35 | 5.79 | | 50 | 1 | 660 × 660 | 1640 | 1530 × 760 × 1480 | 2000 × 1500 × 2000 | |
| 630 | 1.53 | 6.84 | | 50 | 0.85 | 660 × 660 | 1890 | 1580 × 760 × 1525 | 2000 × 1500 × 2200 | |
| 800 | 1.75 | 8.26 | | 51 | 0.6 | 820 × 820 | 2170 | 1630 × 920 × 1570 | 2000 × 1500 × 2200 | |
| 1000 | 2.07 | 9.78 | | 52 | 0.6 | 820 × 820 | 2680 | 1720 × 920 × 1640 | 2200 × 1650 × 2200 | |
| 1250 | 2.38 | 11.5 | | 54 | 0.5 | 820 × 820 | 3040 | 1810 × 920 × 1735 | 2200 × 1650 × 2200 | |
| 1600 | 2.79 | 13.8 | | 54 | 0.5 | 820 × 820 | 3810 | 1870 × 920 × 1955 | 2200 × 1650 × 2200 | |
| 2000 | 3.24 | 16.3 | | 56 | 0.5 | 1070 × 1070 | 4440 | 2000 × 1150 × 2045 | 2500 × 1800 × 2400 | |
| 2500 | 3.87 | 19.3 | | 60 | 0.5 | 1070 × 1070 | 5510 | 2190 × 1150 × 2075 | 2500 × 1800 × 2400 | |
| 2000 | 3.24 | 17.8 | | 8 | 56 | 0.5 | 1070 × 1070 | 4600 | 2050 × 1150 × 2100 | 2500 × 1800 × 2400 |
| 2500 | 3.87 | 21.2 | | | 60 | 0.5 | 1070 × 1070 | 5730 | 2240 × 1220 × 2130 | 2800 × 1800 × 2500 |
| 3150 | 4.6 | 25.2 | 62 | | 0.5 | 1070 × 1070 | 6810 | 2320 × 1250 × 2180 | 2900 × 1900 × 2600 | |
| 3500 | 4.98 | 27.2 | 64 | | 0.5 | 1070 × 1070 | 7360 | 2400 × 1280 × 2250 | 2900 × 1900 × 2600 | |

Remark: Eaton reserves the right to make changes or modify the contents of this catalogue without prior notice.
Eaton CRT can be designed and manufactured as per GB/IEC/ANSI standards.

Product Electrification Criteria

35kV Class 200 ~ 3500kVA Distribution Transformer (Copper Winding)

HV Voltage: 33kV/34.5kV/35kV /37kV

LV Voltage: 400V/415V/420V/433V

Frequency: 50Hz/60Hz

HV tapping: $\pm 2*2.5\%$ / $\pm 5\%$

Vector group: Dyn11/Dyn5/Dyn1/Yyn0

Material of winding: Copper

| Rated Power (KVA) | No-load Loss (kW) | On-load Loss 120°C (kW) | Short Circuit Impedance (%) | Noise (Lm-1) (dB) | No-load Current (%) | Base Frame Q1XQ2 (mm) | Weight (kg) | Outline Dimension (LengthxWidthxHeight) (mm) | Enclosure Dimension (IP20/IP21) (LengthxWidthxHeight) (mm) | |
|-------------------|-------------------|-------------------------|-----------------------------|-------------------|---------------------|-----------------------|-------------|--|--|--------------------|
| 200 | 0.88 | 3.32 | 6 | 50 | 1.1 | 660 × 660 | 1480 | 1520 × 760 × 1680 | 2300 × 1800 × 2200 | |
| 250 | 0.99 | 3.80 | | 50 | 1.1 | 660 × 660 | 1760 | 1580 × 760 × 1740 | 2300 × 1800 × 2200 | |
| 315 | 1.17 | 4.51 | | 50 | 1 | 820 × 820 | 1980 | 1680 × 920 × 1660 | 2300 × 1800 × 2200 | |
| 400 | 1.37 | 5.41 | | 50 | 1 | 820 × 820 | 2280 | 1760 × 920 × 1700 | 2500 × 1800 × 2200 | |
| 500 | 1.62 | 6.65 | | 50 | 1 | 820 × 820 | 2480 | 1800 × 920 × 1720 | 2500 × 1800 × 2200 | |
| 630 | 1.86 | 7.69 | | 50 | 0.85 | 820 × 820 | 2900 | 1880 × 920 × 1800 | 2500 × 1800 × 2200 | |
| 800 | 2.16 | 9.12 | | 52 | 0.6 | 820 × 820 | 3380 | 1920 × 920 × 1900 | 2600 × 2000 × 2400 | |
| 1000 | 2.43 | 10.40 | | 52 | 0.6 | 820 × 820 | 3680 | 1980 × 920 × 1920 | 2600 × 2000 × 2400 | |
| 1250 | 2.83 | 12.70 | | 54 | 0.5 | 820 × 820 | 4280 | 2040 × 920 × 1960 | 2700 × 2000 × 2400 | |
| 1600 | 3.24 | 15.40 | | 56 | 0.5 | 1070 × 1070 | 5230 | 2120 × 1150 × 2040 | 2700 × 2000 × 2400 | |
| 2000 | 3.82 | 18.20 | | 58 | 0.5 | 1070 × 1070 | 5980 | 2240 × 1150 × 2080 | 2900 × 2200 × 2600 | |
| 2500 | 4.45 | 21.80 | | 60 | 0.5 | 1070 × 1070 | 6640 | 2300 × 1150 × 2200 | 2900 × 2200 × 2600 | |
| 3150 | 5.29 | 28.50 | | 8 | 64 | 0.5 | 1070 × 1070 | 8070 | 2400 × 1250 × 2300 | 3200 × 2300 × 2700 |
| 3500 | 5.72 | 30.80 | | | 68 | 0.5 | 1070 × 1070 | 8730 | 2480 × 1280 × 2380 | 3200 × 2300 × 2700 |

35kV Class 200 ~ 3500kVA Distribution Transformer (Aluminum Winding)

HV Voltage: 33kV/34.5kV/35kV /37kV

LV Voltage: 400V/415V/420V/433V

Frequency: 50Hz/60Hz

HV tapping: $\pm 2*2.5\%$ / $\pm 5\%$

Vector group: Dyn11/Dyn5/Dyn1/Yyn0

Material of winding: Aluminum

| Rated Power (KVA) | No-load Loss (kW) | On-load Loss 120°C (kW) | Short Circuit Impedance (%) | Noise (Lm-1) (dB) | No-load Current (%) | Base Frame Q1XQ2 (mm) | Weight (kg) | Outline Dimension (LengthxWidthxHeight) (mm) | Enclosure Dimension (IP20/IP21) (LengthxWidthxHeight) (mm) | |
|-------------------|-------------------|-------------------------|-----------------------------|-------------------|---------------------|-----------------------|-------------|--|--|--------------------|
| 200 | 0.88 | 3.32 | 6 | 50 | 1.1 | 660 × 660 | 1330 | 1540 × 760 × 1720 | 2300 × 1800 × 2200 | |
| 250 | 0.99 | 3.80 | | 50 | 1.1 | 660 × 660 | 1590 | 1600 × 760 × 1780 | 2300 × 1800 × 2200 | |
| 315 | 1.17 | 4.51 | | 50 | 1 | 820 × 820 | 1790 | 1700 × 920 × 1690 | 2300 × 1800 × 2200 | |
| 400 | 1.37 | 5.41 | | 50 | 1 | 820 × 820 | 2180 | 1820 × 920 × 1780 | 2500 × 1800 × 2200 | |
| 500 | 1.62 | 6.65 | | 50 | 1 | 820 × 820 | 2280 | 1860 × 920 × 1750 | 2500 × 1800 × 2200 | |
| 630 | 1.86 | 7.69 | | 50 | 0.85 | 820 × 820 | 2580 | 1920 × 920 × 1820 | 2600 × 2000 × 2200 | |
| 800 | 2.16 | 9.12 | | 52 | 0.6 | 820 × 820 | 3140 | 1980 × 920 × 1940 | 2600 × 2000 × 2400 | |
| 1000 | 2.43 | 10.40 | | 52 | 0.6 | 820 × 820 | 3280 | 2020 × 920 × 1960 | 2700 × 2200 × 2400 | |
| 1250 | 2.83 | 12.70 | | 54 | 0.5 | 820 × 820 | 3690 | 2080 × 920 × 1980 | 2700 × 2200 × 2400 | |
| 1600 | 3.24 | 15.40 | | 56 | 0.5 | 1070 × 1070 | 4920 | 2180 × 1150 × 2090 | 3000 × 2200 × 2500 | |
| 2000 | 3.82 | 18.20 | | 58 | 0.5 | 1070 × 1070 | 5580 | 2280 × 1150 × 2120 | 3000 × 2200 × 2500 | |
| 2500 | 4.45 | 21.80 | | 60 | 0.5 | 1070 × 1070 | 6170 | 2400 × 1150 × 2280 | 3100 × 2200 × 2700 | |
| 3150 | 5.29 | 28.50 | | 8 | 64 | 0.5 | 1070 × 1070 | 7630 | 2480 × 1250 × 2360 | 3100 × 2400 × 2800 |
| 3500 | 5.72 | 30.80 | | | 68 | 0.5 | 1070 × 1070 | 8260 | 2580 × 1300 × 2480 | 3100 × 2400 × 2800 |

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Eaton CRT can be designed and manufactured as per GB/IEC/ANSI standards.

35kV Class 4000 ~ 25000kVA Power Transformer (Copper Winding)

HV Voltage: 33kV/34.5kV/35kV /37kV
 LV Voltage: 6kV/6.3kV/10kV /11kV
 Frequency: 50Hz/60Hz

HV tapping: $\pm 2 \times 2.5\%$ / $\pm 5\%$
 Vector group: YNd11/ Yd11/ Dyn11/Yyn0
 Material of winding: Copper

| Rated Power (KVA) | No-load Loss (kW) | On-load Loss 120°C (kW) | Short Circuit Impedance (%) | Noise (Lm-1) (dB) | No-load Current (%) | Base Frame Q1XQ2 (mm) | Weight (kg) | Outline Dimension (LengthxWidthxHeight) (mm) | Enclosure Dimension (IP20/IP21) (LengthxWidthxHeight) (mm) |
|-------------------|-------------------|-------------------------|-----------------------------|-------------------|---------------------|-----------------------|-------------|--|--|
| 4000 | 7.02 | 29.4 | 8 | 64 | 0.70 | 1475 × 1070 | 10555 | 3230 × 1400 × 2100 | 4000 × 2400 × 3000 |
| 5000 | 8.37 | 34.9 | | 66 | 0.60 | 1475 × 1070 | 12850 | 3300 × 1400 × 2250 | 4000 × 2400 × 3000 |
| 6300 | 9.9 | 40.8 | | 66 | 0.60 | 1475 × 1070 | 16765 | 3505 × 1400 × 2330 | 4200 × 2400 × 3000 |
| 8000 | 11.3 | 46.0 | 9 | 68 | 0.50 | 1475 × 1475 | 18400 | 3755 × 1800 × 2700 | 4500 × 2800 × 3200 |
| 10000 | 12.9 | 55.5 | | 68 | 0.50 | 2040 × 1475 | 22200 | 3900 × 1800 × 2950 | 4600 × 2800 × 3500 |
| 12500 | 15.7 | 64.6 | | 70 | 0.40 | 2040 × 1475 | 28000 | 4095 × 1800 × 3040 | 4800 × 2800 × 3500 |
| 16000 | 19.3 | 76.0 | | 70 | 0.40 | 2040 × 1475 | 31000 | 4105 × 1800 × 3100 | 4800 × 3000 × 3600 |
| 20000 | 22.9 | 85.5 | 10 | 74 | 0.35 | 2040 × 1475 | 34800 | 4295 × 1800 × 3200 | 5000 × 3000 × 3600 |
| 25000 | 27.1 | 101.0 | | 74 | 0.35 | 2040 × 1475 | 38000 | 4400 × 1800 × 3400 | 5200 × 3000 × 3800 |

35kV Class 4000 ~ 25000kVA Power Transformer (Aluminum Winding)

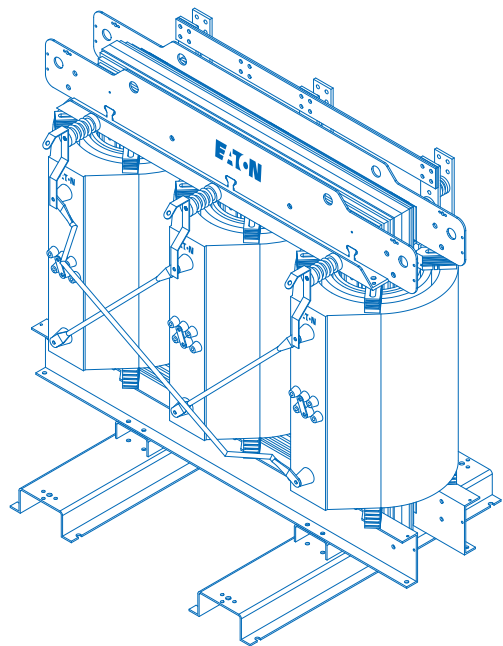
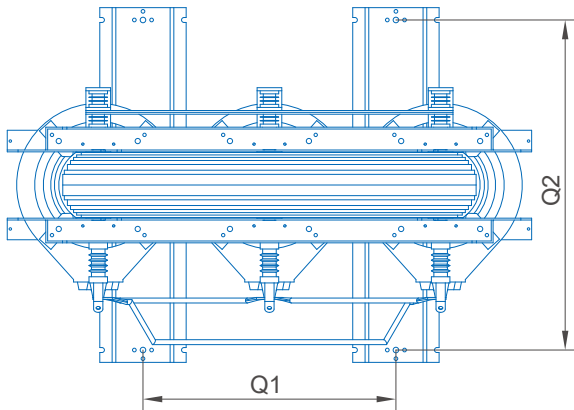
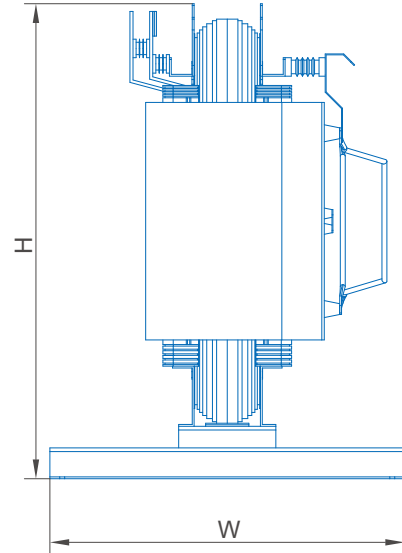
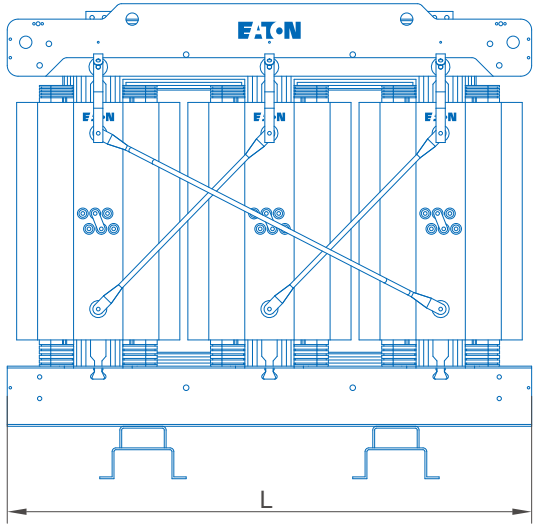
HV Voltage: 33kV/34.5kV/35kV /37kV
 LV Voltage: 6kV/6.3kV/10kV /11kV
 Frequency: 50Hz/60Hz

HV tapping: $\pm 2 \times 2.5\%$ / $\pm 5\%$
 Vector group: YNd11/ Yd11/ Dyn11/Yyn0
 Material of winding: Aluminum

| Rated Power (KVA) | No-load Loss (kW) | On-load Loss 120°C (kW) | Short Circuit Impedance (%) | Noise (Lm-1) (dB) | No-load Current (%) | Base Frame Q1XQ2 (mm) | Weight (kg) | Outline Dimension (LengthxWidthxHeight) (mm) | Enclosure Dimension (IP20/IP21) (LengthxWidthxHeight) (mm) |
|-------------------|-------------------|-------------------------|-----------------------------|-------------------|---------------------|-----------------------|-------------|--|--|
| 4000 | 7.02 | 29.4 | 8 | 64 | 0.70 | 1475 × 1070 | 9600 | 3300 × 1400 × 2300 | 4100 × 2400 × 3000 |
| 5000 | 8.37 | 34.9 | | 66 | 0.60 | 1475 × 1070 | 11600 | 3380 × 1400 × 2555 | 4100 × 2400 × 3000 |
| 6300 | 9.9 | 40.8 | | 66 | 0.60 | 1475 × 1070 | 15200 | 3580 × 1400 × 2730 | 4200 × 2400 × 3200 |
| 8000 | 11.3 | 46.0 | 9 | 68 | 0.50 | 1475 × 1475 | 16600 | 3840 × 1800 × 2800 | 4500 × 2800 × 3200 |
| 10000 | 12.9 | 55.5 | | 68 | 0.50 | 2040 × 1475 | 20800 | 3980 × 1800 × 3150 | 4700 × 2800 × 3500 |
| 12500 | 15.7 | 64.6 | | 70 | 0.40 | 2040 × 1475 | 25800 | 4160 × 1800 × 3240 | 4900 × 2800 × 3500 |
| 16000 | 19.3 | 76.0 | | 70 | 0.40 | 2040 × 1475 | 27900 | 4200 × 1800 × 3260 | 4900 × 3000 × 3600 |
| 20000 | 22.9 | 85.5 | 10 | 74 | 0.35 | 2040 × 1475 | 31800 | 4380 × 1800 × 3380 | 5100 × 3000 × 3800 |
| 25000 | 27.1 | 101.0 | | 74 | 0.35 | 2040 × 1475 | 35000 | 4600 × 1800 × 3500 | 5300 × 3000 × 4000 |

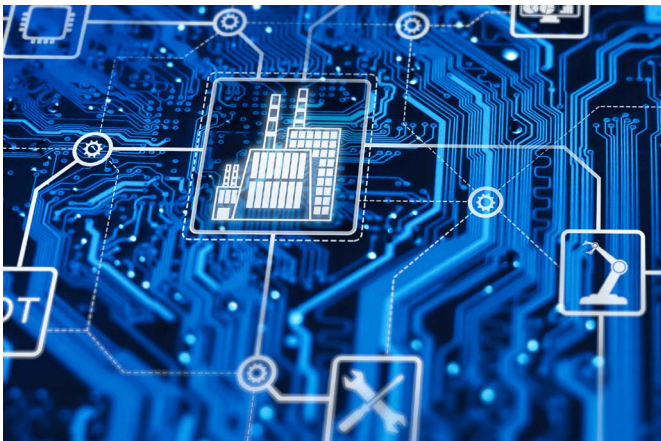
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 Eaton CRT can be designed and manufactured as per GB/IEC/ANSI standards.

Design





Healthcare



Data center



Industry



Commercial buildings



Utilities



Renewable energy

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