

# Specifications



## Eaton 204947

Eaton Moeller® series STN Control transformer, 0.16 kVA, Rated input voltage 230± 5 % V, Rated output voltage 24 V

### General specifications

<b>PRODUCT NAME</b>	Eaton Moeller® series STN Control transformer
<b>CATALOG NUMBER</b>	204947
<b>MODEL CODE</b>	STN0,16(230/24)
<b>EAN</b>	4015082049478
<b>PRODUCT LENGTH/DEPTH</b>	97 mm
<b>PRODUCT HEIGHT</b>	91 mm
<b>PRODUCT WIDTH</b>	85 mm
<b>PRODUCT WEIGHT</b>	2.358 kg
<b>CERTIFICATIONS</b>	UL File No.: E167225 IEC/EN 60204-1, ÖVE-EN 13 CSA-C22.2 No. 66 CSA-C22.2 No. 66.2-06 VDE 0113, VDE 0100 Part 410 UL5085-1 Certified by UL for use in Canada UL 5085-2 CE VDE 0570 Part 2-2 UL Category Control No.: XPTQ2, XPTQ8 UL Recognized IEC/EN 61558-2-2 UL 506 CSA-C22.2 No. 66.1-06 UL report applies to both US and Canada
<b>CATALOG NOTES</b>	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
<b>GLOBAL CATALOG</b>	204947



Powering Business Worldwide

## Product specifications

<b>TYPE</b>	Single-phase STN control transformers
<b>FEATURES</b>	Fully Vacuum-impregnated Separate windings
<b>10.10 TEMPERATURE RISE</b>	The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
<b>10.11 SHORT-CIRCUIT RATING</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.12 ELECTROMAGNETIC COMPATIBILITY</b>	Is the panel builder's responsibility. The specifications for the switchgear must be observed.
<b>10.13 MECHANICAL FUNCTION</b>	The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.
<b>10.2.2 CORROSION RESISTANCE</b>	Meets the product standard's requirements.
<b>10.2.3.1 VERIFICATION OF THERMAL STABILITY OF ENCLOSURES</b>	Meets the product standard's requirements.
<b>10.2.3.2 VERIFICATION OF RESISTANCE OF INSULATING MATERIALS TO NORMAL HEAT</b>	Meets the product standard's requirements.
<b>10.2.3.3 RESIST. OF INSUL. MAT. TO ABNORMAL HEAT/FIRE BY INTERNAL ELECT. EFFECTS</b>	Meets the product standard's requirements.
<b>10.2.4 RESISTANCE TO ULTRA-VIOLET (UV) RADIATION</b>	Meets the product standard's requirements.
<b>10.2.5 LIFTING</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.6 MECHANICAL IMPACT</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.2.7 INSCRIPTIONS</b>	Meets the product standard's requirements.
<b>10.3 DEGREE OF</b>	Does not apply, since the

## Resources

APPLICATION NOTES	<a href="#">eaton-transformer-stz-sti-stn-dtz-uti-ap009002-en-us.pdf</a>
BROCHURES	<a href="#">eaton-transformers-brochure-br009002en-en-us.pdf</a>
CATALOGS	<a href="#">eaton-product-overview-for-machinery-catalogue-ca08103003zen-en-us.pdf</a>
DECLARATIONS OF CONFORMITY	<a href="#">eaton-control-transformer-declaration-of-conformity-eu250578en.pdf</a> <a href="#">eaton-control-transformer-declaration-of-conformity-uk251061en.pdf</a>
DRAWINGS	<a href="#">eaton-general-control-stn-control-transformer-dimensions-003.eps</a>
ECAD MODEL	<a href="#">ETN.204947.edz</a>
MCAD MODEL	<a href="#">DA-CD-stn0_16</a> <a href="#">eaton-single-phase-control-transformers-mcad-drawings-stn-sti0-16.dwg</a> <a href="#">DA-CS-stn0_16</a>
SYSTEM OVERVIEW	<a href="#">eaton-general-diagram-sti-control-transformer-explosion-drawing.eps</a>

<b>PROTECTION OF ASSEMBLIES</b>	entire switchgear needs to be evaluated.
<b>10.4 CLEARANCES AND CREEPAGE DISTANCES</b>	Meets the product standard's requirements.
<b>10.5 PROTECTION AGAINST ELECTRIC SHOCK</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.6 INCORPORATION OF SWITCHING DEVICES AND COMPONENTS</b>	Does not apply, since the entire switchgear needs to be evaluated.
<b>10.7 INTERNAL ELECTRICAL CIRCUITS AND CONNECTIONS</b>	Is the panel builder's responsibility.
<b>10.8 CONNECTIONS FOR EXTERNAL CONDUCTORS</b>	Is the panel builder's responsibility.
<b>10.9.2 POWER-FREQUENCY ELECTRIC STRENGTH</b>	Is the panel builder's responsibility.
<b>10.9.3 IMPULSE WITHSTAND VOLTAGE</b>	Is the panel builder's responsibility.
<b>10.9.4 TESTING OF ENCLOSURES MADE OF INSULATING MATERIAL</b>	Is the panel builder's responsibility.
<b>AMBIENT OPERATING TEMPERATURE - MAX</b>	40 °C
<b>AMBIENT OPERATING TEMPERATURE - MIN</b>	-25 °C
<b>APPARENT POWER</b>	160 VA
<b>EQUIPMENT HEAT DISSIPATION, CURRENT-DEPENDENT PVID</b>	0 W
<b>HEAT DISSIPATION CAPACITY PDISS</b>	0 W
<b>HEAT DISSIPATION PER POLE, CURRENT-DEPENDENT PVID</b>	0 W
<b>NO-LOAD LOSSES</b>	11 W
<b>PRIMARY VOLTAGE 1 - MAX</b>	230 V
<b>PRIMARY VOLTAGE 1 - MIN</b>	230 V
<b>PRIMARY VOLTAGE 10 - MAX</b>	0 V
<b>PRIMARY VOLTAGE 10 - MIN</b>	0 V
<b>PRIMARY VOLTAGE 2 - MAX</b>	0 V
<b>PRIMARY VOLTAGE 2 - MIN</b>	0 V
<b>PRIMARY VOLTAGE 3 - MAX</b>	0 V

<b>PRIMARY VOLTAGE 3 - MIN</b>	0 V
<b>PRIMARY VOLTAGE 4 - MAX</b>	0 V
<b>PRIMARY VOLTAGE 4 - MIN</b>	0 V
<b>PRIMARY VOLTAGE 5 - MAX</b>	0 V
<b>PRIMARY VOLTAGE 5 - MIN</b>	0 V
<b>PRIMARY VOLTAGE 6 - MAX</b>	0 V
<b>CONDUCTOR MATERIAL</b>	Copper
<b>DEGREE OF PROTECTION</b>	IP00
<b>CONNECTION LUG</b>	Yes for > 115 A
<b>CONNECTION TYPE</b>	Terminations, < 115 A
<b>DUTY FACTOR</b>	100 %
<b>INSULATION MATERIAL TYPE (IEC 85)</b>	B
<b>EFFICIENCY</b>	87 %
<b>RELATIVE SHORT-CIRCUIT VOLTAGE</b>	6.7 %
<b>SUITABLE FOR</b>	Branch circuits, (UL/CSA)
<b>INSULATION CLASS</b>	B
<b>PRIMARY TAPPING</b>	± 5 %
<b>PRIMARY VOLTAGE 6 - MIN</b>	0 V
<b>PRIMARY VOLTAGE 7 - MAX</b>	0 V
<b>PRIMARY VOLTAGE 7 - MIN</b>	0 V
<b>PRIMARY VOLTAGE 8 - MAX</b>	0 V
<b>PRIMARY VOLTAGE 8 - MIN</b>	0 V
<b>PRIMARY VOLTAGE 9 - MAX</b>	0 V
<b>PRIMARY VOLTAGE 9 - MIN</b>	0 V
<b>RATED FREQUENCY - MAX</b>	60 Hz
<b>RATED FREQUENCY - MIN</b>	50 Hz
<b>RATED OPERATIONAL CURRENT FOR SPECIFIED HEAT DISSIPATION (IN)</b>	0 A
<b>RATED POWER</b>	0.16 VA
<b>SECONDARY VOLTAGE 1 - MAX</b>	24 V

<b>SECONDARY VOLTAGE 1 - MIN</b>	24 V
<b>SECONDARY VOLTAGE 10 - MAX</b>	0 V
<b>SECONDARY VOLTAGE 10 - MIN</b>	0 V
<b>SECONDARY VOLTAGE 2 - MAX</b>	0 V
<b>SECONDARY VOLTAGE 2 - MIN</b>	0 V
<b>SECONDARY VOLTAGE 3 - MAX</b>	0 V
<b>SECONDARY VOLTAGE 3 - MIN</b>	0 V
<b>SECONDARY VOLTAGE 4 - MAX</b>	0 V
<b>PRODUCT CATEGORY</b>	Single-phase control transformers ST
<b>SECONDARY VOLTAGE 4 - MIN</b>	0 V
<b>SECONDARY VOLTAGE 5 - MAX</b>	0 V
<b>SECONDARY VOLTAGE 5 - MIN</b>	0 V
<b>SECONDARY VOLTAGE 6 - MAX</b>	0 V
<b>SECONDARY VOLTAGE 6 - MIN</b>	0 V
<b>SECONDARY VOLTAGE 7 - MAX</b>	0 V
<b>SECONDARY VOLTAGE 7 - MIN</b>	0 V
<b>SECONDARY VOLTAGE 8 - MAX</b>	0 V
<b>SECONDARY VOLTAGE 8 - MIN</b>	0 V
<b>SECONDARY VOLTAGE 9 - MAX</b>	0 V
<b>SECONDARY VOLTAGE 9 - MIN</b>	0 V
<b>SHORT-CIRCUIT LOSSES</b>	16 W
<b>SHORT-TIME RATING</b>	0.32 kVA
<b>STATIC HEAT DISSIPATION, NON-CURRENT-DEPENDENT PVS</b>	27 W
<b>VOLTAGE RATING - MAX</b>	600 V
<b>POWER CONSUMPTION IN STANDBY MODE</b>	17 W

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**PROJECT NAME:**

**PROJECT NUMBER:**

**PREPARED BY:**

**DATE:**

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**Eaton Corporation plc**

Eaton House  
30 Pembroke Road  
Dublin 4, Ireland  
Eaton.com

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