

# Control and Isolating Transformer



## General Data

Control transformers are designed to step down voltage for control equipment applications. With isolated primary and secondary windings, they enhance safety and reduce electrical noise interference. Varnish impregnation improves durability, resists corrosion, and minimizes operational noise, ensuring reliable long-term performance.

## Features

- Double-insulated windings for safe isolation of control circuits
- Varnish-impregnated core and coil for moisture resistance and low noise
- Compact design for easy integration into control panels
- Designed for continuous duty in control panels and industrial machinery

## Technical Data

Product	Control and Isolating Transformer
Series	SC
Power (Capacity)	25VA – 5KVA
Phase	Single Phase
Input Voltage (Primary)	100 – 1000 Vac
Output Voltage (Secondary)	12 – 1000 Vac
Frequency	50 / 60Hz
Insulation Class	Class F (155°C)
Ambient Temperature (Max)	40°C
Cooling type	AN (Natural Air Cool)
Winding Material	Copper
Test/Insulating Voltage	3 KVac
Insulation Resistance	> 300 MΩ
Duty Cycle	100% (Continuous)

## Construction / Protection

Degree of Protection	IP 00
Protection Class	Class I
Short-Circuit Protection	Non short-circuit proof

## Standards & Compliance

Compliance	IEC 61558-2-2
	IEC 61558-2-6

# Power Transformer for General Purpose



## General Data

General-purpose transformers provide reliable voltage conversion for continuous-duty operation. The dry-type design reduces maintenance requirements while ensuring long service life. Fully isolated windings enhance electrical safety and minimize electrical interference. Enclosed in an IP2X metal housing, they are suitable for indoor installation in machinery rooms, control panels, and power distribution systems.

## Features

- Dry-type construction with low maintenance requirements
- Housed in an IP-rated metal enclosure (IP22) for indoor installation
- Rugged construction for continuous duty and dependable performance
- Isolated windings for electrical safety and noise suppression

## Technical Data

Product	Power Transformer for General Purpose
Series	SP-IP22
Power (Capacity)	1 KVA – 50 KVA
Phase	Single Phase
Input Voltage (Primary)	100 – 1000 Vac
Output Voltage (Secondary)	100 – 1000 Vac
Frequency	50 / 60 Hz
Insulation Class	Class F (155°C) < 5 KVA Class H (180°C) ≥ 5 KVA
Ambient Temperature (Max)	40°C
Cooling type	AN (Natural Air Cool)
Winding Material	Copper
Test/Insulating Voltage	3 KVac
Insulation Resistance	> 500 MΩ
Duty Cycle	100% (Continuous)

## Construction / Protection

Protection Class	Class I
Short-Circuit Protection	Non short-circuit proof

## Enclosure

Protection Type	IP 22 (Indoor)
Enclosure Material	Electro Galvanized Steel Sheet
Enclosure Finishing	RAL 7032 (Powder Coated)

## Standards & Compliance

Compliance

IEC 61558-2-4 (Capacity: < 5 KVA)

IEC 60076-11 (Capacity:  $\geq$  5 KVA)

# Isolation Transformer



## General Data

Isolation transformers are designed to deliver galvanic isolation with "protective separation," ensuring a safe and reliable power supply to connected equipment. They provide double or reinforced insulation between primary and secondary windings, significantly enhancing safety and minimizing electrical interference.

## Features

- Electrostatic shield between windings for superior noise suppression
- Galvanic isolation with double or reinforced insulation for enhanced safety
- Rugged, heavy-duty design rated for continuous operation and long-term reliability
- Moisture-resistant varnish impregnation to protect windings and extend service lifespan

## Technical Data

Product	Isolation Transformer
Series	SDW-IP22
Power (Capacity)	1 KVA – 50 KVA
Phase	Single Phase
Input Voltage (Primary)	240 Vac
Output Voltage (Secondary)	240 Vac
Frequency	50 / 60 Hz
Insulation Class	Class F (155°C) < 5 KVA Class H (180°C) ≥ 5 KVA
Ambient Temperature (Max)	40°C
Cooling type	AN (Natural Air Cool)
Winding Material	Copper
Test/Insulating Voltage	3 KVac
Insulation Resistance	> 500 MΩ
Duty Cycle	100% (Continuous)

## Construction / Protection

Protection Class	Class I
Short-Circuit Protection	Non short-circuit proof

## Enclosure

Protection Type	IP 22 (Indoor)
Enclosure Material	Electro Galvanized Steel Sheet
Enclosure Finishing	RAL 7032 (Powder Coated)

## Standards & Compliance

Compliance	IEC 61558-2-4 (Capacity: < 5 KVA) IEC 60076-11 (Capacity: ≥ 5 KVA)
------------	---

# Auto Transformer



## General Data

Auto transformers feature a single-winding design that offers a compact footprint and cost-effective solution for applications where galvanic isolation is not required. Suitable for voltage step-up or step-down within electrical systems, these transformers are ideal for space-saving installations.

## Features

- Compact and lightweight design
- More cost-efficient than isolation transformers
- Higher efficiency with reduced copper and core losses
- Better voltage regulation compared to isolation transformers

## Technical Data

Product	Auto Transformer (Single Winding)
Series	SSW-IP22
Power (Capacity)	1 KVA – 10 KVA
Phase	Single Phase
Input Voltage (Primary)	100 – 500 Vac
Output Voltage (Secondary)	100 – 500 Vac
Frequency	50 / 60 Hz
Insulation Class	Class F (155°C)
Ambient Temperature (Max)	40°C
Cooling type	AN (Natural Air Cool)
Winding Material	Copper
Test/Insulating Voltage	3 KVac
Insulation Resistance	> 300 MΩ
Duty Cycle	100% (Continuous)

## Construction / Protection

Protection Class	Class I
Short-Circuit Protection	Non short-circuit proof

## Enclosure

Protection Type	IP 22 (Indoor)
Enclosure Material	Electro Galvanized Steel Sheet
Enclosure Finishing	RAL 7032 (Powder Coated)

## Standards & Compliance

Compliance	IEC 61558-2-3
------------	---------------