Specifications

# Eaton 204977



## Catalog Number: 204977

Eaton Moeller® series STN Control transformer, 0.2 kVA, Rated input voltage 400± 5 % V, Rated output voltage 230 V

### General specifications

**Product Name**
Eaton Moeller® series STN Control transformer

**Catalog Number**
204977

**EAN**
4015082049775

**Product Length/Depth**
83 mm

**Product Height**
112 mm

**Product Width**
106 mm

**Product Weight**
2.996 kg

**Certifications**
IEC/EN 61558-2-2
UL 506
UL File No.: E167225
VDE 0570 Part 2-2
UL Category Control No.: XPTQ2, XPTQ8
UL Recognized
CE
CSA-C22.2 No. 66.1-06
IEC/EN 60204-1, ÖVE-EN 13
Certified by UL for use in Canada
CSA-C22.2 No. 66
CSA-C22.2 No. 66.2-06
UL5085-1
UL 5085-2
UL report applies to both US and Canada
VDE 0113, VDE 0100 Part 410

**Catalog Notes**
Electrical characteristics: all details for no-load loss, short-circuit loss (copper losses), short-circuit voltage and efficiency values relate to a temperature of 20 °C

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## Features & Functions

### Features

Separate windings

Fully Vacuum-impregnated

## General

### Ambient operating temperature - min

-25 °C

### Ambient operating temperature - max

40 °C

### Connection lug

Yes for > 115 A

### Connection type

Terminations, < 115 A

### Duty factor

100 %

### Insulation class

B

### Primary tapping

± 5 %

### Product category

Single-phase control transformers ST

### Suitable for

Branch circuits, (UL/CSA)

### Type

Single-phase STN control transformers

## Electrical rating

### Efficiency

88 %

### No-load losses

9 W

### Rated frequency - min

50 Hz

### Rated frequency - max

60 Hz

### Rated power

0.2 VA

### Relative short-circuit voltage

6.8 %

## Design verification

### Equipment heat dissipation, current-dependent Pvid

0 W

### Heat dissipation capacity Pdiss

0 W

### Heat dissipation per pole, current-dependent Pvid

0 W

### Rated operational current for specified heat dissipation (In)

0 A

### Static heat dissipation, non-current-dependent Pvs

28 W

### 10.2.2 Corrosion resistance

Meets the product standard's requirements.

Short-circuit losses

19 W

Short-time rating

0.38 kVA

Voltage rating - max

600 V

10.2.3.1 Verification of thermal stability of enclosures

Meets the product standard's requirements.

10.2.3.2 Verification of resistance of insulating materials to normal heat

Meets the product standard's requirements.

10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects

Meets the product standard's requirements.

10.2.4 Resistance to ultra-violet (UV) radiation

Meets the product standard's requirements.

10.2.5 Lifting

Does not apply, since the entire switchgear needs to be evaluated.

10.2.6 Mechanical impact

Does not apply, since the entire switchgear needs to be evaluated.

10.2.7 Inscriptions

Meets the product standard's requirements.

10.3 Degree of protection of assemblies

Does not apply, since the entire switchgear needs to be evaluated.

10.4 Clearances and creepage distances

Meets the product standard's requirements.

10.5 Protection against electric shock

Does not apply, since the entire switchgear needs to be evaluated.

10.6 Incorporation of switching devices and components

Does not apply, since the entire switchgear needs to be evaluated.

10.7 Internal electrical circuits and connections

Is the panel builder's responsibility.

10.8 Connections for external conductors

Is the panel builder's responsibility.

10.9.2 Power-frequency electric strength

Is the panel builder's responsibility.

10.9.3 Impulse withstand voltage

Is the panel builder's responsibility.

10.9.4 Testing of enclosures made of insulating material

Is the panel builder's responsibility.

### 10.10 Temperature rise

The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.

### 10.11 Short-circuit rating

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### 10.12 Electromagnetic compatibility

Is the panel builder's responsibility. The specifications for the switchgear must be observed.

### 10.13 Mechanical function

The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Resources

### Application notes

eaton-transformer-stz-sti-stn-dtz-uti-ap009002-en-us.pdf

### Brochures

eaton-transformers-brochure-br009002en-en-us.pdf

### Catalogs

eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf

### Declarations of conformity

DA-DC-00004448.pdf

DA-DC-00004420.pdf

### Drawings

eaton-general-control-stn-control-transformer-dimensions-004.eps

### eCAD model

ETN.204977.edz

### mCAD model

DA-CS-stn0_2

DA-CD-stn0_2

### System overview

eaton-general-diagram-sti-control-transformer-explosion-drawing.eps

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