

Eaton 221519

Catalog Number: 221519

Eaton Moeller® series STN Control transformer, 0.8 kVA, Rated input voltage $230 \pm 5\%$ V, Rated output voltage 24 V

General specifications



Product Name

Eaton Moeller® series STN Control transformer

Catalog Number

221519

EAN

4015082215194

Product Length/Depth

138 mm

Product Height

157 mm

Product Width

151 mm

Product Weight

9.6 kg

Certifications

CSA-C22.2 No. 66.1-06

UL 506

UL Recognized

IEC/EN 61558-2-2

CE

IEC/EN 60204-1, ÖVE-EN 13

UL File No.: E167225

UL report applies to both US and Canada

CSA-C22.2 No. 66

UL 5085-2

VDE 0570 Part 2-2

CSA-C22.2 No. 66.2-06

Certified by UL for use in Canada

VDE 0113, VDE 0100 Part 410

UL Category Control No.: XPTQ2,

XPTQ8

UL5085-1

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

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

94 %

No-load losses

24 W

Rated frequency - min

50 Hz

Rated frequency - max

60 Hz

Rated power

0.8 VA

Relative short-circuit voltage

2.5 %

Design verification

Equipment heat dissipation, current-dependent P_{vid}

0 W

Heat dissipation capacity P_{diss}

0 W

Heat dissipation per pole, current-dependent P_{vid}

0 W

Rated operational current for specified heat dissipation (I_n)

0 A

Static heat dissipation, non-current-dependent P_{vs}

48 W

10.2.2 Corrosion resistance

Meets the product standard's requirements.

Short-circuit losses

24 W

Short-time rating

2.25 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-00004420.pdf](#)

[DA-DC-00004448.pdf](#)

Drawings

[eaton-general-control-stn-control-transformer-dimensions-017.eps](#)

eCAD model

[ETN.221519.edz](#)

mCAD model

[DA-CS-stn0_8_24](#)

[DA-CD-stn0_8_24](#)

System overview

[eaton-general-diagram-sti-control-transformer-explosion-drawing.eps](#)



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